

Product Range  
International  
2010

Plastic Piping Systems  
for Ship Building and  
Ship Repair



# Applications

**Hot and Cold,  
Fresh Water**  
INSTAFLEX® (PB), iFIT  
AQUASYSTEM (PP-R)



**Water Treatment  
(reverse osmosis,  
dosing,  
neutralisation)**  
PVC-C, PVC-U, PP-H,  
PE, ABS, PB



**Sea and Fresh Water  
Process Cooling  
Water**  
PE 100



**Transport /  
Bunker Lines**  
PE 100, PB



**Venting lines**  
PE 100, Fuseal



**Swimming Pools**  
PVC-C, PVC-U, PP-H,  
PE, ABS



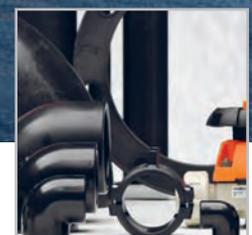
**Grey  
and Black Water**  
FUSEAL Sea Drain  
(PPFR), PVC, ABS



**AC Cooling and Refri-  
geration below 0°C**  
ABS, PE 100,  
SANIPEX MT



**Technical Water**  
PE 100, PB



**Ballastsystems**  
PE 100

# Ship Building

Ships are not only floating cities but are also essential for the world's economy. Water is their element.

Preventing corrosion is more important here than anywhere else. With plastic piping systems from GF Piping Systems, corrosion is no longer an issue.

## → Plastic can do more

Corrosion-free piping systems. This guarantees the long service life of your systems. You save dry-dock time. You save service costs. You save maintenance costs. All in all, you are in business quicker. That is your benefit.

You also save on weight. Plastic piping systems weigh approx. 5 x less than metal – a savings of several tonnes per ship. This in turn allows for more freight, more passengers and therefore more profit.

Besides, installation is much faster. Plastic offers the possibility of prefabrication, which radically reduces installation time on board. Plastic enables installations with a small amount of tools in a small amount of space. Technical specialists are not always required. Another significant benefit.

## → Where can I use plastics?

non-essential systems and in cofferdams, open decks and tanks according to IMO A.753 (18) in combination with classification society approvals plastics can be used for all non-essential systems throughout the vessel. As per lines 19, 22 and 24 in the IMO A.753 application matrix. Low flame spread test data, in accordance to ASTM 635, as well as smoke and toxicity data according to FTP codes, are all available for the complete range of GF plastics.

GF has years of experience and numerous high class references – ask GF in combination with the relevant Class if have any questions regarding application and location when using plastics piping systems in classed vessels.

### Weight comparison. Plastic to Metal (per 100 metres of piping)

| kg                              | Pipe diameter |            |            |            |
|---------------------------------|---------------|------------|------------|------------|
|                                 | d 25          | d 50       | d 110      | d 160      |
| Plastic                         | 16            | 53         | 248        | 550        |
| Carbon steel                    | 119           | 233        | 737        | 1093       |
| Stainless steel                 | 79            | 197        | 505        | 1542       |
| Copper                          | 59            | 292        | 737        | –          |
| <b>Savings plastic to steel</b> | <b>103</b>    | <b>239</b> | <b>489</b> | <b>992</b> |

## → your benefits at a glance

- No corrosion
- Light weight
- Long service life
- Economical upkeep
- Fast installation
- Less noise emission
- Global availability

## → applications – materials – systems

**Water treatment.** A water treatment system for drinking water is always necessary on board a ship. As well as water conditioning for swimming pool water. The best solutions for these applications are our ABS and PP-H systems. These have the advantage of being very lightweight and flexible. Due to the weight advantage, they are also very suitable for use on yachts.

**Ballast water treatment.** Plastics are compact, light weight and allow speedy installation: ideal for use in water treatment skids. GF offers a complete range of valves in compatible materials, both actuated and manual to round off a complete system solution.

**Cooling systems.** For indirect cooling goes below 0°C, plastics which can withstand these temperatures are required. This is where ABS and PE 100 show their strengths because they can be used down to -40°C. They are robust and have excellent impact strength.

**Air venting.** Ventilation of water tanks can be cost effectively using plastic pipes, avoiding potential corrosion and weight problems associated with present traditional metal solutions.

**Hot and cold drinking water.** To supply your staterooms or the kitchen with water, we recommend our INSTAFLEX® (PB) in combination with iFIT and AQUASYSTEM (PP-R) systems.

Both withstands temperatures from 0°C to 95°C and are therefore resistant to hot water. Thanks to its flexibility, the material PB (INSTAFLEX®) is also very easy to install, it can be obtained pre-fabricated in lengths of 40 m rolled together.

**Technical Water.** Cooling (non-essential) and technical water. For cooling seawater or fresh water, our PE 100, ABS and INSTAFLEX systems are ideal. They are robust and very suitable for use at low temperatures.

**Grey and black water.** Our ABS, PVC-C and PVC-U solvent cement systems and our fusion-jointed systems, PE 100 and FUSEAL® Sea Drain, are all ideal for industrial and dirty water.

These plastics can be used at very low temperatures. Like all our plastic systems, they do not corrode and therefore provide a much longer service life. Additionally, they exhibit high mechanical strength, which is very important on ships.

**Ballast systems, transport and bunker lines.** Larger dimensioned systems are necessary for bilge, drainage and ballast systems. PE 100 is ideal for such applications. It is on offer in the dimension range 20–400mm, including a large selection of fittings. Among the multiple benefits are light weight and good abrasion resistance. It can be installed with electrofusion jointing, which is very simple and saves time.

**Approvals.** GF Piping Systems has a whole range of approvals from all the major classification societies.

| Material System  | Classification Society |    |    |      |     |     |     |      |    |    |
|------------------|------------------------|----|----|------|-----|-----|-----|------|----|----|
|                  | GL                     | LR | BV | RINA | ABS | DNV | CCS | RMOS | KR | NK |
| ABS              | •                      | •  | •  | •    | •   | •   |     | •    |    |    |
| PVC-C            | •                      | •  | •  | •    | •   | •   | •   | •    |    |    |
| PVC-U            | •                      | •  | •  | •    | •   | •   | •   | •    |    | •  |
| PE 100           | •                      | •  | •  | •    | •   | •   | •   | •    |    | •  |
| PP-H             |                        | •  | •  | •    |     | •   |     |      |    |    |
| PB INSTAFLEX     | •                      | •  | •  | •    | •   | •   | •   | •    |    | •  |
| PP-R Aquasystem  | •                      | •  | •  | •    | •   | •   |     |      | •  |    |
| iFIT             | •                      | •  | •  | •    | •   | •   |     | •    |    |    |
| Fuseal Sea Drain | •                      | •  |    | •    | •   | •   |     | •    |    |    |
| Butterfly Valve  | •                      | •  | •  | •    | •   | •   | •   | •    |    |    |

# Product Range Piping Systems

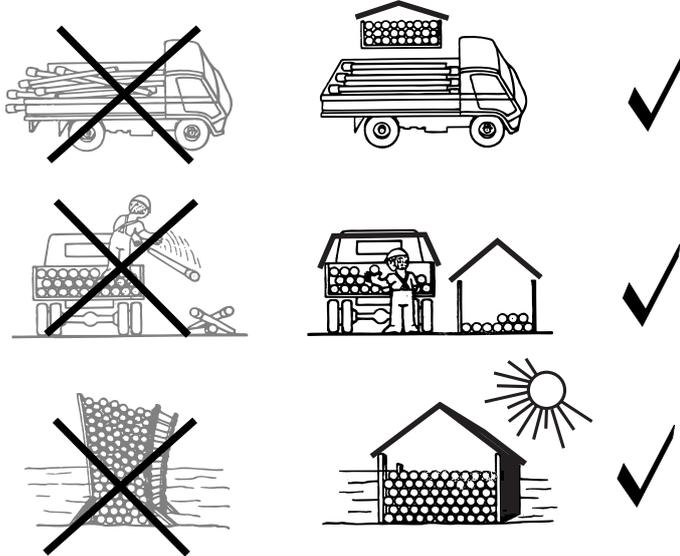
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# Working with plastic pipes and fittings

Transport and storage of plastic pipes

**WRONG**

**RIGHT**



Plastics are materials sensitive to impact and crushing at low temperatures. The temperature limit depends on the relevant material.

|                       |        |
|-----------------------|--------|
| PP-R<br>PVC-C / PVC-U | +5 °C  |
| PB / iFIT             | -10 °C |
| ABS / PE100           | -40 °C |

Below these temperatures pipes and fittings would have to be protected particularly from impacts, crushing and other external mechanical stresses.



Safety instruction

Plastic pipes and plastic fittings must be protected in principle from external influences. Direct sunlight, impacts and compressive stresses should be avoided. The pipes and fittings must be left in their packing until used. They should not be stored out of doors.

## List of abbreviations

|       |   |     |   |
|-------|---|-----|---|
| ANSI  | American National Standard                        | DN  | Nominal bore  |
| ASTM  | American Society for Testing and Materials        | PN  | Nominal pressure at 20°C, water   |
| BS    | British Standard                                  | kg  | Weight in kilograms   |
| DIN   | Deutsche Industrie-Normen                         | g   | Weight in grams   |
| ISO   | International Standardization Organisation        | SP  | Standard pack. The figure given indicates the quantity of fittings contained in a standard pack |
| ABS   | Acrylnitril Butadien Styrene                      | GP  | Gross pack. The figure given indicates the quantity of fittings contained in a gross pack       |
| PVC-U | Polyvinyl Chloride                                | G   | Pipe thread, not pressure tight in the thread to ISO 228-1                                      |
| PVC-C | Polyvinyl Chloride chlorinated                    | NPT | Taper male thread pressure tight in the thread to ANSI B 1.20.1                                 |
| PP    | Polypropylene, heat stabilised                    | R   | Taper male thread, pressure tight in the thread to ISO 7-1/DIN 2999-1                           |
| PE    | Polyethylene                                      | Rc  | Taper female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1                         |
| PVDF  | Polyvinylidene fluoride                           | Rp  | Parallel female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1                      |
| EPDM  | Ethylene Propylene Rubber                         | Tr  | Trapezoid thread  |
| FPM   | Fluorine Rubber, e.g. Viton®                      | SC  | Size of hexagon bolts   |
| NBR   | Nitrile Rubber                                    | s   | A/F   |
| IIR   | Butyl Rubber                                      | e   | Wall thickness  |
| CSM   | Chlore Sulphonyl Polythene, e.g. Hypalon®         | AL  | Number of bolt holes  |
| CR    | Chloroprene Rubber, e.g. Neoprene®                | ®   | Registered trade-mark   |
| PTFE  | Polytetrafluorethylene, e.g. Teflon®              |     |   |
| PBTP  | Polybutylene terephthalate                        |     |   |
| UP-GF | Unsaturated polyester resin glassfibre reinforced |     |   |
| St    | Steel   |     |   |
| Ms    | Brass   |     |   |
| Tg    | Malleable Iron                                    |     |   |
| d     | Pipe outside diameter                             |     |   |
| PB    | Polybutylene                                      |     |   |

# INSTAFLEX

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# Pipes

3710

## Pipe PB in coils

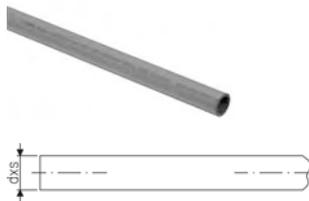


- packed in cardboard boxes
  - \*packed in protective wrap
- \* on request

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  |
|-----------|-----------|--------------------|----|----|-------|
| 16        | 2.2       | <b>760 853 389</b> | 60 | -  | 0.100 |
| 20        | 2.8       | <b>760 853 390</b> | 60 | -  | 0.150 |
| 25        | 2.3       | <b>760 854 946</b> | 30 | -  | 0.165 |

3712

## Pipe PB in bars of 3 m



| d<br>[mm] | s<br>[mm] | Code               | SP | kg/m  |
|-----------|-----------|--------------------|----|-------|
| 25        | 2.3       | <b>760 854 964</b> | 48 | 0.165 |
| 32        | 2.9       | <b>760 854 965</b> | 27 | 0.270 |
| 40        | 3.7       | <b>760 854 966</b> | 27 | 0.416 |
| 50        | 4.6       | <b>760 854 967</b> | 15 | 0.645 |
| 63        | 5.8       | <b>760 854 968</b> | 12 | 1.020 |

3714

## PB pipe in bars of 5,8 m

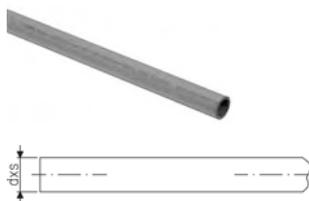


- packed in cardboard boxes

| d<br>[mm] | s<br>[mm] | Code               | GP | kg/m  | SP<br>[m] |
|-----------|-----------|--------------------|----|-------|-----------|
| 16        | 2.2       | <b>760 856 606</b> | 52 | 0.097 | 52.2      |
| 20        | 2.8       | <b>760 856 607</b> | 52 | 0.151 | 52.2      |
| 25        | 2.3       | <b>760 856 608</b> | 58 | 0.165 | 58.0      |
| 32        | 2.9       | <b>760 856 609</b> | 23 | 0.270 | 23.2      |
| 40        | 3.7       | <b>760 856 610</b> | 17 | 0.416 | 17.4      |
| 50        | 4.6       | <b>760 856 611</b> | 17 | 0.645 | 17.4      |
| 63        | 5.8       | <b>760 856 612</b> | 6  | 1.020 | 5.8       |
| 75        | 6.8       | <b>760 856 613</b> | 6  | 1.440 | 5.8       |
| 90        | 8.2       | <b>760 856 614</b> | 6  | 2.060 | 5.8       |
| 110       | 10.0      | <b>760 856 615</b> | 6  | 3.050 | 5.8       |

5200

## PB pipe in bars of 5,8 m



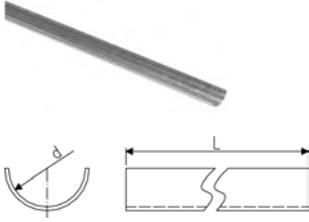
- packed in PE-Bag

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m   | Length<br>[m] |
|-----------|-----------|--------------------|----|----|--------|---------------|
| 125       | 11.4      | <b>761 065 290</b> | 6  | 6  | 3.950  | 5.80          |
| 160       | 14.6      | <b>761 065 291</b> | 6  | 6  | 6.460  | 5.80          |
| 225       | 20.5      | <b>761 065 292</b> | 6  | 6  | 12.700 | 5.80          |

# Accessories

3931

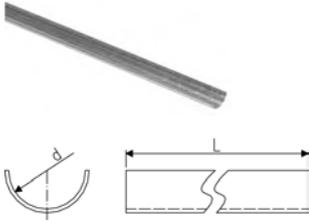
## Clip pipe support tray



| d<br>[mm] | Code               | SP | GP | kg/m  | L<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|
| 16        | <b>760 856 602</b> | 30 | -  | 0.270 | 3000      |
| 20        | <b>760 856 603</b> | 30 | -  | 0.320 | 3000      |
| 25        | <b>760 856 604</b> | 30 | -  | 0.480 | 3000      |
| 32        | <b>760 856 605</b> | 30 | -  | 0.600 | 3000      |

3929

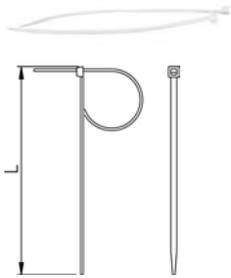
## Pipe support tray



| d<br>[mm] | Code               | SP | GP | kg/m  | L<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|
| 40        | <b>760 854 928</b> | 30 | -  | 0.360 | 3000      |
| 50        | <b>760 854 929</b> | 30 | -  | 0.450 | 3000      |
| 63        | <b>760 854 930</b> | 30 | -  | 0.570 | 3000      |
| 75        | <b>760 854 985</b> | 30 | -  | 0.680 | 3000      |

3930

## Carrier ties

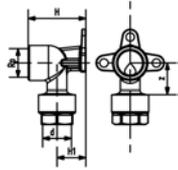


| d-d<br>[mm] | Code               | SP  | GP | kg    | L<br>[mm] |
|-------------|--------------------|-----|----|-------|-----------|
| 16 - 40     | <b>760 853 283</b> | 100 | -  | 0.001 | 200       |
| 50 - 75     | <b>760 853 284</b> | 100 | -  | 0.003 | 300       |
| 90 - 110    | <b>760 854 984</b> | 100 | -  | 0.001 | 430       |

# Outlet joints without box

3032

## Single pipe outlet, with flange

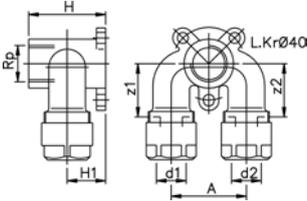


- Screw 760 856 040, self tapping M6 x16
- \* for GIS wall mounting

| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | H<br>[mm] | H1<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|------------|-----------|
| 16        | ½            | <b>760 853 013</b> | 10 | 0.140 | 44        | 22         | 28        |
| 16        | ½            | <b>760 856 036</b> | 2  | 0.269 | 60        | 22         | 28        |
| 16        | ½            | <b>760 856 037</b> | 2  | 0.319 | 80        | 22         | 28        |
| 20        | ½            | <b>760 854 682</b> | 10 | 0.150 | 44        | 25         | 28        |
| 20        | ¾            | <b>760 853 038</b> | 1  | 0.244 | 44        | 25         | 28        |

3043

## Dual pipe outlet, with flange

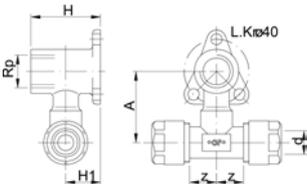


- Screw 760 856 040, self tapping M6 x16
- \* for GIS wall mounting

| d1<br>[mm] | Rp<br>[inch] | d2<br>[mm] | Code               | SP | kg    | H<br>[mm] | H1<br>[mm] | A<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|------------|--------------|------------|--------------------|----|-------|-----------|------------|-----------|------------|------------|
| 16         | ½            | 16         | <b>760 853 059</b> | 1  | 0.305 | 44        | 22         | 40        | 30         | 30         |
| * 16       | ½            | 16         | <b>760 856 045</b> | 1  | 0.385 | 100       | 22         | 40        | 30         | 30         |
| 20         | ½            | 20         | <b>760 869 902</b> | 1  | 0.440 | 44        | 25         | 40        | 32         | 32         |

3030

## Dual pipe outlet, with flange

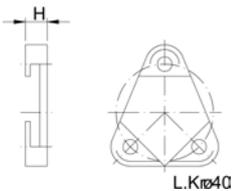


- Screw 760 856 040, self tapping M6 x16

| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | H<br>[mm] | H1<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|------------|-----------|
| 16        | ½            | <b>760 853 014</b> | 10 | 0.374 | 44        | 22         | 19        |

3172

## Rubber isolator for pipe outlets



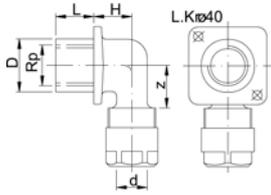
- suitable for dual pipe outlets

| Code               | SP | kg    | H<br>[mm] | z<br>[mm] |
|--------------------|----|-------|-----------|-----------|
| <b>760 856 205</b> | 20 | 0.007 | 9         | 3         |

3064

### Single pipe outlet, with flange

- Screw 760 856 040, self tapping M6 x16



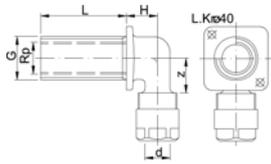
| d [mm] | Rp [inch] | Code               | SP | kg    | H [mm] | L [mm] | D [mm] | z [mm] |
|--------|-----------|--------------------|----|-------|--------|--------|--------|--------|
| 16     | 1/2       | <b>760 869 904</b> | 2  | 0.215 | 22     | 20     | 27     | 26     |

3066

### Single pipe outlet, with flange

- Screw 760 856 040, self tapping M6 x16

\* on request

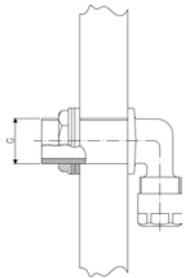


| d [mm] | Rp [inch] | G [inch] | Code               | SP | kg    | H [mm] | L [mm] | z [mm] |
|--------|-----------|----------|--------------------|----|-------|--------|--------|--------|
| 16     | 1/2       | 3/4      | <b>760 856 041</b> | 2  | 0.270 | 20     | 30     | 26     |
| 16     | 1/2       | 3/4      | <b>760 869 906</b> | 2  | 0.260 | 20     | 55     | 26     |

3067

### Fastening set

- appropriate to outlet joint with male thread
- consists of: Union nut, washer, seal
- from the INSTAFLEX range

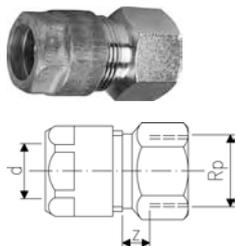


| G [inch] | Code               | SP | kg    |
|----------|--------------------|----|-------|
| 3/4      | <b>760 854 699</b> | 10 | 0.045 |

# Fittings for compression jointings

3301

## Transition with female thread

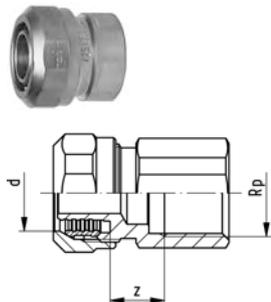


| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | z<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|
| 16        | 1/2          | <b>760 853 104</b> | 5  | 0.078 | 12        |
| 16        | 3/4          | <b>760 853 105</b> | 5  | 0.105 | 15        |
| 20        | 1/2          | <b>760 853 194</b> | 5  | 0.077 | 14        |
| 20        | 3/4          | <b>760 853 153</b> | 5  | 0.118 | 15        |

3301

## Transition with female thread

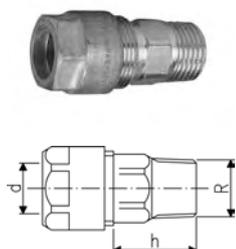
\* on request



| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | z<br>[mm] | Remarks          |
|-----------|--------------|--------------------|----|-------|-----------|------------------|
| 25        | 3/4          | <b>760 856 231</b> | 10 | 0.165 | 7         |                  |
| 25        | 1            | <b>760 856 232</b> | 10 | 0.209 | 13        |                  |
| 32        | 1            | <b>760 856 233</b> | 10 | 0.317 | 7         |                  |
| 40        | 1 1/4        | <b>760 856 234</b> | 10 | 0.453 | 7         |                  |
| 50        | 1 1/2        | <b>760 856 235</b> | 5  | 0.625 | 7         |                  |
| 63        | 2            | <b>760 856 236</b> | 1  | 1.570 | 9         |                  |
| 75        | 2 1/2        | <b>760 856 248</b> | 1  | 1.976 | 10        | without approval |
| * 90      | 3            | <b>760 856 261</b> | 1  | 0.800 | 9         | without approval |
| * 110     | 4            | <b>760 856 262</b> | 1  | 5.800 | 38        | without approval |

3310

## Transition with male thread

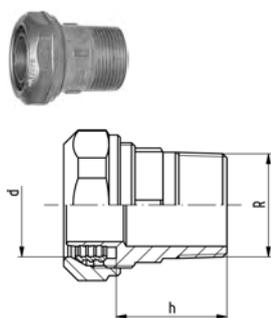


| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | h<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|
| 16        | 1/2         | <b>760 853 107</b> | 5  | 0.105 | 30        |
| 16        | 3/4         | <b>760 853 108</b> | 5  | 0.086 | 34        |
| 20        | 1/2         | <b>760 853 195</b> | 5  | 0.090 | 38        |
| 20        | 3/4         | <b>760 853 138</b> | 5  | 0.098 | 36        |

3310

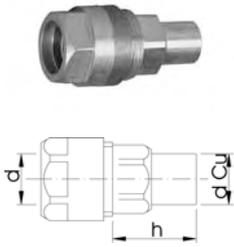
## Transition with male thread

\* on request



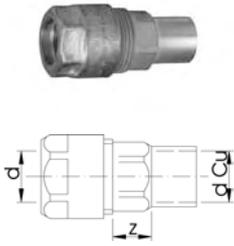
| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | h<br>[mm] | Remarks          |
|-----------|-------------|--------------------|----|-------|-----------|------------------|
| 25        | 3/4         | <b>760 856 241</b> | 10 | 0.149 | 35        |                  |
| 25        | 1           | <b>760 856 242</b> | 10 | 0.175 | 41        |                  |
| 32        | 1           | <b>760 856 243</b> | 10 | 0.256 | 42        |                  |
| 40        | 1 1/4       | <b>760 856 244</b> | 10 | 0.343 | 44        |                  |
| 50        | 1 1/2       | <b>760 856 245</b> | 5  | 0.490 | 47        |                  |
| 63        | 2           | <b>760 856 246</b> | 1  | 0.812 | 32        |                  |
| 75        | 2 1/2       | <b>760 856 247</b> | 1  | 1.127 | 37        | without approval |
| * 90      | 3           | <b>760 856 263</b> | 1  | 0.800 | 32        | without approval |
| * 110     | 4           | <b>760 856 264</b> | 1  | 1.000 | 38        | without approval |

3321

**Transition with soldering end, spigot**

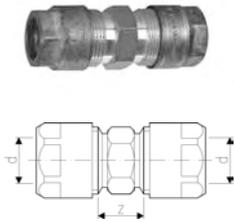
| d<br>[mm] | dCu<br>[mm] | Code               | SP | kg    | h<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|
| 16        | 15          | <b>760 853 113</b> | 2  | 0.097 | 28        |
| 16        | 18          | <b>760 853 198</b> | 2  | 0.103 | 30        |
| 20        | 18          | <b>760 853 199</b> | 2  | 0.135 | 35        |
| 20        | 22          | <b>760 854 700</b> | 2  | 0.155 | 38        |

3320

**Transition with soldering end, socket**

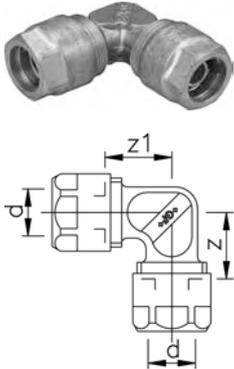
| d<br>[mm] | dCu<br>[mm] | Code               | SP | kg    | z<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|
| 16        | 15          | <b>760 853 114</b> | 2  | 0.086 | 14        |
| 16        | 18          | <b>760 853 196</b> | 2  | 0.093 | 12        |
| 20        | 18          | <b>760 853 197</b> | 2  | 0.168 | 14        |
| 20        | 22          | <b>760 853 139</b> | 2  | 0.156 | 11        |

3330

**Socket**

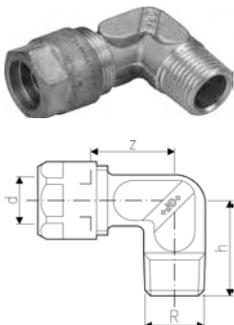
| d<br>[mm] | Code               | SP | kg    | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 16        | <b>760 853 124</b> | 2  | 0.073 | 26        |
| 20        | <b>760 853 151</b> | 2  | 0.294 | 28        |

3363

**Elbow 90°**

| d<br>[mm] | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] |
|-----------|--------------------|----|-------|-----------|------------|
| 16        | <b>760 854 842</b> | 5  | 0.199 | 22        | 22         |
| 20        | <b>760 854 843</b> | 5  | 0.262 | 24        | 24         |

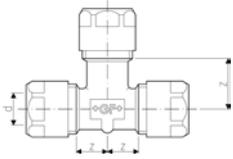
3364

**Transition elbow 90° with male thread**

| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | h<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|-----------|
| 16        | ½           | <b>760 854 838</b> | 5  | 0.171 | 35        | 27        |
| 16        | ¾           | <b>760 854 839</b> | 2  | 0.184 | 35        | 27        |
| 20        | ½           | <b>760 869 991</b> | 5  | 0.190 | 35        | 29        |
| 20        | ¾           | <b>760 854 840</b> | 5  | 0.208 | 35        | 29        |
| 25        | ¾           | <b>760 854 819</b> | 2  | 0.234 | 44        | 34        |

3350

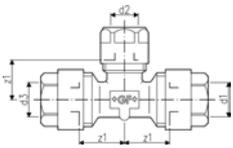
**Tee 90°, equal**



| d<br>[mm] | Code               | SP | kg    | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 16        | <b>760 853 125</b> | 2  | 0.259 | 22        |
| 20        | <b>760 853 131</b> | 2  | 0.388 | 24        |

3355/3356/3357

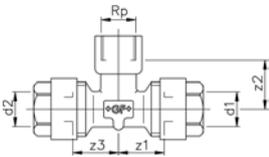
**Tee 90°, reduced**



| d3<br>[mm] | d1<br>[mm] | d2<br>[mm] | Code               | SP | kg    | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|--------------------|----|-------|------------|------------|------------|
| 20         | 20         | 16         | <b>760 853 136</b> | 2  | 0.360 | 24         | 23         | 23         |
| 16         | 20         | 16         | <b>760 853 140</b> | 2  | 0.330 | 24         | 23         | 23         |
| 16         | 20         | 20         | <b>760 853 137</b> | 2  | 0.319 | 24         | 24         | 23         |

3359

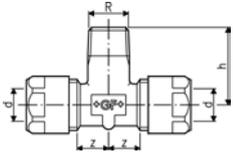
**Transition Tee with female thread**



| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|-----------|--------------|--------------------|----|-------|------------|------------|------------|
| 20        | ½            | <b>760 854 841</b> | 5  | 0.320 | 24         | 22         | 24         |

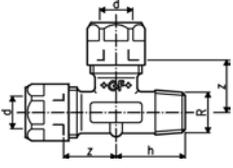
3358

**Transition Tee with male thread**



| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | z<br>[mm] | h<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|-----------|
| 16        | ½           | <b>760 854 711</b> | 2  | 0.225 | 19        | 38        |
| 20        | ½           | <b>760 856 211</b> | 2  | 0.327 | 24        | 39        |

3360

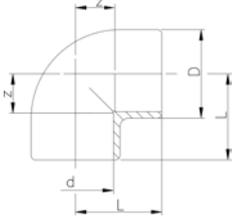
**Transition Tee with male thread**

| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | z<br>[mm] | h<br>[mm] |  |
|-----------|-------------|--------------------|----|-------|-----------|-----------|--|
| 16        | 1/2         | <b>760 869 987</b> | 2  | 0.200 | 22        | 30        |  |

# Fittings for socket fusion jointing

## Elbow 90°

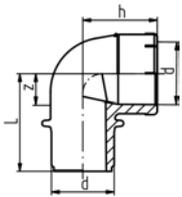
5005



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|
| 16        | <b>761 066 600</b> | 10 | 0.014 | 25        | 22        | 10        |
| 20        | <b>761 066 601</b> | 10 | 0.015 | 28        | 26        | 13        |
| 25        | <b>761 066 602</b> | 10 | 0.026 | 32        | 32        | 14        |
| 32        | <b>761 066 603</b> | 10 | 0.035 | 38        | 40        | 18        |
| 40        | <b>761 066 604</b> | 5  | 0.076 | 44        | 51        | 22        |
| 50        | <b>761 066 605</b> | 5  | 0.116 | 51        | 64        | 26        |
| 63        | <b>761 066 606</b> | 2  | 0.239 | 62        | 81        | 34        |
| 75        | <b>761 066 607</b> | 2  | 0.310 | 75        | 91        | 44        |
| 90        | <b>761 066 608</b> | 2  | 0.500 | 88        | 108       | 52        |
| 110       | <b>761 066 609</b> | 2  | 0.900 | 105       | 132       | 63        |

5008

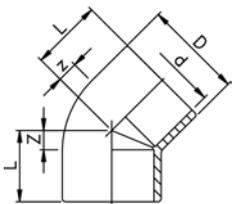
## Elbow 90°, socket-spigot



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | h<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 16        | <b>761 066 900</b> | 10 | 0.009 | 25        | 22        | 34        | 10        |
| 20        | <b>761 066 901</b> | 10 | 0.012 | 28        | 26        | 36        | 13        |
| 25        | <b>761 066 902</b> | 10 | 0.021 | 32        | 32        | 44        | 14        |
| 32        | <b>761 066 903</b> | 10 | 0.037 | 38        | 40        | 50        | 18        |
| 40        | <b>761 066 904</b> | 5  | 0.067 | 44        | 51        | 58        | 22        |
| 50        | <b>761 066 905</b> | 5  | 0.122 | 51        | 64        | 70        | 26        |
| 63        | <b>761 066 906</b> | 2  | 0.233 | 62        | 81        | 82        | 34        |

5010

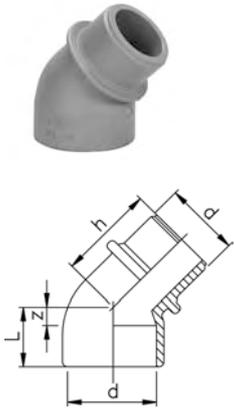
## Elbow 45°



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|
| 16        | <b>761 066 610</b> | 10 | 0.008 | 21        | 22        | 6         |
| 20        | <b>761 066 611</b> | 10 | 0.016 | 22        | 26        | 7         |
| 25        | <b>761 066 612</b> | 10 | 0.026 | 25        | 32        | 7         |
| 32        | <b>761 066 613</b> | 10 | 0.030 | 30        | 40        | 10        |
| 40        | <b>761 066 614</b> | 5  | 0.064 | 34        | 51        | 12        |
| 50        | <b>761 066 615</b> | 5  | 0.090 | 39        | 64        | 14        |
| 63        | <b>761 066 616</b> | 2  | 0.145 | 45        | 81        | 17        |
| 75        | <b>761 066 617</b> | 2  | 0.210 | 51        | 92        | 20        |
| 90        | <b>761 066 618</b> | 2  | 0.430 | 58        | 109       | 22        |
| 110       | <b>761 066 619</b> | 2  | 0.640 | 68        | 134       | 26        |

5018

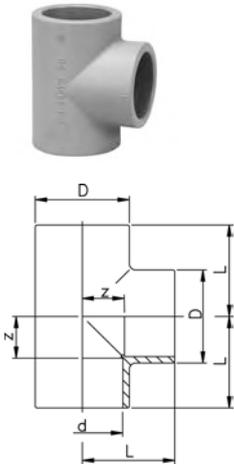
## Elbow 45°, socket-spigot



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | h<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 16        | <b>761 066 907</b> | 10 | 0.008 | 21        | 22        | 29        | 6         |
| 20        | <b>761 066 908</b> | 10 | 0.011 | 22        | 26        | 30        | 7         |
| 25        | <b>761 066 909</b> | 10 | 0.017 | 25        | 32        | 35        | 7         |
| 32        | <b>761 066 910</b> | 10 | 0.032 | 30        | 40        | 40        | 10        |
| 40        | <b>761 066 911</b> | 5  | 0.055 | 34        | 51        | 46        | 12        |
| 50        | <b>761 066 912</b> | 5  | 0.099 | 39        | 64        | 53        | 14        |
| 63        | <b>761 066 913</b> | 2  | 0.180 | 45        | 81        | 62        | 17        |

5015

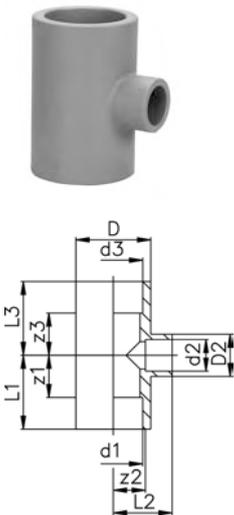
## Tee 90° equal



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|
| 16        | <b>761 066 620</b> | 10 | 0.017 | 25        | 22        | 10        |
| 20        | <b>761 066 621</b> | 10 | 0.025 | 28        | 26        | 13        |
| 25        | <b>761 066 622</b> | 10 | 0.036 | 32        | 32        | 14        |
| 32        | <b>761 066 623</b> | 10 | 0.045 | 38        | 40        | 18        |
| 40        | <b>761 066 624</b> | 5  | 0.105 | 44        | 51        | 22        |
| 50        | <b>761 066 625</b> | 5  | 0.145 | 51        | 64        | 26        |
| 63        | <b>761 066 626</b> | 2  | 0.315 | 62        | 81        | 34        |
| 75        | <b>761 066 627</b> | 2  | 0.430 | 75        | 91        | 44        |
| 90        | <b>761 066 628</b> | 2  | 0.750 | 88        | 112       | 52        |
| 110       | <b>761 066 629</b> | 2  | 1.120 | 105       | 132       | 63        |

5020

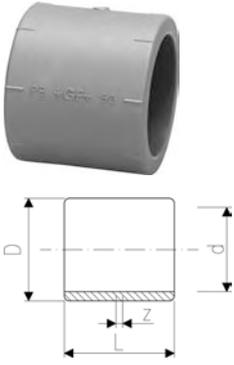
## Tee 90° reduced



| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code               | SP | kg    | D<br>[mm] | D2<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|--------------------|----|-------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20         | 16         | 20         | <b>761 066 914</b> | 10 | 0.015 | 26        | 22         | 28         | 28         | 28         | 13         | 13         | 13         |
| 20         | 16         | 16         | <b>761 066 915</b> | 10 | 0.016 | 26        | 22         | 28         | 28         | 28         | 13         | 13         | 13         |
| 20         | 20         | 16         | <b>761 066 916</b> | 10 | 0.017 | 26        | 26         | 28         | 28         | 28         | 13         | 13         | 13         |
| 25         | 16         | 25         | <b>761 066 917</b> | 10 | 0.025 | 32        | 26         | 32         | 32         | 32         | 14         | 17         | 14         |
| 25         | 20         | 25         | <b>761 066 918</b> | 10 | 0.023 | 32        | 26         | 32         | 32         | 32         | 14         | 17         | 14         |
| 25         | 20         | 20         | <b>761 066 919</b> | 10 | 0.026 | 32        | 26         | 32         | 32         | 32         | 14         | 17         | 17         |
| 25         | 25         | 20         | <b>761 066 920</b> | 10 | 0.027 | 32        | 32         | 32         | 32         | 32         | 14         | 14         | 17         |
| 32         | 16         | 32         | <b>761 066 921</b> | 10 | 0.041 | 40        | 26         | 38         | 38         | 38         | 18         | 23         | 18         |
| 32         | 20         | 32         | <b>761 066 922</b> | 10 | 0.039 | 40        | 26         | 38         | 38         | 38         | 18         | 23         | 18         |
| 32         | 25         | 32         | <b>761 066 923</b> | 10 | 0.040 | 40        | 32         | 38         | 38         | 38         | 18         | 20         | 18         |
| 40         | 16         | 40         | <b>761 066 295</b> | 5  | 0.083 | 51        | 34         | 44         | 44         | 44         | 22         | 29         | 22         |
| 40         | 25         | 40         | <b>761 066 924</b> | 5  | 0.077 | 51        | 34         | 44         | 44         | 44         | 22         | 26         | 22         |
| 50         | 16         | 50         | <b>761 066 309</b> | 5  | 0.135 | 64        | 34         | 51         | 51         | 51         | 26         | 36         | 26         |
| 50         | 25         | 50         | <b>761 066 925</b> | 5  | 0.130 | 64        | 34         | 51         | 51         | 51         | 26         | 33         | 26         |
| 63         | 16         | 63         | <b>761 066 310</b> | 2  | 0.257 | 81        | 35         | 62         | 62         | 62         | 34         | 47         | 34         |
| 63         | 25         | 63         | <b>761 066 926</b> | 5  | 0.252 | 81        | 35         | 62         | 62         | 62         | 34         | 44         | 34         |

## 5040

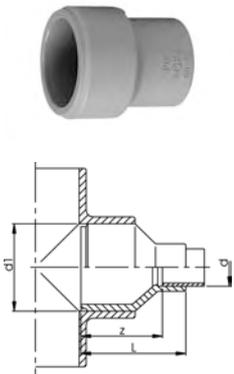
## Socket



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|
| 16        | <b>761 066 660</b> | 10 | 0.009 | 33        | 22        | 3         |
| 20        | <b>761 066 661</b> | 10 | 0.014 | 33        | 26        | 3         |
| 25        | <b>761 066 662</b> | 10 | 0.020 | 39        | 32        | 3         |
| 32        | <b>761 066 663</b> | 10 | 0.033 | 43        | 40        | 3         |
| 40        | <b>761 066 664</b> | 10 | 0.048 | 48        | 51        | 4         |
| 50        | <b>761 066 665</b> | 10 | 0.069 | 54        | 64        | 4         |
| 63        | <b>761 066 666</b> | 2  | 0.120 | 60        | 81        | 4         |
| 75        | <b>761 066 667</b> | 2  | 0.150 | 69        | 91        | 7         |
| 90        | <b>761 066 668</b> | 2  | 0.250 | 80        | 110       | 8         |
| 110       | <b>761 066 669</b> | 2  | 0.440 | 94        | 133       | 10        |

## 5045

## Reducing bush



| d<br>[mm] | d1<br>[mm] | Code               | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|-------|-----------|-----------|
| 16        | 20         | <b>761 066 670</b> | 10 | 0.005 | 30        | 15        |
| 16        | 25         | <b>761 066 671</b> | 10 | 0.010 | 33        | 18        |
| 20        | 25         | <b>761 066 672</b> | 10 | 0.015 | 33        | 18        |
| 20        | 32         | <b>761 066 674</b> | 10 | 0.018 | 40        | 25        |
| 25        | 32         | <b>761 066 675</b> | 10 | 0.022 | 40        | 22        |
| 20        | 40         | <b>761 066 677</b> | 10 | 0.024 | 42        | 27        |
| 25        | 40         | <b>761 066 678</b> | 10 | 0.028 | 42        | 24        |
| 32        | 40         | <b>761 066 679</b> | 10 | 0.034 | 42        | 22        |
| 20        | 50         | <b>761 066 681</b> | 10 | 0.035 | 55        | 40        |
| 25        | 50         | <b>761 066 682</b> | 10 | 0.038 | 55        | 37        |
| 32        | 50         | <b>761 066 683</b> | 10 | 0.042 | 55        | 35        |
| 40        | 50         | <b>761 066 684</b> | 10 | 0.050 | 55        | 33        |
| 20        | 63         | <b>761 066 686</b> | 5  | 0.055 | 58        | 43        |
| 25        | 63         | <b>761 066 687</b> | 5  | 0.060 | 58        | 40        |
| 32        | 63         | <b>761 066 688</b> | 5  | 0.066 | 58        | 38        |
| 40        | 63         | <b>761 066 689</b> | 5  | 0.074 | 58        | 36        |
| 50        | 63         | <b>761 066 690</b> | 5  | 0.079 | 58        | 33        |
| 63        | 75         | <b>761 066 742</b> | 2  | 0.115 | 67        | 39        |
| 63        | 90         | <b>761 066 746</b> | 2  | 0.149 | 74        | 46        |
| 75        | 90         | <b>761 066 745</b> | 2  | 0.160 | 74        | 43        |
| 63        | 110        | <b>761 066 747</b> | 2  | 0.229 | 86        | 58        |
| 75        | 110        | <b>761 066 749</b> | 2  | 0.234 | 86        | 55        |
| 90        | 110        | <b>761 066 748</b> | 2  | 0.270 | 86        | 50        |

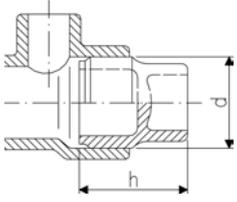
## 5050

## Cap



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 16        | <b>761 066 650</b> | 10 | 0.006 | 22        |
| 20        | <b>761 066 651</b> | 10 | 0.010 | 24        |
| 25        | <b>761 066 652</b> | 10 | 0.014 | 28        |
| 32        | <b>761 066 653</b> | 10 | 0.022 | 32        |
| 40        | <b>761 066 654</b> | 10 | 0.024 | 38        |
| 50        | <b>761 066 655</b> | 10 | 0.050 | 44        |
| 63        | <b>761 066 656</b> | 5  | 0.079 | 50        |

5051

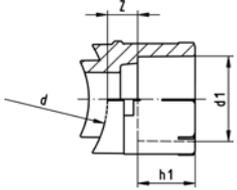
**Plug**

| d<br>[mm] | Code               | SP | kg    | h<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 25        | <b>761 066 938</b> | 10 | 0.008 | 33        |

5054

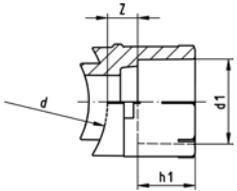
**Weld-in-Saddle**

\* on request



| d - d1<br>[mm] | Code               | SP | kg    | h1<br>[mm] | z<br>[mm] |
|----------------|--------------------|----|-------|------------|-----------|
| * 40 - 20      | <b>761 068 000</b> | 5  | 0.011 | 15         | 11        |
| 50 - 20        | <b>761 068 003</b> | 5  | 0.011 | 15         | 11        |
| 50 - 25        | <b>761 068 004</b> | 5  | 0.014 | 18         | 11        |
| 50 - 32        | <b>761 068 005</b> | 5  | 0.020 | 20         | 11        |
| 63 - 20        | <b>761 068 006</b> | 5  | 0.012 | 15         | 11        |
| 63 - 25        | <b>761 068 007</b> | 5  | 0.016 | 18         | 11        |
| 63 - 32        | <b>761 068 008</b> | 5  | 0.022 | 20         | 11        |
| 75 - 20        | <b>761 068 009</b> | 5  | 0.014 | 15         | 12        |
| 75 - 25        | <b>761 068 010</b> | 5  | 0.017 | 18         | 12        |
| 75 - 32        | <b>761 068 011</b> | 5  | 0.022 | 20         | 12        |
| 90 - 20        | <b>761 068 012</b> | 5  | 0.018 | 15         | 13        |
| 90 - 25        | <b>761 068 013</b> | 5  | 0.021 | 18         | 13        |
| 90 - 32        | <b>761 068 014</b> | 5  | 0.027 | 20         | 13        |
| 110 - 20       | <b>761 068 015</b> | 5  | 0.019 | 15         | 14        |
| 110 - 25       | <b>761 068 016</b> | 5  | 0.022 | 18         | 14        |
| 110 - 32       | <b>761 068 017</b> | 5  | 0.020 | 20         | 14        |

5054

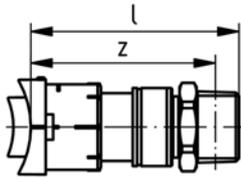
**Weld-in-Saddle**

| d - d1<br>[mm] | Code               | SP | kg    | h1<br>[mm] | z<br>[mm] |
|----------------|--------------------|----|-------|------------|-----------|
| 125 - 32       | <b>761 068 018</b> | 5  | 0.035 | 20         | 16        |
| 125 - 40       | <b>761 068 019</b> | 5  | 0.056 | 22         | 16        |
| 125 - 50       | <b>761 068 020</b> | 5  | 0.072 | 25         | 16        |
| 160 - 32       | <b>761 068 021</b> | 5  | 0.045 | 20         | 16        |
| 160 - 40       | <b>761 068 022</b> | 5  | 0.061 | 22         | 16        |
| 160 - 50       | <b>761 068 023</b> | 5  | 0.077 | 25         | 16        |
| 225 - 32       | <b>761 068 024</b> | 5  | 0.076 | 20         | 16        |
| 225 - 40       | <b>761 068 025</b> | 5  | 0.076 | 22         | 16        |
| 225 - 50       | <b>761 068 026</b> | 5  | 0.092 | 25         | 16        |

5058

**Weld-in-Saddle with male thread**

\* on request

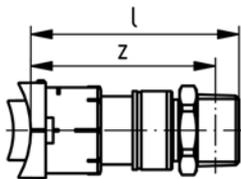


| d - d1<br>[mm] | R<br>[inch] | Code               | SP | kg    | l<br>[mm] | z<br>[mm] |
|----------------|-------------|--------------------|----|-------|-----------|-----------|
| * 50 - 25      | 3/4         | <b>761 068 041</b> | 2  | 0.147 | 91        | 66        |
| * 63 - 32      | 1           | <b>761 068 042</b> | 2  | 0.220 | 95        | 70        |
| * 75 - 32      | 1           | <b>761 068 043</b> | 2  | 0.220 | 96        | 71        |
| * 90 - 32      | 1           | <b>761 068 044</b> | 2  | 0.224 | 97        | 72        |
| * 110 - 32     | 1           | <b>761 068 045</b> | 2  | 0.244 | 98        | 73        |

5058

**Weld-in-Saddle with male thread**

\* on request



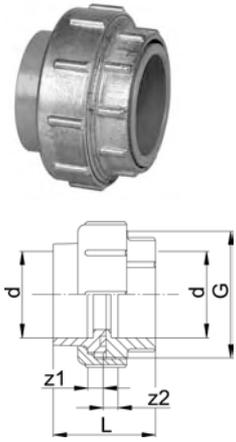
| d - d1<br>[mm] | R<br>[inch] | Code               | SP | kg    | l<br>[mm] | z<br>[mm] |
|----------------|-------------|--------------------|----|-------|-----------|-----------|
| * 125 - 32     | 1           | <b>761 068 046</b> | 2  | 0.232 | 100       | 90        |
| * 160 - 32     | 1           | <b>761 068 047</b> | 2  | 0.232 | 100       | 90        |
| * 225 - 32     | 1           | <b>761 068 048</b> | 2  | 0.261 | 100       | 90        |

# Unions

5035

## Union, socket-socket

- including O-Ring, EPDM quality for potable water

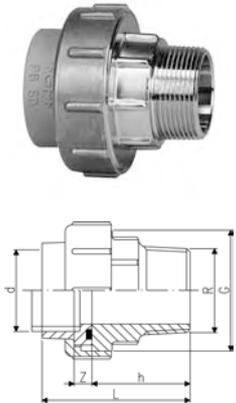


| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] |
|-----------|--------------------|----|-------|-----------|------------|------------|-------------|
| 16        | <b>761 066 691</b> | 10 | 0.135 | 43        | 8          | 5          | 1           |
| 20        | <b>761 066 692</b> | 10 | 0.150 | 43        | 8          | 5          | 11/4        |
| 25        | <b>761 066 693</b> | 10 | 0.200 | 49        | 8          | 5          | 11/2        |
| 32        | <b>761 066 694</b> | 5  | 0.295 | 53        | 8          | 5          | 2           |
| 40        | <b>761 066 695</b> | 5  | 0.450 | 59        | 10         | 5          | 21/2        |
| 50        | <b>761 066 696</b> | 2  | 0.560 | 65        | 10         | 5          | 23/4        |
| 63        | <b>761 066 697</b> | 2  | 0.900 | 71        | 10         | 5          | 31/2        |

5036

## Adaptor union socket-male thread

- including O-Ring, EPDM quality for potable water

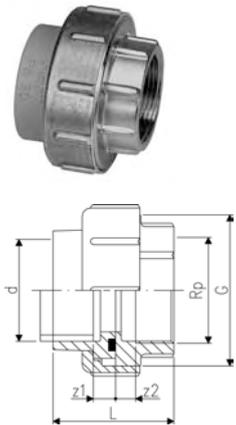


| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | L<br>[mm] | h<br>[mm] | z<br>[mm] | G<br>[inch] |
|-----------|-------------|--------------------|----|-------|-----------|-----------|-----------|-------------|
| 16        | 1/2         | <b>761 066 698</b> | 10 | 0.262 | 61        | 38        | 8         | 1           |
| 20        | 1/2         | <b>761 066 699</b> | 10 | 0.150 | 63        | 40        | 8         | 11/4        |
| 25        | 3/4         | <b>761 066 700</b> | 10 | 0.320 | 67        | 41        | 8         | 11/2        |
| 32        | 1           | <b>761 066 701</b> | 5  | 0.340 | 73        | 45        | 8         | 2           |
| 40        | 1 1/4       | <b>761 066 702</b> | 5  | 0.560 | 80        | 48        | 10        | 21/2        |
| 50        | 1 1/2       | <b>761 066 703</b> | 2  | 0.800 | 83        | 48        | 10        | 23/4        |
| 63        | 2           | <b>761 066 704</b> | 2  | 0.900 | 92        | 54        | 10        | 31/2        |

5037

## Adaptor union, socket-female thread

- including O-Ring, EPDM quality for potable water

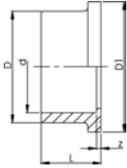


| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | L<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] |
|-----------|--------------|--------------------|----|-------|-----------|------------|------------|-------------|
| 16        | 1/2          | <b>761 066 705</b> | 10 | 0.207 | 45        | 8          | 9          | 1           |
| 20        | 1/2          | <b>761 066 706</b> | 10 | 0.120 | 47        | 8          | 10         | 11/4        |
| 25        | 3/4          | <b>761 066 707</b> | 10 | 0.280 | 50        | 8          | 9          | 11/2        |
| 32        | 1            | <b>761 066 708</b> | 5  | 0.270 | 53        | 8          | 8          | 2           |
| 40        | 1 1/4        | <b>761 066 709</b> | 5  | 0.600 | 58        | 10         | 7          | 21/2        |
| 50        | 1 1/2        | <b>761 066 710</b> | 2  | 0.700 | 61        | 10         | 7          | 23/4        |
| 63        | 2            | <b>761 066 711</b> | 2  | 0.720 | 66        | 10         | 5          | 31/2        |

# Flange jointing

## Flange adaptor flat

5030

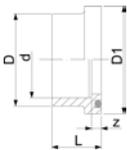


- suitable for flange or union nut

| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | h<br>[mm] | D<br>[mm] | D1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|------------|-----------|
| 16        | <b>761 066 630</b> | 10 | 0.005 |           |           |           |            |           |
| 20        | <b>761 066 631</b> | 10 | 0.007 | 20        | 6         | 27        | 34         | 5         |
| 25        | <b>761 066 632</b> | 10 | 0.010 | 23        | 7         | 33        | 41         | 5         |
| 32        | <b>761 066 633</b> | 10 | 0.016 | 25        | 7         | 41        | 50         | 5         |
| 40        | <b>761 066 634</b> | 10 | 0.025 | 27        | 8         | 50        | 61         | 5         |
| 50        | <b>761 066 635</b> | 10 | 0.034 | 30        | 8         | 61        | 73         | 5         |
| 63        | <b>761 066 636</b> | 2  | 0.060 | 33        | 9         | 76        | 90         | 5         |
| 75        | <b>761 066 637</b> | 2  | 0.090 | 35        | 10        | 90        | 106        | 4         |
| 90        | <b>761 066 638</b> | 2  | 0.130 | 42        | 11        | 109       | 125        | 6         |
| 110       | <b>761 066 639</b> | 2  | 0.230 | 49        | 12        | 131       | 150        | 7         |

5031

## Flange adaptor with groove

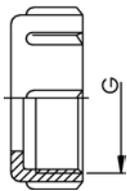


- suitable for flange or union nut
- including O-Ring, EPDM quality for potable water

| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] | D1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|------------|-----------|
| 16        | <b>761 066 640</b> | 10 | 0.006 | 23        | 22        | 29         | 8         |
| 20        | <b>761 066 641</b> | 10 | 0.008 | 23        | 27        | 34         | 8         |
| 25        | <b>761 066 642</b> | 10 | 0.012 | 26        | 33        | 41         | 8         |
| 32        | <b>761 066 643</b> | 10 | 0.018 | 28        | 41        | 50         | 8         |
| 40        | <b>761 066 644</b> | 10 | 0.030 | 32        | 50        | 61         | 10        |
| 50        | <b>761 066 645</b> | 10 | 0.040 | 35        | 61        | 73         | 10        |
| 63        | <b>761 066 646</b> | 2  | 0.071 | 38        | 76        | 90         | 10        |
| 75        | <b>761 066 647</b> | 2  | 0.090 | 40        | 90        | 106        | 9         |
| 90        | <b>761 066 648</b> | 2  | 0.130 | 47        | 109       | 125        | 11        |
| 110       | <b>761 066 649</b> | 2  | 0.230 | 55        | 131       | 150        | 13        |

5081

## Union nut



- suitable for flange adaptor and union

| d<br>[mm] | G<br>[inch] | Code               | SP  | kg    |
|-----------|-------------|--------------------|-----|-------|
| 16        | 1           | <b>761 066 188</b> | 130 | 0.092 |
| 20        | 1 ¼         | <b>761 066 100</b> | 140 | 0.090 |
| 25        | 1 ½         | <b>761 066 101</b> | 80  | 0.110 |
| 32        | 2           | <b>761 066 102</b> | -   | 0.144 |
| 40        | 2 ½         | <b>761 066 103</b> | -   | 0.230 |
| 50        | 2 ¾         | <b>761 066 104</b> | -   | 0.261 |
| 63        | 3 ¼         | <b>761 066 105</b> | -   | 0.328 |

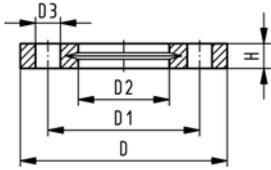
27 70 04  
27 70 05

## Backing flange PP-V For socket systems metric

### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d<br>[mm] | Inch | DN<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------|------------|----|--------------------|----|-------|-----------|------------|------------|------------|-----------|----|-----|
| 20        |      | 15         | 16 | <b>727 700 406</b> | 56 | 0.080 | 95        | 65         | 28         | 14         | 16        | 4  | M12 |
| 25        |      | 20         | 16 | <b>727 700 407</b> | 38 | 0.100 | 105       | 75         | 34         | 14         | 17        | 4  | M12 |
| 32        |      | 25         | 16 | <b>727 700 408</b> | 80 | 0.140 | 115       | 85         | 42         | 14         | 18        | 4  | M12 |
| 40        |      | 32         | 16 | <b>727 700 409</b> | 40 | 0.220 | 140       | 100        | 51         | 18         | 20        | 4  | M16 |
| 50        |      | 40         | 16 | <b>727 700 410</b> | 30 | 0.210 | 150       | 110        | 62         | 18         | 22        | 4  | M16 |
| 63        |      | 50         | 16 | <b>727 700 411</b> | 25 | 0.380 | 165       | 125        | 78         | 18         | 24        | 4  | M16 |
| 75        |      | 65         | 16 | <b>727 700 412</b> | 19 | 0.480 | 185       | 145        | 92         | 18         | 26        | 4  | M16 |
| 90        |      | 80         | 16 | <b>727 700 413</b> | 15 | 0.520 | 200       | 160        | 110        | 18         | 27        | 8  | M16 |
| 110       |      | 100        | 16 | <b>727 700 414</b> | 13 | 0.680 | 220       | 180        | 133        | 18         | 28        | 8  | M16 |

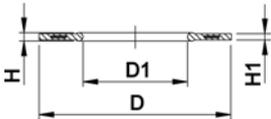
EPDM 48 44 07  
FPM 49 44 07

## Profile flange gasket metric

### Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- **EPDM**: approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

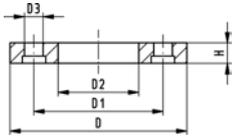
di FA are the suitable inner diameters of flange adaptors



| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] | H1<br>[mm] | di FA<br>[mm] |
|-----------|------------|----|--------------------|--------------------|-------|-----------|------------|-----------|------------|---------------|
| 20        | 15         | 16 | <b>748 440 706</b> | <b>749 440 706</b> | 0.008 | 51        | 20         | 4         | 3          | 10 - 20       |
| 25        | 20         | 16 | <b>748 440 707</b> | <b>749 440 707</b> | 0.011 | 61        | 22         | 4         | 3          | 12 - 22       |
| 32        | 25         | 16 | <b>748 440 708</b> | <b>749 440 708</b> | 0.014 | 71        | 28         | 4         | 3          | 18 - 28       |
| 40        | 32         | 16 | <b>748 440 709</b> | <b>749 440 709</b> | 0.021 | 82        | 40         | 4         | 3          | 30 - 40       |
| 50        | 40         | 16 | <b>748 440 710</b> | <b>749 440 710</b> | 0.022 | 92        | 46         | 4         | 3          | 36 - 46       |
| 63        | 50         | 16 | <b>748 440 711</b> | <b>749 440 711</b> | 0.041 | 107       | 58         | 5         | 4          | 48 - 58       |
| 75        | 65         | 16 | <b>748 440 712</b> | <b>749 440 712</b> | 0.055 | 127       | 69         | 5         | 4          | 59 - 69       |
| 90        | 80         | 16 | <b>748 440 713</b> | <b>749 440 713</b> | 0.062 | 142       | 84         | 5         | 4          | 73 - 84       |
| 110       | 100        | 16 | <b>748 440 714</b> | <b>749 440 714</b> | 0.085 | 162       | 104        | 6         | 5          | 94 - 104      |
| 125       | 100        | 16 | <b>748 440 715</b> | <b>749 440 715</b> | 0.158 | 162       | 123        | 6         | 5          | 113 - 123     |
| 160 / 180 | 150        | 16 | <b>748 440 717</b> | <b>749 440 717</b> | 0.153 | 218       | 160        | 8         | 6          | 150 - 160     |
| 225       | 200        | 16 | <b>748 440 720</b> | <b>749 440 720</b> | 0.181 | 273       | 220        | 8         | 6          | 207 - 220     |

5085

## Backing flanges PN 16 IPP



- Material: Casting, GFK coated
- suitable for flange adaptor
- Tighten the screws with torque as indicated
- Commercially available screws, nuts, washers

\* on request

| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| * 20      | <b>761 065 270</b> | 2  | 0.400 |
| * 25      | <b>761 065 271</b> | 2  | 0.500 |
| 32        | <b>761 065 272</b> | 2  | 0.500 |
| 40        | <b>761 065 273</b> | 2  | 0.600 |
| 50        | <b>761 065 274</b> | 2  | 0.800 |
| 63        | <b>761 065 275</b> | 2  | 0.900 |
| 75        | <b>761 065 276</b> | 2  | 1.200 |
| 90        | <b>761 065 277</b> | 2  | 1.200 |
| 110       | <b>761 065 278</b> | 2  | 1.500 |

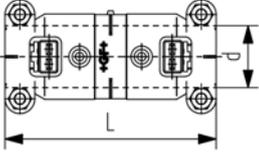
| d<br>[mm] | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC       | Tightening torque<br>[N/mm <sup>2</sup> ] |
|-----------|-----------|------------|------------|------------|-----------|----|----------|---|
| * 20      | 106       | 65         | 28         | 14         | 18        | 4  | M 12x 70 | 10  |
| * 25      | 118       | 75         | 34         | 14         | 18        | 4  | M 12x 75 | 15  |
| 32        | 122       | 85         | 42         | 14         | 17        | 4  | M 12x 75 | 15  |
| 40        | 142       | 100        | 51         | 18         | 17        | 4  | M 16x 80 | 20  |
| 50        | 156       | 110        | 62         | 18         | 19        | 4  | M 16x 85 | 25  |
| 63        | 171       | 125        | 78         | 18         | 20        | 4  | M 16x 85 | 35  |
| 75        | 191       | 145        | 92         | 18         | 21        | 4  | M 16x 90 | 40  |
| 90        | 206       | 160        | 110        | 18         | 21        | 8  | M 16x 90 | 40  |
| 110       | 226       | 180        | 133        | 18         | 22        | 8  | M 16x 95 | 50  |

# Fittings for electrofusion jointing

6200

## Electrofusion coupler

- middle stop can be broken out

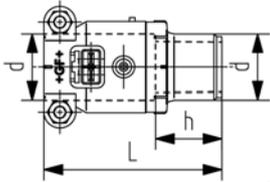


| d<br>[mm] | Code               | SP | kg    | L<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 16        | <b>761 069 200</b> | 1  | 0.023 | 76        |
| 20        | <b>761 069 201</b> | 1  | 0.027 | 80        |
| 25        | <b>761 069 202</b> | 1  | 0.041 | 85        |
| 32        | <b>761 069 203</b> | 1  | 0.053 | 85        |
| 40        | <b>761 069 204</b> | 1  | 0.084 | 95        |
| 50        | <b>761 069 205</b> | 1  | 0.121 | 99        |
| 63        | <b>761 069 206</b> | 1  | 0.184 | 102       |
| 75        | <b>761 069 265</b> | 1  | 0.310 | 134       |
| 90        | <b>761 069 266</b> | 1  | 0.474 | 147       |
| 110       | <b>761 069 267</b> | 1  | 0.716 | 160       |

6201

## Electrofusion adaptor

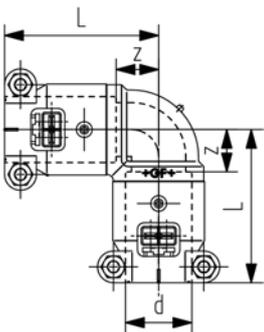
- Spigot for socket fusion



| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | h<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 16        | <b>761 069 207</b> | 1  | 0.014 | 60        | 23        |
| 20        | <b>761 069 208</b> | 1  | 0.017 | 61        | 22        |
| 25        | <b>761 069 209</b> | 1  | 0.026 | 67        | 25        |
| 32        | <b>761 069 210</b> | 1  | 0.037 | 71        | 29        |
| 40        | <b>761 069 211</b> | 1  | 0.060 | 79        | 32        |
| 50        | <b>761 069 212</b> | 1  | 0.095 | 85        | 36        |
| 63        | <b>761 069 213</b> | 1  | 0.151 | 94        | 43        |

6202

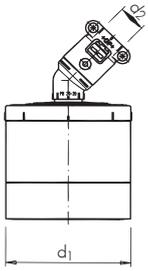
## Electrofusion elbow 90°



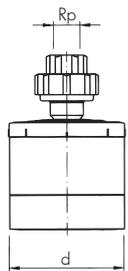
| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 16        | <b>761 069 214</b> | 1  | 0.023 | 47        | 10        |
| 20        | <b>761 069 215</b> | 1  | 0.027 | 54        | 14        |
| 25        | <b>761 069 216</b> | 1  | 0.039 | 58        | 16        |
| 32        | <b>761 069 217</b> | 1  | 0.079 | 60        | 18        |
| 40        | <b>761 069 218</b> | 1  | 0.128 | 69        | 22        |
| 50        | <b>761 069 219</b> | 1  | 0.206 | 78        | 29        |
| 63        | <b>761 069 220</b> | 1  | 0.328 | 86        | 36        |
| 75        | <b>761 069 221</b> | 1  | 0.325 | 112       | 45        |
| 90        | <b>761 069 222</b> | 1  | 0.593 | 127       | 54        |
| 110       | <b>761 069 223</b> | 1  | 0.980 | 146       | 66        |

# Special reducers

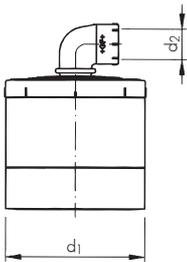
Order from



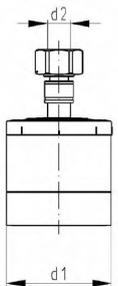
| $d_2 \backslash d_1$ | 16 | 20 | 25 | 32 | 40 | 50 |
|----------------------|----|----|----|----|----|----|
| 75                   |    |    |    |    |    |    |
| 90                   |    |    |    |    |    |    |
| 110                  |    |    |    |    |    |    |



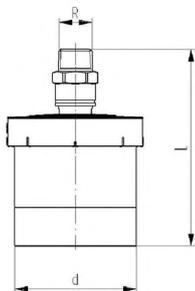
| $d \backslash R_p$ | $1/2$ | $3/4$ | 1 |
|--------------------|-------|-------|---|
| 75                 |       |       |   |
| 90                 |       |       |   |
| 110                |       |       |   |



| $d_2 \backslash d_1$ | 16 | 20 | 25 | 32 | 40 | 50 |
|----------------------|----|----|----|----|----|----|
| 75                   |    |    |    |    |    |    |
| 90                   |    |    |    |    |    |    |
| 110                  |    |    |    |    |    |    |



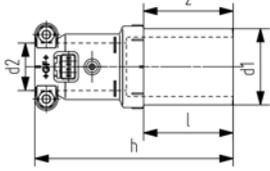
| $d_2 \backslash d_1$ | $16-1/2$ | $20-1/2$    | $20-3/4$ | $25-3/4$    | 25-1 | 32-1        |
|----------------------|----------|-------------|----------|-------------|------|-------------|
| 75                   |          | 761.069.577 |          | 761.069.578 |      | 761.069.596 |
| 90                   |          | 761.069.579 |          | 761.069.580 |      | 761.069.597 |
| 110                  |          | 761.069.581 |          | 761.069.582 |      | 761.069.598 |



| $d_2 \backslash d_1$ | $16-1/2$ | $20-1/2$    | $20-3/4$ | $25-3/4$    | 25-1 | 32-1        |
|----------------------|----------|-------------|----------|-------------|------|-------------|
| 75                   |          | 761.069.583 |          | 761.069.584 |      | 761.069.593 |
| 90                   |          | 761.069.585 |          | 761.069.586 |      | 761.069.594 |
| 110                  |          | 761.069.587 |          | 761.069.588 |      | 761.069.595 |

6207

## Electrofusion reducer

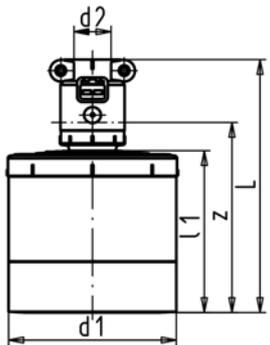


| d1<br>[mm] | d2<br>[mm] | Code        | SP | kg    | h<br>[mm] | l<br>[mm] | z<br>[mm] |
|------------|------------|-------------|----|-------|-----------|-----------|-----------|
| 20         | 16         | 761 069 277 | 1  | 0.023 | 83        | 40        | 45        |
| 25         | 16         | 761 069 278 | 1  | 0.026 | 83        | 42        | 46        |
| 25         | 20         | 761 069 279 | 1  | 0.026 | 86        | 42        | 47        |
| 32         | 16         | 761 069 457 | 1  | 0.033 | 86        | 42        | 48        |
| 32         | 20         | 761 069 280 | 1  | 0.030 | 84        | 42        | 45        |
| 32         | 25         | 761 069 281 | 1  | 0.038 | 89        | 42        | 47        |
| 40         | 20         | 761 069 458 | 1  | 0.055 | 102       | 47        | 62        |
| 40         | 25         | 761 069 459 | 1  | 0.060 | 104       | 47        | 62        |
| 40         | 32         | 761 069 282 | 1  | 0.060 | 95        | 47        | 53        |
| 50         | 20         | 761 069 460 | 1  | 0.070 | 102       | 49        | 62        |
| 50         | 25         | 761 069 461 | 1  | 0.075 | 104       | 49        | 62        |
| 50         | 32         | 761 069 462 | 1  | 0.075 | 95        | 49        | 53        |
| 50         | 40         | 761 069 283 | 1  | 0.091 | 103       | 49        | 56        |
| 63         | 20         | 761 069 463 | 1  | 0.096 | 102       | 51        | 62        |
| 63         | 25         | 761 069 464 | 1  | 0.103 | 104       | 51        | 62        |
| 63         | 32         | 761 069 284 | 1  | 0.101 | 95        | 51        | 53        |
| 63         | 40         | 761 069 465 | 1  | 0.121 | 103       | 51        | 56        |
| 63         | 50         | 761 069 285 | 1  | 0.141 | 106       | 51        | 57        |
| 75         | 63         | 761 069 286 | 1  | 0.232 | 129       | 67        | 78        |
| 90         | 63         | 761 069 287 | 1  | 0.289 | 128       | 74        | 77        |
| 90         | 75         | 761 069 288 | 1  | 0.362 | 143       | 74        | 76        |
| 110        | 63         | 761 069 289 | 1  | 0.414 | 135       | 80        | 84        |
| 110        | 75         | 761 069 290 | 1  | 0.460 | 150       | 80        | 83        |
| 110        | 90         | 761 069 291 | 1  | 0.491 | 165       | 80        | 92        |

6239

## Electrofusion special reducer with adaptor

\* on request

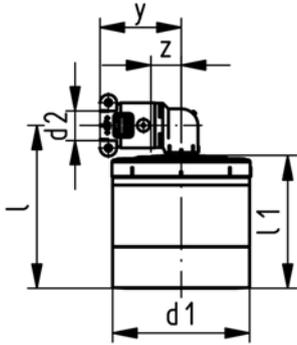


| d1<br>[mm] | d2<br>[mm] | Code        | SP | kg    | l<br>[mm] | l1<br>[mm] | z<br>[mm] |
|------------|------------|-------------|----|-------|-----------|------------|-----------|
| * 75       | 16         | 761 069 604 | 1  | 0.201 | 134       | 88         | 97        |
| * 75       | 20         | 761 069 605 | 1  | 0.204 | 134       | 88         | 95        |
| * 75       | 25         | 761 069 606 | 1  | 0.213 | 137       | 88         | 95        |
| * 75       | 32         | 761 069 607 | 1  | 0.224 | 139       | 88         | 97        |
| * 75       | 40         | 761 069 608 | 1  | 0.247 | 145       | 88         | 98        |
| * 75       | 50         | 761 069 609 | 1  | 0.282 | 148       | 88         | 99        |
| * 90       | 16         | 761 069 610 | 1  | 0.254 | 133       | 87         | 96        |
| * 90       | 20         | 761 069 611 | 1  | 0.257 | 133       | 87         | 94        |
| * 90       | 25         | 761 069 612 | 1  | 0.266 | 136       | 87         | 94        |
| * 90       | 32         | 761 069 613 | 1  | 0.277 | 138       | 87         | 96        |
| * 90       | 40         | 761 069 614 | 1  | 0.300 | 144       | 87         | 97        |
| * 90       | 50         | 761 069 615 | 1  | 0.335 | 147       | 87         | 98        |
| * 110      | 16         | 761 069 518 | 1  | 0.405 | 140       | 94         | 103       |
| * 110      | 20         | 761 069 519 | 1  | 0.405 | 140       | 94         | 101       |
| * 110      | 25         | 761 069 520 | 1  | 0.415 | 143       | 94         | 101       |
| * 110      | 32         | 761 069 521 | 1  | 0.425 | 145       | 94         | 103       |
| * 110      | 40         | 761 069 522 | 1  | 0.450 | 151       | 94         | 104       |
| * 110      | 50         | 761 069 523 | 1  | 0.480 | 154       | 94         | 105       |

6238

### Electrofusion special reducer with transition on elbow

- Further dimensions on request
- \* on request

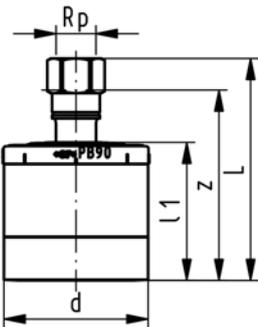


| d1<br>[mm] | d2<br>[mm] | Code               | SP | kg    | l<br>[mm] | l1<br>[mm] | y<br>[mm] | z<br>[mm] |
|------------|------------|--------------------|----|-------|-----------|------------|-----------|-----------|
| * 75       | 20         | <b>761 069 619</b> | 1  | 0.223 | 109       | 88         | 54        | 14        |
| * 75       | 25         | <b>761 069 524</b> | 1  | 0.235 | 111       | 88         | 58        | 16        |
| * 75       | 32         | <b>761 069 525</b> | 1  | 0.300 | 115       | 88         | 60        | 18        |
| * 75       | 40         | <b>761 069 526</b> | 1  | 0.300 | 121       | 88         | 96        | 22        |
| * 75       | 50         | <b>761 069 527</b> | 1  | 0.365 | 127       | 88         | 78        | 29        |
| * 90       | 20         | <b>761 069 620</b> | 1  | 0.270 | 108       | 87         | 54        | 14        |
| * 90       | 25         | <b>761 069 528</b> | 1  | 0.283 | 110       | 87         | 58        | 16        |
| * 90       | 32         | <b>761 069 529</b> | 1  | 0.300 | 114       | 87         | 60        | 18        |
| * 90       | 40         | <b>761 069 530</b> | 1  | 0.350 | 120       | 87         | 69        | 22        |
| * 90       | 50         | <b>761 069 531</b> | 1  | 0.415 | 126       | 87         | 78        | 29        |
| * 110      | 20         | <b>761 069 621</b> | 1  | 0.423 | 115       | 94         | 54        | 14        |
| * 110      | 25         | <b>761 069 532</b> | 1  | 0.435 | 117       | 94         | 58        | 16        |
| * 110      | 32         | <b>761 069 533</b> | 1  | 0.453 | 121       | 94         | 60        | 18        |
| * 110      | 40         | <b>761 069 534</b> | 1  | 0.500 | 127       | 94         | 69        | 22        |
| * 110      | 50         | <b>761 069 535</b> | 1  | 0.565 | 183       | 94         | 78        | 29        |

6219

### Special reducer with transition on female thread

- \* on request

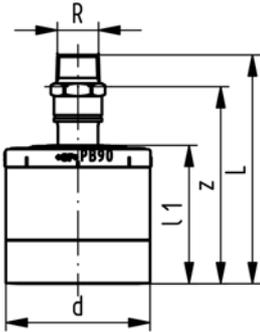


| d-d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | l<br>[mm] | l1<br>[mm] | z<br>[mm] |
|-------------|--------------|--------------------|----|-------|-----------|------------|-----------|
| * 75 - 20   | ½            | <b>761 069 577</b> | 1  | 0.284 | 144       | 88         | 129       |
| * 75 - 25   | ¾            | <b>761 069 578</b> | 1  | 0.336 | 145       | 88         | 125       |
| * 75 - 32   | 1            | <b>761 069 596</b> | 1  | 0.385 | 149       | 88         | 124       |
| * 90 - 20   | ½            | <b>761 069 579</b> | 1  | 0.344 | 143       | 87         | 128       |
| * 90 - 25   | ¾            | <b>761 069 580</b> | 1  | 0.396 | 144       | 87         | 124       |
| * 90 - 32   | 1            | <b>761 069 597</b> | 1  | 0.445 | 148       | 87         | 123       |
| * 110 - 20  | ½            | <b>761 069 581</b> | 1  | 0.484 | 152       | 94         | 137       |
| * 110 - 25  | ¾            | <b>761 069 582</b> | 1  | 0.536 | 156       | 94         | 136       |
| * 110 - 32  | 1            | <b>761 069 598</b> | 1  | 0.585 | 158       | 94         | 133       |

6229

## Special reducer with transition on male thread

\* on request



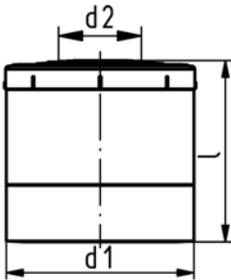
| d-d<br>[mm] | R<br>[inch] | Code               | SP | kg    | l<br>[mm] | l1<br>[mm] | z<br>[mm] |
|-------------|-------------|--------------------|----|-------|-----------|------------|-----------|
| * 75 - 20   | 1/2         | <b>761 069 583</b> | 1  | 0.280 | 146       | 88         | 131       |
| * 75 - 25   | 3/4         | <b>761 069 584</b> | 1  | 0.325 | 150       | 88         | 130       |
| * 75 - 32   | 1           | <b>761 069 593</b> | 1  | 0.385 | 152       | 88         | 127       |
| * 90 - 20   | 1/2         | <b>761 069 585</b> | 1  | 0.340 | 145       | 87         | 130       |
| * 90 - 25   | 1/2         | <b>761 069 586</b> | 1  | 0.385 | 149       | 87         | 129       |
| * 90 - 32   | 1           | <b>761 069 594</b> | 1  | 0.445 | 151       | 87         | 126       |
| * 110 - 20  | 1/2         | <b>761 069 587</b> | 1  | 0.480 | 150       | 94         | 135       |
| * 110 - 25  | 3/4         | <b>761 069 588</b> | 1  | 0.525 | 151       | 94         | 131       |
| * 110 - 32  | 1           | <b>761 069 595</b> | 1  | 0.585 | 155       | 94         | 130       |

6227

## Special reducer with hole

- Drilled hole d16 to d50

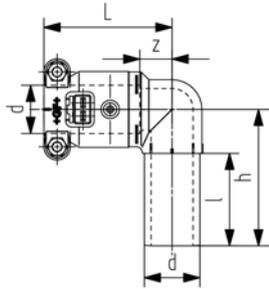
\* on request



| d1<br>[mm] | d2<br>[mm] | Code               | SP | kg    | l<br>[mm] |
|------------|------------|--------------------|----|-------|-----------|
| * 75       | 16         | <b>761 069 500</b> | 1  | 0.200 | 88        |
| * 75       | 20         | <b>761 069 501</b> | 1  | 0.200 | 88        |
| * 75       | 25         | <b>761 069 502</b> | 1  | 0.200 | 88        |
| * 75       | 32         | <b>761 069 503</b> | 1  | 0.200 | 88        |
| * 75       | 40         | <b>761 069 504</b> | 1  | 0.200 | 88        |
| * 75       | 50         | <b>761 069 505</b> | 1  | 0.200 | 88        |
| * 90       | 16         | <b>761 069 506</b> | 1  | 0.250 | 87        |
| * 90       | 20         | <b>761 069 507</b> | 1  | 0.250 | 87        |
| * 90       | 25         | <b>761 069 508</b> | 1  | 0.250 | 87        |
| * 90       | 32         | <b>761 069 509</b> | 1  | 0.250 | 87        |
| * 90       | 40         | <b>761 069 510</b> | 1  | 0.250 | 87        |
| * 90       | 50         | <b>761 069 511</b> | 1  | 0.250 | 87        |
| * 110      | 16         | <b>761 069 512</b> | 1  | 0.400 | 94        |
| * 110      | 20         | <b>761 069 513</b> | 1  | 0.400 | 94        |
| * 110      | 25         | <b>761 069 514</b> | 1  | 0.400 | 94        |
| * 110      | 32         | <b>761 069 515</b> | 1  | 0.400 | 94        |
| * 110      | 40         | <b>761 069 516</b> | 1  | 0.400 | 94        |
| * 110      | 50         | <b>761 069 517</b> | 1  | 0.400 | 94        |

6222

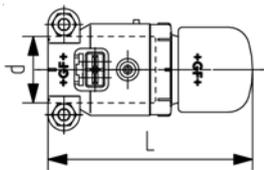
**Elbow 90° socket-spigot**



| d<br>[mm] | Code        | SP | kg    | L<br>[mm] | h<br>[mm] | l<br>[mm] | z<br>[mm] |
|-----------|-------------|----|-------|-----------|-----------|-----------|-----------|
| 16        | 761 069 434 | 1  | 0.025 | 47        | 53        | 40        | 10        |
| 20        | 761 069 435 | 1  | 0.035 | 54        | 58        | 40        | 14        |
| 25        | 761 069 436 | 1  | 0.047 | 58        | 62        | 42        | 16        |
| 32        | 761 069 437 | 1  | 0.064 | 60        | 66        | 42        | 18        |
| 40        | 761 069 438 | 1  | 0.113 | 69        | 77        | 47        | 22        |
| 50        | 761 069 439 | 1  | 0.181 | 78        | 85        | 49        | 29        |
| 63        | 761 069 440 | 1  | 0.290 | 86        | 96        | 51        | 36        |

6206

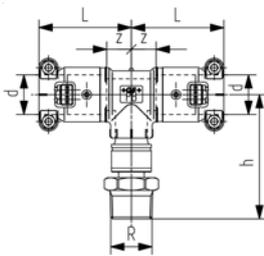
**Electrofusion cap**



| d<br>[mm] | Code        | SP | kg    | L<br>[mm] |
|-----------|-------------|----|-------|-----------|
| 16        | 761 069 270 | 1  | 0.022 | 67        |
| 20        | 761 069 271 | 1  | 0.025 | 70        |
| 25        | 761 069 272 | 1  | 0.036 | 77        |
| 32        | 761 069 273 | 1  | 0.054 | 83        |
| 40        | 761 069 274 | 1  | 0.095 | 95        |
| 50        | 761 069 275 | 1  | 0.153 | 104       |
| 63        | 761 069 276 | 1  | 0.265 | 116       |

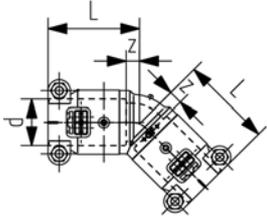
6224

**Electrofusion adaptor Tee 90° with male thread**



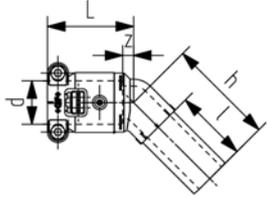
| d<br>[mm] | R<br>[inch] | Code        | SP | kg    | L<br>[mm] | h<br>[mm] | z<br>[mm] |
|-----------|-------------|-------------|----|-------|-----------|-----------|-----------|
| 25        | 3/4         | 761 069 430 | 1  | 0.176 | 58        | 78        | 15        |
| 32        | 1           | 761 069 431 | 1  | 0.225 | 60        | 86        | 17        |

6203

**Electrofusion elbow 45°**

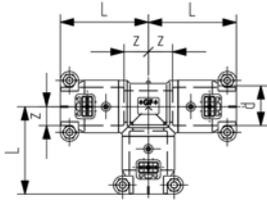
| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 16        | <b>761 069 227</b> | 1  | 0.023 | 44        | 6         |
| 20        | <b>761 069 228</b> | 1  | 0.027 | 46        | 7         |
| 25        | <b>761 069 229</b> | 1  | 0.039 | 50        | 8         |
| 32        | <b>761 069 230</b> | 1  | 0.059 | 51        | 9         |
| 40        | <b>761 069 231</b> | 1  | 0.070 | 58        | 11        |
| 50        | <b>761 069 232</b> | 1  | 0.147 | 63        | 14        |
| 63        | <b>761 069 233</b> | 1  | 0.328 | 68        | 17        |
| 75        | <b>761 069 234</b> | 1  | 0.325 | 88        | 21        |
| 90        | <b>761 069 235</b> | 1  | 0.593 | 98        | 25        |
| 110       | <b>761 069 236</b> | 1  | 0.880 | 111       | 31        |

6223

**Elbow 45° socket-spigot**

| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | h<br>[mm] | l<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 16        | <b>761 069 447</b> | 1  | 0.014 | 44        | 50        | 38        | 6         |
| 20        | <b>761 069 448</b> | 1  | 0.030 | 46        | 54        | 40        | 7         |
| 25        | <b>761 069 449</b> | 1  | 0.042 | 50        | 57        | 42        | 8         |
| 32        | <b>761 069 450</b> | 1  | 0.059 | 51        | 60        | 42        | 9         |
| 40        | <b>761 069 451</b> | 1  | 0.098 | 58        | 67        | 47        | 11        |
| 50        | <b>761 069 452</b> | 1  | 0.156 | 63        | 75        | 49        | 14        |
| 63        | <b>761 069 453</b> | 1  | 0.242 | 68        | 79        | 51        | 17        |

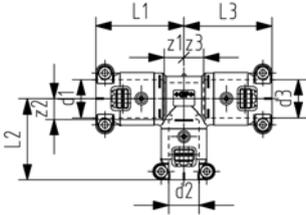
6204

**Electrofusion Tee 90° equal**

| d<br>[mm] | Code               | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 16        | <b>761 069 237</b> | 1  | 0.053 | 47        | 10        |
| 20        | <b>761 069 238</b> | 1  | 0.067 | 54        | 14        |
| 25        | <b>761 069 239</b> | 1  | 0.089 | 58        | 16        |
| 32        | <b>761 069 240</b> | 1  | 0.116 | 60        | 18        |
| 40        | <b>761 069 241</b> | 1  | 0.185 | 69        | 22        |
| 50        | <b>761 069 242</b> | 1  | 0.290 | 78        | 29        |
| 63        | <b>761 069 243</b> | 1  | 0.452 | 86        | 36        |
| 75        | <b>761 069 244</b> | 1  | 0.487 | 112       | 45        |
| 90        | <b>761 069 245</b> | 1  | 0.890 | 127       | 54        |
| 110       | <b>761 069 246</b> | 1  | 1.320 | 146       | 66        |

6205

## Electrofusion Tee 90° reducer



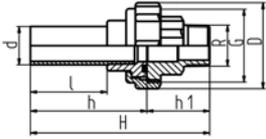
| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code               | SP | kg    | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |  |
|------------|------------|------------|--------------------|----|-------|------------|------------|------------|------------|------------|------------|--|
| 20         | 16         | 16         | <b>761 069 249</b> | 1  | 0.058 | 54         | 47         | 47         | 14         | 10         | 10         |  |
| 20         | 16         | 20         | <b>761 069 250</b> | 1  | 0.041 | 54         | 49         | 54         | 14         | 11         | 14         |  |
| 25         | 16         | 25         | <b>761 069 251</b> | 1  | 0.079 | 58         | 54         | 58         | 16         | 16         | 16         |  |
| 25         | 20         | 20         | <b>761 069 256</b> | 1  | 0.079 | 58         | 54         | 54         | 16         | 14         | 14         |  |
| 25         | 20         | 25         | <b>761 069 252</b> | 1  | 0.078 | 58         | 54         | 58         | 16         | 14         | 16         |  |
| 25         | 25         | 20         | <b>761 069 257</b> | 1  | 0.081 | 58         | 58         | 54         | 16         | 16         | 14         |  |
| 32         | 20         | 32         | <b>761 069 253</b> | 1  | 0.088 | 60         | 58         | 60         | 18         | 18         | 18         |  |
| 32         | 25         | 25         | <b>761 069 258</b> | 1  | 0.098 | 60         | 58         | 58         | 18         | 16         | 16         |  |
| 32         | 25         | 32         | <b>761 069 254</b> | 1  | 0.095 | 60         | 58         | 60         | 18         | 16         | 18         |  |
| 40         | 20         | 40         | <b>761 069 259</b> | 1  | 0.157 | 69         | 63         | 69         | 22         | 23         | 22         |  |
| 40         | 25         | 40         | <b>761 069 255</b> | 1  | 0.115 | 69         | 63         | 69         | 22         | 21         | 22         |  |
| 40         | 32         | 40         | <b>761 069 260</b> | 1  | 0.168 | 69         | 63         | 69         | 22         | 21         | 22         |  |
| 50         | 25         | 50         | <b>761 069 261</b> | 1  | 0.246 | 78         | 72         | 78         | 29         | 30         | 29         |  |
| 50         | 32         | 50         | <b>761 069 262</b> | 1  | 0.360 | 78         | 72         | 78         | 29         | 30         | 29         |  |
| 63         | 25         | 63         | <b>761 069 263</b> | 1  | 0.360 | 86         | 81         | 86         | 36         | 39         | 36         |  |
| 63         | 40         | 63         | <b>761 069 264</b> | 1  | 0.384 | 86         | 85         | 86         | 36         | 38         | 36         |  |

# Union Adaptors

6220

## Adaptor union

- Spigot for electrofusion and socket fusion - male thread
- including O-Ring, EPDM quality for potable water

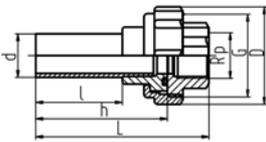


| d<br>[mm] | G<br>[inch] | Code        | SP | kg    | H<br>[mm] | h<br>[mm] | h1<br>[mm] | l<br>[mm] | G<br>[inch] | D<br>[mm] |
|-----------|-------------|-------------|----|-------|-----------|-----------|------------|-----------|-------------|-----------|
| 16        | 1/2         | 761 069 400 | 1  | 0.260 | 106       | 68        | 38         | 45        | 1           | 41        |
| 20        | 1/2         | 761 069 401 | 1  | 0.280 | 110       | 70        | 40         | 47        | 11/4        | 46        |
| 25        | 3/4         | 761 069 402 | 1  | 0.325 | 117       | 76        | 41         | 50        | 11/2        | 52        |
| 32        | 1           | 761 069 403 | 1  | 0.465 | 123       | 78        | 45         | 50        | 2           | 64        |
| 40        | 1 1/4       | 761 069 404 | 1  | 0.700 | 136       | 88        | 48         | 56        | 21/2        | 79        |
| 50        | 1 1/2       | 761 069 405 | 1  | 0.830 | 141       | 93        | 48         | 58        | 23/4        | 85        |
| 63        | 2           | 761 069 406 | 1  | 1.205 | 152       | 98        | 54         | 60        | 31/2        | 104       |

6221

## Adaptor union

- Spigot for electrofusion and socket fusion - female thread
- including O-Ring, EPDM quality for potable water

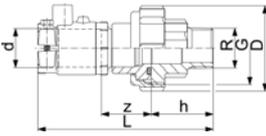


| d<br>[mm] | Rp<br>[inch] | Code        | SP | kg    | L<br>[mm] | h<br>[mm] | l<br>[mm] | z<br>[mm] | G<br>[inch] | D<br>[mm] |
|-----------|--------------|-------------|----|-------|-----------|-----------|-----------|-----------|-------------|-----------|
| 16        | 1/2          | 761 069 407 | 1  | 0.210 | 90        | 68        | 45        | 9         | 1           | 41        |
| 20        | 1/2          | 761 069 408 | 1  | 0.235 | 94        | 70        | 47        | 10        | 11/4        | 46        |
| 25        | 3/4          | 761 069 409 | 1  | 0.295 | 100       | 76        | 50        | 9         | 11/2        | 52        |
| 32        | 1            | 761 069 410 | 1  | 0.405 | 103       | 78        | 50        | 8         | 2           | 64        |
| 40        | 1 1/4        | 761 069 411 | 1  | 0.600 | 114       | 88        | 56        | 7         | 21/2        | 79        |
| 50        | 1 1/2        | 761 069 412 | 1  | 0.730 | 119       | 93        | 58        | 7         | 23/4        | 85        |
| 63        | 2            | 761 069 413 | 1  | 1.055 | 126       | 98        | 60        | 5         | 31/2        | 104       |

6225

## Adaptor union

- including O-Ring, EPDM quality for potable water

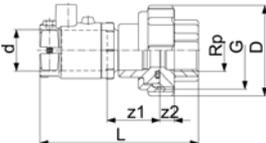


| d<br>[mm] | R<br>[inch] | Code        | SP | kg    | L<br>[mm] | h<br>[mm] | z<br>[mm] | G<br>[inch] | D<br>[mm] |
|-----------|-------------|-------------|----|-------|-----------|-----------|-----------|-------------|-----------|
| 16        | 1/2         | 761 069 475 | 1  | 0.270 | 106       | 38        | 31        | 1           | 41        |
| 20        | 1/2         | 761 069 476 | 1  | 0.284 | 109       | 40        | 30        | 11/4        | 50        |
| 25        | 3/4         | 761 069 477 | 1  | 0.332 | 116       | 41        | 33        | 11/2        | 56        |
| 32        | 1           | 761 069 478 | 1  | 0.476 | 124       | 45        | 37        | 2           | 69        |
| 40        | 1 1/4       | 761 069 479 | 1  | 0.711 | 137       | 48        | 42        | 21/2        | 83        |
| 50        | 1 1/2       | 761 069 480 | 1  | 0.840 | 143       | 48        | 46        | 23/4        | 90        |
| 63        | 2           | 761 069 481 | 1  | 1.232 | 158       | 54        | 53        | 31/2        | 110       |

6226

## Adaptor union

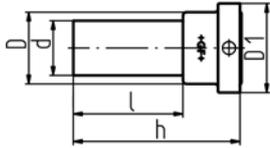
- including O-Ring, EPDM quality for potable water



| d<br>[mm] | Rp<br>[inch] | Code        | SP | kg    | L<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] | D<br>[mm] |
|-----------|--------------|-------------|----|-------|-----------|------------|------------|-------------|-----------|
| 16        | 1/2          | 761 069 482 | 1  | 0.220 | 90        | 31         | 9          | 1           | 41        |
| 20        | 1/2          | 761 069 483 | 1  | 0.244 | 93        | 30         | 10         | 11/4        | 50        |
| 25        | 3/4          | 761 069 484 | 1  | 0.302 | 99        | 33         | 9          | 11/2        | 56        |
| 32        | 1            | 761 069 485 | 1  | 0.416 | 104       | 37         | 8          | 2           | 69        |
| 40        | 1 1/4        | 761 069 486 | 1  | 0.611 | 115       | 42         | 7          | 21/2        | 83        |
| 50        | 1 1/2        | 761 069 487 | 1  | 0.740 | 121       | 46         | 7          | 23/4        | 90        |
| 63        | 2            | 761 069 488 | 1  | 1.082 | 132       | 53         | 5          | 31/2        | 110       |

# Flange connections

6209



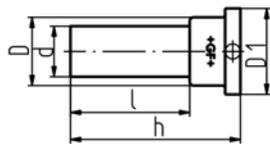
## Flange adaptor flat with groove and spigots for electrofusion

- suitable for flange or union nut
- including O-Ring, EPDM quality for potable water

\* on request

| d<br>[mm] | Code               | SP | kg    | h<br>[mm] | l<br>[mm] | D<br>[mm] | D1<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|------------|
| * 20      | <b>761 069 307</b> | 1  | 0.017 | 70        | 47        | 27        | 34         |
| * 25      | <b>761 069 308</b> | 1  | 0.023 | 76        | 50        | 33        | 41         |
| * 32      | <b>761 069 309</b> | 1  | 0.036 | 78        | 50        | 41        | 50         |
| * 40      | <b>761 069 310</b> | 1  | 0.061 | 88        | 56        | 50        | 61         |
| * 50      | <b>761 069 311</b> | 1  | 0.099 | 93        | 58        | 61        | 73         |
| * 63      | <b>761 069 312</b> | 1  | 0.155 | 98        | 60        | 76        | 90         |
| * 75      | <b>761 069 313</b> | 1  | 0.309 | 158       | 118       | 90        | 106        |
| * 90      | <b>761 069 314</b> | 1  | 0.496 | 172       | 125       | 109       | 125        |
| * 110     | <b>761 069 315</b> | 1  | 0.783 | 186       | 131       | 131       | 150        |

6210



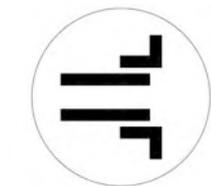
## Flange adaptor flat with spigot for electrofusion

- suitable for flange or union nut

\* on request

| d<br>[mm] | Code               | SP | kg    | h<br>[mm] | l<br>[mm] | D<br>[mm] | D1<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|------------|
| * 20      | <b>761 069 321</b> | 1  | 0.017 | 67        | 45        | 27        | 34         |
| * 25      | <b>761 069 322</b> | 1  | 0.023 | 73        | 50        | 33        | 41         |
| * 32      | <b>761 069 323</b> | 1  | 0.036 | 75        | 50        | 41        | 50         |
| * 40      | <b>761 069 324</b> | 1  | 0.060 | 83        | 56        | 50        | 61         |
| * 50      | <b>761 069 325</b> | 1  | 0.092 | 88        | 58        | 61        | 73         |
| 63        | <b>761 069 326</b> | 1  | 0.146 | 93        | 60        | 76        | 90         |
| 75        | <b>761 069 327</b> | 1  | 0.292 | 153       | 118       | 90        | 106        |
| 90        | <b>761 069 328</b> | 1  | 0.471 | 167       | 125       | 109       | 125        |
| 110       | <b>761 069 329</b> | 1  | 0.745 | 180       | 131       | 131       | 150        |

27 70 04  
27 70 05



## Backing flange PP-V For socket systems metric

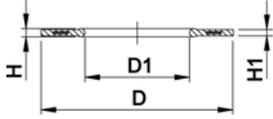
Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

| d<br>[mm] | Inch | DN<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------|------------|----|--------------------|----|-------|-----------|------------|------------|------------|-----------|----|-----|
| 20        |      | 15         | 16 | <b>727 700 406</b> | 56 | 0.080 | 95        | 65         | 28         | 14         | 16        | 4  | M12 |
| 25        |      | 20         | 16 | <b>727 700 407</b> | 38 | 0.100 | 105       | 75         | 34         | 14         | 17        | 4  | M12 |
| 32        |      | 25         | 16 | <b>727 700 408</b> | 80 | 0.140 | 115       | 85         | 42         | 14         | 18        | 4  | M12 |
| 40        |      | 32         | 16 | <b>727 700 409</b> | 40 | 0.220 | 140       | 100        | 51         | 18         | 20        | 4  | M16 |
| 50        |      | 40         | 16 | <b>727 700 410</b> | 30 | 0.210 | 150       | 110        | 62         | 18         | 22        | 4  | M16 |
| 63        |      | 50         | 16 | <b>727 700 411</b> | 25 | 0.380 | 165       | 125        | 78         | 18         | 24        | 4  | M16 |
| 75        |      | 65         | 16 | <b>727 700 412</b> | 19 | 0.480 | 185       | 145        | 92         | 18         | 26        | 4  | M16 |
| 90        |      | 80         | 16 | <b>727 700 413</b> | 15 | 0.520 | 200       | 160        | 110        | 18         | 27        | 8  | M16 |
| 110       |      | 100        | 16 | <b>727 700 414</b> | 13 | 0.680 | 220       | 180        | 133        | 18         | 28        | 8  | M16 |

EPDM 48 44 07  
FPM 49 44 07



## Profile flange gasket metric

### Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- **EPDM**: approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors

| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] | H1<br>[mm] | di FA<br>[mm] |
|-----------|------------|----|--------------------|--------------------|-------|-----------|------------|-----------|------------|---------------|
| 20        | 15         | 16 | <b>748 440 706</b> | <b>749 440 706</b> | 0.008 | 51        | 20         | 4         | 3          | 10 - 20       |
| 25        | 20         | 16 | <b>748 440 707</b> | <b>749 440 707</b> | 0.011 | 61        | 22         | 4         | 3          | 12 - 22       |
| 32        | 25         | 16 | <b>748 440 708</b> | <b>749 440 708</b> | 0.014 | 71        | 28         | 4         | 3          | 18 - 28       |
| 40        | 32         | 16 | <b>748 440 709</b> | <b>749 440 709</b> | 0.021 | 82        | 40         | 4         | 3          | 30 - 40       |
| 50        | 40         | 16 | <b>748 440 710</b> | <b>749 440 710</b> | 0.022 | 92        | 46         | 4         | 3          | 36 - 46       |
| 63        | 50         | 16 | <b>748 440 711</b> | <b>749 440 711</b> | 0.041 | 107       | 58         | 5         | 4          | 48 - 58       |
| 75        | 65         | 16 | <b>748 440 712</b> | <b>749 440 712</b> | 0.055 | 127       | 69         | 5         | 4          | 59 - 69       |
| 90        | 80         | 16 | <b>748 440 713</b> | <b>749 440 713</b> | 0.062 | 142       | 84         | 5         | 4          | 73 - 84       |
| 110       | 100        | 16 | <b>748 440 714</b> | <b>749 440 714</b> | 0.085 | 162       | 104        | 6         | 5          | 94 - 104      |

# Adaptor on thread and valves

6214

## Adaptor with male thread

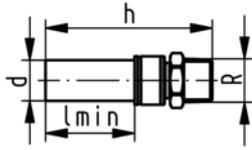


- Spigot for electrofusion and socket fusion - male thread

SF = socket fusion

ELF = electrofusion

\* on request



| d<br>[mm] | R<br>[inch] | Code               | SP | kg    | h<br>[mm] | L min. SF<br>[mm] | L min. ELF<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|-------------------|--------------------|
| 16        | ½           | <b>761 069 385</b> | 1  | 0.082 | 91        | 30                | 47                 |
| 20        | ½           | <b>761 069 386</b> | 1  | 0.093 | 93        | 30                | 49                 |
| 20        | ¾           | <b>761 069 387</b> | 1  | 0.115 | 96        | 30                | 49                 |
| 25        | ¾           | <b>761 069 388</b> | 1  | 0.134 | 103       | 33                | 55                 |
| 25        | 1           | <b>761 069 389</b> | 1  | 0.171 | 105       | 33                | 55                 |
| 32        | 1           | <b>761 069 390</b> | 1  | 0.207 | 105       | 35                | 55                 |
| 40        | 1 ¼         | <b>761 069 391</b> | 1  | 0.615 | 145       | 27                | 50                 |
| 50        | 1 ½         | <b>761 069 392</b> | 1  | 0.930 | 158       | 30                | 52                 |
| 63        | 2           | <b>761 069 393</b> | 1  | 1.387 | 173       | 33                | 54                 |

6215

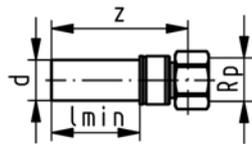
## Adaptor with female thread



- Spigot for electrofusion and socket fusion - female thread

SF = socket fusion

ELF = electrofusion



| d<br>[mm] | Rp<br>[inch] | Code               | SP | kg    | z<br>[mm] | L min. SF<br>[mm] | L min. ELF<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|-------------------|--------------------|
| 16        | ½            | <b>761 069 360</b> | 1  | 0.086 | 75        | 30                | 47                 |
| 20        | ½            | <b>761 069 361</b> | 1  | 0.099 | 77        | 30                | 49                 |
| 20        | ¾            | <b>761 069 362</b> | 1  | 0.136 | 78        | 30                | 49                 |
| 25        | ¾            | <b>761 069 363</b> | 1  | 0.145 | 83        | 33                | 55                 |
| 25        | 1            | <b>761 069 364</b> | 1  | 0.184 | 85        | 33                | 55                 |
| 32        | 1            | <b>761 069 365</b> | 1  | 0.209 | 85        | 35                | 55                 |
| 40        | 1 ¼          | <b>761 069 366</b> | 1  | 0.615 | 118       | 27                | 50                 |
| 50        | 1 ½          | <b>761 069 367</b> | 1  | 0.930 | 124       | 30                | 52                 |
| 63        | 2            | <b>761 069 368</b> | 1  | 1.387 | 133       | 33                | 55                 |

6217

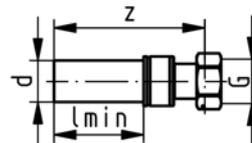
## Adaptor with loose union nut, flat seal, with centering



- Spigot for electrofusion and socket fusion - female thread
- including gasket, tesnit blue free of asbestos, according to DIN 3754

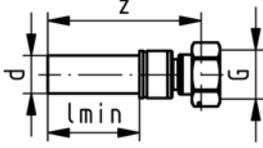
SF = socket fusion

ELF = electrofusion



| d<br>[mm] | G<br>[inch] | Code               | SP | kg    | z<br>[mm] | L min. SF<br>[mm] | L min. ELF<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|-------------------|--------------------|
| 16        | ½           | <b>761 069 380</b> | 1  | 0.086 | 83        | 30                | 47                 |
| 20        | ¾           | <b>761 069 382</b> | 1  | 0.128 | 85        | 30                | 49                 |

6216



## Adaptor with loose union nut, flat seal

- Spigot for electrofusion and socket fusion - female thread
- including flat seal EPDM

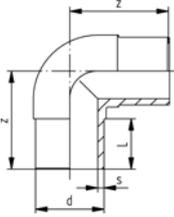
SF = socket fusion

ELF = electrofusion

| d<br>[mm] | G<br>[inch] | Code               | SP | kg    | z<br>[mm] | L min. SF<br>[mm] | L min. ELF<br>[mm] |
|-----------|-------------|--------------------|----|-------|-----------|-------------------|--------------------|
| 16        | 3/4         | <b>761 069 370</b> | 1  | 0.093 | 78        | 30                | 47                 |
| 20        | 3/4         | <b>761 069 369</b> | 1  | 0.126 | 88        | 30                | 49                 |
| 20        | 1           | <b>761 069 371</b> | 1  | 0.154 | 82        | 30                | 49                 |
| 25        | 3/4         | <b>761 069 372</b> | 1  | 0.146 | 95        | 33                | 55                 |
| 25        | 1           | <b>761 069 373</b> | 1  | 0.230 | 99        | 33                | 55                 |
| 25        | 1 1/4       | <b>761 069 374</b> | 1  | 0.231 | 89        | 33                | 55                 |
| 32        | 1           | <b>761 069 375</b> | 1  | 0.210 | 99        | 35                | 55                 |
| 32        | 1 1/4       | <b>761 069 377</b> | 1  | 0.292 | 100       | 35                | 55                 |
| 32        | 1 1/2       | <b>761 069 376</b> | 1  | 0.292 | 89        | 35                | 55                 |
| 40        | 1 1/4       | <b>761 069 378</b> | 1  | 0.510 | 138       | 27                | 50                 |
| 40        | 1 1/2       | <b>761 069 379</b> | 1  | 0.598 | 138       | 27                | 50                 |
| 40        | 2           | <b>761 069 381</b> | 1  | 0.824 | 140       | 27                | 50                 |
| 50        | 1 3/4       | <b>761 069 384</b> | 1  | 0.898 | 147       | 30                | 53                 |
| 50        | 2 1/4       | <b>761 069 383</b> | 1  | 0.820 | 126       | 30                | 53                 |
| 63        | 2 3/8       | <b>761 069 394</b> | 1  | 1.421 | 158       | 33                | 53                 |
| 63        | 2 3/4       | <b>761 069 395</b> | 1  | 0.854 | 135       | 33                | 54                 |

# Fittings for electrofusion and butt fusion

5202

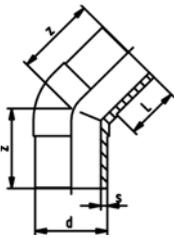


## Elbow 90°

• PN 10

| d<br>[mm] | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 125       | <b>761 065 258</b> | 1  | 1.600 | 182       | 93        |
| 160       | <b>761 065 259</b> | 1  | 3.150 | 213       | 104       |
| 225       | <b>761 065 260</b> | 1  | 6.500 | 270       | 122       |

5203

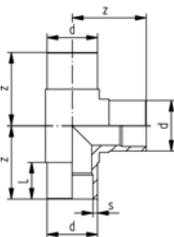


## Elbow 45°

• PN 10

| d<br>[mm] | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|
| 125       | <b>761 065 261</b> | 1  | 1.600 | 140       | 92        |
| 160       | <b>761 065 262</b> | 1  | 2.500 | 162       | 102       |
| 225       | <b>761 065 263</b> | 1  | 5.500 | 200       | 122       |

5201

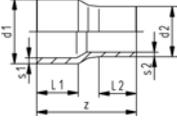


## Tee 90° equal

• PN 10

| d<br>[mm] | Code               | SP | kg     | z<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|--------|-----------|-----------|
| 125       | <b>761 065 255</b> | 1  | 2.440  | 183       | 93        |
| 160       | <b>761 065 256</b> | 1  | 4.400  | 210       | 102       |
| 225       | <b>761 065 257</b> | 1  | 11.500 | 270       | 122       |

5205

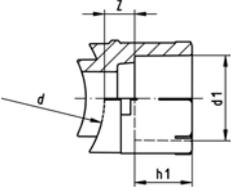


**Reducer**

• PN 10

| d1<br>[mm] | d2<br>[mm] | Code               | SP | kg    | z<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|------------|------------|--------------------|----|-------|-----------|------------|------------|
| 125        | 110        | <b>761 065 267</b> | 1  | 0.750 | 215       | 92         | 85         |
| 160        | 125        | <b>761 065 268</b> | 1  | 1.300 | 245       | 102        | 92         |
| 225        | 160        | <b>761 065 269</b> | 1  | 2.800 | 280       | 122        | 102        |

5054



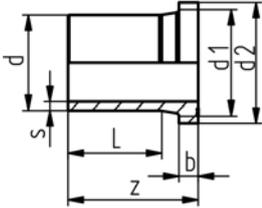
**Weld-in-Saddle**

| d - d1<br>[mm] | Code               | SP | kg    | h1<br>[mm] | z<br>[mm] |
|----------------|--------------------|----|-------|------------|-----------|
| 125 - 32       | <b>761 068 018</b> | 5  | 0.035 | 20         | 16        |
| 125 - 40       | <b>761 068 019</b> | 5  | 0.056 | 22         | 16        |
| 125 - 50       | <b>761 068 020</b> | 5  | 0.072 | 25         | 16        |
| 160 - 32       | <b>761 068 021</b> | 5  | 0.045 | 20         | 16        |
| 160 - 40       | <b>761 068 022</b> | 5  | 0.061 | 22         | 16        |
| 160 - 50       | <b>761 068 023</b> | 5  | 0.077 | 25         | 16        |
| 225 - 32       | <b>761 068 024</b> | 5  | 0.076 | 20         | 16        |
| 225 - 40       | <b>761 068 025</b> | 5  | 0.076 | 22         | 16        |
| 225 - 50       | <b>761 068 026</b> | 5  | 0.092 | 25         | 16        |

# Flange connections for butt fusion

## Flange adaptor flat

5204



| d [mm] | Code               | SP | kg    | z [mm] | d1 [mm] | d2 [mm] | L [mm] | b [mm] |
|--------|--------------------|----|-------|--------|---------|---------|--------|--------|
| 125    | <b>761 065 264</b> | 1  | 0.900 | 170    | 132     | 160     | 123    | 25     |
| 160    | <b>761 065 265</b> | 1  | 1.800 | 200    | 176     | 216     | 147    | 25     |
| 225    | <b>761 065 266</b> | 1  | 2.200 | 200    | 235     | 268     | 122    | 32     |

27 70 04

27 70 05

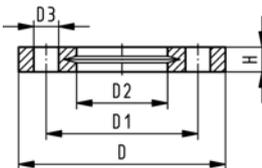
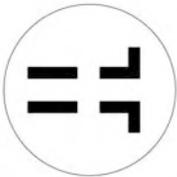
## Backing flange PP-V

### For butt fusion systems metric

#### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d [mm] | Inch | DN [mm] | PN | Code               | SP | kg    | D [mm] | D1 [mm] | D2 [mm] | D3 [mm] | H [mm] | AL | SC  |
|--------|------|---------|----|--------------------|----|-------|--------|---------|---------|---------|--------|----|-----|
| 125    |      | 100     | 16 | <b>727 700 515</b> | 13 | 0.760 | 220    | 180     | 135     | 18      | 28     | 8  | M16 |
| 160    | 6    | 150     | 16 | <b>727 700 517</b> | -  | 1.200 | 285    | 241     | 178     | 22      | 32     | 8  | M20 |
| 225    | 9    | 200     | 16 | <b>727 700 520</b> | -  | 1.400 | 340    | 295     | 238     | 22      | 34     | 8  | M20 |

EPDM 48 44 07

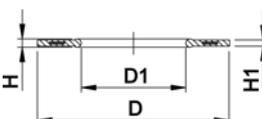
FPM 49 44 07

## Profile flange gasket metric

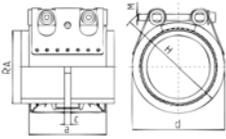
#### Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- **EPDM**: approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors



| d [mm]    | DN [mm] | PN | EPDM Code          | FPM Code           | kg    | D [mm] | D1 [mm] | H [mm] | H1 [mm] | di FA [mm] |
|-----------|---------|----|--------------------|--------------------|-------|--------|---------|--------|---------|------------|
| 125       | 100     | 16 | <b>748 440 715</b> | <b>749 440 715</b> | 0.158 | 162    | 123     | 6      | 5       | 113 - 123  |
| 160 / 180 | 150     | 16 | <b>748 440 717</b> | <b>749 440 717</b> | 0.153 | 218    | 160     | 8      | 6       | 150 - 160  |
| 225       | 200     | 16 | <b>748 440 720</b> | <b>749 440 720</b> | 0.181 | 273    | 220     | 8      | 6       | 207 - 220  |

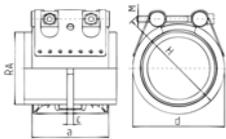


## Plast Grip E d125-160 d40 up to d160

### Model:

- All metal parts W5 quality: housing AISI 316 Ti, bolts AISI 316 L, lock bars AISI 316, anchoring ring for plastic pipes PA-GF brass, steel band insert AISI 316 Ti
- Gaskets NBR or EPDM
- Temperature range: with EPDM gasket  $\varnothing < 170$  mm  $-30^{\circ}\text{C} - 125^{\circ}\text{C}$  and  $\varnothing > 180$  mm  $-20^{\circ}\text{C} - 80^{\circ}\text{C}$ ; with NBR gasket  $-20^{\circ}\text{C} - 80^{\circ}\text{C}$
- EPDM for: water, Aqueous acids, alkaline solutions, alcohols, compressed air
- NBR for: water, sea water, mineral oils, lubricants, fuels, gas, compressed air
- Nominal pressure (PN) is meant for ship building purposes; Operating pressure P max is meant for industrial purposes
- For all plastic pipes, the use of an insert stiffener (see accessories) is advised or in some cases mandatory, check our technical handbook.
- Other dimensions available on request

| d<br>[mm] | Range<br>[mm] | PN<br>[bar] | EPDM W5<br>Code    | SP | kg    | a<br>[mm] | C<br>max.<br>[mm] | d<br>[mm] | H<br>[mm] |
|-----------|---------------|-------------|--------------------|----|-------|-----------|-------------------|-----------|-----------|
| 125.0     | 124.0 - 126.0 | 16.0        | <b>779 532 037</b> | -  | 3.000 | 115       | 35                | 150       | 170       |
| 160.0     | 159.0 - 162.0 | 16.0        | <b>779 532 046</b> | -  | 3.500 | 115       | 35                | 180       | 200       |



## Plast Grip d160 up to d400

### Model:

- All metal parts W2 quality: housing AISI 304, bolts AISI 4140H, lock bars AISI 12 L 14, anchoring rings for metal or plastic pipes PA-GF brass, steel band insert AISI 316 Ti
- All metal parts W5 quality: housing AISI 316 Ti, bolts AISI 316 L, lock bars AISI 316, anchoring ring for plastic pipes PA-GF brass, steel band insert AISI 316 Ti
- Gaskets NBR or EPDM
- Temperature range: with EPDM gasket  $\varnothing < 170$  mm  $-30^{\circ}\text{C} - 125^{\circ}\text{C}$  and  $\varnothing > 180$  mm  $-20^{\circ}\text{C} - 80^{\circ}\text{C}$ ; with NBR gasket  $-20^{\circ}\text{C} - 80^{\circ}\text{C}$
- EPDM for: water, Aqueous acids, alkaline solutions, alcohols, compressed air
- NBR for: water, sea water, mineral oils, lubricants, fuels, gas, compressed air
- Nominal pressure (PN) is meant for ship building purposes; Operating pressure P max is meant for industrial purposes
- Other dimensions available on request

| d<br>[mm] | Range<br>[mm] | PN<br>[bar] | Operating<br>pressure<br>P max.<br>[bar] | EPDM W5<br>Code    | SP | kg    | a<br>[mm] | C<br>max.<br>[mm] | d<br>[mm] | H<br>[mm] |
|-----------|---------------|-------------|--|--------------------|----|-------|-----------|-------------------|-----------|-----------|
| 225.0     | 222.0 - 227.0 | 10.0        | 16.0                                     | <b>779 512 065</b> | -  | 7.200 | 142       | 35                | 255       | 285       |



## Insert stiffener with wedge

### Model:

- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- Other dimensions available on request

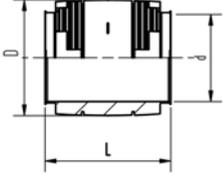
| d<br>[mm] | SDR  | L<br>[mm] | Code               | SP | kg    |
|-----------|------|-----------|--------------------|----|-------|
| 225       | 11.0 | 225       | <b>709 026 106</b> | -  | 1.520 |

# Fittings for electrofusion jointing

## Electrofusion coupler

6240

• PN 16

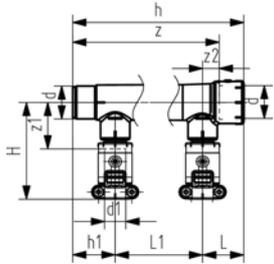


| d<br>[mm] | Code               | SP | kg    | L<br>[mm] |  |
|-----------|--------------------|----|-------|-----------|--|
| 125       | <b>761 069 555</b> | 1  | 1.500 | 186       |  |
| 160       | <b>761 069 556</b> | 1  | 1.700 | 190       |  |
| 225       | <b>761 069 557</b> | 1  | 4.300 | 220       |  |

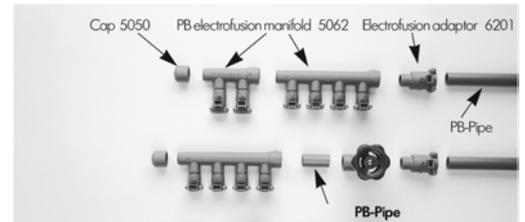
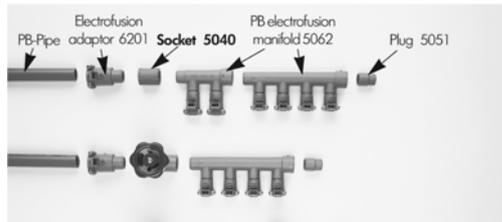
# Manifold and Accessories Manifold in Polybutylene d 25 (DN 20)

## ELS Manifold PB

5062



| d [mm] | d1 [mm] |        | Code               | SP | kg    | L [mm] | L1 [mm] | h [mm] | h1 [mm] | H [mm] | z [mm] | z1 [mm] | z2 [mm] |
|--------|---------|--------|--------------------|----|-------|--------|---------|--------|---------|--------|--------|---------|---------|
| 25     | 16      | single | <b>761 066 250</b> | 1  | 0.031 | 31     | 0       | 63     | 32      | 60     | 45     | 36      | 13      |
| 25     | 20      | single | <b>761 066 251</b> | 1  | 0.041 | 39     | 0       | 78     | 39      | 64     | 60     | 35      | 21      |
| 25     | 16      | double | <b>761 066 252</b> | 1  | 0.062 | 31     | 45      | 108    | 32      | 60     | 90     | 36      | 13      |
| 25     | 16      | triple | <b>761 066 253</b> | 1  | 0.092 | 31     | 45      | 153    | 32      | 60     | 135    | 36      | 13      |
| 25     | 16      | 4 fold | <b>761 066 254</b> | 1  | 0.121 | 31     | 45      | 198    | 32      | 60     | 180    | 36      | 13      |

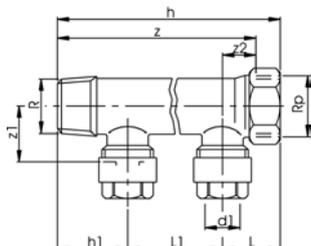


# Manifolds in nonferrous metal

3270

## Manifold 90°, 3/4" (DN 20)

- Metal with compression connections

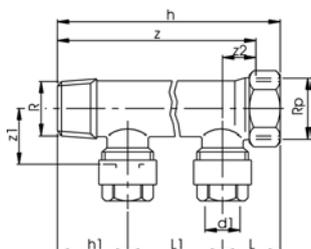


| d<br>[mm] | Rp<br>[inch] | R<br>[inch] |        | Code               | SP | kg    | h<br>[mm] | h1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|-------------|--------|--------------------|----|-------|-----------|------------|-----------|------------|-----------|------------|------------|
| 16        | 3/4          | 3/4         | 1-fold | <b>760 853 189</b> | 5  | 0.207 | 59        | 31         | 28        | 0          | 45        | 24         | 14         |
| 20        | 3/4          | 3/4         | 1-fold | <b>760 853 190</b> | 5  | 0.264 | 69        | 36         | 33        | 0          | 55        | 26         | 19         |
| 16        | 3/4          | 3/4         | 2-fold | <b>760 853 180</b> | 5  | 0.383 | 104       | 31         | 28        | 45         | 90        | 24         | 14         |
| 16        | 3/4          | 3/4         | 3-fold | <b>760 853 181</b> | 5  | 0.560 | 149       | 31         | 28        | 45         | 135       | 24         | 14         |
| 16        | 3/4          | 3/4         | 4-fold | <b>760 853 182</b> | 5  | 0.470 | 194       | 31         | 28        | 45         | 180       | 24         | 14         |

3250

## Manifold 90°, 1" (DN 25)

- Metal with compression connections

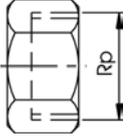


| d<br>[mm] | Rp<br>[inch] | R<br>[inch] |        | Code               | SP | kg    | h<br>[mm] | h1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|-------------|--------|--------------------|----|-------|-----------|------------|-----------|------------|-----------|------------|------------|
| 16        | 1            | 1           | 1-fold | <b>760 854 860</b> | 5  | 0.210 | 62        | 34         | 28        | 0          | 45        | 29         | 11         |
| 20        | 1            | 1           | 1-fold | <b>760 854 855</b> | 5  | 0.260 | 75        | 42         | 33        | 0          | 58        | 29         | 16         |
| 16        | 1            | 1           | 2-fold | <b>760 854 861</b> | 1  | 0.460 | 107       | 34         | 28        | 45         | 90        | 29         | 11         |
| 20        | 1            | 1           | 2-fold | <b>760 854 892</b> | 5  | 0.640 | 135       | 42         | 33        | 60         | 118       | 29         | 16         |
| 16        | 1            | 1           | 3-fold | <b>760 854 862</b> | 1  | 0.670 | 152       | 34         | 28        | 45         | 135       | 29         | 11         |
| 16        | 1            | 1           | 4 fold | <b>760 854 863</b> | 1  | 0.860 | 197       | 34         | 28        | 45         | 180       | 29         | 11         |

# Accessories

3266

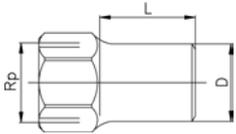
## Cap



| Rp<br>[inch] | Code               | SP | kg    |  |
|--------------|--------------------|----|-------|--|
| 3/4          | <b>760 853 794</b> | 5  | 0.084 |  |
| 1            | <b>760 853 706</b> | 5  | 0.134 |  |

3268

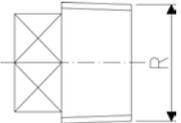
## Cap long



| Rp<br>[inch] | Code               | SP | kg    | L<br>[mm] | D<br>[mm] |
|--------------|--------------------|----|-------|-----------|-----------|
| 3/4          | <b>760 853 596</b> | 5  | 0.162 | 34        | 27        |
| 1            | <b>760 853 527</b> | 5  | 0.209 | 34        | 32        |

3267

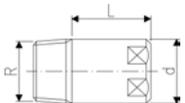
## Plug



| R<br>[inch] | Code               | SP | kg    |  |
|-------------|--------------------|----|-------|--|
| 3/4         | <b>760 853 792</b> | 5  | 0.050 |  |
| 1           | <b>760 853 793</b> | 5  | 0.084 |  |

3264

## Plug long



| R<br>[inch] | Code               | SP | kg    | D<br>[mm] | L<br>[mm] |
|-------------|--------------------|----|-------|-----------|-----------|
| 3/4         | <b>760 869 989</b> | 5  | 0.150 | 27        | 52        |
| 1           | <b>760 869 990</b> | 5  | 0.200 | 33        | 54        |

# Valves in Polybutylene (do not use as drain valve)

5070



## Valve PB

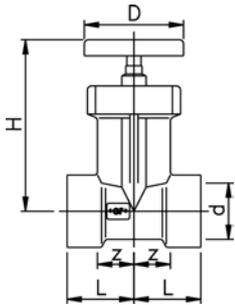
### Range of use:

- for socket fusion
- Gasket: EPDM quality for potable water

### Attention:

- do not use as drain valve
- do not use for compressed air

Handwheel anthracite with green/red changeover disk



| d<br>[mm] | Code        | SP | kg    | H<br>[mm] | L<br>[mm] | z<br>[mm] | D<br>[mm] |
|-----------|-------------|----|-------|-----------|-----------|-----------|-----------|
| 20        | 761 066 284 | 1  | 0.270 | 86        | 40        | 25        | 70        |
| 25        | 761 066 958 | 1  | 0.340 | 86        | 40        | 22        | 70        |
| 32        | 761 066 959 | 1  | 0.350 | 91        | 43        | 23        | 70        |
| 40        | 761 066 289 | 4  | 1.000 | 155       | 55        | 33        | 90        |
| 50        | 761 066 290 | 4  | 1.050 | 155       | 60        | 35        | 90        |
| 63        | 761 066 291 | 3  | 1.235 | 155       | 75        | 47        | 90        |

5073



## Valve PB with spigot G 1/4" for drain

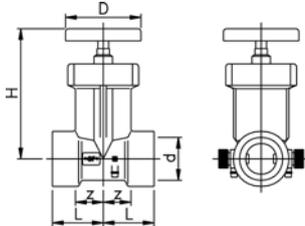
### Range of use:

- for socket fusion
- Gasket: EPDM quality for potable water

### Attention:

- do not use as drain valve
- do not use for compressed air
- **Drain valve must be ordered separately**

Handwheel anthracite with green/red changeover disk



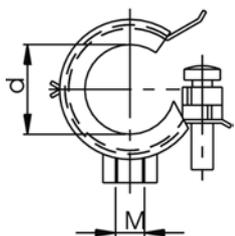
| d<br>[mm] | Code        | SP | kg    | H<br>[mm] | L<br>[mm] | z<br>[mm] | D<br>[mm] |
|-----------|-------------|----|-------|-----------|-----------|-----------|-----------|
| 20        | 761 066 272 | 1  | 0.395 | 86        | 40        | 25        | 70        |
| 25        | 761 066 273 | 1  | 0.388 | 86        | 40        | 22        | 70        |
| 32        | 761 066 274 | 1  | 0.402 | 91        | 43        | 23        | 70        |
| 40        | 761 066 275 | 4  | 1.020 | 155       | 55        | 33        | 90        |
| 50        | 761 066 276 | 4  | 1.070 | 155       | 60        | 35        | 90        |
| 63        | 761 066 277 | 3  | 1.260 | 155       | 75        | 47        | 90        |

3286



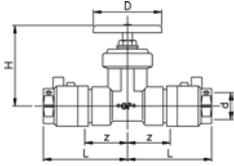
## Mounting bracket M8 with rubber

- for service cabinet



| manifold | Code        | SP | kg    | M<br>[mm] |
|----------|-------------|----|-------|-----------|
| 3/4      | 760 856 212 | 10 | 0.029 | 8         |

6211



## Valve PB

### Range of use:

- for electrofusion
- Gasket: EPDM quality for potable water

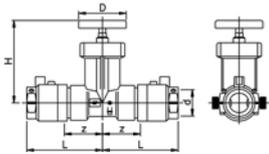
### Attention:

- do not use as drain valve
- do not use for compressed air

Handwheel anthracite with green/red changeover disk

| d<br>[mm] | Code               | SP | kg    | H<br>[mm] | L<br>[mm] | z<br>[mm] | D<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 20 (15)   | <b>761 069 330</b> | 1  | 0.396 | 86        | 86        | 47        | 70        |
| 25 (20)   | <b>761 069 331</b> | 1  | 0.410 | 86        | 89        | 47        | 70        |
| 32 (25)   | <b>761 069 332</b> | 1  | 0.440 | 91        | 94        | 52        | 70        |
| 40 (32)   | <b>761 069 333</b> | 2  | 1.140 | 155       | 112       | 65        | 90        |
| 50 (40)   | <b>761 069 334</b> | 2  | 1.270 | 155       | 120       | 71        | 90        |
| 63 (50)   | <b>761 069 335</b> | 1  | 1.599 | 155       | 141       | 90        | 90        |

6208



## Valve PB with spigot G1/4" for drain

### Range of use:

- for electrofusion
- Gasket: EPDM quality for potable water

### Attention:

- do not use as drain valve
- do not use for compressed air
- **Drain valve must be ordered separately**

Handwheel anthracite with green/red changeover disk

| d<br>[mm] | Code               | SP | kg    | H<br>[mm] | L<br>[mm] | z<br>[mm] | D<br>[mm] |
|-----------|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 20 (15)   | <b>761 069 294</b> | 1  | 0.445 | 86        | 86        | 47        | 70        |
| 25 (20)   | <b>761 069 295</b> | 1  | 0.452 | 86        | 89        | 47        | 70        |
| 32 (25)   | <b>761 069 296</b> | 1  | 0.494 | 91        | 94        | 52        | 70        |
| 40 (32)   | <b>761 069 297</b> | 2  | 1.160 | 155       | 112       | 65        | 90        |
| 50 (40)   | <b>761 069 298</b> | 2  | 1.290 | 155       | 120       | 71        | 90        |
| 63 (50)   | <b>761 069 299</b> | 1  | 1.624 | 155       | 141       | 90        | 90        |

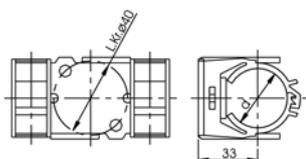
5074



## Drain valve and plug

| G<br>[inch] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| ¼           | <b>761 066 328</b> | 1  | 0.059 |

5096



## Valve bracket for valve PB without drain

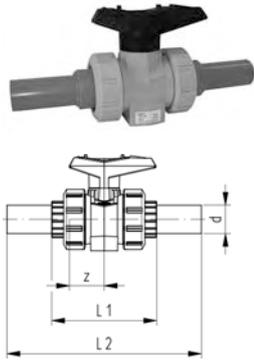
- for GIS or wall mounting

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 20 - 25     | <b>761 066 325</b> | 1  | 0.190 |

## Ball valves

5083

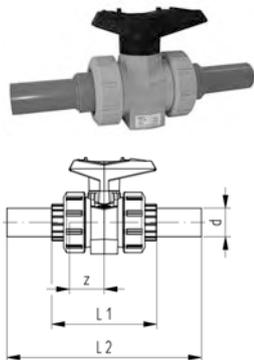
### Ball valve type 546 PVC-C / PB-Spigots



| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | SP | kg    | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-------|------------|------------|-----------|
| * 20      | 15         | 10 | <b>761 066 343</b> | 1  | 0.178 | 95         | 190        | 33        |
| * 25      | 20         | 10 | <b>761 066 344</b> | 1  | 0.267 | 108        | 208        | 38        |
| * 32      | 25         | 10 | <b>761 066 345</b> | 1  | 0.403 | 118        | 218        | 39        |
| * 40      | 32         | 10 | <b>761 066 346</b> | 1  | 0.724 | 137        | 250        | 47        |
| * 50      | 40         | 10 | <b>761 066 347</b> | 1  | 0.988 | 147        | 263        | 49        |
| * 63      | 50         | 10 | <b>761 066 348</b> | 1  | 1.828 | 168        | 288        | 46        |

5089

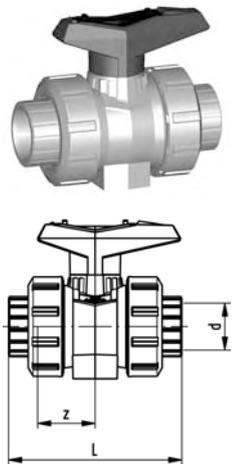
### Ball valve type 546 PP / PB-Spigots



| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | SP | kg    | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-------|------------|------------|-----------|
| * 20      | 15         | 10 | <b>760 000 343</b> | 1  | 0.133 | 95         | 190        | 33        |
| * 25      | 20         | 10 | <b>760 000 344</b> | 1  | 0.202 | 108        | 208        | 38        |
| * 32      | 25         | 10 | <b>760 000 345</b> | 1  | 0.293 | 118        | 218        | 39        |
| * 40      | 32         | 10 | <b>760 000 346</b> | 1  | 0.504 | 137        | 250        | 47        |
| * 50      | 40         | 10 | <b>760 000 347</b> | 1  | 0.718 | 147        | 263        | 49        |
| * 63      | 50         | 10 | <b>760 000 348</b> | 1  | 1.323 | 168        | 288        | 46        |

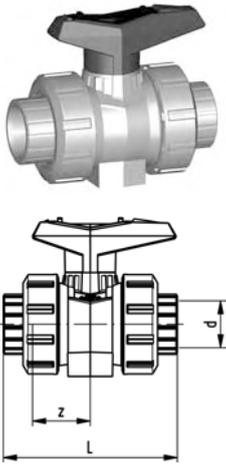
5082

### Ball valve type 546 PVC-C / PB-Flange Adaptor (Socket Fusion)



| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 20        | 15         | 16 | <b>761 066 337</b> | 1  | 0.160 | 95        | 33        |
| 25        | 20         | 16 | <b>761 066 338</b> | 1  | 0.245 | 108       | 38        |
| 32        | 25         | 16 | <b>761 066 339</b> | 1  | 0.365 | 118       | 39        |
| 40        | 32         | 16 | <b>761 066 340</b> | 1  | 0.660 | 137       | 47        |
| 50        | 40         | 16 | <b>761 066 341</b> | 1  | 0.890 | 147       | 49        |
| 63        | 50         | 16 | <b>761 066 342</b> | 1  | 1.650 | 168       | 46        |

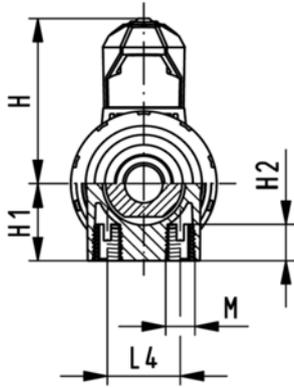
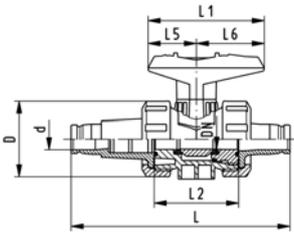
5088

**Ball valve type 546 PP / PB-flange adaptor**

| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code       | SP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 20        | 15         | 16 | <b>760 000 337</b> | 1  | 0.115 | 95        | 33        |
| 25        | 20         | 16 | <b>760 000 338</b> | 1  | 0.180 | 108       | 38        |
| 32        | 25         | 16 | <b>760 000 339</b> | 1  | 0.255 | 118       | 39        |
| 40        | 32         | 16 | <b>760 000 340</b> | 1  | 0.440 | 137       | 47        |
| 50        | 40         | 16 | <b>760 000 341</b> | 1  | 0.610 | 147       | 49        |
| 63        | 50         | 16 | <b>760 000 342</b> | 1  | 1.145 | 168       | 46        |

# Ship Cabin Valve

## PROGEF Standard Shipbuilding ball valve type 547 With iFIT connection



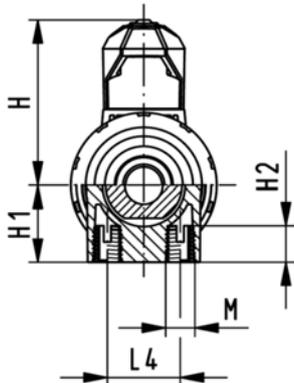
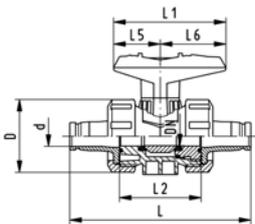
### Model:

- Material: PP-H
- iFIT connection for d16/20
- iFIT connector with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | SP | GP | kg    | kg/m  |
|-----------|------------|----|--|--------------|----|----|-------|-------|
| 16        | 15         | 10 | 40   | 167 547 012  | 2  | 12 | 0.072 | 0.072 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 146       | 77         | 56         | 25         | 32         | 45         | 6         |

## PROGEF Standard Shipbuilding ball valve type 547 With iFIT connection



### Model:

- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | SP | GP | kg    | kg/m  |
|-----------|------------|----|--|--------------|----|----|-------|-------|
| 16        | 15         | 10 | 185  | 167 547 812  | 1  | 2  | 0.152 | 0.152 |

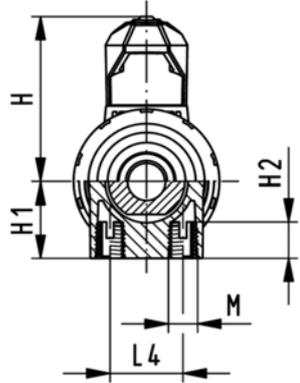
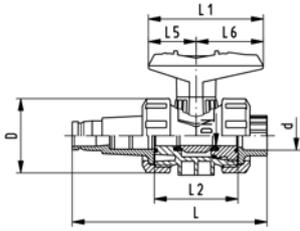
| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 126       | 77         | 56         | 25         | 32         | 45         | 6         |



## PROGEF Standard Shipbuilding ball valve type 547 With iFIT connection and fusion socket PB

### Model:

- Material: PP-H
- iFIT connection for d16/20
- iFIT connection with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | SP | GP | kg    | kg/m  |
|-----------|------------|----|--|--------------------|----|----|-------|-------|
| 16        | 10         | 10 | 40   | <b>167 547 041</b> | 1  | 2  | 0.244 | 0.244 |
| 20        | 15         | 10 | 40   | <b>167 547 042</b> | 1  | 2  | 0.242 | 0.242 |

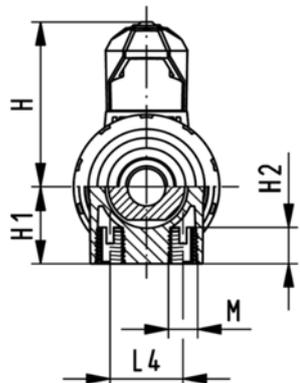
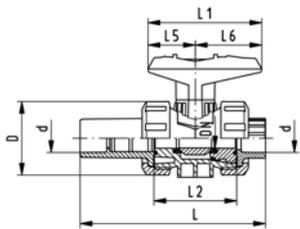
| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 130       | 77         | 56         | 25         | 32         | 45         | 6         |
| 20        | 50        | 57        | 27         | 12         | 131       | 77         | 56         | 25         | 32         | 45         | 6         |



## PROGEF Standard Shipbuilding ball valve type 547 With fusion sockets PB

### Model:

- Material: PP-H
- Fusion socket with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | SP | GP | kg    | kg/m  |
|-----------|------------|----|--|--------------------|----|----|-------|-------|
| 16        | 10         | 10 | 40   | <b>167 547 341</b> | 1  | 2  | 0.302 | 0.302 |
| 20        | 15         | 10 | 40   | <b>167 547 342</b> | 1  | 2  | 0.300 | 0.300 |

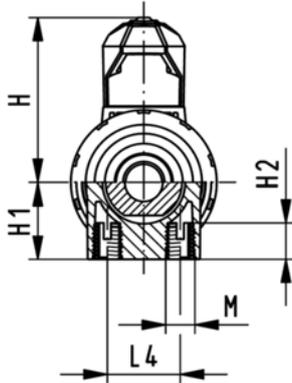
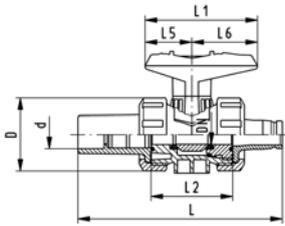
| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 125       | 77         | 56         | 25         | 32         | 45         | 6         |
| 20        | 50        | 57        | 27         | 12         | 126       | 77         | 56         | 25         | 32         | 45         | 6         |



## PROGEF Standard Shipbuilding ball valve type 547 With fusion socket PB and iFIT connection

### Model:

- Material: PP-H
- iFIT connection for d16/20
- Fusion socket PB with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | SP | GP | kg    | kg/m  |
|-----------|------------|----|--|--------------|----|----|-------|-------|
| 16        | 10         | 10 | 40   | 167 547 311  | 1  | 2  | 0.303 | 0.303 |
| 20        | 15         | 10 | 40   | 167 547 312  | 1  | 2  | 0.303 | 0.303 |

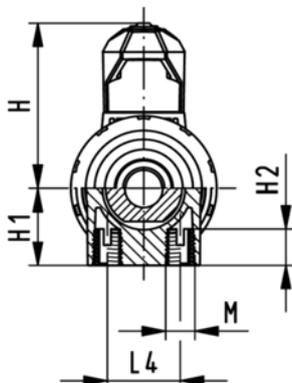
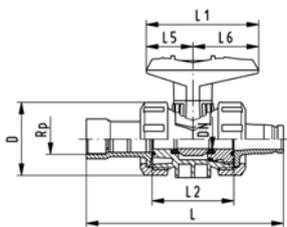
| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 141       | 77         | 56         | 25         | 32         | 45         | 6         |
| 20        | 50        | 57        | 27         | 12         | 141       | 77         | 56         | 25         | 32         | 45         | 6         |



## PROGEF Standard Shipbuilding ball valve type 547 With threaded socket Rp brass and iFIT connection

### Model:

- Material: PP-H
- iFIT connection for d16/20
- Threaded socket Rp brass with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts



| Rp<br>[inch] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | SP | GP | kg    | kg/m  |
|--------------|------------|----|--|--------------|----|----|-------|-------|
| 1/2          | 15         | 10 | 40   | 167 547 512  | 1  | 2  | 0.327 | 0.327 |

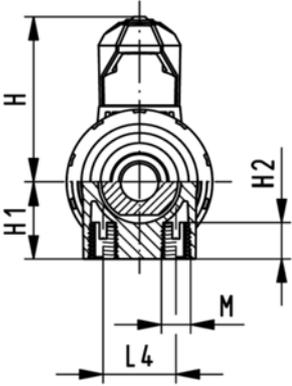
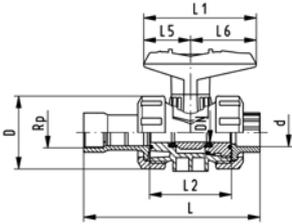
| Rp<br>[inch] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|--------------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 1/2          | 50        | 57        | 27         | 12         | 136       | 77         | 56         | 25         | 32         | 45         | 6         |



## PROGEF Standard Shipbuilding ball valve type 547 With threaded socket Rp brass and fusion socket PB

### Model:

- Material: PP-H
- Threaded socket Rp brass with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts



| Rp<br>[inch] | d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | SP | GP | kg    | kg/m  |
|--------------|-----------|------------|----|--|--------------------|----|----|-------|-------|
| 1/2          | 16        | 10         | 10 | 40   | <b>167 547 541</b> | 1  | 2  | 0.326 | 0.326 |
| 1/2          | 20        | 15         | 10 | 40   | <b>167 547 542</b> | 1  | 2  | 0.324 | 0.324 |

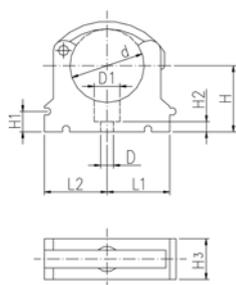
| Rp<br>[inch] | d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|--------------|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 1/2          | 16        | 50        | 57        | 27         | 12         | 120       | 77         | 56         | 25         | 32         | 45         | 6         |
| 1/2          | 20        | 50        | 57        | 27         | 12         | 121       | 77         | 56         | 25         | 32         | 45         | 6         |

# Pipe supports and brackets

## KLIP-IT pipe clip type 061 PP metric

### Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**

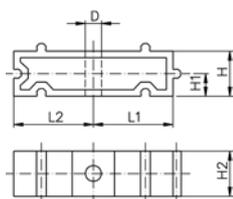


| d<br>[mm] | Code               | SP  | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|-----------|--------------------|-----|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| * 16      | <b>167 061 035</b> | 200 | 6         | 11         | 14         | 17         | 27        | 10         | 6          | 16         | M5 |
| * 20      | <b>167 061 036</b> | 200 | 6         | 11         | 17         | 19         | 27        | 10         | 6          | 16         | M5 |

## KLIP-IT spacer type 061 PP

### Model:

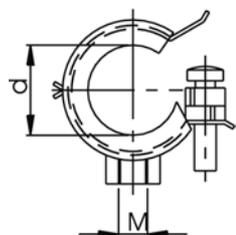
- For pipe clips Type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**



| d<br>[mm] | Inch<br>[inch] | Code               | SP | kg    | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | SC |
|-----------|----------------|--------------------|----|-------|-----------|------------|------------|-----------|------------|------------|----|
| 16        | 3/8            | <b>167 061 155</b> | 10 | 0.006 | 6         | 14         | 17         | 20        | 10         | 16         | M5 |
| 20        | 1/2            | <b>167 061 156</b> | 10 | 0.006 | 6         | 17         | 19         | 20        | 10         | 16         | M5 |

## 5091

## Pipe clamp

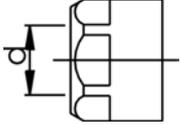


| d<br>[mm] | Code               | SP | kg    | M<br>[mm] |
|-----------|--------------------|----|-------|-----------|
| 16        | <b>761 066 296</b> | 50 | 0.040 | 8         |
| 20        | <b>761 066 297</b> | 50 | 0.050 | 8         |
| 25        | <b>761 066 298</b> | 50 | 0.051 | 8         |
| 32        | <b>761 066 299</b> | 50 | 0.060 | 8         |
| 40        | <b>761 066 300</b> | 50 | 0.081 | 8         |
| 50        | <b>761 066 301</b> | 50 | 0.091 | 8         |
| 63        | <b>761 066 302</b> | 50 | 0.132 | 8         |
| 75        | <b>761 066 303</b> | 50 | 0.152 | 8         |
| 90        | <b>761 066 304</b> | 25 | 0.191 | 10        |
| 110       | <b>761 066 305</b> | 25 | 0.232 | 10        |

# Spare Parts - Compression Joint

3800

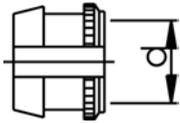
## Union nut



| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 16        | <b>760 853 018</b> | 5  | 0.032 |
| 20        | <b>760 853 071</b> | 2  | 0.043 |

3801

## Clamping ring

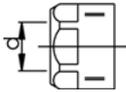


| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 16        | <b>760 853 019</b> | 5  | 0.014 |
| 20        | <b>760 853 072</b> | 2  | 0.020 |

3211

## Cap

- including seal

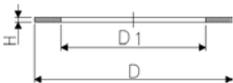


| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 16        | <b>760 853 110</b> | 5  | 0.051 |
| 20        | <b>760 853 150</b> | 5  | 0.094 |

3803

## Seal for cap

- Material: Tesnit UNI blue, free of asbestos according to DIN 3754

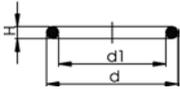


| d-d<br>[mm] | Code               | SP | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] |
|-------------|--------------------|----|-------|-----------|------------|-----------|
| 16 - 20     | <b>760 853 021</b> | 5  | 0.003 | 15        | 6          | 3         |

# Spare parts Flange adaptor PB and Valves PB

5080

O-Ring, EPDM quality for potable water



| d<br>[mm] | Code               | SP | kg    | d1<br>[mm] | D<br>[mm] | H<br>[mm] |
|-----------|--------------------|----|-------|------------|-----------|-----------|
| 16        | <b>761 066 558</b> | -  | 0.002 | 19         | 26        | 4         |
| 20        | <b>761 066 124</b> | -  | 0.002 | 23         | 31        | 4         |
| 25        | <b>761 066 125</b> | -  | 0.002 | 28         | 35        | 4         |
| 32        | <b>761 066 126</b> | -  | 0.003 | 36         | 43        | 4         |
| 40        | <b>761 066 127</b> | -  | 0.003 | 44         | 55        | 5         |
| 50        | <b>761 066 128</b> | -  | 0.004 | 53         | 64        | 5         |
| 63        | <b>761 066 129</b> | -  | 0.007 | 69         | 80        | 5         |
| 75        | <b>761 070 036</b> | -  | 0.006 | 82         | 93        | 5         |
| 90        | <b>761 070 037</b> | -  | 0.008 | 101        | 112       | 5         |
| 110       | <b>761 070 038</b> | -  | 0.016 | 120        | 134       | 7         |

3420

Complete upper part to PB valve  
d20-d32



- Consisting of a slide, a spindle, a cover cap and a hand wheel

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 20 - 32     | <b>761 066 335</b> | 1  | 0.200 |

# Tools for Compression Joints

3905



## Assembly tongs

| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 16 - 20   | <b>760 853 743</b> | 1  | 0.420 |
| 25        | <b>760 869 950</b> | 1  | 0.418 |

3911



## Cutter for protective piper

| d     | Code               | SP | kg    |
|-------|--------------------|----|-------|
| 16/20 | <b>760 853 273</b> | 1  | 0.087 |

3954



## Ratched spanner

- for tightening and loosening of compression fittings d16 and d20

| SW<br>[mm] | d<br>[mm] | Code               | SP | kg    |
|------------|-----------|--------------------|----|-------|
| 24         | 16        | <b>760 854 916</b> | 1  | 0.280 |
| 27         | 20        | <b>760 854 917</b> | 1  | 0.586 |

3908



## Pipe shears

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 16 - 25     | <b>760 853 279</b> | 1  | 0.269 |

# Machines and tools for socket fusion jointing

5101



## Heating element 230V

- Consisting of: electronic temperature regulation, Voltage 230V, Power 800W, Instruction for the socket fusion jointing
- \* only for CH / with swiss plug

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 16 - 63     | <b>761 066 804</b> | 1  | 1.550 |

5101



## Heating element 30° 230V

- special for weld-in-saddle
- \* on request

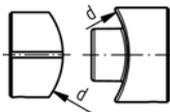
| D<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| * 16 - 50 | <b>761 066 877</b> | 1  | 1.550 |

5056



## Heating bushes for weld-in-saddle PB

d = Pipe dim.



| d<br>[mm] | Code               | SP | kg    | Remarks            |
|-----------|--------------------|----|-------|--------------------|
| 40        | <b>761 068 027</b> | 1  | 0.132 | Drill bitt d20-d32 |
| 50        | <b>761 068 028</b> | 1  | 0.161 | Drill bitt d20-d32 |
| 63        | <b>761 068 029</b> | 1  | 0.200 | Drill bitt d20-d32 |
| 75        | <b>761 068 030</b> | 1  | 0.213 | Drill bitt d20-d32 |
| 90        | <b>761 068 031</b> | 1  | 0.272 | Drill bitt d20-d32 |
| 110       | <b>761 068 032</b> | 1  | 0.298 | Drill bitt d20-d32 |

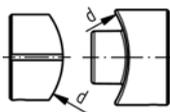
5056



## Heating bushes for weld-in-saddle PB

- for heating element straight and 30°

d = Pipe dim.



| d<br>[mm] | Code               | SP | kg    | Remarks            |
|-----------|--------------------|----|-------|--------------------|
| 125       | <b>761 068 033</b> | 1  | 0.371 | Drill bitt d20-d32 |
| 125       | <b>761 068 034</b> | 1  | 0.504 | Drill bitt d40-d50 |
| 160       | <b>761 068 035</b> | 1  | 0.568 | Drill bitt d20-d32 |
| 160       | <b>761 068 036</b> | 1  | 0.653 | Drill bitt d40-d50 |
| 225       | <b>761 068 037</b> | 1  | 1.008 | Drill bitt d20-d32 |
| 225       | <b>761 068 038</b> | 1  | 1.018 | Drill bitt d40-d50 |

5102



## Support

- as a storage possibility for Handheld heating element

| Code               | SP | kg    |
|--------------------|----|-------|
| <b>761 066 801</b> | 1  | 0.970 |

5130



## Heating bushes

- The INSTAFLEX heating bushes used for jointing Polybutene d75, d90, d110 are also available at GF

| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 16        | <b>761 066 756</b> | 1  | 0.080 |
| 20        | <b>761 066 757</b> | 1  | 0.120 |
| 25        | <b>761 066 758</b> | 1  | 0.150 |
| 32        | <b>761 066 759</b> | 1  | 0.210 |
| 40        | <b>761 066 760</b> | 1  | 0.295 |
| 50        | <b>761 066 761</b> | 1  | 0.450 |
| 63        | <b>761 066 762</b> | 1  | 0.600 |

3948



## Spanner

- Tool to change the heating bushes

| SW<br>[mm] | Code               | SP | kg    |
|------------|--------------------|----|-------|
| 6          | <b>760 854 906</b> | 1  | 0.070 |



## Heating spigots and bushes

- For socket fusion systems in PP, PE and PVDF
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 75        | <b>799 300 162</b> | -  | 0.965 |
| 90        | <b>799 300 163</b> | -  | 1.440 |
| 110       | <b>799 300 164</b> | -  | 2.210 |



## Tangit KS Cleaning Tissues

- Plastic container with 100 tissues
- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.
- Fluffless cloth

| Article           | Code               | SP | kg    |
|-------------------|--------------------|----|-------|
| plastic container | <b>700 648 759</b> | 8  | 0.341 |



## KS Tangit Cleaner

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

| Code               | SP | kg    |
|--------------------|----|-------|
| <b>799 298 023</b> | 1  | 0.868 |

3908



## Pipe shears

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 16 - 25     | <b>760 853 279</b> | 1  | 0.269 |

5302



## Chamfering tool

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 25 - 63     | <b>761 066 794</b> | 1  | 0.650 |
| 75 - 110    | <b>761 066 836</b> | 1  | 0.830 |

5303

**Spare blades for Chamfering tool**

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 25 - 110    | <b>761 066 795</b> | 1  | 0.016 |

5314

**Template for fusion joints**

- to mark the coupler

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 16 - 63     | <b>761 066 800</b> | 1  | 0.040 |

5310

**Tempil sticks**

| Temperature<br>[°C] | Code               | SP | kg    |
|---------------------|--------------------|----|-------|
| 253                 | <b>761 066 796</b> | 1  | 0.010 |
| 274                 | <b>761 066 797</b> | 1  | 0.020 |

90 10 90

**PPC Plastic pipe cutter**

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    |
|-------------|--------------------------|--------------------|-------|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |

90 10 90

**Replacement cutting wheels**

- for plastic pipe cutter

| d-d<br>[mm] | Article                   | Code               | kg    |
|-------------|---------------------------|--------------------|-------|
| 10 - 63     | SR 63 max. s=7,2 mm       | <b>790 109 011</b> | 0.004 |
| 50 - 110    | SR 110/160 max. s=12,7 mm | <b>790 109 012</b> | 0.015 |

5312

**Timer**

| Code               | SP | kg    |
|--------------------|----|-------|
| <b>761 066 798</b> | 1  | 0.042 |

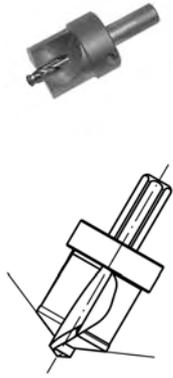
5320

**Gloves**

| Code               | SP | kg    |
|--------------------|----|-------|
| <b>761 066 799</b> | 1  | 0.115 |

5057

## Drill bit for weld-in-saddle



| d<br>[mm] | Code               | SP | kg    |
|-----------|--------------------|----|-------|
| 20 - 32   | <b>761 068 039</b> | 1  | 0.120 |
| 40 - 50   | <b>761 068 040</b> | 1  | 0.130 |



## Rotary Peeler RS

This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

### Features and your advantage:

**Spring loaded peeling blade:**Peeling quality independent of pipe ovality or tolerances  
**Pivoted mounted peeling blade:**To compensate the shape of coiled pipe  
**Optimized cutting geometry:**Defined chip thickness with cutting width overlap  
**One tool per dimension:**Minimized swivel radius for peeling in narrow locations  
**Peeling length:**No limitation of peeling length  
**Guidance rolls:**3-point-support for dimensional optimized cutting feed  
**Time saving:**Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

**Your advantage:**Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension

**Included:**1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

| Article | d<br>[mm] | Code               | kg    |
|---------|-----------|--------------------|-------|
| RS 125  | 125       | <b>790 136 007</b> | 1.650 |
| RS 160  | 160       | <b>790 136 009</b> | 1.650 |
| RS 225  | 225       | <b>790 136 012</b> | 1.850 |

6008



## MSA 250 EX MULTI PLUS Automatic Electrofusion Unit

- INSTAFLEX BIG/ELGEF/FUSEAL
- including transportation case
- including Barcodescanner
- only available in 230V

| d-d<br>[mm] | Code               | SP | kg     | Type             |
|-------------|--------------------|----|--------|------------------|
| 125 - 225   | <b>761 069 007</b> | -  | 16.800 | MSA 250 EX MULTI |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    |
|-------------|--------------------------|--------------------|-------|
| 110 - 160   | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |

d225 Pipe cutter in preparation

90 10 90

## Replacement cutting wheels

• for plastic pipe cutter



| d-d<br>[mm] | Article               | Code               | kg    |  |
|-------------|-----------------------|--------------------|-------|--|
| 110 - 160   | SR 160 max. s=19,0 mm | <b>790 109 013</b> | 0.023 |  |

# Electrofusion control unit

6000



## Electrofusion control unit Type HWSG-3

- Technical data: Voltage 230V, Power max 1400W, Frequency 50/60Hz, Protection class IP 54, Main connection (3m) with Euro standard plug
- \* only for CH / with swiss plug

| d-d [mm] | Code               | SP | kg    | Dimensions [mm] | Size [mm] |
|----------|--------------------|----|-------|-----------------|-----------|
| 16 - 110 | <b>761 069 021</b> | -  | 4.070 | 294             | 324       |

6001



## Welding cable angle, for electrofusion fittings for HWSG-3 230V

- matches to HWSG 3 - 230V

| d [mm]   | Code               | SP | kg    | Length [m] |
|----------|--------------------|----|-------|------------|
| 16 - 110 | <b>761 069 006</b> | 1  | 0.512 | 3.00       |

6001



## Welding cable straight, for electrofusion fittings for HWSG-3 230V

- matches to HWSG 3 - 230V

| d [mm]   | Code               | SP | kg    | Length [m] |
|----------|--------------------|----|-------|------------|
| 16 - 110 | <b>761 069 001</b> | 1  | 0.512 | 3.00       |

6001



## Welding cable triple 8 m for electrofusion fittings for HWSG-3 230V

- 2 pcs. with cable straight
- 1 pcs. with cable angle
- matches to HWSG 3 - 230V

\* on request

| Code                 | SP | kg    | Length [m] |
|----------------------|----|-------|------------|
| * <b>761 069 008</b> | 1  | 2.512 | 8.00       |

6006



## Ball-head socket wrench crossbar handle

| d-d [mm] | Code               | SP | kg    | SW [mm] |
|----------|--------------------|----|-------|---------|
| 16 - 63  | <b>761 066 843</b> | 2  | 0.038 | 3       |
| 75 - 110 | <b>761 066 844</b> | 2  | 0.038 | 4       |

6007



## 1/4" screwdriver bit with ball-head

| d-d [mm] | Code               | SP | kg    | SW [mm] |
|----------|--------------------|----|-------|---------|
| 16 - 63  | <b>761 066 845</b> | 5  | 0.007 | 3       |
| 75 - 110 | <b>761 066 846</b> | 5  | 0.007 | 4       |



## Tangit KS-Cleaning Tissues

- for plastic welding joints PB, PE, PP, PVDF
- Sales unit: 1 carton. Carton contains 8 dispensers with 100 tissues each.

| Code        | SP | kg    |
|-------------|----|-------|
| 799 298 024 | 1  | 2.850 |



## KS Tangit Cleaner

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

| Code        | SP | kg    |
|-------------|----|-------|
| 799 298 023 | 1  | 0.868 |

5314

## Template insert depth marking tool



| d-d<br>[mm] | Code        | SP | kg    |
|-------------|-------------|----|-------|
| 16 - 110    | 761 069 602 | 1  | 0.065 |

# HSWG-3-110V

## for countries with 110V main supply

6000



### Electrofusion control unit Type HWSG-3-110V

- including welding cable for fittings without tool case, primary cable 110V, primary cable 230V
- Primary cable (3m) with Euro standard plug
- Technical data: voltage 110V and 230V variable, power output max. 1500W,
- Technical specifications: frequency 47/65Hz, protection rate IP54, incl. power-supply cable 110V and 230V(3m) with euroconnector

\* on request

| d-d [mm]   | Code        | SP | kg     | Dimensions [mm] | Size [mm] |
|------------|-------------|----|--------|-----------------|-----------|
| * 16 - 110 | 761 069 015 | -  | 11.500 | 294             | 324       |

5314



### Template insert depth marking tool

| d-d [mm] | Code        | SP | kg    |
|----------|-------------|----|-------|
| 16 - 110 | 761 069 602 | 1  | 0.065 |

6001



### Welding cable PUR straight, for electrofusion fittings for HWSG-3 110V

- matches to HWSG 3 - 110V

\* on request

| d-d [mm]   | Code        | SP | kg    | Length [m] |
|------------|-------------|----|-------|------------|
| * 16 - 110 | 761 069 011 | 1  | 0.300 | 3.00       |

6001



### Welding cable angle PUR, for electrofusion fittings for HWSG-3 110V

- matches to HWSG 3 - 110V

\* on request

| d [mm]     | Code        | SP | kg    | Length [m] |
|------------|-------------|----|-------|------------|
| * 16 - 110 | 761 069 016 | 1  | 0.300 | 3.00       |

6005



### Primary cable 110V

\* on request

| Code          | SP | kg    | Length [m] |
|---------------|----|-------|------------|
| * 761 069 012 | 1  | 0.400 | 3.00       |

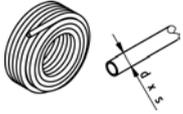
# iFIT

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|    | i FIT<br>Pipes for sanitary and heating | 68   |
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# i FIT

## Pipes for sanitary and heating

4500



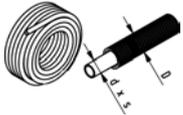
### Multilayer pipe in coils

- packed in cardboard boxes
- Multilayer pipe in coils without protective pipe
- \*packed in protective wrap

\* on request

| d<br>[mm] | s<br>[mm] | Code               | SP  | GP | kg/m  |  |
|-----------|-----------|--------------------|-----|----|-------|--|
| 16        | 2.0       | <b>762 101 000</b> | 100 | -  | 0.118 |  |
| 20        | 2.0       | <b>762 101 001</b> | 50  | -  | 0.154 |  |
| 25        | 2.5       | <b>762 101 130</b> | 50  | -  | 0.289 |  |

4505



### Multilayer pipe in protective pipe in coils

- packed in cardboard boxes
- Multilayer pipe in coils in protective pipe
- \*with protective pipe in red

\* on request

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  | D<br>[mm] |
|-----------|-----------|--------------------|----|----|-------|-----------|
| 16        | 2.0       | <b>762 101 003</b> | 75 | -  | 0.194 | 25        |
| 20        | 2.0       | <b>762 101 004</b> | 50 | -  | 0.246 | 30        |

4510

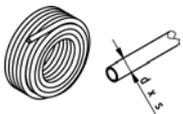


### Multilayer pipe in bars of 5,0 m

- packed in cardboard boxes

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  |  |
|-----------|-----------|--------------------|----|----|-------|--|
| 16        | 2.0       | <b>762 101 005</b> | 45 | 45 | 0.118 |  |
| 20        | 2.0       | <b>762 101 006</b> | 45 | 45 | 0.154 |  |
| 25        | 2.5       | <b>762 101 007</b> | 50 | 50 | 0.284 |  |
| 32        | 3.0       | <b>762 101 008</b> | 20 | 20 | 0.354 |  |

4516



### Polybutene pipe in coils

- packed in cardboard boxes
- PB pipe in coils without protective pipe
- without oxygen barrier

\* on request

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  |  |
|-----------|-----------|--------------------|----|----|-------|--|
| 16        | 2.0       | <b>762 101 126</b> | 60 | -  | 0.088 |  |
| 20        | 2.0       | <b>762 101 127</b> | 60 | -  | 0.115 |  |
| 25        | 2.5       | <b>762 101 128</b> | 30 | -  | 0.178 |  |

4515

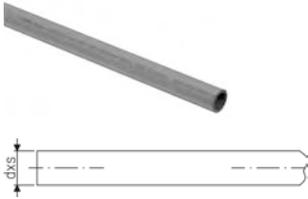


### Polybutene pipe in protective pipe in coils

- packed in cardboard boxes
- PB pipe in coils in protective pipe
- without oxygen barrier

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  | D<br>[mm] |
|-----------|-----------|--------------------|----|----|-------|-----------|
| 16        | 2.0       | <b>762 101 012</b> | 60 | -  | 0.164 | 25        |
| 20        | 2.0       | <b>762 101 013</b> | 60 | -  | 0.207 | 30        |
| 25        | 2.5       | <b>762 101 011</b> | 30 | -  | 0.286 | 34        |

4511



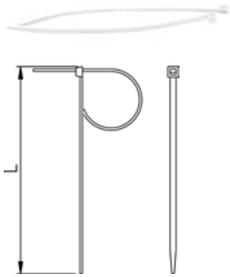
## Polybutene pipe in bars of 5,0 m

- packed in cardboard boxes
- without oxygen barrier

\* on request

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg/m  |
|-----------|-----------|--------------------|----|----|-------|
| * 25      | 2.5       | <b>762 101 162</b> | 50 | 50 | 0.178 |
| * 32      | 3.0       | <b>762 101 163</b> | 20 | 20 | 0.272 |

3930



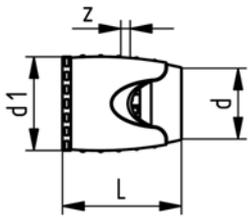
## Pipe binder

- from the INSTAFLEX range

| d-d<br>[mm] | Code               | SP  | GP | kg/m  | L<br>[mm] |
|-------------|--------------------|-----|----|-------|-----------|
| 16 - 40     | <b>760 853 283</b> | 100 | -  | 0.001 | 200       |
| 50 - 75     | <b>760 853 284</b> | 100 | -  | 0.003 | 300       |
| 90 - 110    | <b>760 854 984</b> | 100 | -  | 0.001 | 430       |

# Adaptors

4520



## Adaptor

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|--------------------|----|-----|-------|-----------|-----------|
| 16        | 30         | <b>762 101 030</b> | 10 | 150 | 0.023 | 5         | 48        |
| 20        | 34         | <b>762 101 031</b> | 10 | 150 | 0.030 | 5         | 49        |
| 25        | 45         | <b>762 101 034</b> | 5  | 50  | 0.067 | 8         | 62        |
| 32        | 52         | <b>762 101 035</b> | 5  | 50  | 0.088 | 8         | 63        |

4525



## Cap for adaptor

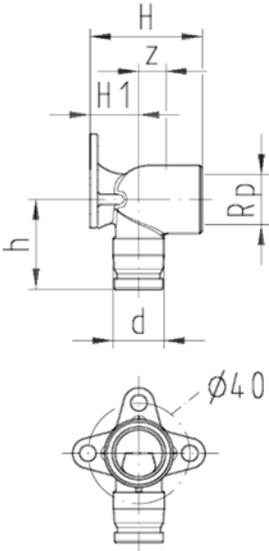
| d<br>[mm] | s<br>[mm] | Code               | SP | GP   | kg    |
|-----------|-----------|--------------------|----|------|-------|
| 16        | 2.0       | <b>762 101 017</b> | 5  | 2500 | 0.006 |
| 25        | 2.5       | <b>762 101 027</b> | 5  | 1000 | 0.013 |

# Outlet joints without box

## Single pipe outlet module

- applicable for light and wood construction

4530

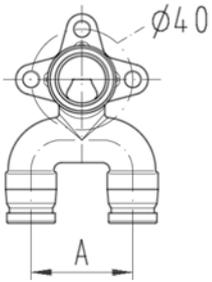
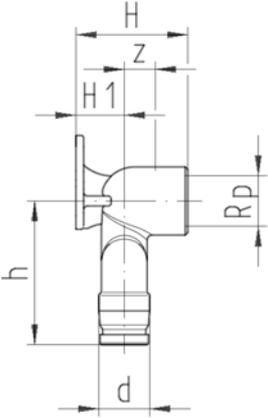


| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | H<br>[mm] | H1<br>[mm] | h<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-----------|------------|-----------|-----------|
| 16 / 20   | ½            | <b>762 101 018</b> | 10 | 50 | 0.141 | 44        | 19         | 36        | 12        |
| 16 / 20   | ½            | <b>762 101 070</b> | 5  | 10 | 0.201 | 64        | 19         | 36        | 32        |
| 16 / 20   | ¾            | <b>762 101 019</b> | 2  | 10 | 0.168 | 44        | 19         | 39        | 11        |

4535

## Dual pipe outlet module

- applicable for light and wood construction

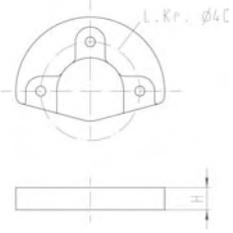


| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | H<br>[mm] | H1<br>[mm] | h<br>[mm] | z<br>[mm] | A<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-----------|------------|-----------|-----------|-----------|
| 16 / 20   | ½            | <b>762 101 022</b> | 60 | 60 | 0.238 | 44        | 19         | 57        | 12        | 40        |
| 16 / 20   | ½            | <b>762 101 071</b> | 2  | -  | 0.298 | 64        | 19         | 57        | 32        | 40        |

## Accessories for outlet joints

### Sound proofing for pipe outlet

4540



|                 | Code               | SP | GP | kg    |
|-----------------|--------------------|----|----|-------|
| Rubber isolator | <b>762 101 033</b> | 10 | -  | 0.010 |

4541

### Sound proofing for pipe outlet

- single or double

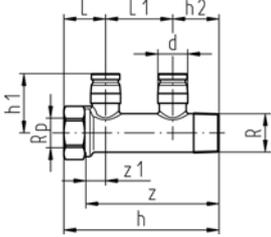


|            | Code               | SP | GP | kg    |
|------------|--------------------|----|----|-------|
| Set single | <b>762 101 036</b> | 5  | -  | 0.073 |
| Set double | <b>762 101 037</b> | 2  | -  | 0.115 |

# Manifolds

4550

## Manifold module with center-to-center distance of 45 mm



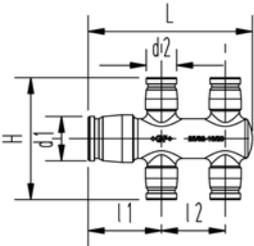
| d<br>[mm] | Rp<br>[inch] | R<br>[inch] | outlet | Code               | SP | GP | kg    |  |  |
|-----------|--------------|-------------|--------|--------------------|----|----|-------|--|--|
| 16 / 20   | 3/4          | 3/4         | 2-fold | <b>762 101 048</b> | 2  | 10 | 0.280 |  |  |
| 16 / 20   | 3/4          | 3/4         | 3-fold | <b>762 101 049</b> | 2  | 10 | 0.389 |  |  |
| 16 / 20   | 3/4          | 3/4         | 4-fold | <b>762 101 053</b> | 2  | 10 | 0.527 |  |  |

| d<br>[mm] | h<br>[mm] | h1<br>[mm] | h2<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] |  |  |
|-----------|-----------|------------|------------|-----------|------------|-----------|------------|--|--|
| 16 / 20   | 104       | 40         | 31         | 28        | 45         | 90        | 14         |  |  |
| 16 / 20   | 149       | 40         | 31         | 28        | 45         | 135       | 14         |  |  |
| 16 / 20   | 194       | 40         | 31         | 28        | 45         | 180       | 14         |  |  |

4551

## Manifold module PPSU



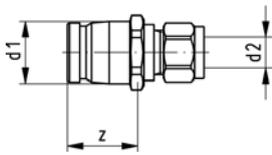
| d1<br>[mm] | d2<br>[mm] | outlet | Code               | SP | GP | kg    | l1<br>[mm] | l2<br>[mm] | H<br>[mm] | L<br>[mm] |  |  |
|------------|------------|--------|--------------------|----|----|-------|------------|------------|-----------|-----------|--|--|
| 25 / 32    | 16 / 20    | 3-fold | <b>762 101 213</b> | 2  | 40 | 0.052 | 46         | 40         | 77        | 103       |  |  |
| 25 / 32    | 16 / 20    | 4-fold | <b>762 101 212</b> | 2  | 40 | 0.056 | 46         | 40         | 77        | 103       |  |  |

# Special Ship Building Parts for Cabins

4671

## iFIT-copper transition module

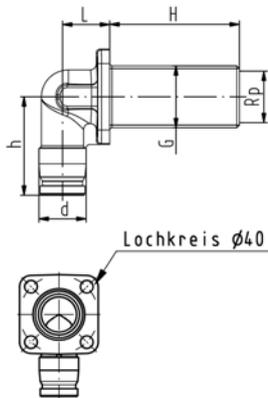
\* on request



| d1<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | z<br>[mm] |
|------------|------------|--------------------|----|----|-------|-----------|
| * 16 / 20  | 10         | <b>762 101 089</b> | 10 | -  | 0.070 | 22        |
| 16 / 20    | 12         | <b>762 101 210</b> | 10 | -  | 0.042 | 19        |
| 16 / 20    | 15         | <b>762 101 211</b> | 10 | -  | 0.043 | 22        |

4547

## Single pipe outlet module 1/2" - 3/4"

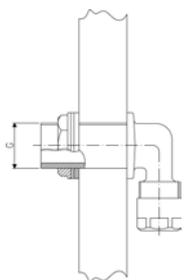


| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | L<br>[mm] | H<br>[mm] | h<br>[mm] | G<br>[inch] |
|-----------|--------------|--------------------|----|----|-------|-----------|-----------|-----------|-------------|
| 16 / 20   | 1/2          | <b>762 101 047</b> | 1  | 10 | 0.250 | 20        | 55        | 42        | 3/4         |

3067

## Fastening set

- appropriate to outlet joint with male thread
- consists of: Union nut, washer, seal
- from the INSTAFLEX range



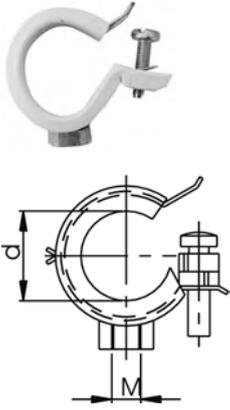
| G<br>[inch] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 3/4         | <b>760 854 699</b> | 10 | -  | 0.045 |

# Accessories for manifolds

3286

## Mounting bracket M8 with rubber

- from the INSTAFLEX range



| manifold | Code               | SP | GP | kg    | M<br>[mm] |
|----------|--------------------|----|----|-------|-----------|
| 3/4      | <b>760 856 212</b> | 10 | -  | 0.029 | 8         |

3266

## Cap

- from the INSTAFLEX range

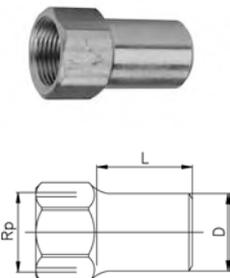


| Rp<br>[inch] | Code               | SP | GP | kg    |
|--------------|--------------------|----|----|-------|
| 3/4          | <b>760 853 794</b> | 5  | -  | 0.084 |
| 1            | <b>760 853 706</b> | 5  | -  | 0.134 |

3268

## Cap long

- from the INSTAFLEX range

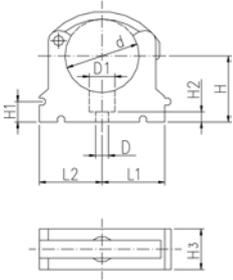


| Rp<br>[inch] | Code               | SP | GP | kg    | D<br>[mm] | L<br>[mm] |
|--------------|--------------------|----|----|-------|-----------|-----------|
| 3/4          | <b>760 853 596</b> | 5  | -  | 0.162 | 27        | 34        |

## KLIP-IT pipe clip type 061 PP metric

### Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**

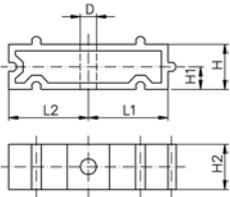


| d<br>[mm] | Code               | SP  | GP | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|-----------|--------------------|-----|----|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| * 16      | <b>167 061 035</b> | 200 | -  | 6         | 11         | 14         | 17         | 27        | 10         | 6          | 16         | M5 |
| * 20      | <b>167 061 036</b> | 200 | -  | 6         | 11         | 17         | 19         | 27        | 10         | 6          | 16         | M5 |

## KLIP-IT spacer type 061 PP

### Model:

- For pipe clips Type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

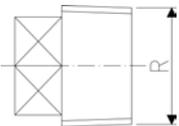


| d<br>[mm] | Inch<br>[inch] | Code               | SP | GP  | kg    | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | SC |
|-----------|----------------|--------------------|----|-----|-------|-----------|------------|------------|-----------|------------|------------|----|
| 16        | 3/8            | <b>167 061 155</b> | 10 | 200 | 0.006 | 6         | 14         | 17         | 20        | 10         | 16         | M5 |
| 20        | 1/2            | <b>167 061 156</b> | 10 | 200 | 0.006 | 6         | 17         | 19         | 20        | 10         | 16         | M5 |

## 3267

### Plug

- from the INSTAFLEX range

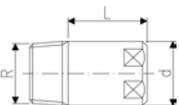


| R<br>[inch] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 3/4         | <b>760 853 792</b> | 5  | -  | 0.050 |
| 1           | <b>760 853 793</b> | 5  | -  | 0.084 |

## 3264

### Plug long

- from the INSTAFLEX range

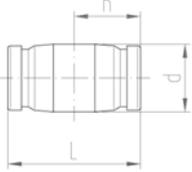


| R<br>[inch] | Code               | SP | GP | kg    | D<br>[mm] | L<br>[mm] |
|-------------|--------------------|----|----|-------|-----------|-----------|
| 3/4         | <b>760 869 989</b> | 5  | -  | 0.150 | 27        | 52        |

# Modules

4585

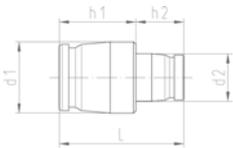
## Coupler/reducing module



| d<br>[mm] | Code               | SP | GP  | kg    | L<br>[mm] | h<br>[mm] |  |
|-----------|--------------------|----|-----|-------|-----------|-----------|--|
| 16 / 20   | <b>762 101 044</b> | 10 | 500 | 0.007 | 39        | 20        |  |
| 25 / 32   | <b>762 101 175</b> | 5  | 200 | 0.023 | 56        | 28        |  |

4586

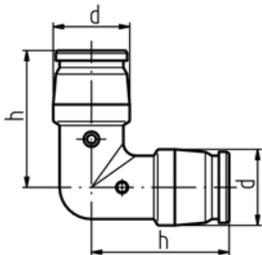
## Reducing module



| d1<br>[mm] | d2<br>[mm] | Code               | SP | GP  | kg    | L<br>[mm] | h1<br>[mm] | h2<br>[mm] |  |
|------------|------------|--------------------|----|-----|-------|-----------|------------|------------|--|
| 25 / 32    | 16 / 20    | <b>762 101 177</b> | 2  | 150 | 0.018 | 52        | 32         | 20         |  |

4590

## Elbow module 90°



| d<br>[mm] | Code               | SP | GP | kg    | h<br>[mm] |  |
|-----------|--------------------|----|----|-------|-----------|--|
| 16 / 20   | <b>762 101 046</b> | 10 | 50 | 0.012 | 36        |  |
| 25 / 32   | <b>762 101 179</b> | 5  | 20 | 0.042 | 54        |  |

4591

**Elbow module 45°**



| d<br>[mm] | Code               | SP | GP | kg    | h<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|
| 25 / 32   | <b>762 101 180</b> | 5  | 20 | 0.033 | 40        |

4595

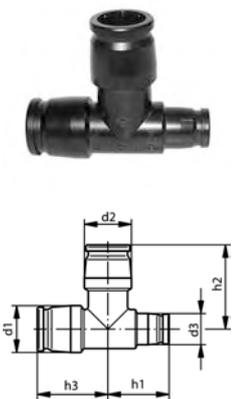
**Tee module**



| d<br>[mm] | Code               | SP | GP | kg    | h<br>[mm] | h1<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|------------|
| 16 / 20   | <b>762 101 042</b> | 10 | 50 | 0.015 | 31        | 37         |
| 25 / 32   | <b>762 101 181</b> | 5  | 20 | 0.053 | 45        | 54         |

4600

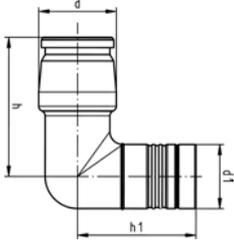
**Tee module reduced**



| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code               | SP | GP | kg    | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] |
|------------|------------|------------|--------------------|----|----|-------|------------|------------|------------|
| 25 / 32    | 25 / 32    | 16 / 20    | <b>762 101 183</b> | 2  | 70 | 0.043 | 45         | 54         | 39         |
| 25 / 32    | 16 / 20    | 25 / 32    | <b>762 101 185</b> | 2  | 70 | 0.043 | 45         | 48         | 45         |
| 25 / 32    | 16 / 20    | 16 / 20    | <b>762 101 187</b> | 2  | 70 | 0.033 | 45         | 48         | 39         |

4592

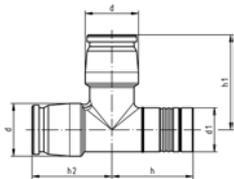
### Elbow module 90° with pipe outline



| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | h<br>[mm] | h1<br>[mm] |  |
|-----------|--------------------|----|----|-------|------------|-----------|------------|--|
| 16 / 20   | <b>762 101 202</b> | 5  | 50 | 0.014 | 20         | 36        | 40         |  |
| 25 / 32   | <b>762 101 203</b> | 2  | 20 | 0.029 | 25         | 54        | 46         |  |

4602

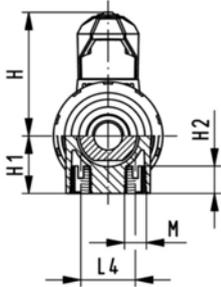
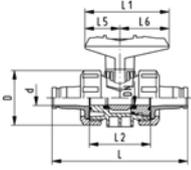
### Tee module with pipe outline



| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | h<br>[mm] | h1<br>[mm] | h2<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|------------|
| 16 / 20   | <b>762 101 204</b> | 5  | 50 | 0.017 | 20         | 41        | 37         | 32         |
| 25 / 32   | <b>762 101 205</b> | 2  | 20 | 0.042 | 25         | 46        | 54         | 45         |

# Valves

## Shipbuilding ball valve type 547 with iFIT connection d16/d20



### Model:

- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | SP | GP | kg    |
|-----------|------------|----|--|--------------|----|----|-------|
| 16        | 15         | 10 | 185  | 167 547 812  | 1  | 2  | 0.152 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 12         | 126       | 77         | 56         | 25         | 32         | 45         | 6         |

# Transition modules

4605

## Transition module male thread



| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | h<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-----------|
| 16 / 20   | 1/2         | <b>762 101 038</b> | 10 | 50 | 0.061 | 42        |
| 16 / 20   | 3/4         | <b>762 101 039</b> | 10 | 50 | 0.078 | 43        |
| 25 / 32   | 3/4         | <b>762 101 091</b> | 2  | 20 | 0.144 | 51        |
| 25 / 32   | 1           | <b>762 101 092</b> | 2  | 20 | 0.189 | 55        |

4610

## Transition module female thread



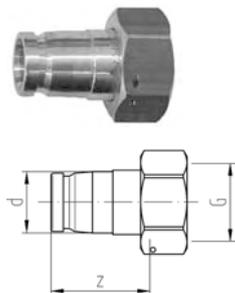
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | h<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-----------|-----------|
| 16 / 20   | 1/2          | <b>762 101 040</b> | 10 | 50 | 0.067 | 36        | 23        |
| 16 / 20   | 3/4          | <b>762 101 041</b> | 10 | 50 | 0.087 | 39        | 24        |
| 25 / 32   | 3/4          | <b>762 101 093</b> | 2  | 20 | 0.131 | 45        | 31        |
| 25 / 32   | 1            | <b>762 101 094</b> | 2  | 20 | 0.163 | 49        | 32        |

4615

## Transition union module flat sealed

- supplied with sealing

\* on request



| d<br>[mm] | G<br>[inch] | Code               | SP | GP | kg    | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-----------|
| * 16 / 20 | 1/2         | <b>762 101 088</b> | 2  | -  | 0.080 | 41        |
| 16 / 20   | 3/4         | <b>762 101 056</b> | 2  | -  | 0.090 | 35        |
| 25 / 32   | 3/4         | <b>762 101 095</b> | 2  | -  | 0.170 | 48        |
| 25 / 32   | 1           | <b>762 101 096</b> | 2  | -  | 0.210 | 55        |
| 25 / 32   | 1 1/4       | <b>762 101 097</b> | 2  | -  | 0.250 | 48        |
| 25 / 32   | 1 1/2       | <b>762 101 098</b> | 2  | -  | 0.307 | 50        |



## Transition coupler PPR-iFIT

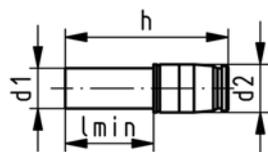
| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    |
|-----------|------------|--------------------|----|-----|-------|
| 25        | 25 / 32    | <b>760 840 743</b> | 10 | 100 | 0.134 |
| 32        | 25 / 32    | <b>760 840 744</b> | 6  | 100 | 0.137 |



## Transition saddle PPR-iFIT

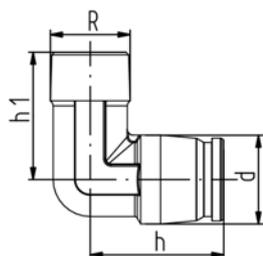
| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    |
|-----------|------------|--------------------|----|-----|-------|
| 50        | 25 / 32    | <b>760 840 754</b> | 10 | 100 | 0.130 |
| 63        | 25 / 32    | <b>760 840 756</b> | 10 | 100 | 0.130 |
| 75        | 25 / 32    | <b>760 840 758</b> | 10 | 100 | 0.130 |
| 90        | 25 / 32    | <b>760 840 760</b> | 10 | 100 | 0.130 |
| 110       | 25 / 32    | <b>760 840 762</b> | 10 | 100 | 0.130 |

4606

**iFIT-INSTAFLEX transition module**

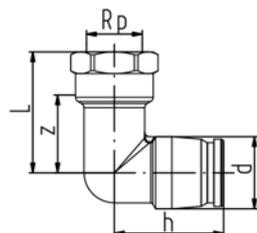
| d2<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | h<br>[mm] | L min. SF<br>[mm] | L min. ELF<br>[mm] |
|------------|------------|--------------------|----|----|-------|-----------|-------------------|--------------------|
| 16 / 20    | 16         | <b>762 101 057</b> | 1  | -  | 0.059 | 84        | 30                | 46                 |
| 16 / 20    | 20         | <b>762 101 058</b> | 1  | -  | 0.071 | 86        | 30                | 48                 |
| 16 / 20    | 25         | <b>762 101 067</b> | 1  | -  | 0.090 | 94        | 33                | 56                 |
| 25 / 32    | 25         | <b>762 101 059</b> | 1  | -  | 0.145 | 101       | 33                | 56                 |
| 25 / 32    | 32         | <b>762 101 060</b> | 1  | -  | 0.177 | 101       | 35                | 56                 |

4620

**Transition elbow module male thread**

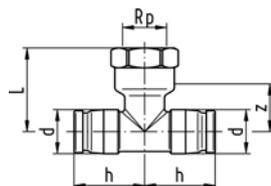
| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | h<br>[mm] | h1<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-----------|------------|
| 16 / 20   | ½           | <b>762 101 051</b> | 10 | 50 | 0.077 | 30        | 34         |
| 16 / 20   | ¾           | <b>762 101 052</b> | 10 | 50 | 0.092 | 30        | 35         |
| 25 / 32   | ¾           | <b>762 101 099</b> | 2  | 20 | 0.204 | 45        | 43         |
| 25 / 32   | 1           | <b>762 101 100</b> | 2  | 20 | 0.213 | 45        | 45         |

4630

**Transition elbow module female thread**

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | h<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-----------|-----------|-----------|
| 16 / 20   | ½            | <b>762 101 101</b> | 10 | 60 | 0.103 | 32        | 38        | 25        |
| 16 / 20   | ¾            | <b>762 101 105</b> | 10 | 40 | 0.129 | 36        | 40        | 22        |
| 25 / 32   | ¾            | <b>762 101 102</b> | 5  | 25 | 0.225 | 45        | 50        | 33        |

4625

**Transition Tee module female thread**

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | h<br>[mm] | z<br>[mm] | L<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-----------|-----------|-----------|
| 16 / 20   | ½            | <b>762 101 055</b> | 5  | 40 | 0.131 | 32        | 25        | 38        |
| 25 / 32   | ¾            | <b>762 101 103</b> | 2  | 14 | 0.231 | 43        | 35        | 50        |

## Tools

4635

### Tool set for ML- and PB pipes



| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 16 / 20   | <b>762 101 122</b> | 1  | -  | 1.170 |
| 25 / 32   | <b>762 101 133</b> | 1  | -  | 1.466 |

4640

### Chamfering tool for ML- and PB pipes



| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 16        | <b>762 101 116</b> | 1  | -  | 0.191 |
| 20        | <b>762 101 120</b> | 1  | -  | 0.210 |
| 25        | <b>762 101 125</b> | 1  | -  | 0.238 |
| 32        | <b>762 101 132</b> | 1  | -  | 0.315 |

4645

### Pipe shears d16-d20 for ML- and PB pipes

- also for cutting of protective pipe



| d            | Code               | SP | GP | kg    |
|--------------|--------------------|----|----|-------|
| 16 / 20      | <b>762 101 108</b> | 1  | -  | 0.321 |
| Spare blades | <b>762 101 109</b> | 1  | -  | 0.019 |

5300

### Pipe cutter d16-d32 for ML- and PB pipes



| d            | Code               | SP | GP | kg    |
|--------------|--------------------|----|----|-------|
| 16 - 32      | <b>762 101 117</b> | 1  | -  | 0.400 |
| Spare blades | <b>762 101 118</b> | 1  | -  | 0.006 |

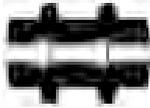
4650

### Outside pipe bending tool for ML pipes



| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 16        | <b>762 101 112</b> | -  | -  | 0.440 |
| 20        | <b>762 101 113</b> | -  | -  | 0.643 |
| 25        | <b>762 101 114</b> | -  | -  | 0.657 |
| 32        | <b>762 101 115</b> | -  | -  | 0.700 |

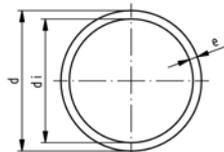
# PE industrial systems

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# PE100 pipes

93 01 72



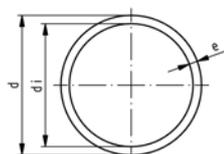
## Pipe PE100 SDR7.4

### Model:

- Dimension: DIN 8074
- Colour: RAL 9011 graphite black
- Length: 5 m
- for socket fusion without stiffeners
- Not suitable for butt fusion

| d<br>[mm] | Code               | kg/m  | e<br>[mm] | di<br>[mm] |
|-----------|--------------------|-------|-----------|------------|
| 20        | <b>193 017 206</b> | 0.156 | 2,8       | 14.4       |
| 25        | <b>193 017 207</b> | 0.243 | 3,5       | 18.0       |

93 01 71



## Pipe PE100 SDR11

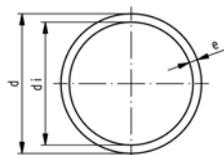
### Model:

- Material: PE 100, Polyethylene
- Colour: RAL 9011 graphite black
- Dimension: DIN 8074
- Pipe length: 5m, with plain ends

\* In these two sizes, stiffeners Code No. 733 900 006 (20 x 1,9) and 733 900 007 (25 x 2.3) must be used with socket fusion joints.

| d<br>[mm] | PN | Code               | kg/m   | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|--------|-----------|------------|
| * 20      | 16 | <b>193 017 156</b> | 0.113  | 1,9       | 16.2       |
| * 25      | 16 | <b>193 017 157</b> | 0.173  | 2,3       | 20.4       |
| 32        | 16 | <b>193 017 158</b> | 0.274  | 2,9       | 26.2       |
| 40        | 16 | <b>193 017 159</b> | 0.434  | 3,7       | 32.6       |
| 50        | 16 | <b>193 017 160</b> | 0.673  | 4,6       | 40.8       |
| 63        | 16 | <b>193 017 161</b> | 1.060  | 5,8       | 51.4       |
| 75        | 16 | <b>193 017 162</b> | 1.480  | 6,8       | 61.4       |
| 90        | 16 | <b>193 017 163</b> | 2.140  | 8,2       | 73.6       |
| 110       | 16 | <b>193 017 164</b> | 3.180  | 10,0      | 90.0       |
| 125       | 16 | <b>193 017 165</b> | 4.120  | 11,4      | 102.8      |
| 140       | 16 | <b>193 017 166</b> | 5.130  | 12,7      | 114.6      |
| 160       | 16 | <b>193 017 167</b> | 6.740  | 14,6      | 130.8      |
| 180       | 16 | <b>193 017 168</b> | 8.510  | 16,4      | 147.2      |
| 200       | 16 | <b>193 017 169</b> | 10.500 | 18,2      | 163.6      |
| 225       | 16 | <b>193 017 170</b> | 13.300 | 20,5      | 184.0      |
| 250       | 16 | <b>193 017 171</b> | 16.300 | 22,7      | 204.6      |
| 280       | 16 | <b>193 017 172</b> | 20.500 | 25,4      | 229.2      |
| 315       | 16 | <b>193 017 173</b> | 25.900 | 28,6      | 257.8      |
| 355       | 16 | <b>193 017 174</b> | 32.900 | 32,2      | 290.6      |
| 400       | 16 | <b>193 017 175</b> | 41.700 | 36,3      | 327.4      |

93 01 71



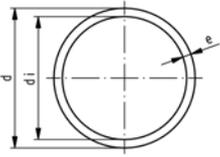
## Pipe PE100 SDR17.6

### Model:

- Material: PE 100, Polyethylene
- Colour: RAL 9011 graphite black
- Dimension: DIN 8074
- Pipe length: 5m, with plain ends

| d<br>[mm] | PN | Code               | kg/m  | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|-------|-----------|------------|
| 50        | 10 | <b>193 017 110</b> | 0.445 | 2,9       | 44.2       |
| 63        | 10 | <b>193 017 111</b> | 0.695 | 3,6       | 55.8       |
| 75        | 10 | <b>193 017 112</b> | 0.987 | 4,3       | 66.4       |
| 90        | 10 | <b>193 017 113</b> | 1.400 | 5,1       | 79.8       |
| 110       | 10 | <b>193 017 114</b> | 2.100 | 6,3       | 97.4       |
| 125       | 10 | <b>193 017 115</b> | 2.690 | 7,1       | 110.8      |
| 140       | 10 | <b>193 017 116</b> | 3.270 | 8,0       | 124.0      |
| 160       | 10 | <b>193 017 117</b> | 4.400 | 9,1       | 141.8      |
| 180       | 10 | <b>193 017 118</b> | 5.540 | 10,2      | 159.6      |

table continued next page



| <b>d</b><br>[mm] | <b>PN</b> | <b>Code</b>        | <b>kg/m</b> | <b>e</b><br>[mm] | <b>di</b><br>[mm] |
|------------------|-----------|--------------------|-------------|------------------|-------------------|
| 200              | 10        | <b>193 017 119</b> | 6.860       | 11,4             | 177.2             |
| 225              | 10        | <b>193 017 120</b> | 8.630       | 12,8             | 199.4             |
| 250              | 10        | <b>193 017 121</b> | 10.700      | 14,2             | 221.6             |
| 280              | 10        | <b>193 017 122</b> | 13.300      | 15,9             | 248.2             |
| 315              | 10        | <b>193 017 123</b> | 16.900      | 17,9             | 279.2             |
| 355              | 10        | <b>193 017 124</b> | 21.400      | 20,1             | 290.6             |
| 400              | 10        | <b>193 017 125</b> | 27.200      | 22,7             | 354.6             |
| 450              | 10        | <b>193 017 126</b> | 34.300      | 25,5             | 400.0             |
| 500              | 10        | <b>193 017 127</b> | 42.500      | 28,4             | 443.2             |

## Pressure/temperature diagram for PE

### PE 100

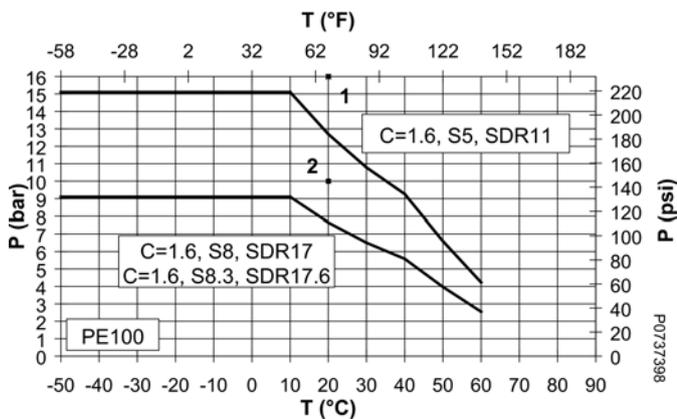
The following pressure/temperature diagram for PE100 pipes and fittings is valid for a lifetime of 25 years.

The design factor of 1.6 (respective 1.25) recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

**Remark:** Please take into account the pressure/temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

In case of long-term applications at continuous pressure with temperatures above 40 °C, please contact your GF representative.



- 1 Design Factor C = 1.25, S5, SDR11 for 20 °C water, 50 years
  - 2 Design Factor C=1.25, S8.3, SDR17.6 and S8, SDR17 for 20 °C water, 50 years
- P Permissible pressure in bar, psi  
 T Temperature in °C, °F

## Overview ELGEF® Plus couplers, fittings and transition adaptors

|    | Sequence of tasks  | End Caps<br>d20-d63   | End Caps<br>d75-d225   | Transition<br>Adaptor<br>d20-d63  | Transition<br>Adaptor<br>(loose nut)<br>d20-d63                                     |
|----|--|---|--|---|---|
|    |  |  |  |  |  |
| 1  | Rough clean pipe(s), cut at right angles and deburr.   | +   | +  | +   | +   |
| 2  | Remove oxidised layer on pipe(s) with peeling tool   | +   | +  | O<br>difficult assembly conditions  | O<br>difficult assembly conditions  |
| 3  | Clean pipe(s) in fusion zone with Tangit cleaning cloth or Tangit PE cleaner                         | +   | +  | +   | +   |
| 4  | Mark insertion depth <sup>1</sup> on the pipe  | O   | O  | -   | -   |
| 5  | Remove fitting(s) from the bag without touching the fusion surface(s)                                | +   | +  | +   | +   |
| 6  | Screw or unscrew transition adaptor  | -   | -  | +   | O   |
| 7  | Push pipe into socket up to centre stop or marking   | +   | +  | -   | -   |
| 8  | Alternately, tighten integrated pipe fixation screws   | +   | -  | -   | -   |
| 9  | Mount and tighten pipe clamp (if joint is under stress)  | -   | +  | -   | -   |
| 10 | Push second pipe up to centre stop or marking  | -   | -  | +   | +   |
| 11 | Alternately, tighten integrated pipe fixation screws   | -   | -  | +   | +   |
| 12 | Mount and fix pipe clamp (if joint is under stress)  | -   | +  | -   | -   |
| 13 | Complete fusion procedure in accordance with operating instructions for unit                         | +   | +  | +   | +   |
| 14 | After fusion, check indicators on fitting and the display in fusion control unit, then remove cables | +   | +  | +   | +   |
| 15 | Wait for cooling time <sup>2</sup> , then remove pipe clamp if used                                  | -   | +  | -   | -   |
| 16 | Screw or unscrew transition adaptor with loose nut (if used)   | -   | -  | -   | O   |
| 17 | Wait for the minimum cooling time <sup>2</sup> and conduct pressure test                             | +   | +  | +   | +   |

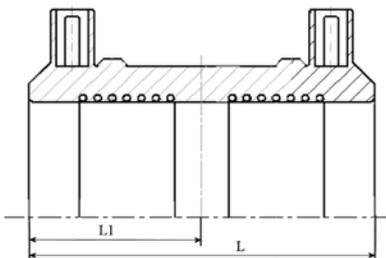
**+** = compulsory  
**O** = optional  
**-** = unnecessary



When using oval pipes, re-rounding clamps should be mounted on both sides of the fitting to be fused.

### <sup>1</sup> Insertion depth for couplers and fittings

| d [mm] | Insertion depth L1 [mm] |       |
|--------|-------------------------|-------|
|        | SDR11                   | SDR17 |
| 20     | 34                      |       |
| 25     | 34                      |       |
| 32     | 36                      |       |
| 40     | 40                      |       |
| 50     | 44                      |       |
| 63     | 48                      |       |
| 75     | 55                      |       |
| 90     | 62                      |       |
| 110    | 72                      |       |
| 125    | 79                      |       |
| 140    | 84                      |       |
| 160    |                         | 90    |
| 180    |                         | 95    |
| 200    |                         | 101   |
| 225    |                         | 110   |
| 250    |                         | 122   |
| 280    |                         | 126   |
| 315    |                         | 132   |
| 355    |                         | 122   |
| 400    |                         | 122   |
| 450    |                         | 145   |
| 500    |                         | 145   |
| 560    |                         | 196   |
| 630    |                         | 221   |



### <sup>2</sup> Minimum cooling time for couplers and fittings in minutes

| d [mm]  | SDR | Removal of clamp [min.] | Pressure test $p \leq 6 \text{ bar}$ $p \leq 24 \text{ bar}$ |        |
|---------|-----|-------------------------|--|--------|
|         |     |                         | [min.]   | [min.] |
| 20-63   | 11  | 6                       | 10   | 30     |
| 75-110  | 11  | 10                      | 20   | 60     |
| 125-160 | 11  | 15                      | 30   | 75     |
| 180-225 | 11  | 20                      | 45   | 90     |
| 250-400 | 11  | 30                      | 60   | 150    |

p = test pressure

| d [mm]  | SDR | Removal of clamp [min.] | Pressure test $p \leq 6 \text{ bar}$ $p \leq 24 \text{ bar}$ |        |
|---------|-----|-------------------------|--|--------|
|         |     |                         | [min.]   | [min.] |
| 125-160 | 17  | 15                      | 30   | 75     |
| 180-225 | 17  | 20                      | 45   | 90     |
| 250-400 | 17  | 30                      | 60   | 150    |
| 450-500 | 17  | 40                      | 60   | 150    |
| 560-630 | 17  | 60                      | 60   | 150    |

p = test pressure



**Polyethylene  
Piping Systems PE 100**



**Spigot Fittings for electrofusion  
and butt fusion (long ends)**

**Spigot Fittings for  
butt fusion (short ends)**

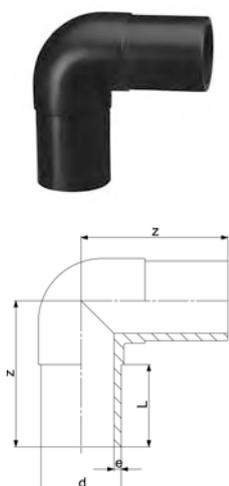
**Flanges, seals**

# Spigot Fittings in PE 100

53 10 10

## Elbow 90°, PE100 SDR 11

- Long spigot version
- 10 bar Gas / 16 bar Water

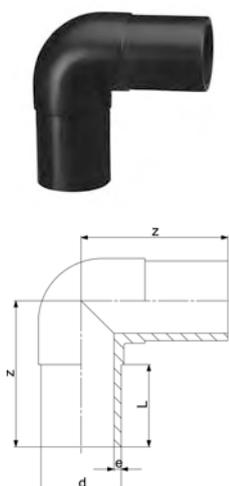


| d<br>[mm] | Code        | SP | GP  | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|-----|--------|-----------|-----------|-----------|
| 20        | 753 101 006 | 1  | 40  | 0.027  | 75        | 52        | 3.0       |
| 25        | 753 101 007 | 1  | 40  | 0.037  | 80        | 52        | 3.0       |
| 32        | 753 101 008 | 1  | 100 | 0.053  | 85        | 54        | 3.0       |
| 40        | 753 101 009 | 1  | 50  | 0.093  | 95        | 57        | 3.7       |
| 50        | 753 101 010 | 1  | 30  | 0.159  | 105       | 63        | 4.6       |
| 63        | 753 101 011 | 1  | 40  | 0.275  | 115       | 65        | 5.8       |
| 75        | 753 101 012 | 1  | 12  | 0.413  | 130       | 72        | 6.8       |
| 90        | 753 101 013 | 1  | 18  | 0.704  | 150       | 81        | 8.2       |
| 110       | 753 101 014 | 1  | 10  | 1.145  | 165       | 86        | 10.0      |
| 125       | 753 101 015 | 1  | 6   | 1.609  | 180       | 93        | 11.4      |
| 140       | 753 101 016 | 5  | 5   | 1.920  | 194       | 92        | 12.7      |
| 160       | 753 101 017 | 1  | 5   | 3.100  | 210       | 103       | 14.6      |
| 180       | 753 101 018 | 1  | 3   | 4.319  | 232       | 107       | 16.4      |
| 200       | 753 101 019 | 1  | 3   | 5.733  | 253       | 117       | 18.2      |
| 225       | 753 101 020 | 1  | 1   | 7.780  | 270       | 122       | 20.5      |
| 250       | 753 101 001 | 3  | 3   | 10.500 | 292       | 130       | 22.7      |
| 280       | 753 100 922 | 2  | 2   | 15.286 | 320       | 140       | 25.4      |
| 315       | 753 100 923 | 1  | -   | 21.960 | 370       | 150       | 28.6      |

53 10 08

## Elbow 90°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

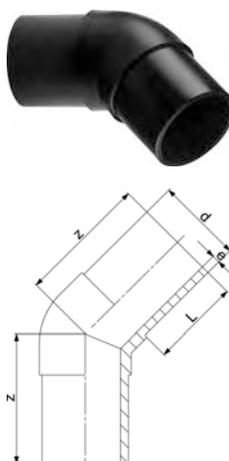


| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|
| 90        | 753 100 813 | 1  | 18 | 0.544  | 150       | 81        | 5,4       |
| 110       | 753 100 814 | 1  | 10 | 0.625  | 165       | 86        | 6,6       |
| 125       | 753 100 815 | 1  | 6  | 0.927  | 180       | 93        | 7,4       |
| 140       | 753 100 816 | 5  | 5  | 1.430  | 194       | 92        | 8,3       |
| 160       | 753 100 817 | 1  | 5  | 3.040  | 210       | 102       | 9,5       |
| 180       | 753 100 818 | 1  | 3  | 3.750  | 232       | 107       | 10,7      |
| 200       | 753 100 819 | 1  | 3  | 4.980  | 253       | 115       | 11,9      |
| 225       | 753 100 820 | 1  | 1  | 6.850  | 270       | 120       | 13,4      |
| 250       | 753 100 821 | 2  | 3  | 8.274  | 292       | 130       | 14,8      |
| 280       | 753 100 822 | 2  | 2  | 11.423 | 320       | 140       | 16,6      |
| 315       | 753 100 823 | 1  | 1  | 16.050 | 370       | 150       | 18,7      |

53 15 10

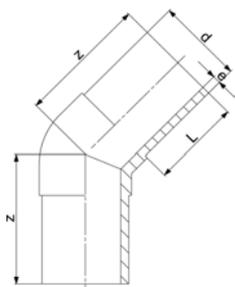
## Elbow 45°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water



| d<br>[mm] | Code        | SP | GP | kg    | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|-------|-----------|-----------|-----------|
| 20        | 753 151 006 | 1  | 40 | 0.026 | 70        | 52        | 3,0       |
| 25        | 753 151 007 | 1  | 30 | 0.035 | 75        | 52        | 3,0       |
| 32        | 753 151 008 | 1  | 25 | 0.051 | 80        | 54        | 3,0       |
| 40        | 753 151 009 | 1  | 30 | 0.082 | 85        | 57        | 3,7       |
| 50        | 753 151 010 | 1  | 70 | 0.137 | 90        | 63        | 4,6       |
| 63        | 753 151 011 | 1  | 50 | 0.300 | 95        | 65        | 5,8       |
| 75        | 753 151 012 | 1  | 12 | 0.346 | 105       | 72        | 6,8       |
| 90        | 753 151 013 | 1  | 20 | 0.578 | 120       | 81        | 8,2       |
| 110       | 753 151 014 | 1  | 12 | 0.931 | 130       | 86        | 10,0      |
| 125       | 753 151 015 | 1  | 6  | 1.286 | 140       | 92        | 11,4      |
| 140       | 753 151 016 | 4  | -  | 1.600 | 164       | 120       | 12,7      |
| 160       | 753 151 017 | 1  | 6  | 2.461 | 162       | 102       | 14,6      |
| 180       | 753 151 018 | 1  | 5  | 3.283 | 170       | 107       | 16,4      |

table continued next page



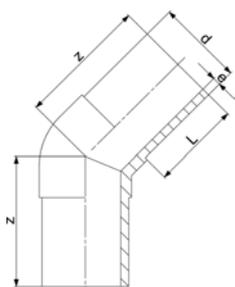
| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 200       | <b>753 151 019</b> | 1  | 3  | 4.371  | 186       | 116       | 18,2      |
| 225       | <b>753 151 020</b> | 1  | 2  | 6.013  | 200       | 123       | 20,5      |
| 250       | <b>753 151 021</b> | 3  | 3  | 8.541  | 220       | 130       | 22,7      |
| 280       | <b>753 150 922</b> | 3  | 2  | 10.924 | 226       | 140       | 25,4      |
| 315       | <b>753 150 923</b> | 2  | 2  | 14.818 | 246       | 150       | 28,6      |

## 53 15 08

### Elbow 45°, PE100 SDR17/17,6



- Long spigot version
- 5 bar Gas / 10 bar Water



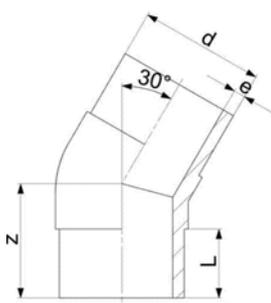
| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 90        | <b>753 150 813</b> | 1  | 20 | 0.450  | 120       | 81        | 5,4       |
| 110       | <b>753 150 814</b> | 1  | 12 | 0.900  | 130       | 86        | 6,6       |
| 125       | <b>753 150 815</b> | 1  | 6  | 1.250  | 140       | 92        | 7,4       |
| 140       | <b>753 150 816</b> | 4  | -  | 1.100  | 164       | 120       | 8,3       |
| 160       | <b>753 150 817</b> | 1  | 6  | 2.390  | 162       | 102       | 9,5       |
| 180       | <b>753 150 818</b> | 1  | 5  | 3.060  | 170       | 107       | 10,7      |
| 200       | <b>753 150 819</b> | 1  | 3  | 4.100  | 186       | 116       | 11,9      |
| 225       | <b>753 150 820</b> | 1  | 2  | 5.610  | 205       | 123       | 13,4      |
| 250       | <b>753 150 821</b> | 3  | 3  | 6.227  | 217       | 130       | 14,8      |
| 280       | <b>753 150 822</b> | 3  | 2  | 7.819  | 230       | 140       | 16,6      |
| 315       | <b>753 150 823</b> | 2  | 2  | 10.596 | 246       | 150       | 18,7      |

## 53 12 09

### Elbow 30°, PE100 SDR11



- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

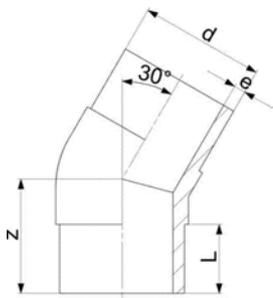


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 32        | <b>753 120 908</b> | 1  | 20 | 0.050  | 70        | 54        | 3,0       |
| 40        | <b>753 120 909</b> | 1  | 40 | 0.530  | 80        | 57        | 3,7       |
| 50        | <b>753 120 910</b> | 1  | 6  | 0.530  | 80        | 63        | 4,6       |
| 63        | <b>753 120 911</b> | 1  | 8  | 0.207  | 80        | 65        | 5,8       |
| 75        | <b>753 120 912</b> | 1  | 10 | 0.530  | 90        | 72        | 6,8       |
| 90        | <b>753 120 913</b> | 10 | 6  | 0.540  | 100       | 81        | 8,2       |
| 110       | <b>753 120 914</b> | 1  | 5  | 0.840  | 105       | 86        | 10,0      |
| 125       | <b>753 120 915</b> | 1  | 6  | 1.240  | 115       | 92        | 11,4      |
| 140       | <b>753 120 916</b> | 2  | 4  | 1.760  | 135       | 92        | 12,7      |
| 160       | <b>753 120 917</b> | 1  | 6  | 2.050  | 130       | 102       | 14,6      |
| 180       | <b>753 120 918</b> | 1  | 5  | 2.907  | 140       | 107       | 16,4      |
| 200       | <b>753 120 919</b> | 1  | 2  | 8.600  | 150       | 116       | 18,2      |
| 225       | <b>753 120 920</b> | 1  | 2  | 5.360  | 165       | 123       | 20,5      |
| 250       | <b>753 120 921</b> | 1  | 2  | 7.300  | 190       | 130       | 22,7      |
| 280       | <b>753 120 922</b> | 1  | 1  | 10.600 | 200       | 139       | 25,4      |
| 315       | <b>753 120 923</b> | 1  | 1  | 10.100 | 200       | 150       | 28,6      |

53 12 08

**Elbow 30°, PE100 SDR17**

- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

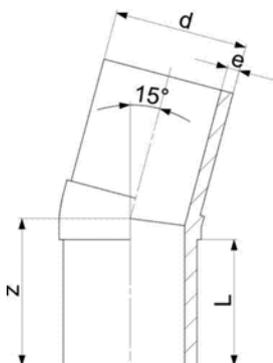


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 90        | <b>753 120 813</b> | 1  | 6  | 0.430  | 110       | 81        | 5,4       |
| 110       | <b>753 120 814</b> | 1  | 5  | 0.620  | 115       | 86        | 6,6       |
| 125       | <b>753 120 815</b> | 1  | 2  | 1.070  | 125       | 92        | 7,4       |
| 140       | <b>753 120 816</b> | 1  | 4  | 1.490  | 150       | 92        | 8,3       |
| 160       | <b>753 120 817</b> | 1  | 6  | 1.600  | 140       | 102       | 9,5       |
| 180       | <b>753 120 818</b> | 1  | 5  | 2.040  | 150       | 107       | 10,7      |
| 200       | <b>753 120 819</b> | 1  | 2  | 2.780  | 160       | 116       | 11,9      |
| 225       | <b>753 120 820</b> | 1  | 2  | 3.880  | 180       | 123       | 13,4      |
| 250       | <b>753 120 821</b> | 1  | 2  | 5.830  | 200       | 130       | 14,8      |
| 280       | <b>753 120 822</b> | 1  | 1  | 8.100  | 200       | 139       | 16,6      |
| 315       | <b>753 120 823</b> | 1  | 1  | 11.200 | 220       | 150       | 18,7      |

53 14 10

**Elbow 15° Type L, PE100 SDR11**

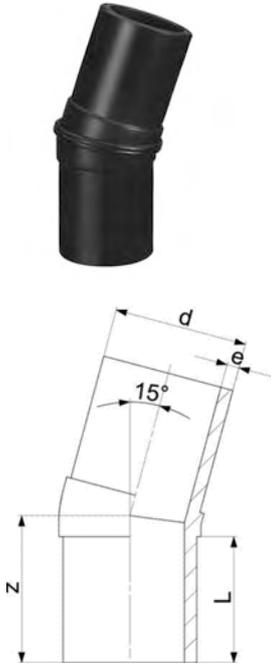
- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design



| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 32        | <b>753 141 008</b> | 1  | 25 | 0.051  | 70        | 54        | 3.0       |
| 40        | <b>753 141 009</b> | 1  | 15 | 0.082  | 80        | 57        | 3.7       |
| 50        | <b>753 141 010</b> | 1  | 20 | 0.137  | 80        | 63        | 4.6       |
| 63        | <b>753 141 011</b> | 1  | 8  | 0.200  | 80        | 65        | 5.8       |
| 75        | <b>753 141 012</b> | 1  | 2  | 0.250  | 90        | 72        | 6.8       |
| 90        | <b>753 141 013</b> | 1  | 5  | 0.487  | 100       | 81        | 8.2       |
| 110       | <b>753 141 014</b> | 1  | 6  | 0.785  | 105       | 86        | 10.0      |
| 125       | <b>753 141 015</b> | 1  | 6  | 1.070  | 115       | 92        | 11.4      |
| 140       | <b>753 141 016</b> | 1  | 6  | 1.600  | 135       | 92        | 12.7      |
| 160       | <b>753 141 017</b> | 1  | 5  | 2.050  | 130       | 102       | 14.6      |
| 180       | <b>753 141 018</b> | 1  | 2  | 2.669  | 140       | 107       | 16.4      |
| 200       | <b>753 141 019</b> | 1  | 3  | 3.440  | 150       | 116       | 18.2      |
| 225       | <b>753 141 020</b> | 1  | 2  | 4.900  | 165       | 123       | 20.5      |
| 250       | <b>753 141 021</b> | 1  | 1  | 8.300  | 190       | 130       | 22.7      |
| 280       | <b>753 141 022</b> | 1  | 1  | 10.600 | 200       | 139       | 25.4      |
| 315       | <b>753 141 023</b> | 1  | 1  | 13.100 | 200       | 150       | 28.6      |

## Elbow 15°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

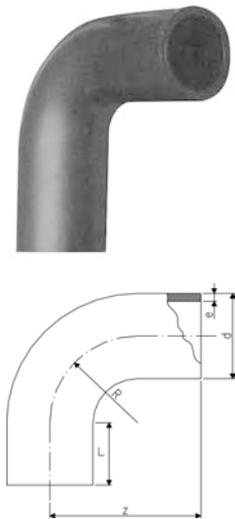


| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|
| 90        | 753 140 813 | 1  | 4  | 0.370  | 100       | 81        | 5.4       |
| 110       | 753 140 814 | 1  | 3  | 0.620  | 105       | 86        | 6.6       |
| 125       | 753 140 815 | 1  | 2  | 0.990  | 115       | 92        | 7.4       |
| 140       | 753 140 816 | 1  | 2  | 0.370  | 135       | 92        | 8.3       |
| 160       | 753 140 817 | 1  | 5  | 1.600  | 130       | 102       | 9.5       |
| 180       | 753 140 818 | 1  | 1  | 2.040  | 140       | 107       | 10.7      |
| 200       | 753 140 819 | 1  | 2  | 2.780  | 150       | 116       | 11.9      |
| 225       | 753 140 820 | 1  | 2  | 4.820  | 165       | 123       | 13.4      |
| 250       | 753 140 821 | 1  | 2  | 5.830  | 190       | 130       | 14.8      |
| 280       | 753 140 822 | 1  | 3  | 8.100  | 195       | 139       | 16.6      |
| 315       | 753 140 823 | 1  | 1  | 11.200 | 200       | 150       | 18.7      |

## 53 00 09

## Bend 90°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- \* made out of seamless pipe

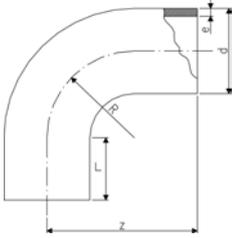


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 20        | 753 001 006 | 50 | 64 | 0.020   | 63        | 41        | 20        | 1,9       |
| 25        | 753 001 007 | 50 | -  | 0.030   | 68        | 41        | 25        | 2,3       |
| 32        | 753 001 008 | 25 | 25 | 0.050   | 78        | 46        | 32        | 2,9       |
| 40        | 753 001 009 | 15 | 15 | 0.090   | 91        | 49        | 40        | 3,7       |
| 50        | 753 001 010 | 40 | -  | 0.160   | 107       | 55        | 50        | 4,6       |
| 63        | 753 001 011 | 50 | -  | 0.290   | 130       | 63        | 63        | 5,8       |
| 75        | 753 001 012 | 32 | 32 | 0.300   | 152       | 70        | 75        | 6,8       |
| 90        | 753 001 013 | 18 | -  | 0.530   | 168       | 79        | 90        | 8,2       |
| 110       | 753 001 014 | 12 | 12 | 0.890   | 193       | 82        | 110       | 10,0      |
| 125       | 753 001 015 | 15 | -  | 1.290   | 216       | 87        | 125       | 11,4      |
| 140       | 753 001 016 | 5  | -  | 2.230   | 232       | 92        | 140       | 12,7      |
| 160       | 753 001 017 | 8  | 8  | 2.460   | 258       | 98        | 160       | 14,6      |
| 180       | 753 001 018 | 6  | -  | 5.000   | 290       | 105       | 180       | 16,4      |
| 200       | 753 001 019 | 4  | -  | 4.480   | 317       | 112       | 200       | 18,2      |
| 225       | 753 001 020 | 2  | -  | 9.770   | 350       | 120       | 225       | 20,5      |
| 250       | 753 001 021 | 2  | -  | 9.230   | 375       | 130       | 250       | 22,7      |
| 280       | 753 001 022 | 1  | -  | 17.410  | 430       | 150       | 280       | 25,4      |
| 315       | 753 001 023 | 1  | -  | 23.950  | 470       | 150       | 315       | 28,6      |
| * 355     | 753 001 024 | -  | -  | 53.300  | 900       | 250       | 533       | 32,3      |
| * 400     | 753 001 025 | -  | -  | 71.900  | 980       | 250       | 600       | 36,4      |
| * 450     | 753 001 026 | -  | -  | 97.300  | 1070      | 250       | 675       | 40,9      |
| * 500     | 753 001 027 | -  | -  | 134.000 | 1200      | 280       | 750       | 45,5      |
| * 560     | 753 001 028 | -  | -  | 179.300 | 1290      | 280       | 840       | 50,9      |
| * 630     | 753 001 029 | -  | -  | 243.200 | 1400      | 280       | 945       | 57,3      |
| * 710     | 753 001 030 | 1  | -  | 469.943 | 2200      | 570       | 1630      | 64,5      |
| * 800     | 753 001 031 | 1  | -  | 577.131 | 2200      | 480       | 1720      | 72,6      |

53 00 08

**Bend 90°, PE100 SDR17**

- Long spigot version
- 5 bar Gas / 10 bar Water
- \* made out of seamless pipe

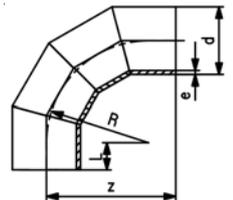


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 90        | 753 000 813 | 18 | 1  | 0.600   | 168       | 79        | 90        | 5,4       |
| 110       | 753 000 814 | 12 | -  | 1.000   | 193       | 82        | 110       | 6,6       |
| 125       | 753 000 815 | 15 | -  | 1.300   | 216       | 87        | 125       | 7,4       |
| 140       | 753 000 816 | 5  | -  | 2.500   | 232       | 92        | 140       | 8,3       |
| 160       | 753 000 817 | 8  | -  | 2.500   | 258       | 98        | 160       | 9,5       |
| 180       | 753 000 818 | 6  | -  | 4.000   | 290       | 105       | 180       | 10,7      |
| 200       | 753 000 819 | 4  | -  | 6.500   | 317       | 112       | 200       | 11,9      |
| 225       | 753 000 820 | 2  | -  | 8.500   | 350       | 120       | 225       | 13,4      |
| 250       | 753 000 821 | 2  | -  | 8.500   | 375       | 130       | 250       | 14,8      |
| 280       | 753 000 822 | 1  | -  | 15.000  | 430       | 150       | 280       | 16,6      |
| 315       | 753 000 823 | 1  | -  | 24.000  | 470       | 150       | 315       | 18,7      |
| * 355     | 753 000 824 | -  | -  | 36.700  | 900       | 250       | 533       | 21,1      |
| * 400     | 753 000 825 | 1  | 1  | 49.700  | 980       | 250       | 600       | 23,7      |
| * 450     | 753 000 826 | -  | -  | 66.600  | 1070      | 250       | 675       | 26,7      |
| * 500     | 753 000 827 | -  | -  | 87.400  | 1200      | 280       | 750       | 29,7      |
| * 560     | 753 000 828 | -  | -  | 116.000 | 1290      | 280       | 840       | 33,2      |
| * 630     | 753 000 829 | -  | -  | 159.600 | 1400      | 280       | 945       | 37,4      |
| * 710     | 753 000 830 | 1  | -  | 317.382 | 2200      | 570       | 1630      | 42,1      |
| * 800     | 753 000 831 | 1  | -  | 389.859 | 2200      | 480       | 1720      | 47,4      |

53 00 08

**Bend 90°, PE100 SDR17****Model:**

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

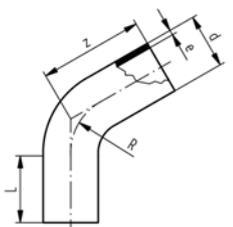


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 710       | 753 002 001 | 1  | -  | 202.419 | 1415      | 350       | 1065      | 42,1      |
| 800       | 753 002 002 | 1  | -  | 279.918 | 1550      | 350       | 1200      | 47,4      |
| 900       | 753 002 003 | 1  | -  | 386.595 | 1700      | 350       | 1350      | 53,3      |
| 1000      | 753 002 004 | 1  | -  | 534.660 | 1900      | 400       | 1500      | 59,3      |

53 07 10

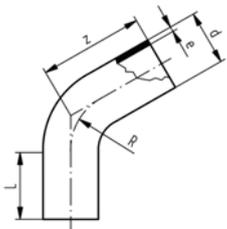
**Bend 60°, PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg    | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|-------|-----------|-----------|-----------|-----------|
| 32        | 753 071 008 | 80 | -  | 0.070 | 128       | 80        | 48        | 2,9       |
| 40        | 753 071 009 | 50 | -  | 0.120 | 135       | 80        | 60        | 3,7       |
| 50        | 753 071 010 | 40 | -  | 0.240 | 158       | 100       | 75        | 4,6       |
| 63        | 753 071 011 | 25 | -  | 0.420 | 173       | 100       | 95        | 5,8       |
| 75        | 753 071 012 | 16 | -  | 0.600 | 182       | 100       | 113       | 6,8       |
| 90        | 753 071 013 | 12 | -  | 0.900 | 193       | 100       | 135       | 8,2       |
| 110       | 753 071 014 | 12 | -  | 1.780 | 270       | 150       | 165       | 10,0      |
| 125       | 753 071 015 | 9  | -  | 2.500 | 283       | 150       | 188       | 11,4      |
| 140       | 753 071 016 | 6  | -  | 2.700 | 296       | 150       | 210       | 12,7      |
| 160       | 753 071 017 | 4  | -  | 4.500 | 313       | 150       | 240       | 14,6      |
| 180       | 753 071 018 | 4  | -  | 4.900 | 330       | 150       | 270       | 16,4      |
| 200       | 753 071 019 | 2  | -  | 6.400 | 348       | 150       | 300       | 18,2      |
| 225       | 753 071 020 | -  | -  | 8.600 | 370       | 150       | 338       | 20,5      |

table continued next page



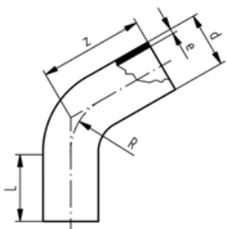
| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 250       | 753 071 021 | -  | -  | 14.500  | 500       | 250       | 375       | 22,7      |
| 280       | 753 071 022 | -  | -  | 19.100  | 530       | 250       | 420       | 25,4      |
| 315       | 753 071 023 | -  | -  | 25.600  | 612       | 250       | 473       | 28,6      |
| 355       | 753 071 024 | -  | -  | 41.700  | 690       | 300       | 533       | 32,3      |
| 400       | 753 071 025 | -  | -  | 55.800  | 730       | 300       | 600       | 36,4      |
| 450       | 753 071 026 | -  | -  | 76.000  | 780       | 300       | 675       | 40,9      |
| 500       | 753 071 027 | -  | -  | 104.600 | 880       | 350       | 750       | 45,5      |
| 560       | 753 071 028 | -  | -  | 139.500 | 930       | 350       | 840       | 50,9      |
| 630       | 753 071 029 | -  | -  | 188.500 | 1000      | 350       | 945       | 57,3      |

### 53 07 08

### Bend 60°, PE100 SDR17/17,6



- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe



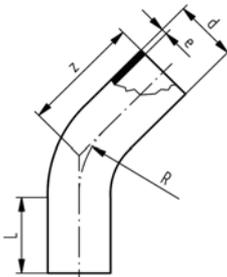
| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 90        | 753 070 813 | 12 | -  | 0.600   | 193       | 100       | 135       | 5,4       |
| 110       | 753 070 814 | 12 | -  | 1.280   | 270       | 150       | 165       | 6,6       |
| 125       | 753 070 815 | 9  | -  | 1.300   | 283       | 150       | 187       | 7,4       |
| 140       | 753 070 816 | 6  | -  | 1.800   | 296       | 150       | 210       | 8,3       |
| 160       | 753 070 817 | 4  | -  | 3.160   | 313       | 150       | 240       | 9,5       |
| 180       | 753 070 818 | 4  | -  | 3.190   | 330       | 150       | 270       | 10,7      |
| 200       | 753 070 819 | 2  | -  | 4.200   | 348       | 150       | 300       | 11,9      |
| 225       | 753 070 820 | -  | -  | 5.600   | 370       | 150       | 337       | 13,4      |
| 250       | 753 070 821 | -  | -  | 9.250   | 500       | 250       | 375       | 14,8      |
| 280       | 753 070 822 | -  | -  | 15.000  | 530       | 250       | 420       | 16,6      |
| 315       | 753 070 823 | -  | -  | 19.500  | 612       | 250       | 472       | 18,7      |
| 355       | 753 070 824 | -  | -  | 30.100  | 690       | 300       | 532       | 21,1      |
| 400       | 753 070 825 | -  | -  | 38.200  | 730       | 300       | 600       | 23,7      |
| 450       | 753 070 826 | -  | -  | 53.700  | 780       | 300       | 675       | 26,7      |
| 500       | 753 070 827 | -  | -  | 73.900  | 880       | 350       | 750       | 29,7      |
| 560       | 753 070 828 | -  | -  | 98.200  | 930       | 350       | 840       | 33,2      |
| 630       | 753 070 829 | -  | -  | 132.300 | 1000      | 350       | 945       | 37,4      |

### 53 05 10

### Bend 45°, PE100 SDR11



- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

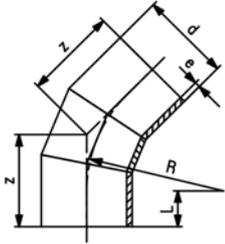


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | 753 051 008 | 80 | -  | 0.077   | 120       | 80        | 48        | 2,9       |
| 40        | 753 051 009 | 50 | -  | 0.120   | 120       | 80        | 60        | 3,7       |
| 50        | 753 051 010 | 40 | -  | 0.240   | 149       | 100       | 75        | 4,6       |
| 63        | 753 051 011 | 25 | -  | 0.360   | 161       | 100       | 95        | 5,8       |
| 75        | 753 051 012 | 16 | -  | 0.560   | 168       | 100       | 113       | 6,8       |
| 90        | 753 051 013 | 15 | -  | 0.760   | 177       | 100       | 135       | 8,2       |
| 110       | 753 051 014 | 8  | -  | 1.700   | 243       | 150       | 165       | 10,0      |
| 125       | 753 051 015 | 15 | -  | 2.300   | 253       | 150       | 188       | 11,4      |
| 140       | 753 051 016 | 9  | -  | 2.800   | 262       | 150       | 210       | 12,7      |
| 160       | 753 051 017 | 6  | -  | 3.800   | 274       | 160       | 240       | 14,6      |
| 180       | 753 051 018 | 4  | -  | 5.140   | 287       | 150       | 270       | 16,4      |
| 200       | 753 051 019 | -  | -  | 5.600   | 299       | 150       | 300       | 18,2      |
| 225       | 753 051 020 | 1  | -  | 7.400   | 315       | 150       | 338       | 20,5      |
| 250       | 753 051 021 | -  | -  | 13.000  | 440       | 250       | 375       | 22,7      |
| 280       | 753 051 022 | -  | -  | 15.000  | 460       | 250       | 420       | 25,4      |
| 315       | 753 051 023 | -  | -  | 24.930  | 535       | 250       | 473       | 28,6      |
| 355       | 753 051 024 | -  | -  | 39.500  | 620       | 300       | 533       | 32,3      |
| 400       | 753 051 025 | -  | -  | 48.500  | 650       | 300       | 600       | 36,4      |
| 450       | 753 051 026 | -  | -  | 69.800  | 680       | 300       | 675       | 40,9      |
| 500       | 753 051 027 | -  | -  | 96.300  | 760       | 350       | 750       | 45,5      |
| 560       | 753 051 028 | -  | -  | 129.800 | 800       | 350       | 840       | 50,9      |
| 630       | 753 051 029 | -  | -  | 174.000 | 870       | 350       | 945       | 57,3      |

53 05 08

**Bend 45°, PE100 SDR17/17,6****Model:**

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

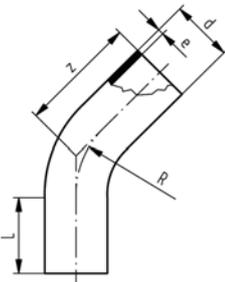


| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 710       | <b>753 003 001</b> | 1  | -  | 129.998 | 792       | 350       | 1065      | 42.1      |
| 800       | <b>753 003 002</b> | 1  | -  | 176.165 | 847       | 350       | 1200      | 47.4      |
| 900       | <b>753 003 003</b> | 1  | -  | 252.638 | 960       | 350       | 1350      | 53.3      |
| 1000      | <b>753 003 004</b> | 1  | -  | 332.107 | 1022      | 400       | 1500      | 59.3      |

53 05 08

**Bend 45°, PE100 SDR17/17,6**

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

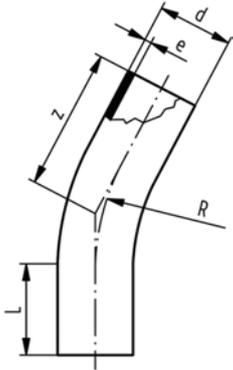


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | <b>753 050 813</b> | 15 | -  | 0.600  | 177       | 100       | 135       | 5,4       |
| 110       | <b>753 050 814</b> | 8  | -  | 1.100  | 243       | 150       | 165       | 6,6       |
| 125       | <b>753 050 815</b> | 15 | -  | 1.200  | 253       | 150       | 188       | 7,4       |
| 140       | <b>753 050 816</b> | 9  | -  | 1.720  | 262       | 150       | 210       | 8,3       |
| 160       | <b>753 050 817</b> | 6  | -  | 2.200  | 274       | 150       | 240       | 9,5       |
| 180       | <b>753 050 818</b> | 4  | -  | 3.000  | 287       | 150       | 270       | 10,7      |
| 200       | <b>753 050 819</b> | 4  | 4  | 3.700  | 299       | 150       | 300       | 11,9      |
| 225       | <b>753 050 820</b> | 1  | -  | 5.000  | 315       | 150       | 338       | 13,4      |
| 250       | <b>753 050 821</b> | -  | -  | 10.000 | 440       | 250       | 375       | 14,8      |
| 280       | <b>753 050 822</b> | -  | -  | 15.000 | 460       | 250       | 420       | 16,6      |
| 315       | <b>753 050 823</b> | -  | -  | 17.800 | 535       | 250       | 473       | 18,7      |
| 355       | <b>753 050 824</b> | -  | -  | 25.600 | 620       | 300       | 533       | 21,1      |
| 400       | <b>753 050 825</b> | 1  | 1  | 36.600 | 650       | 300       | 600       | 23,7      |
| 450       | <b>753 050 826</b> | -  | -  | 45.300 | 680       | 300       | 675       | 26,7      |
| 500       | <b>753 050 827</b> | -  | -  | 62.400 | 760       | 350       | 750       | 29,7      |
| 560       | <b>753 050 828</b> | -  | -  | 81.900 | 800       | 350       | 840       | 33,2      |
| 630       | <b>753 050 829</b> | -  | -  | 62.400 | 870       | 350       | 945       | 37,4      |

53 06 10

**Bend 30°, PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe

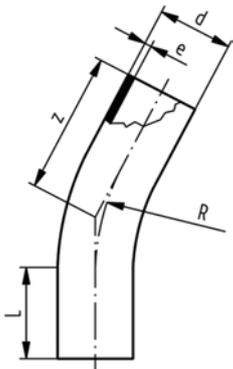


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | 753 061 008 | 80 | -  | 0.077   | 113       | 80        | 48        | 2,9       |
| 40        | 753 061 009 | 80 | -  | 0.120   | 116       | 80        | 60        | 3,7       |
| 50        | 753 061 010 | 80 | -  | 0.200   | 140       | 100       | 75        | 4,6       |
| 63        | 753 061 011 | 40 | -  | 0.400   | 150       | 100       | 95        | 5,8       |
| 75        | 753 061 012 | 25 | -  | 0.520   | 155       | 100       | 113       | 6,8       |
| 90        | 753 061 013 | 20 | -  | 0.760   | 160       | 100       | 135       | 8,2       |
| 110       | 753 061 014 | 9  | -  | 1.500   | 219       | 150       | 165       | 10,0      |
| 125       | 753 061 015 | 6  | -  | 2.000   | 225       | 150       | 188       | 11,4      |
| 140       | 753 061 016 | 5  | -  | 2.200   | 231       | 150       | 210       | 12,7      |
| 160       | 753 061 017 | 8  | -  | 3.300   | 239       | 150       | 240       | 14,6      |
| 180       | 753 061 018 | 6  | -  | 3.700   | 247       | 150       | 270       | 16,4      |
| 200       | 753 061 019 | 4  | -  | 4.750   | 255       | 150       | 300       | 18,2      |
| 225       | 753 061 020 | 2  | -  | 6.300   | 266       | 150       | 338       | 20,5      |
| 250       | 753 061 021 | -  | -  | 13.100  | 385       | 250       | 375       | 22,7      |
| 280       | 753 061 022 | -  | -  | 16.300  | 400       | 250       | 420       | 25,4      |
| 315       | 753 061 023 | -  | -  | 21.850  | 460       | 250       | 473       | 28,6      |
| 355       | 753 061 024 | -  | -  | 34.900  | 540       | 300       | 533       | 32,3      |
| 400       | 753 061 025 | -  | -  | 45.900  | 560       | 300       | 600       | 36,4      |
| 450       | 753 061 026 | -  | -  | 60.200  | 580       | 300       | 675       | 40,9      |
| 500       | 753 061 027 | -  | -  | 83.300  | 630       | 350       | 750       | 45,5      |
| 560       | 753 061 028 | -  | -  | 108.600 | 680       | 350       | 840       | 50,9      |
| 630       | 753 061 029 | -  | -  | 148.300 | 730       | 350       | 945       | 57,3      |

53 06 08

**Bend 30°, PE100 SDR17**

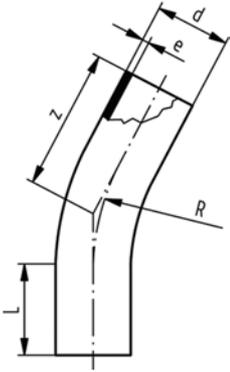
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | 753 060 813 | 20 | -  | 0.500  | 160       | 100       | 135       | 5,4       |
| 110       | 753 060 814 | 9  | -  | 1.060  | 219       | 150       | 165       | 6,6       |
| 125       | 753 060 815 | 6  | -  | 1.100  | 225       | 150       | 188       | 7,4       |
| 140       | 753 060 816 | 5  | -  | 1.720  | 231       | 150       | 210       | 8,3       |
| 160       | 753 060 817 | 8  | -  | 1.900  | 239       | 150       | 240       | 9,5       |
| 180       | 753 060 818 | 6  | -  | 2.500  | 247       | 150       | 270       | 10,7      |
| 200       | 753 060 819 | 4  | -  | 3.200  | 255       | 150       | 300       | 11,9      |
| 225       | 753 060 820 | 2  | -  | 7.540  | 266       | 150       | 338       | 13,4      |
| 250       | 753 060 821 | -  | -  | 11.600 | 385       | 250       | 375       | 14,8      |
| 280       | 753 060 822 | -  | -  | 12.800 | 400       | 250       | 420       | 16,6      |
| 315       | 753 060 823 | 1  | 1  | 25.000 | 460       | 250       | 473       | 18,7      |
| 355       | 753 060 824 | -  | -  | 22.700 | 540       | 300       | 533       | 21,1      |
| 400       | 753 060 825 | -  | -  | 29.800 | 560       | 300       | 600       | 23,7      |
| 450       | 753 060 826 | -  | -  | 39.100 | 580       | 300       | 675       | 26,7      |
| 500       | 753 060 827 | -  | -  | 54.000 | 650       | 350       | 750       | 29,7      |
| 560       | 753 060 828 | -  | -  | 70.300 | 680       | 350       | 840       | 33,2      |
| 630       | 753 060 829 | -  | -  | 95.800 | 730       | 350       | 945       | 37,4      |

## Bend 22°, PE100 SDR11

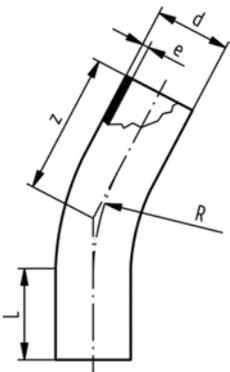
- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | <b>753 081 008</b> | 80 | -  | 0.077   | 113       | 80        | 48        | 2,9       |
| 40        | <b>753 081 009</b> | 80 | -  | 0.120   | 116       | 80        | 60        | 3,7       |
| 50        | <b>753 081 010</b> | 60 | -  | 0.200   | 140       | 100       | 75        | 4,6       |
| 63        | <b>753 081 011</b> | 40 | -  | 0.400   | 150       | 100       | 95        | 5,8       |
| 75        | <b>753 081 012</b> | 25 | -  | 0.520   | 155       | 100       | 113       | 6,8       |
| 90        | <b>753 081 013</b> | 20 | -  | 0.760   | 160       | 100       | 135       | 8,2       |
| 110       | <b>753 081 014</b> | 9  | -  | 1.500   | 219       | 150       | 165       | 10,0      |
| 125       | <b>753 081 015</b> | 6  | -  | 2.000   | 225       | 150       | 188       | 11,4      |
| 140       | <b>753 081 016</b> | 5  | -  | 2.200   | 231       | 150       | 210       | 12,7      |
| 160       | <b>753 081 017</b> | 8  | -  | 3.300   | 239       | 150       | 240       | 14,6      |
| 180       | <b>753 081 018</b> | 7  | -  | 3.700   | 247       | 150       | 270       | 16,4      |
| 200       | <b>753 081 019</b> | 4  | -  | 4.750   | 255       | 150       | 300       | 18,2      |
| 225       | <b>753 081 020</b> | 2  | 5  | 6.300   | 266       | 150       | 338       | 20,5      |
| 250       | <b>753 081 021</b> | -  | -  | 13.100  | 385       | 250       | 375       | 22,7      |
| 280       | <b>753 081 022</b> | -  | -  | 16.300  | 400       | 250       | 420       | 25,4      |
| 315       | <b>753 081 023</b> | -  | -  | 21.845  | 460       | 250       | 473       | 28,6      |
| 355       | <b>753 081 024</b> | -  | -  | 34.900  | 540       | 300       | 533       | 32,3      |
| 400       | <b>753 081 025</b> | -  | -  | 45.900  | 560       | 300       | 600       | 36,4      |
| 450       | <b>753 081 026</b> | -  | -  | 60.200  | 580       | 300       | 675       | 40,9      |
| 500       | <b>753 081 027</b> | -  | -  | 83.300  | 650       | 350       | 750       | 45,5      |
| 560       | <b>753 081 028</b> | -  | -  | 108.600 | 680       | 350       | 840       | 50,9      |
| 630       | <b>753 081 029</b> | -  | -  | 148.300 | 730       | 350       | 945       | 57,3      |

## Bend 22°, PE100 SDR17/17,6

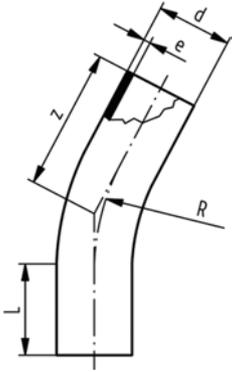
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | <b>753 080 813</b> | 20 | -  | 0.500  | 160       | 100       | 135       | 5.4       |
| 110       | <b>753 080 814</b> | 9  | -  | 1.060  | 219       | 150       | 165       | 6.6       |
| 125       | <b>753 080 815</b> | 6  | -  | 1.100  | 225       | 150       | 188       | 7.4       |
| 140       | <b>753 080 816</b> | 5  | -  | 1.720  | 231       | 150       | 210       | 8.3       |
| 160       | <b>753 080 817</b> | 8  | -  | 1.900  | 239       | 150       | 240       | 9.5       |
| 180       | <b>753 080 818</b> | 7  | -  | 2.500  | 247       | 150       | 270       | 10.7      |
| 200       | <b>753 080 819</b> | 4  | -  | 3.200  | 255       | 150       | 300       | 11.9      |
| 225       | <b>753 080 820</b> | 2  | -  | 7.540  | 266       | 150       | 338       | 13.4      |
| 250       | <b>753 080 821</b> | -  | -  | 11.600 | 385       | 250       | 375       | 14.8      |
| 280       | <b>753 080 822</b> | -  | -  | 12.800 | 400       | 250       | 420       | 16.6      |
| 315       | <b>753 080 823</b> | -  | -  | 25.000 | 460       | 250       | 473       | 18.7      |
| 355       | <b>753 080 824</b> | -  | -  | 22.700 | 540       | 300       | 533       | 21.1      |
| 400       | <b>753 080 825</b> | -  | -  | 29.800 | 560       | 300       | 600       | 23.7      |
| 450       | <b>753 080 826</b> | -  | -  | 39.100 | 580       | 300       | 675       | 26.7      |
| 500       | <b>753 080 827</b> | -  | -  | 54.000 | 650       | 350       | 750       | 29.7      |
| 560       | <b>753 080 828</b> | -  | -  | 70.300 | 680       | 350       | 840       | 33.2      |
| 630       | <b>753 080 829</b> | -  | -  | 95.800 | 730       | 350       | 945       | 37.4      |

## Bend 11°, PE100 SDR11

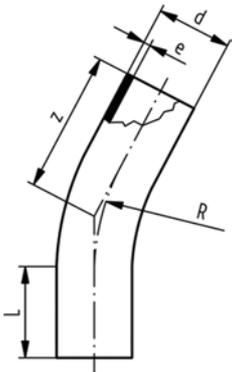
- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | 753 091 008 | 80 | -  | 0.077   | 113       | 80        | 48        | 2.9       |
| 40        | 753 091 009 | 80 | -  | 0.120   | 116       | 80        | 60        | 3.7       |
| 50        | 753 091 010 | 60 | -  | 0.200   | 140       | 100       | 75        | 4.6       |
| 63        | 753 091 011 | 40 | -  | 0.400   | 150       | 100       | 95        | 5.8       |
| 75        | 753 091 012 | 25 | -  | 0.520   | 155       | 100       | 113       | 6.8       |
| 90        | 753 091 013 | 20 | -  | 0.760   | 160       | 100       | 135       | 8.2       |
| 110       | 753 091 014 | 9  | -  | 1.500   | 219       | 150       | 165       | 10.0      |
| 125       | 753 091 015 | 6  | -  | 2.000   | 225       | 150       | 188       | 11.4      |
| 140       | 753 091 016 | 5  | -  | 2.200   | 231       | 150       | 210       | 12.7      |
| 160       | 753 091 017 | 8  | -  | 3.300   | 239       | 150       | 240       | 14.6      |
| 180       | 753 091 018 | 7  | -  | 3.700   | 247       | 150       | 270       | 16.4      |
| 200       | 753 091 019 | 4  | -  | 4.750   | 255       | 150       | 300       | 18.2      |
| 225       | 753 091 020 | 2  | -  | 6.300   | 266       | 150       | 338       | 20.5      |
| 250       | 753 091 021 | -  | -  | 13.100  | 385       | 250       | 375       | 22.7      |
| 280       | 753 091 022 | -  | -  | 16.300  | 400       | 250       | 420       | 25.4      |
| 315       | 753 091 023 | -  | -  | 21.845  | 460       | 250       | 473       | 28.6      |
| 355       | 753 091 024 | -  | -  | 34.900  | 540       | 300       | 533       | 32.3      |
| 400       | 753 091 025 | -  | -  | 45.900  | 560       | 300       | 600       | 36.4      |
| 450       | 753 091 026 | -  | -  | 60.200  | 580       | 300       | 675       | 40.9      |
| 500       | 753 091 027 | -  | -  | 83.300  | 650       | 350       | 750       | 45.5      |
| 560       | 753 091 028 | -  | -  | 108.600 | 680       | 350       | 840       | 50.9      |
| 630       | 753 091 029 | -  | -  | 148.300 | 730       | 350       | 945       | 57.3      |

## Bend 11°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

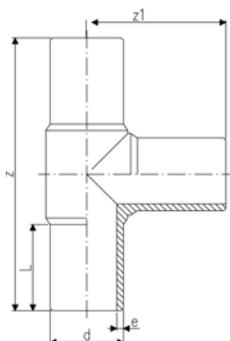


| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | 753 090 813 | 20 | -  | 0.500  | 160       | 100       | 135       | 5.4       |
| 110       | 753 090 814 | 9  | -  | 1.060  | 219       | 150       | 165       | 6.6       |
| 125       | 753 090 815 | 6  | -  | 1.100  | 225       | 150       | 188       | 7.4       |
| 140       | 753 090 816 | 5  | -  | 1.720  | 231       | 150       | 210       | 8.3       |
| 160       | 753 090 817 | 8  | -  | 1.900  | 239       | 150       | 240       | 9.5       |
| 180       | 753 090 818 | 7  | -  | 2.500  | 247       | 150       | 270       | 10.7      |
| 200       | 753 090 819 | 4  | -  | 3.200  | 255       | 150       | 300       | 11.9      |
| 225       | 753 090 820 | 2  | -  | 7.540  | 266       | 150       | 338       | 13.4      |
| 250       | 753 090 821 | -  | -  | 11.600 | 385       | 250       | 375       | 14.8      |
| 280       | 753 090 822 | -  | -  | 12.800 | 400       | 250       | 420       | 16.6      |
| 315       | 753 090 823 | -  | -  | 25.000 | 460       | 250       | 473       | 18.7      |
| 355       | 753 090 824 | -  | -  | 22.700 | 540       | 300       | 533       | 21.1      |
| 400       | 753 090 825 | -  | -  | 29.800 | 560       | 300       | 600       | 23.7      |
| 450       | 753 090 826 | -  | -  | 39.100 | 580       | 300       | 675       | 26.7      |
| 500       | 753 090 827 | -  | -  | 54.000 | 650       | 350       | 750       | 29.7      |
| 560       | 753 090 828 | -  | -  | 70.300 | 680       | 350       | 840       | 33.2      |
| 630       | 753 090 829 | -  | -  | 95.800 | 730       | 350       | 945       | 37.4      |

53 20 10

**Tee 90°, equal PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water
- \* With welded pipes
- \* Segment welded and reinforced
- \* No pressure reduction factor

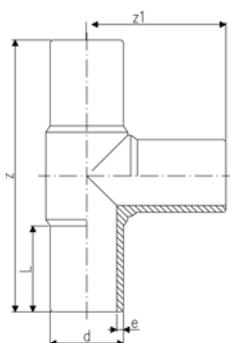


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|------------|-----------|-----------|
| 20        | 753 201 006 | 1  | 30 | 0.038   | 150       | 75         | 52        | 3,0       |
| 25        | 753 201 007 | 1  | 25 | 0.054   | 160       | 80         | 52        | 3,0       |
| 32        | 753 201 008 | 1  | 20 | 0.074   | 170       | 85         | 54        | 3,0       |
| 40        | 753 201 009 | 1  | 80 | 0.127   | 190       | 95         | 57        | 3,7       |
| 50        | 753 201 010 | 1  | 20 | 0.217   | 210       | 105        | 63        | 4,6       |
| 63        | 753 201 011 | 1  | 25 | 0.375   | 230       | 115        | 65        | 5,8       |
| 75        | 753 201 012 | 1  | 16 | 0.616   | 264       | 132        | 72        | 6,8       |
| 90        | 753 201 013 | 1  | 7  | 1.031   | 300       | 150        | 81        | 8,2       |
| 110       | 753 201 014 | 1  | 7  | 1.660   | 330       | 165        | 86        | 10,0      |
| 125       | 753 201 015 | 1  | 4  | 2.215   | 366       | 183        | 92        | 11,4      |
| 140       | 753 201 016 | 1  | 4  | 3.200   | 393       | 193        | 92        | 12,7      |
| 160       | 753 201 017 | 1  | 4  | 4.320   | 420       | 210        | 102       | 14,6      |
| 180       | 753 201 018 | 1  | 3  | 5.980   | 460       | 230        | 107       | 16,4      |
| 200       | 753 201 019 | 1  | 2  | 7.760   | 500       | 250        | 117       | 18,2      |
| 225       | 753 201 020 | 1  | 1  | 10.485  | 540       | 270        | 122       | 20,5      |
| 250       | 753 201 001 | 2  | 2  | 14.708  | 575       | 288        | 130       | 22,7      |
| 280       | 753 200 902 | 1  | -  | 18.670  | 615       | 308        | 139       | 25,4      |
| 315       | 753 200 903 | 1  | -  | 26.150  | 695       | 346        | 150       | 28,6      |
| 355       | 753 200 904 | -  | -  | 39.800  | 818       | 410        | 165       | 32,3      |
| 400       | 753 200 905 | -  | -  | 42.495  | 910       | 455        | 180       | 36,4      |
| 450       | 753 200 906 | -  | -  | 77.300  | 970       | 485        | 195       | 40,9      |
| 500       | 753 200 907 | -  | -  | 101.000 | 1060      | 530        | 215       | 45,5      |
| * 560     | 753 200 908 | -  | -  | 153.300 | 1510      | 755        | 230       | 50,9      |
| * 630     | 753 200 909 | -  | -  | 205.500 | 1630      | 815        | 250       | 57,3      |
| ☉ * 710   | 753 201 120 | 1  | 1  | 318.698 | 1720      | 860        | 450       | 64,5      |
| ☉ * 800   | 753 201 121 | 1  | 1  | 409.142 | 1780      | 890        | 450       | 72,6      |

53 20 08

**Tee 90°, equal PE100 SDR17/17,6**

- Long spigot version
- 5 bar Gas / 10 bar Water
- \* Segment welded and reinforced
- \* With welded pipes
- \* No pressure reduction factor

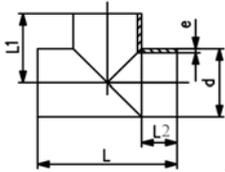


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|------------|-----------|-----------|
| 90        | 753 200 813 | 1  | 7  | 0.780   | 300       | 150        | 80        | 5,4       |
| 110       | 753 200 814 | 1  | 7  | 1.440   | 330       | 165        | 86        | 6,6       |
| 125       | 753 200 815 | 1  | 4  | 1.646   | 366       | 183        | 92        | 7,4       |
| 140       | 753 200 816 | 1  | 4  | 2.120   | 396       | 196        | 92        | 8,3       |
| 160       | 753 200 817 | 1  | 4  | 3.970   | 428       | 214        | 104       | 9,5       |
| 180       | 753 200 818 | 1  | 3  | 5.450   | 460       | 230        | 105       | 10,7      |
| 200       | 753 200 819 | 1  | 2  | 5.910   | 500       | 250        | 115       | 11,9      |
| 225       | 753 200 820 | 1  | 1  | 8.240   | 540       | 270        | 122       | 13,4      |
| 250       | 753 200 821 | 2  | 2  | 10.793  | 575       | 288        | 130       | 14,8      |
| 280       | 753 200 802 | 1  | 2  | 13.810  | 615       | 308        | 139       | 16,6      |
| 315       | 753 200 803 | 1  | -  | 18.155  | 695       | 346        | 150       | 18,7      |
| 355       | 753 200 804 | -  | -  | 25.850  | 818       | 410        | 165       | 21,1      |
| 400       | 753 200 805 | -  | -  | 35.015  | 910       | 455        | 180       | 23,7      |
| 450       | 753 200 806 | -  | -  | 56.000  | 970       | 485        | 195       | 26,7      |
| 500       | 753 200 807 | -  | -  | 71.000  | 1060      | 530        | 215       | 29,7      |
| * 560     | 753 200 808 | -  | -  | 99.200  | 1510      | 755        | 230       | 33,2      |
| * 630     | 753 200 809 | -  | -  | 132.700 | 1630      | 815        | 250       | 37,4      |
| ☉ * 710   | 753 201 920 | 1  | 1  | 219.870 | 1720      | 860        | 450       | 42,1      |
| ☉ * 800   | 753 201 921 | 1  | 1  | 281.495 | 1780      | 890        | 450       | 47,4      |

53 20 08

**Tee 90° equal, PE100 SDR17/17,6****Model:**

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Does not conform to pressure rating. Pressure reduction factor of 0.5
- 5 bar water

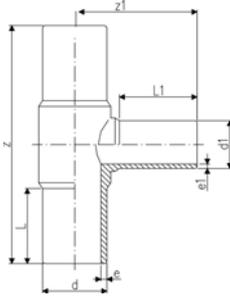


| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|-----------|-----------|
| 710       | <b>753 202 810</b> | 1  | -  | 158.180 | 1410      | 705        | 350       | 42.1      |
| 800       | <b>753 202 811</b> | 1  | -  | 210.302 | 1500      | 750        | 350       | 47.4      |
| 900       | <b>753 202 812</b> | 1  | -  | 302.118 | 1700      | 850        | 400       | 53.3      |
| 1000      | <b>753 202 813</b> | 1  | -  | 457.054 | 2040      | 1020       | 520       | 59.3      |

53 20 10

**Tee 90°, reduced LS moulded**

- Long spigot version
- 10 bar Gas / 16 bar Water

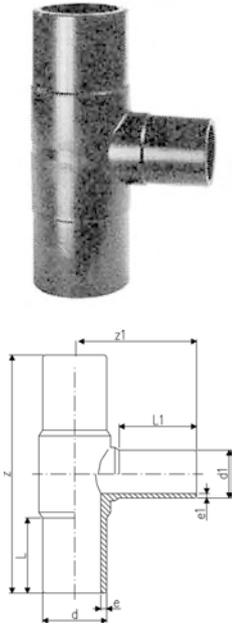


| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 63        | 50         | <b>753 201 044</b> | 1  | 10 | 0.300  | 215       | 103        | 63        | 56         | 5.8       | 4.6        |
| 75        | 32         | <b>753 201 045</b> | 1  | 10 | 0.490  | 256       | 108        | 70        | 46         | 6.8       | 2.9        |
| 75        | 50         | <b>753 201 046</b> | 1  | 10 | 0.530  | 253       | 113        | 70        | 56         | 6.8       | 4.6        |
| 75        | 63         | <b>753 201 047</b> | 1  | 10 | 0.560  | 255       | 117        | 70        | 63         | 6.8       | 5.8        |
| 90        | 50         | <b>753 201 027</b> | 15 | 1  | 0.820  | 280       | 117        | 79        | 55         | 8.2       | 4.6        |
| 90        | 63         | <b>753 201 029</b> | 15 | 1  | 0.775  | 280       | 123        | 79        | 63         | 8.2       | 5.8        |
| 90        | 75         | <b>753 201 030</b> | 1  | 3  | 0.793  | 272       | 138        | 73        | 68         | 8.2       | 6.8        |
| 110       | 63         | <b>753 201 028</b> | 10 | 1  | 1.267  | 320       | 147        | 87        | 63         | 10.0      | 5.8        |
| 110       | 75         | <b>753 201 031</b> | 1  | 2  | 1.244  | 309       | 151        | 82        | 70         | 10.0      | 6.8        |
| 110       | 90         | <b>753 201 032</b> | 10 | 1  | 1.275  | 320       | 158        | 86        | 79         | 10.0      | 8.2        |
| 125       | 90         | <b>753 201 048</b> | 1  | 3  | 2.389  | 340       | 170        | 112       | 92         | 11.4      | 8.2        |
| 125       | 110        | <b>753 201 033</b> | 1  | 3  | 1.860  | 341       | 170        | 90        | 83         | 11.4      | 10.0       |
| 160       | 63         | <b>753 201 034</b> | 8  | 1  | 2.680  | 343       | 176        | 98        | 65         | 14.6      | 5.8        |
| 160       | 75         | <b>753 201 035</b> | 1  | 3  | 2.726  | 343       | 180        | 98        | 74         | 14.6      | 6.8        |
| 160       | 90         | <b>753 201 036</b> | 8  | 1  | 2.775  | 412       | 188        | 101       | 79         | 14.6      | 8.2        |
| 160       | 110        | <b>753 201 037</b> | 8  | 1  | 3.300  | 412       | 195        | 101       | 82         | 14.6      | 10.0       |
| 180       | 90         | <b>753 201 049</b> | 1  | 1  | 4.100  | 420       | 200        | 136       | 97         | 16.4      | 8.2        |
| 180       | 110        | <b>753 201 050</b> | 2  | 1  | 4.379  | 430       | 206        | 130       | 101        | 16.4      | 10.0       |
| 180       | 160        | <b>753 201 038</b> | 1  | 1  | 4.379  | 411       | 205        | 105       | 94         | 16.4      | 14.6       |
| 200       | 63         | <b>753 201 073</b> | 1  | 1  | 7.300  | 500       | 190        | 122       | 63         | 18.2      | 5.8        |
| 200       | 90         | <b>753 201 074</b> | 4  | 1  | 9.730  | 500       | 207        | 122       | 79         | 18.2      | 8.2        |
| 200       | 110        | <b>753 201 075</b> | 4  | 1  | 9.730  | 500       | 215        | 122       | 82         | 18.2      | 10.0       |
| 200       | 160        | <b>753 201 076</b> | 4  | 1  | 9.730  | 500       | 234        | 122       | 98         | 18.2      | 14.6       |
| 225       | 75         | <b>753 201 039</b> | 3  | 1  | 6.500  | 555       | 215        | 120       | 70         | 20.5      | 6.8        |
| 225       | 90         | <b>753 201 040</b> | 3  | 3  | 6.633  | 558       | 226        | 120       | 80         | 20.5      | 8.2        |
| 225       | 110        | <b>753 201 041</b> | 3  | 3  | 6.600  | 558       | 235        | 120       | 82         | 20.5      | 10.0       |
| 225       | 160        | <b>753 201 042</b> | 3  | 3  | 8.095  | 560       | 253        | 120       | 98         | 20.5      | 14.6       |
| 225       | 180        | <b>753 201 043</b> | 3  | 1  | 9.375  | 560       | 280        | 120       | 105        | 20.5      | 16.4       |
| 250       | 110        | <b>753 201 078</b> | 1  | 1  | 9.730  | 575       | 242        | 130       | 82         | 22.7      | 10.0       |
| 250       | 160        | <b>753 201 079</b> | 1  | 1  | 9.730  | 575       | 261        | 127       | 98         | 22.7      | 14.6       |
| 315       | 110        | <b>753 201 051</b> | 1  | 1  | 15.300 | 695       | 277        | 150       | 82         | 28.6      | 10.0       |
| 315       | 160        | <b>753 201 052</b> | 1  | 1  | 16.600 | 695       | 296        | 150       | 102        | 28.6      | 14.6       |
| 315       | 225        | <b>753 201 053</b> | 1  | 1  | 20.500 | 650       | 335        | 170       | 145        | 28.6      | 20.5       |
| 315       | 250        | <b>753 201 054</b> | 1  | 1  | 22.000 | 695       | 325        | 150       | 130        | 28.6      | 22.7       |

53 20 08

**Tee 90°, reduced LS moulded**

- Long spigot version
- 5 bar Gas / 10 bar Water

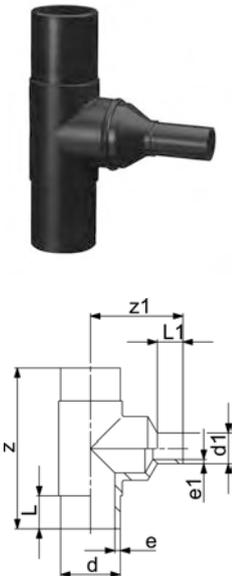


| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] | e1<br>[mm] |
|-----------|------------|-------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|------------|
| 90        | 50         | 753 201 827 | 15 | 1  | 0.630  | 275       | 117        | 79        | 55         | 5.4       | 3,0        | 3,0        |
| 90        | 63         | 753 200 829 | 15 | -  | 0.560  | 275       | 123        | 79        | 63         | 5.4       | 3,8        | 3,8        |
| 90        | 75         | 753 200 830 | 6  | 6  | 0.593  | 272       | 139        | 74        | 71         | 5.4       | 4,5        | 4,5        |
| 110       | 63         | 753 200 828 | 10 | -  | 0.900  | 318       | 147        | 82        | 63         | 6.6       | 3,8        | 3,8        |
| 110       | 75         | 753 200 831 | 1  | 2  | 0.882  | 315       | 152        | 84        | 70         | 6.6       | 4,5        | 4,5        |
| 110       | 90         | 753 200 832 | 10 | -  | 0.941  | 318       | 158        | 82        | 79         | 6.6       | 5,4        | 5,4        |
| 125       | 110        | 753 200 833 | 1  | 1  | 1.282  | 334       | 168        | 84        | 83         | 7.4       | 6,6        | 6,6        |
| 160       | 63         | 753 200 834 | 8  | 8  | 1.950  | 330       | 130        | 86        | 63         | 9.5       | 3,8        | 3,8        |
| 160       | 75         | 753 200 835 | 2  | -  | 1.960  | 343       | 180        | 98        | 74         | 9.5       | 4,5        | 4,5        |
| 160       | 90         | 753 200 836 | 8  | -  | 1.972  | 410       | 188        | 98        | 79         | 9.5       | 5,4        | 5,4        |
| 160       | 110        | 753 200 837 | 8  | 8  | 2.414  | 410       | 195        | 98        | 82         | 9.5       | 6,6        | 6,6        |
| 180       | 90         | 753 200 844 | 1  | 1  | 3.218  | 422       | 204        | 134       | 97         | 10.7      | 5,4        | 5,4        |
| 180       | 160        | 753 200 838 | 1  | 1  | 5.890  | 411       | 205        | 105       | 94         | 10.7      | 9,5        | 9,5        |
| 200       | 63         | 753 201 873 | 1  | 1  | 6.800  | 500       | 190        | 122       | 63         | 11.9      | 3,8        | 3,8        |
| 200       | 90         | 753 201 874 | 1  | 1  | 6.900  | 500       | 207        | 122       | 79         | 11.9      | 5,4        | 5,4        |
| 200       | 110        | 753 201 875 | 1  | 1  | 7.200  | 500       | 215        | 122       | 82         | 11.9      | 6,6        | 6,6        |
| 200       | 160        | 753 201 876 | 1  | 1  | 7.400  | 500       | 234        | 122       | 98         | 11.9      | 9,5        | 9,5        |
| 225       | 75         | 753 200 839 | 3  | -  | 4.600  | 555       | 277        | 120       | 70         | 13.4      | 4,5        | 4,5        |
| 225       | 90         | 753 200 840 | 3  | -  | 4.732  | 555       | 226        | 127       | 80         | 13.4      | 5,4        | 5,4        |
| 225       | 110        | 753 200 841 | 3  | -  | 4.700  | 555       | 235        | 127       | 82         | 13.4      | 6,6        | 6,6        |
| 225       | 160        | 753 200 842 | 3  | -  | 5.922  | 555       | 253        | 127       | 98         | 13.4      | 9,5        | 9,5        |
| 225       | 180        | 753 200 843 | 3  | -  | 7.211  | 550       | 280        | 120       | 105        | 13.4      | 10,7       | 10,7       |
| 250       | 110        | 753 201 878 | 1  | 1  | 9.400  | 575       | 242        | 130       | 82         | 14.8      | 6,6        | 6,6        |
| 250       | 160        | 753 201 879 | 1  | 1  | 9.800  | 575       | 261        | 130       | 98         | 14.8      | 9,5        | 9,5        |
| 315       | 110        | 753 200 851 | 1  | 1  | 10.800 | 695       | 277        | 150       | 82         | 18.7      | 6,6        | 6,6        |
| 315       | 160        | 753 200 852 | 1  | -  | 12.200 | 695       | 296        | 150       | 102        | 18.7      | 9,5        | 9,5        |
| 315       | 225        | 753 200 853 | -  | -  | 14.500 | 650       | 335        | 170       | 145        | 18.7      | 13,4       | 13,4       |
| 315       | 250        | 753 200 854 | 1  | -  | 15.500 | 695       | 325        | 150       | 130        | 18.7      | 14,8       | 14,8       |

53 20 10

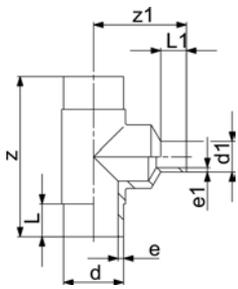
**Tee 90°, reduced LS with welded reducer**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water



| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|-------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 25        | 20         | 753 201 002 | 20 | 20 | 0.053  | 160       |            | 52        | 52         | 3,0       | 3,0        |
| 32        | 20         | 753 201 003 | 1  | 10 | 0.094  | 170       | 105        | 54        | 52         | 3,0       | 3,0        |
| 32        | 25         | 753 201 004 | 1  | 25 | 0.098  | 170       | 110        | 54        | 52         | 3,0       | 3,0        |
| 40        | 20         | 753 201 005 | 1  | 30 | 0.155  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 40        | 25         | 753 201 069 | 1  | 30 | 0.160  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 40        | 32         | 753 201 070 | 1  | 6  | 0.160  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 50        | 20         | 753 201 072 | 1  | 20 | 0.252  | 210       | 140        | 63        | 52         | 4,6       | 3,0        |
| 50        | 25         | 753 201 077 | 1  | 10 | 0.260  | 210       | 130        | 63        | 52         | 4,6       | 3,0        |
| 50        | 32         | 753 201 080 | 1  | 20 | 0.267  | 210       | 130        | 63        | 53         | 4,6       | 3,0        |
| 50        | 40         | 753 201 081 | 1  | 10 | 0.276  | 210       | 130        | 63        | 57         | 4,6       | 3,7        |
| 63        | 32         | 753 201 082 | 1  | 6  | 0.460  | 230       | 140        | 65        | 53         | 5,8       | 3,0        |
| 63        | 40         | 753 201 116 | 1  | 12 | 0.480  | 230       | 145        | 65        | 57         | 5,8       | 3,7        |
| 75        | 40         | 753 201 084 | 1  | 4  | 0.755  | 264       | 180        | 72        | 57         | 6,8       | 3,7        |
| 125       | 63         | 753 201 085 | 1  | 8  | 2.850  | 366       | 225        | 92        | 61         | 11,4      | 5,8        |
| 125       | 75         | 753 201 086 | 1  | 8  | 2.880  | 366       | 235        | 92        | 72         | 11,4      | 6,8        |
| 140       | 75         | 753 201 087 | 1  | 4  | 4.050  | 396       | 230        | 92        | 70         | 12,7      | 6,8        |
| 140       | 90         | 753 201 089 | 1  | 4  | 4.095  | 396       | 235        | 92        | 79         | 12,7      | 8,2        |
| 140       | 110        | 753 201 090 | 1  | 4  | 3.600  | 396       | 240        | 92        | 82         | 12,7      | 10,0       |
| 140       | 125        | 753 201 091 | 1  | 2  | 4.170  | 396       | 240        | 92        | 90         | 12,7      | 11,4       |
| 160       | 125        | 753 201 092 | 1  | 4  | 5.715  | 420       | 265        | 102       | 92         | 14,6      | 11,4       |
| 160       | 140        | 753 201 093 | 1  | 4  | 5.895  | 420       | 270        | 102       | 96         | 14,6      | 12,7       |
| 180       | 125        | 753 201 094 | 1  | 2  | 8.930  | 460       | 285        | 107       | 92         | 16,4      | 11,4       |
| 180       | 140        | 753 201 095 | 1  | 1  | 9.070  | 460       | 295        | 107       | 110        | 16,4      | 12,7       |
| 200       | 125        | 753 201 096 | 1  | 1  | 10.460 | 500       | 295        | 117       | 92         | 18,2      | 11,4       |
| 200       | 140        | 753 201 097 | 1  | 1  | 10.570 | 500       | 310        | 117       | 110        | 18,2      | 12,7       |
| 200       | 180        | 753 201 098 | 1  | 1  | 10.900 | 500       | 310        | 117       | 110        | 18,2      | 16,4       |

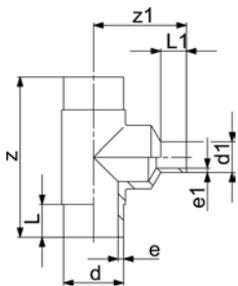
table continued next page



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 225       | 125        | <b>753 201 099</b> | 1  | 1  | 14.470 | 540       | 320        | 122       | 92         | 20,5      | 11,4       |
| 225       | 140        | <b>753 201 100</b> | 1  | 1  | 14.574 | 540       | 335        | 122       | 110        | 20,5      | 12,7       |
| 225       | 200        | <b>753 201 101</b> | 1  | 1  | 14.925 | 540       | 340        | 122       | 117        | 20,5      | 18,2       |
| 250       | 180        | <b>753 201 102</b> | 1  | 1  | 18.890 | 576       | 350        | 130       | 105        | 22,7      | 16,4       |
| 250       | 200        | <b>753 201 103</b> | 1  | 1  | 19.220 | 576       | 360        | 130       | 112        | 22,7      | 18,2       |
| 250       | 225        | <b>753 201 104</b> | 1  | 1  | 19.690 | 576       | 390        | 130       | 120        | 22,7      | 20,5       |
| 280       | 200        | <b>753 201 105</b> | 1  | 1  | 24.520 | 616       | 410        | 139       | 112        | 25,4      | 18,2       |
| 280       | 225        | <b>753 201 106</b> | 1  | 1  | 24.755 | 616       | 420        | 139       | 120        | 25,4      | 20,5       |
| 280       | 250        | <b>753 201 107</b> | 1  | 1  | 25.210 | 616       | 420        | 139       | 130        | 25,4      | 22,7       |
| 315       | 200        | <b>753 201 108</b> | 1  | 1  | 33.950 | 690       | 470        | 150       | 134        | 28,6      | 18,2       |
| 315       | 280        | <b>753 201 109</b> | 1  | 1  | 34.950 | 690       | 480        | 150       | 139        | 28,6      | 25,4       |
| 355       | 250        | <b>753 201 110</b> | 1  | 1  | 48.900 | 818       | 530        | 165       | 130        | 32,3      | 22,7       |
| 355       | 280        | <b>753 201 111</b> | 1  | 1  | 49.300 | 818       | 480        | 165       | 139        | 32,3      | 25,4       |
| 355       | 315        | <b>753 201 112</b> | 1  | 1  | 49.690 | 818       | 480        | 165       | 150        | 32,3      | 28,6       |
| 400       | 280        | <b>753 201 113</b> | 1  | 1  | 52.915 | 910       | 530        | 180       | 139        | 36,4      | 25,4       |
| 400       | 315        | <b>753 201 114</b> | 1  | 1  | 53.625 | 910       | 580        | 180       | 150        | 36,4      | 28,6       |
| 400       | 355        | <b>753 201 115</b> | 1  | 1  | 54.075 | 910       | 675        | 180       | 165        | 36,4      | 32,3       |

## Tee 90°, reduced LS with welded reducer

• 5 bar Gas / 10 bar Water

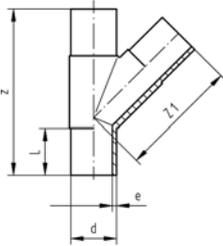


| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 125       | 63         | <b>753 200 801</b> | 1  | 4  | 2.115  | 366       | 215        | 92        | 61         | 7.4       | 3.8        |
| 125       | 75         | <b>753 200 810</b> | 1  | 6  | 2.140  | 366       | 235        | 92        | 72         | 7.4       | 4.5        |
| 125       | 90         | <b>753 200 811</b> | 1  | 8  | 2.180  | 366       | 235        | 92        | 80         | 7.4       | 5.4        |
| 140       | 75         | <b>753 200 812</b> | 4  | 4  | 2.820  | 396       | 240        | 92        | 70         | 8.3       | 4.5        |
| 140       | 90         | <b>753 200 822</b> | 1  | 5  | 2.855  | 396       | 240        | 92        | 78         | 8.3       | 5.4        |
| 140       | 110        | <b>753 200 823</b> | 1  | 4  | 2.910  | 396       | 235        | 92        | 82         | 8.3       | 6.6        |
| 140       | 125        | <b>753 200 824</b> | 1  | 4  | 2.955  | 396       | 240        | 92        | 87         | 8.3       | 7.4        |
| 160       | 125        | <b>753 200 825</b> | 1  | 4  | 3.970  | 428       | 265        | 104       | 90         | 9.5       | 5.4        |
| 160       | 140        | <b>753 200 826</b> | 1  | 4  | 4.070  | 428       | 280        | 104       | 96         | 9.5       | 8.3        |
| 180       | 110        | <b>753 200 827</b> | 1  | 2  | 5.250  | 460       | 285        | 105       | 92         | 10.7      | 6.6        |
| 180       | 125        | <b>753 200 845</b> | 1  | 2  | 5.070  | 460       | 285        | 105       | 90         | 10.7      | 7.4        |
| 180       | 140        | <b>753 200 846</b> | 1  | 1  | 5.290  | 460       | 305        | 105       | 110        | 10.7      | 8.3        |
| 200       | 125        | <b>753 200 847</b> | 1  | 1  | 7.100  | 500       | 310        | 115       | 92         | 11.9      | 7.4        |
| 200       | 140        | <b>753 200 848</b> | 1  | 1  | 7.200  | 500       | 315        | 115       | 110        | 11.9      | 8.3        |
| 200       | 180        | <b>753 200 849</b> | -  | -  | 6.900  | 500       | 315        | 115       | 110        | 11.9      | 10.7       |
| 225       | 125        | <b>753 200 850</b> | 1  | 1  | 8.620  | 540       | 320        | 122       | 92         | 13.4      | 7.4        |
| 225       | 140        | <b>753 200 855</b> | 3  | -  | 8.780  | 540       | 345        | 122       | 110        | 13.4      | 8.3        |
| 225       | 200        | <b>753 200 856</b> | -  | -  | 9.300  | 540       | 335        | 122       | 115        | 13.4      | 11.9       |
| 250       | 180        | <b>753 200 857</b> | 1  | 1  | 15.000 | 576       | 340        | 130       | 105        | 14.8      | 10.7       |
| 250       | 200        | <b>753 200 858</b> | -  | -  | 15.440 | 576       | 350        | 130       | 112        | 14.8      | 11.9       |
| 250       | 225        | <b>753 200 859</b> | 1  | 1  | 15.620 | 576       | 370        | 130       | 120        | 14.8      | 13.4       |
| 280       | 200        | <b>753 200 860</b> | 1  | -  | 19.200 | 616       | 400        | 139       | 112        | 16.6      | 11.9       |
| 280       | 225        | <b>753 200 861</b> | -  | -  | 19.500 | 616       | 400        | 139       | 120        | 16.6      | 13.4       |
| 280       | 250        | <b>753 200 862</b> | -  | -  | 20.120 | 616       | 400        | 139       | 130        | 16.6      | 14.8       |
| 315       | 200        | <b>753 200 863</b> | -  | -  | 18.700 | 690       | 480        | 150       | 134        | 18.7      | 11.9       |
| 315       | 280        | <b>753 200 864</b> | -  | -  | 26.940 | 690       | 480        | 150       | 139        | 18.7      | 16.6       |
| 355       | 250        | <b>753 200 865</b> | -  | -  | 35.770 | 818       | 480        | 165       | 130        | 21.1      | 14.8       |
| 355       | 280        | <b>753 200 866</b> | -  | -  | 36.330 | 818       | 480        | 165       | 139        | 21.1      | 16.6       |
| 355       | 315        | <b>753 200 867</b> | -  | -  | 37.740 | 818       | 490        | 165       | 150        | 21.1      | 18.7       |
| 400       | 280        | <b>753 200 868</b> | -  | -  | 48.330 | 910       | 540        | 180       | 139        | 23.7      | 16.6       |
| 400       | 315        | <b>753 200 869</b> | 1  | 1  | 48.880 | 910       | 580        | 180       | 150        | 23.7      | 18.7       |
| 400       | 355        | <b>753 200 870</b> | -  | -  | 50.020 | 910       | 675        | 180       | 165        | 23.7      | 21.1       |

53 25 10

### Tee 45° equal PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

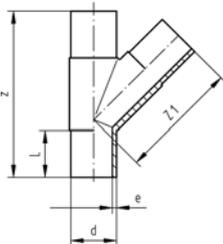


| d [mm] | Code               | SP | GP | kg    | z [mm] | z1 [mm] | L [mm] | e [mm] |
|--------|--------------------|----|----|-------|--------|---------|--------|--------|
| 63     | <b>753 251 011</b> | 26 | 26 | 0.500 | 255    | 158     | 63     | 5,8    |
| 75     | <b>753 251 012</b> | 16 | -  | 0.800 | 301    | 190     | 70     | 6,8    |
| 90     | <b>753 251 013</b> | 10 | 10 | 1.300 | 368    | 234     | 79     | 8,2    |
| 110    | <b>753 251 014</b> | 6  | 6  | 1.800 | 395    | 260     | 82     | 10,0   |

53 25 10

### Tee 45° equal PE100 SDR17/17,6

- 5 bar Gas / 10 bar Water

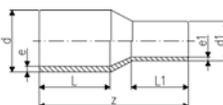


| d [mm] | Code               | SP | GP | kg    | z [mm] | z1 [mm] | L [mm] | e [mm] |
|--------|--------------------|----|----|-------|--------|---------|--------|--------|
| 90     | <b>753 251 063</b> | 10 | -  | 0.800 | 368    | 234     | 79     | 5,4    |
| 110    | <b>753 251 064</b> | 6  | -  | 1.400 | 395    | 260     | 82     | 6,6    |

53 90 10

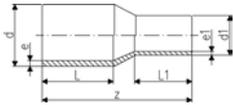
### Reducer PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water



| d [mm] | d1 [mm] | Code               | SP | GP  | kg    | z [mm] | L [mm] | L1 [mm] | e [mm] | e1 [mm] |
|--------|---------|--------------------|----|-----|-------|--------|--------|---------|--------|---------|
| 25     | 20      | <b>753 901 038</b> | 1  | 40  | 0.022 | 115    | 52     | 52      | 3,0    | 3,0     |
| 32     | 20      | <b>753 901 042</b> | 1  | 100 | 0.028 | 120    | 54     | 52      | 3,0    | 3,0     |
| 32     | 25      | <b>753 901 041</b> | 1  | 45  | 0.031 | 120    | 54     | 52      | 3,0    | 3,0     |
| 40     | 20      | <b>753 901 048</b> | 1  | 40  | 0.040 | 130    | 57     | 52      | 3,7    | 3,0     |
| 40     | 25      | <b>753 901 047</b> | 1  | 50  | 0.043 | 130    | 57     | 52      | 3,7    | 3,0     |
| 40     | 32      | <b>753 901 046</b> | 1  | 40  | 0.047 | 130    | 57     | 53      | 3,7    | 3,0     |
| 50     | 20      | <b>753 901 055</b> | 1  | 20  | 0.064 | 150    | 63     | 52      | 4,6    | 3,0     |
| 50     | 25      | <b>753 901 054</b> | 1  | 45  | 0.066 | 140    | 63     | 52      | 4,6    | 3,0     |
| 50     | 32      | <b>753 901 053</b> | 1  | 40  | 0.067 | 140    | 63     | 53      | 4,6    | 3,0     |
| 50     | 40      | <b>753 901 052</b> | 1  | 25  | 0.079 | 140    | 63     | 57      | 4,6    | 3,7     |
| 63     | 32      | <b>753 901 060</b> | 1  | 50  | 0.109 | 150    | 65     | 53      | 5,8    | 3,0     |
| 63     | 40      | <b>753 901 059</b> | 1  | 50  | 0.119 | 150    | 65     | 57      | 5,8    | 3,7     |
| 63     | 50      | <b>753 901 058</b> | 1  | 50  | 0.130 | 150    | 65     | 63      | 5,8    | 4,6     |

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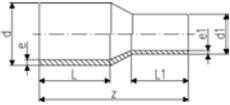


| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|-----------|------------|-----------|------------|
| 75        | 40         | <b>753 901 063</b> | 1  | 60 | 0.178  | 170       | 72        | 57         | 6,8       | 3,7        |
| 75        | 50         | <b>753 901 064</b> | 1  | 50 | 0.191  | 170       | 72        | 63         | 6,8       | 4,6        |
| 75        | 63         | <b>753 901 065</b> | 1  | 50 | 0.216  | 170       | 72        | 65         | 6,8       | 5,8        |
| 90        | 50         | <b>753 901 072</b> | 1  | 18 | 0.291  | 190       | 81        | 63         | 8,2       | 4,6        |
| 90        | 63         | <b>753 901 071</b> | 1  | 18 | 0.317  | 190       | 81        | 65         | 8,2       | 5,8        |
| 90        | 75         | <b>753 901 070</b> | 1  | 18 | 0.361  | 190       | 81        | 70         | 8,2       | 6,8        |
| 110       | 63         | <b>753 901 078</b> | 1  | 24 | 0.469  | 205       | 86        | 65         | 10,0      | 5,8        |
| 110       | 75         | <b>753 901 077</b> | 1  | 10 | 0.497  | 205       | 86        | 70         | 10,0      | 6,8        |
| 110       | 90         | <b>753 901 076</b> | 1  | 9  | 0.557  | 205       | 86        | 81         | 10,0      | 8,2        |
| 125       | 63         | <b>753 901 083</b> | 1  | 15 | 0.579  | 214       | 87        | 63         | 11,4      | 5,8        |
| 125       | 75         | <b>753 901 082</b> | 1  | 15 | 0.660  | 210       | 92        | 72         | 11,4      | 6,8        |
| 125       | 90         | <b>753 901 081</b> | 1  | 15 | 0.735  | 212       | 92        | 81         | 11,4      | 8,2        |
| 125       | 110        | <b>753 901 080</b> | 1  | 15 | 0.819  | 212       | 92        | 86         | 11,4      | 10,0       |
| 140       | 75         | <b>753 901 086</b> | 1  | 14 | 0.560  | 230       | 110       | 70         | 12,7      | 6,8        |
| 140       | 90         | <b>753 901 087</b> | 14 | 10 | 0.690  | 230       | 110       | 79         | 12,7      | 8,2        |
| 140       | 110        | <b>753 901 084</b> | 12 | 12 | 0.820  | 230       | 110       | 88         | 12,7      | 10,0       |
| 140       | 125        | <b>753 901 085</b> | 12 | 12 | 0.988  | 235       | 110       | 90         | 12,7      | 11,4       |
| 160       | 90         | <b>753 901 088</b> | 1  | 10 | 1.060  | 244       | 120       | 79         | 14,6      | 8,2        |
| 160       | 110        | <b>753 901 090</b> | 10 | 5  | 1.240  | 244       | 102       | 86         | 14,6      | 10,0       |
| 160       | 125        | <b>753 901 089</b> | 1  | 5  | 1.403  | 245       | 102       | 92         | 14,6      | 11,4       |
| 160       | 140        | <b>753 901 032</b> | 10 | 10 | 1.350  | 260       | 120       | 110        | 14,6      | 12,7       |
| 180       | 90         | <b>753 901 073</b> | 8  | 8  | 1.530  | 245       | 105       | 79         | 16,4      | 8,2        |
| 180       | 110        | <b>753 901 074</b> | 8  | 8  | 1.720  | 270       | 105       | 82         | 16,4      | 10,0       |
| 180       | 125        | <b>753 901 091</b> | 1  | 6  | 1.753  | 258       | 107       | 92         | 16,4      | 11,4       |
| 180       | 140        | <b>753 901 075</b> | 8  | 8  | 1.980  | 270       | 120       | 110        | 16,4      | 12,7       |
| 180       | 160        | <b>753 901 033</b> | 6  | 6  | 2.044  | 255       | 107       | 102        | 16,4      | 14,6       |
| 200       | 140        | <b>753 901 066</b> | 6  | 6  | 2.310  | 275       | 120       | 110        | 18,2      | 12,7       |
| 200       | 160        | <b>753 901 092</b> | 1  | 6  | 2.472  | 265       | 117       | 102        | 18,2      | 14,6       |
| 200       | 180        | <b>753 901 034</b> | 5  | -  | 2.580  | 265       | 117       | 107        | 18,2      | 16,4       |
| 225       | 140        | <b>753 901 067</b> | 4  | 4  | 2.900  | 295       | 130       | 110        | 20,5      | 12,7       |
| 225       | 160        | <b>753 901 096</b> | 3  | 3  | 3.118  | 279       | 122       | 102        | 20,5      | 14,6       |
| 225       | 180        | <b>753 901 095</b> | 4  | 4  | 3.277  | 280       | 122       | 107        | 20,5      | 16,4       |
| 225       | 200        | <b>753 901 094</b> | 2  | 4  | 3.538  | 280       | 122       | 117        | 20,5      | 18,2       |
| 250       | 160        | <b>753 901 000</b> | 7  | -  | 2.385  | 300       | 130       | 100        | 22,7      | 14,6       |
| 250       | 180        | <b>753 901 068</b> | 6  | 6  | 4.050  | 295       | 130       | 105        | 22,7      | 16,4       |
| 250       | 200        | <b>753 901 001</b> | 6  | -  | 2.385  | 315       | 130       | 112        | 22,7      | 18,2       |
| 250       | 225        | <b>753 901 002</b> | 6  | -  | 2.385  | 332       | 130       | 120        | 22,7      | 20,5       |
| 280       | 200        | <b>753 901 098</b> | 6  | 6  | 6.850  | 333       | 140       | 112        | 25,4      | 18,2       |
| 280       | 225        | <b>753 901 099</b> | 1  | 5  | 6.090  | 335       | 140       | 120        | 25,4      | 20,5       |
| 280       | 250        | <b>753 901 003</b> | 5  | -  | 2.385  | 340       | 140       | 130        | 25,4      | 22,7       |
| 315       | 200        | <b>753 901 004</b> | 2  | 2  | 2.385  | 380       | 180       | 134        | 28,6      | 18,2       |
| 315       | 225        | <b>753 901 097</b> | 4  | -  | 7.790  | 365       | 150       | 120        | 28,6      | 20,5       |
| 315       | 250        | <b>753 901 005</b> | 4  | -  | 2.385  | 365       | 150       | 130        | 28,6      | 22,7       |
| 315       | 280        | <b>753 901 012</b> | 6  | 6  | 8.800  | 365       | 150       | 139        | 28,6      | 25,4       |
| 355       | 250        | <b>753 901 013</b> | 2  | 6  | 9.100  | 390       | 165       | 130        | 32,3      | 22,7       |
| 355       | 280        | <b>753 901 014</b> | 2  | 6  | 9.500  | 390       | 165       | 139        | 32,3      | 25,4       |
| 355       | 315        | <b>753 901 015</b> | 2  | 6  | 9.900  | 390       | 165       | 150        | 32,3      | 28,6       |
| 400       | 280        | <b>753 901 016</b> | 2  | 6  | 10.420 | 415       | 180       | 139        | 36,4      | 25,4       |
| 400       | 315        | <b>753 901 017</b> | 2  | 6  | 11.130 | 415       | 180       | 150        | 36,4      | 28,6       |
| 400       | 355        | <b>753 901 018</b> | 2  | 6  | 11.600 | 420       | 180       | 165        | 36,4      | 32,3       |
| 450       | 280        | <b>753 901 019</b> | 2  | 6  | 16.200 | 389       | 195       | 139        | 40,9      | 25,4       |
| 450       | 315        | <b>753 901 020</b> | 2  | 6  | 16.700 | 390       | 195       | 150        | 40,9      | 28,6       |
| 450       | 355        | <b>753 901 022</b> | 2  | 6  | 17.500 | 393       | 195       | 164        | 40,9      | 32,3       |
| 450       | 400        | <b>753 901 024</b> | 2  | 3  | 18.500 | 395       | 195       | 179        | 40,9      | 36,4       |
| 500       | 315        | <b>753 901 025</b> | 2  | 3  | 21.900 | 422       | 212       | 150        | 45,5      | 28,6       |
| 500       | 355        | <b>753 901 026</b> | 2  | 3  | 22.600 | 424       | 212       | 164        | 45,5      | 32,3       |
| 500       | 400        | <b>753 901 027</b> | 2  | 3  | 23.600 | 426       | 212       | 179        | 45,5      | 36,4       |
| 500       | 450        | <b>753 901 029</b> | 2  | 3  | 25.100 | 428       | 212       | 195        | 45,5      | 40,9       |
| 560       | 355        | <b>753 901 030</b> | 1  | 3  | 30.100 | 459       | 230       | 164        | 50,9      | 32,3       |
| 560       | 400        | <b>753 901 039</b> | 1  | 3  | 31.000 | 461       | 230       | 179        | 50,9      | 36,4       |
| 560       | 450        | <b>753 901 040</b> | 1  | 3  | 32.400 | 463       | 230       | 195        | 50,9      | 40,9       |
| 560       | 500        | <b>753 901 043</b> | 1  | 3  | 34.100 | 466       | 230       | 212        | 50,9      | 45,5       |
| 630       | 400        | <b>753 901 044</b> | 1  | 3  | 41.900 | 502       | 250       | 179        | 57,3      | 36,4       |
| 630       | 450        | <b>753 901 045</b> | 1  | 3  | 43.100 | 503       | 250       | 195        | 57,3      | 40,9       |
| 630       | 500        | <b>753 901 049</b> | 1  | 3  | 44.700 | 506       | 250       | 212        | 57,3      | 45,5       |
| 630       | 560        | <b>753 901 050</b> | 1  | 3  | 46.800 | 506       | 250       | 230        | 57,3      | 50,9       |

53 90 08

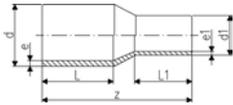
**Reducer PE100 SDR17/17,6**

- Long spigot version
- 5 bar Gas / 10 bar Water



| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|-------------|----|----|--------|-----------|-----------|------------|-----------|------------|
| 90        | 63         | 753 900 872 | 40 | 40 | 0.216  | 182       | 79        | 70         | 5,4       | 3,8        |
| 90        | 75         | 753 900 870 | 40 | 40 | 0.202  | 185       | 79        | 70         | 5,4       | 4,5        |
| 110       | 63         | 753 900 877 | 30 | 30 | 0.326  | 185       | 82        | 63         | 6,6       | 3,8        |
| 110       | 90         | 753 900 876 | 16 | 22 | 0.650  | 205       | 85        | 80         | 6,6       | 5,4        |
| 125       | 63         | 753 900 882 | 10 | 10 | 0.610  | 200       | 87        | 63         | 7,4       | 3,8        |
| 125       | 90         | 753 900 881 | 9  | 9  | 0.700  | 215       | 90        | 80         | 7,4       | 5,4        |
| 125       | 110        | 753 900 880 | 9  | 9  | 0.810  | 215       | 90        | 85         | 7,4       | 6,6        |
| 140       | 75         | 753 900 886 | 14 | 14 | 0.560  | 230       | 112       | 70         | 8,3       | 4,5        |
| 140       | 90         | 753 900 887 | 14 | 14 | 0.610  | 230       | 112       | 79         | 8,3       | 5,4        |
| 140       | 110        | 753 900 884 | 12 | -  | 0.660  | 230       | 112       | 82         | 8,3       | 6,6        |
| 140       | 125        | 753 900 885 | 12 | 12 | 0.712  | 235       | 115       | 87         | 8,3       | 7,4        |
| 160       | 90         | 753 900 888 | 10 | -  | 0.752  | 248       | 120       | 85         | 9,5       | 5,4        |
| 160       | 110        | 753 900 890 | 10 | 10 | 0.930  | 245       | 100       | 85         | 9,5       | 6,6        |
| 160       | 125        | 753 900 889 | 10 | 8  | 1.380  | 245       | 100       | 90         | 9,5       | 7,4        |
| 160       | 140        | 753 900 831 | 10 | 10 | 1.380  | 260       | 120       | 110        | 9,5       | 8,3        |
| 180       | 90         | 753 900 873 | 8  | 8  | 1.010  | 237       | 105       | 79         | 10,7      | 5,4        |
| 180       | 110        | 753 900 874 | 8  | -  | 1.600  | 270       | 120       | 92         | 10,7      | 6,6        |
| 180       | 125        | 753 900 891 | 8  | 4  | 1.710  | 255       | 105       | 90         | 10,7      | 7,4        |
| 180       | 140        | 753 900 875 | 8  | 8  | 1.720  | 270       | 120       | 110        | 10,7      | 8,3        |
| 180       | 160        | 753 900 832 | 8  | 4  | 2.100  | 255       | 105       | 100        | 10,7      | 9,5        |
| 200       | 140        | 753 900 866 | 1  | 6  | 1.800  | 275       | 120       | 110        | 11,9      | 8,3        |
| 200       | 160        | 753 900 892 | 6  | 4  | 2.370  | 265       | 115       | 100        | 11,9      | 9,5        |
| 200       | 180        | 753 900 893 | 5  | 4  | 2.580  | 265       | 115       | 105        | 11,9      | 10,7       |
| 225       | 140        | 753 900 867 | 4  | 4  | 1.450  | 280       | 120       | 100        | 13,4      | 8,3        |
| 225       | 160        | 753 900 896 | 4  | 4  | 2.980  | 280       | 120       | 100        | 13,4      | 9,5        |
| 225       | 180        | 753 900 895 | 4  | 4  | 3.160  | 280       | 120       | 105        | 13,4      | 10,7       |
| 225       | 200        | 753 900 894 | 8  | 8  | 3.750  | 280       | 120       | 115        | 13,4      | 11,9       |
| 250       | 160        | 753 900 800 | 7  | -  | 2.850  | 290       | 130       | 100        | 14,8      | 9,5        |
| 250       | 180        | 753 900 868 | 6  | 6  | 3.100  | 295       | 130       | 105        | 14,8      | 10,7       |
| 250       | 200        | 753 900 801 | 6  | -  | 3.210  | 302       | 130       | 112        | 14,8      | 11,9       |
| 250       | 225        | 753 900 802 | 6  | 6  | 2.385  | 332       | 162       | 120        | 14,8      | 13,4       |
| 280       | 200        | 753 900 898 | 6  | 6  | 3.800  | 333       | 140       | 112        | 16,6      | 11,9       |
| 280       | 225        | 753 900 899 | 5  | 5  | 4.100  | 335       | 140       | 120        | 16,6      | 13,4       |
| 280       | 250        | 753 900 803 | 5  | -  | 2.385  | 340       | 140       | 130        | 16,6      | 14,8       |
| 315       | 200        | 753 900 804 | 2  | -  | 6.200  | 380       | 180       | 134        | 18,7      | 11,9       |
| 315       | 225        | 753 900 807 | 4  | -  | 6.200  | 365       | 150       | 120        | 18,7      | 13,4       |
| 315       | 250        | 753 900 805 | 4  | -  | 6.420  | 365       | 150       | 130        | 18,7      | 14,8       |
| 315       | 280        | 753 900 806 | 4  | -  | 5.940  | 365       | 150       | 140        | 18,7      | 16,6       |
| 355       | 250        | 753 900 808 | 1  | 6  | 5.270  | 390       | 165       | 130        | 21,1      | 14,8       |
| 355       | 280        | 753 900 809 | 2  | 6  | 5.830  | 390       | 165       | 140        | 21,1      | 16,6       |
| 355       | 315        | 753 900 810 | 2  | 6  | 7.240  | 390       | 165       | 150        | 21,1      | 18,7       |
| 400       | 280        | 753 900 811 | 2  | 1  | 7.930  | 415       | 180       | 140        | 23,7      | 16,6       |
| 400       | 315        | 753 900 812 | 2  | 6  | 8.480  | 415       | 180       | 150        | 23,7      | 18,7       |
| 400       | 355        | 753 900 813 | 2  | 3  | 9.620  | 420       | 180       | 165        | 23,7      | 21,1       |
| 450       | 280        | 753 900 814 | 2  | 3  | 11.500 | 389       | 195       | 140        | 26,7      | 16,6       |
| 450       | 315        | 753 900 815 | 2  | 3  | 11.600 | 390       | 195       | 150        | 26,7      | 18,7       |
| 450       | 355        | 753 900 816 | 2  | 3  | 11.900 | 393       | 195       | 164        | 26,7      | 21,1       |
| 450       | 400        | 753 900 817 | 2  | 3  | 12.700 | 395       | 195       | 179        | 26,7      | 23,7       |
| 500       | 315        | 753 900 818 | 2  | 3  | 15.500 | 422       | 212       | 150        | 29,7      | 18,7       |
| 500       | 355        | 753 900 819 | 2  | 3  | 15.700 | 424       | 212       | 164        | 29,7      | 21,1       |
| 500       | 400        | 753 900 820 | 1  | 3  | 16.200 | 426       | 212       | 179        | 29,7      | 23,7       |
| 500       | 450        | 753 900 821 | 2  | 3  | 17.000 | 428       | 212       | 195        | 29,7      | 26,7       |
| 560       | 355        | 753 900 822 | 1  | 3  | 21.400 | 459       | 230       | 164        | 33,2      | 21,1       |
| 560       | 400        | 753 900 823 | 1  | 3  | 21.700 | 461       | 230       | 179        | 33,2      | 23,7       |
| 560       | 450        | 753 900 824 | 1  | 3  | 22.300 | 463       | 230       | 195        | 33,2      | 26,7       |
| 560       | 500        | 753 900 825 | 1  | 3  | 23.200 | 466       | 230       | 212        | 33,2      | 29,7       |
| 630       | 400        | 753 900 826 | 1  | 3  | 29.700 | 502       | 250       | 179        | 37,4      | 23,7       |
| 630       | 450        | 753 900 827 | 1  | 3  | 30.100 | 503       | 250       | 195        | 37,4      | 26,7       |
| 630       | 500        | 753 900 828 | 1  | 3  | 30.800 | 506       | 250       | 212        | 37,4      | 29,7       |
| 630       | 560        | 753 900 829 | 1  | 3  | 31.900 | 506       | 250       | 230        | 37,4      | 33,3       |
| 710       | 500        | 753 900 833 | 1  | 1  | 58.796 | 790       | 300       | 300        | 42,1      | 29,7       |
| 710       | 560        | 753 900 834 | 1  | 1  | 60.578 | 770       | 300       | 300        | 42,1      | 33,2       |

table continued next page



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|---------|-----------|-----------|------------|-----------|------------|
| 710       | 630        | <b>753 900 835</b> | 1  | 1  | 62.448  | 740       | 300       | 300        | 42,1      | 37,4       |
| 800       | 560        | <b>753 900 836</b> | 1  | 1  | 75.842  | 800       | 300       | 300        | 47,4      | 33,2       |
| 800       | 630        | <b>753 900 837</b> | 1  | 1  | 78.255  | 780       | 300       | 300        | 47,4      | 37,4       |
| 800       | 710        | <b>753 900 838</b> | 1  | 1  | 80.504  | 750       | 300       | 300        | 47,4      | 42,1       |
| 900       | 630        | <b>753 900 839</b> | 1  | 1  | 99.282  | 820       | 300       | 300        | 53,3      | 37,4       |
| 900       | 710        | <b>753 900 840</b> | 1  | 1  | 100.908 | 790       | 300       | 300        | 53,3      | 42,1       |
| 900       | 800        | <b>753 900 841</b> | 1  | 1  | 103.578 | 760       | 300       | 300        | 53,3      | 47,4       |
| 1000      | 710        | <b>753 900 842</b> | 1  | 1  | 124.232 | 820       | 300       | 300        | 59,3      | 42,1       |
| 1000      | 800        | <b>753 900 843</b> | 1  | 1  | 125.277 | 780       | 300       | 300        | 59,3      | 47,4       |
| 1000      | 900        | <b>753 900 844</b> | 1  | 1  | 126.638 | 740       | 300       | 300        | 59,3      | 53,3       |

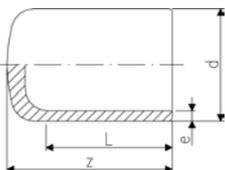
53 96 10

## Cap PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

**Note:**

\* Fabricated fitting made from pipe



| d<br>[mm] | Code               | SP | GP  | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|-----|--------|-----------|-----------|-----------|
| 20        | <b>753 961 006</b> | 1  | 50  | 0.009  | 52        | 52        | 3,0       |
| 25        | <b>753 961 007</b> | 1  | 50  | 0.013  | 52        | 52        | 3,0       |
| 32        | <b>753 961 008</b> | 1  | 50  | 0.017  | 54        | 54        | 3,0       |
| 40        | <b>753 961 009</b> | 1  | 100 | 0.031  | 57        | 57        | 3,7       |
| 50        | <b>753 961 010</b> | 1  | 30  | 0.050  | 63        | 63        | 4,6       |
| 63        | <b>753 961 011</b> | 1  | 50  | 0.085  | 65        | 65        | 5,8       |
| 75        | <b>753 961 012</b> | 1  | 40  | 0.145  | 80        | 72        | 6,8       |
| 90        | <b>753 961 013</b> | 1  | 50  | 0.240  | 90        | 81        | 8,2       |
| 110       | <b>753 961 014</b> | 1  | 30  | 0.387  | 98        | 86        | 10,0      |
| 125       | <b>753 961 015</b> | 1  | 12  | 0.546  | 105       | 92        | 11,4      |
| 140       | <b>753 961 016</b> | 12 | 12  | 0.835  | 136       | 92        | 12,7      |
| 160       | <b>753 961 017</b> | 1  | 8   | 1.026  | 120       | 102       | 14,6      |
| 180       | <b>753 961 018</b> | 1  | 10  | 1.369  | 128       | 107       | 16,4      |
| 200       | <b>753 961 019</b> | 1  | 5   | 1.839  | 138       | 115       | 18,2      |
| 225       | <b>753 961 020</b> | 1  | 5   | 2.500  | 148       | 122       | 20,5      |
| 250       | <b>753 961 021</b> | 4  | -   | 3.927  | 205       | 130       | 22,7      |
| 280       | <b>753 960 922</b> | 2  | -   | 5.344  | 235       | 139       | 25,4      |
| 315       | <b>753 960 923</b> | 2  | -   | 7.176  | 255       | 150       | 28,6      |
| 355       | <b>753 960 924</b> | 2  | -   | 9.780  | 280       | 165       | 32,3      |
| 400       | <b>753 960 925</b> | 2  | -   | 13.370 | 310       | 180       | 36,4      |
| * 450     | <b>753 960 926</b> | -  | -   | 20.800 | 275       | 195       | 40,9      |
| * 500     | <b>753 960 927</b> | -  | -   | 28.400 | 297       | 212       | 45,5      |
| * 560     | <b>753 960 928</b> | -  | -   | 39.100 | 325       | 230       | 50,9      |
| * 630     | <b>753 960 929</b> | -  | -   | 59.700 | 355       | 250       | 57,3      |

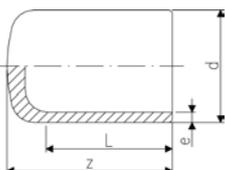
53 96 08

## Cap PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

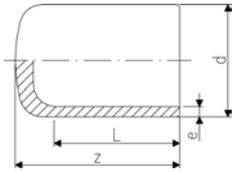
**Note:**

\* Fabricated fitting made from pipe



| d<br>[mm] | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|-----------|-----------|
| 50        | <b>753 960 810</b> | 40 | 40 | 0.036 | 70        | 55        | 3,0       |
| 63        | <b>753 960 811</b> | 15 | -  | 0.066 | 82        | 63        | 3,8       |
| 75        | <b>753 960 812</b> | 5  | -  | 0.105 | 92        | 70        | 4,5       |
| 90        | <b>753 960 813</b> | 1  | 50 | 0.220 | 90        | 81        | 5,4       |
| 110       | <b>753 960 814</b> | 1  | 30 | 0.350 | 98        | 86        | 6,6       |
| 125       | <b>753 960 815</b> | 1  | 12 | 0.520 | 105       | 92        | 7,4       |
| 140       | <b>753 960 816</b> | 12 | 12 | 0.522 | 136       | 92        | 8,3       |
| 160       | <b>753 960 817</b> | 1  | 8  | 0.990 | 120       | 102       | 9,5       |
| 180       | <b>753 960 818</b> | 1  | 10 | 1.360 | 128       | 107       | 10,7      |
| 200       | <b>753 960 819</b> | 1  | 5  | 1.880 | 138       | 115       | 11,9      |
| 225       | <b>753 960 820</b> | 1  | 5  | 2.420 | 148       | 122       | 13,4      |
| 250       | <b>753 960 821</b> | 4  | -  | 2.547 | 205       | 130       | 14,8      |

table continued next page



| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|
| 280       | <b>753 960 822</b> | 2  | -  | 3.523   | 235       | 139       | 16,6      |
| 315       | <b>753 960 823</b> | 2  | -  | 4.758   | 255       | 150       | 18,7      |
| 355       | <b>753 960 824</b> | 2  | -  | 6.510   | 280       | 165       | 21,1      |
| 400       | <b>753 960 825</b> | 2  | 1  | 9.330   | 310       | 180       | 23,7      |
| * 450     | <b>753 960 826</b> | -  | -  | 15.800  | 265       | 195       | 26,7      |
| * 500     | <b>753 960 827</b> | -  | -  | 21.400  | 287       | 212       | 29,7      |
| * 560     | <b>753 960 828</b> | -  | -  | 29.400  | 310       | 230       | 33,2      |
| * 630     | <b>753 960 829</b> | -  | -  | 41.400  | 340       | 250       | 37,4      |
| * 710     | <b>753 960 830</b> | 1  | -  | 53.950  | 310       | 190       | 42,1      |
| * 800     | <b>753 960 831</b> | 1  | -  | 73.281  | 320       | 190       | 47,4      |
| * 900     | <b>753 960 832</b> | 1  | -  | 98.923  | 330       | 190       | 53,5      |
| * 1000    | <b>753 960 833</b> | 1  | -  | 123.925 | 340       | 190       | 59,3      |

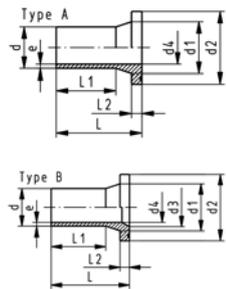
538000

## Flange adaptor PE100 S5/SDR11 Combined jointing face: flat and serrated

Model:

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (**from d110 also to ANSI/ASME B16.5**)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 10 bar Gas / 16 bar Water

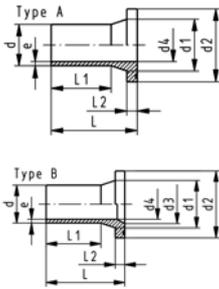
\* **Type B with chamfer**



| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 20        | 15         | IR | <b>753 800 006</b> | 50 | 50 | 0.022  |
| 25        | 20         | IR | <b>753 800 007</b> | 50 | -  | 0.034  |
| 32        | 25         | IR | <b>753 800 008</b> | 5  | 25 | 0.051  |
| 40        | 32         | IR | <b>753 800 009</b> | 2  | 60 | 0.076  |
| 50        | 40         | IR | <b>753 800 010</b> | 2  | 50 | 0.107  |
| 63        | 50         | IR | <b>753 800 011</b> | 1  | 70 | 0.174  |
| * 75      | 65         | IR | <b>753 800 012</b> | 1  | 30 | 0.300  |
| * 90      | 80         | IR | <b>753 800 013</b> | 1  | 24 | 0.440  |
| * 110     | 100        | IR | <b>753 800 014</b> | 1  | 16 | 0.685  |
| * 125     | 100        | IR | <b>753 800 015</b> | 1  | 16 | 0.836  |
| * 140     | 125        | IR | <b>753 800 016</b> | 1  | 6  | 1.295  |
| * 160     | 150        | IR | <b>753 800 017</b> | 1  | 6  | 1.644  |
| * 180     | 150        | IR | <b>753 800 018</b> | 1  | 6  | 1.873  |
| * 200     | 200        | IR | <b>753 800 019</b> | 1  | 4  | 2.758  |
| * 225     | 200        | IR | <b>753 800 020</b> | 1  | 4  | 2.972  |
| * 250     | 250        | -- | <b>753 800 021</b> | 1  | 6  | 4.535  |
| * 280     | 250        | -- | <b>753 800 022</b> | 1  | 5  | 4.925  |
| * 315     | 300        | -- | <b>753 800 023</b> | 1  | 2  | 6.393  |
| * 355     | 350        | -- | <b>753 800 024</b> | 1  | 2  | 10.400 |
| * 400     | 400        | -- | <b>753 800 025</b> | 1  | 1  | 14.600 |
| * 450     | 500        | -- | <b>753 800 026</b> | 1  | 1  | 24.800 |
| * 500     | 500        | -- | <b>753 800 027</b> | 1  | 1  | 27.400 |
| * 560     | 600        | -- | <b>753 800 028</b> | 1  | 1  | 38.000 |
| * 630     | 600        | -- | <b>753 800 029</b> | 1  | 1  | 42.300 |
| 710       | 700        | -- | <b>753 800 030</b> | 1  | -  | 56.379 |
| 800       | 800        | -- | <b>753 800 033</b> | 1  | -  | 72.636 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | 27         | 45         |            | 16         | 85        | 41         | 7          | 1.9       |
| 25        | 20         | 33         | 58         |            | 20         | 85        | 41         | 9          | 2.3       |
| 32        | 25         | 40         | 68         |            | 26         | 85        | 44         | 10         | 3.0       |
| 40        | 32         | 50         | 78         |            | 32         | 85        | 49         | 11         | 3.7       |
| 50        | 40         | 61         | 88         |            | 40         | 104       | 55         | 12         | 4.6       |
| 63        | 50         | 75         | 102        |            | 51         | 98        | 69         | 14         | 5.8       |
| * 75      | 65         | 89         | 122        | 66         | 61         | 125       | 89         | 16         | 6.8       |
| * 90      | 80         | 105        | 138        | 78         | 73         | 140       | 103        | 17         | 8.2       |
| * 110     | 100        | 125        | 158        | 100        | 90         | 160       | 114        | 18         | 10.0      |

table continued next page



| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 125     | 100        | 132        | 158        | 114        | 102        | 170       | 125        | 25         | 11.4      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 200       | 147        | 25         | 12.7      |
| * 160     | 150        | 175        | 212        | 151        | 130        | 200       | 147        | 25         | 14.6      |
| * 180     | 150        | 180        | 212        | 158        | 147        | 200       | 170        | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 200       | 128        | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 200       | 138        | 32         | 20.5      |
| * 250     | 250        | 285        | 320        | 245        | 204        | 219       | 138        | 35         | 22.7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 231       | 144        | 35         | 25.4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 239       | 158        | 35         | 28.6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 260       | 176        | 40         | 32.3      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 290       | 186        | 46         | 36.3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 333       | 195        | 60         | 40.9      |
| * 500     | 500        | 530        | 585        | 440        | 409        | 350       | 212        | 60         | 45.5      |
| * 560     | 600        | 615        | 685        | 490        | 458        | 365       | 230        | 60         | 50.9      |
| * 630     | 600        | 642        | 685        | 545        | 515        | 385       | 250        | 60         | 57.3      |
| 710       | 700        | 737        | 800        |            | 581        | 400       | 280        | 60         | 64.5      |
| 800       | 800        | 840        | 905        |            | 652        | 400       | 280        | 65         | 74.0      |

538000  
538001

## Flange adaptor PE100 SDR17/17.6 Combined jointing face: flat and serrated

### Model:

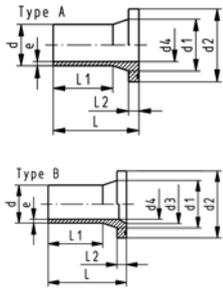
- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (**from d110 also to ANSI/ASME B16.5**)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 5 bar Gas / 10 bar Water

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 50        | 40         | IR | <b>753 800 085</b> | 5  | 10 | 0.110  |
| 63        | 50         | IR | <b>753 800 086</b> | 2  | 32 | 0.143  |
| 75        | 65         | IR | <b>753 800 087</b> | 2  | 18 | 0.246  |
| 90        | 80         | IR | <b>753 800 088</b> | 1  | 24 | 0.351  |
| 110       | 100        | IR | <b>753 800 089</b> | 1  | 16 | 0.531  |
| * 125     | 100        | IR | <b>753 800 090</b> | 1  | 16 | 0.629  |
| * 140     | 125        | IR | <b>753 800 091</b> | 1  | 6  | 0.973  |
| * 160     | 150        | IR | <b>753 800 092</b> | 1  | 6  | 1.257  |
| 180       | 150        | IR | <b>753 800 093</b> | 1  | 6  | 1.364  |
| * 200     | 200        | IR | <b>753 800 094</b> | 1  | 4  | 2.212  |
| * 225     | 200        | IR | <b>753 800 095</b> | 1  | 4  | 2.233  |
| * 250     | 250        | -- | <b>753 800 096</b> | 1  | 6  | 3.595  |
| * 280     | 250        | -- | <b>753 800 097</b> | 1  | 5  | 3.355  |
| * 315     | 300        | -- | <b>753 800 098</b> | 1  | 2  | 5.320  |
| * 355     | 350        | -- | <b>753 800 099</b> | 2  | 2  | 16.200 |
| * 400     | 400        | -- | <b>753 800 100</b> | 1  | 1  | 10.300 |
| 450       | 500        | -- | <b>753 800 101</b> | 1  | 1  | 15.800 |
| 500       | 500        | -- | <b>753 800 102</b> | 1  | 1  | 19.100 |
| 560       | 600        | -- | <b>753 800 103</b> | 1  | 1  | 27.500 |
| 630       | 600        | -- | <b>753 800 104</b> | 1  | 1  | 30.000 |
| 710       | 700        | -- | <b>753 800 105</b> | 1  | -  | 39.376 |
| 800       | 800        | -- | <b>753 800 106</b> | 1  | -  | 50.759 |
| 900       | 900        | -- | <b>753 800 107</b> | 1  | -  | 64.202 |
| 1000      | 1000       | -- | <b>753 800 108</b> | 1  | -  | 79.495 |

| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 50        | 61         | 88         |            | 44         | 104       | 55         | 12         | 3.0       |
| 63        | 75         | 102        |            | 55         | 120       | 65         | 14         | 3.8       |
| 75        | 89         | 122        |            | 66         | 130       | 75         | 16         | 4.5       |
| 90        | 105        | 138        |            | 79         | 140       | 103        | 17         | 5.4       |
| 110       | 125        | 158        |            | 96         | 160       | 117        | 18         | 6.6       |

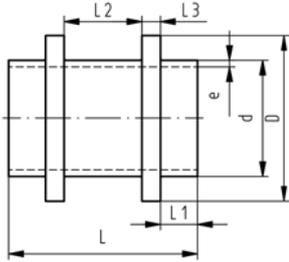
table continued next page



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 125     | 132        | 158        | 114        | 110        | 170       | 125        | 25         | 7.4       |
| * 140     | 155        | 188        | 127        | 123        | 200       | 147        | 25         | 8.3       |
| * 160     | 175        | 212        | 158        | 141        | 200       | 147        | 25         | 9.5       |
| 180       | 180        | 212        |            | 158        | 200       | 170        | 30         | 10.7      |
| * 200     | 232        | 268        | 203        | 176        | 200       | 128        | 32         | 11.9      |
| * 225     | 235        | 268        | 210        | 198        | 200       | 138        | 32         | 13.4      |
| * 250     | 285        | 320        | 245        | 220        | 220       | 148        | 25         | 14.8      |
| * 280     | 291        | 320        | 265        | 246        | 230       | 154        | 25         | 16.6      |
| * 315     | 335        | 370        | 300        | 277        | 242       | 166        | 36         | 18.7      |
| * 355     | 373        | 430        | 340        | 312        | 261       | 179        | 30         | 21.1      |
| * 400     | 427        | 483        | 385        | 352        | 290       | 196        | 33         | 23.7      |
| 450       | 514        | 585        |            | 396        | 333       | 195        | 60         | 26.7      |
| 500       | 530        | 585        |            | 440        | 350       | 212        | 60         | 29.7      |
| 560       | 615        | 685        |            | 493        | 365       | 230        | 60         | 33.2      |
| 630       | 642        | 685        |            | 555        | 385       | 250        | 60         | 37.4      |
| 710       | 737        | 800        |            | 626        | 400       | 280        | 50         | 42.1      |
| 800       | 840        | 905        |            | 705        | 400       | 280        | 52         | 47.4      |
| 900       | 944        | 1005       |            | 793        | 400       | 260        | 55         | 53.3      |
| 1000      | 1047       | 1110       |            | 881        | 400       | 260        | 60         | 59.3      |

# Butt fusion fittings PE100

## Fixpoint fitting PE100 SDR17/17.6

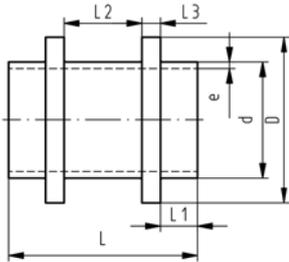


### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

| d<br>[mm] | FM | Code        | SP | GP | kg     | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|----|--------|-----------|-----------|------------|------------|------------|-----------|
| 63        | IR | 753 665 577 | 16 | -  | 0.144  | 90        | 122       | 30         | 42         | 10         | 3.8       |
| 75        | IR | 753 665 578 | 14 | -  | 0.212  | 110       | 122       | 30         | 42         | 10         | 4.5       |
| 90        | IR | 753 665 579 | 12 | -  | 0.279  | 125       | 122       | 30         | 42         | 10         | 5.4       |
| 110       | IR | 753 665 580 | 6  | -  | 0.457  | 140       | 142       | 30         | 52         | 15         | 6.6       |
| 125       | IR | 753 665 581 | 5  | -  | 0.618  | 160       | 152       | 35         | 52         | 15         | 7.4       |
| 140       | IR | 753 665 582 | 3  | -  | 0.815  | 180       | 162       | 40         | 52         | 15         | 8.3       |
| 160       | IR | 753 665 583 | 4  | -  | 1.014  | 200       | 162       | 40         | 52         | 15         | 9.5       |
| 180       | IR | 753 665 584 | 3  | -  | 1.528  | 225       | 182       | 45         | 52         | 20         | 10.7      |
| 200       | IR | 753 665 585 | 2  | -  | 1.887  | 250       | 182       | 45         | 52         | 20         | 11.9      |
| 225       | IR | 753 665 586 | 1  | -  | 2.661  | 280       | 192       | 45         | 52         | 25         | 13.4      |
| 250       | -- | 753 665 587 | 1  | -  | 2.796  | 280       | 212       | 50         | 62         | 25         | 14.8      |
| 280       | -- | 753 665 588 | 1  | -  | 3.829  | 315       | 222       | 50         | 62         | 30         | 16.6      |
| 315       | -- | 753 665 589 | 1  | -  | 4.871  | 355       | 222       | 50         | 62         | 30         | 18.7      |
| 355       | -- | 753 665 590 | 1  | -  | 5.812  | 400       | 192       | 30         | 62         | 35         | 21.1      |
| 400       | -- | 753 665 591 | 1  | -  | 8.180  | 450       | 212       | 30         | 72         | 40         | 23.7      |
| 450       | -- | 753 665 592 | 1  | -  | 11.015 | 500       | 232       | 35         | 72         | 45         | 26.7      |
| 500       | -- | 753 665 593 | 1  | -  | 15.251 | 560       | 252       | 40         | 72         | 50         | 29.7      |
| 560       | -- | 753 665 594 | 1  | -  | 0.000  | 630       | 282       | 45         | 82         | 55         | 33.2      |
| 630       | -- | 753 665 595 | 1  | -  | 29.574 | 710       | 302       | 50         | 82         | 60         | 37.4      |

## Fixpoint fitting PE100 S5/SDR11



### Model:

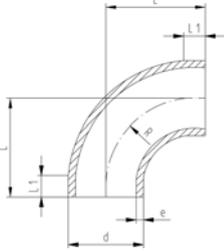
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

| d<br>[mm] | FM | Code        | SP | GP | kg     | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|----|--------|-----------|-----------|------------|------------|------------|-----------|
| 63        | IR | 753 665 558 | 16 | 10 | 0.182  | 90        | 122       | 30         | 42         | 10         | 5.8       |
| 75        | IR | 753 665 559 | 14 | -  | 0.265  | 110       | 122       | 30         | 42         | 10         | 6.8       |
| 90        | IR | 753 665 560 | 12 | -  | 0.357  | 125       | 122       | 30         | 42         | 10         | 8.2       |
| 110       | IR | 753 665 561 | 6  | -  | 0.592  | 140       | 142       | 30         | 52         | 15         | 10.0      |
| 125       | IR | 753 665 562 | 5  | -  | 0.811  | 160       | 152       | 35         | 52         | 15         | 11.4      |
| 140       | IR | 753 665 563 | 3  | -  | 1.068  | 180       | 162       | 40         | 52         | 15         | 12.7      |
| 160       | IR | 753 665 564 | 4  | -  | 1.349  | 200       | 162       | 40         | 52         | 15         | 14.6      |
| 180       | IR | 753 665 565 | 3  | -  | 2.001  | 225       | 182       | 45         | 52         | 20         | 16.4      |
| 200       | IR | 753 665 566 | 2  | -  | 2.469  | 250       | 182       | 45         | 52         | 20         | 18.2      |
| 225       | IR | 753 665 567 | 1  | -  | 3.438  | 280       | 192       | 45         | 52         | 25         | 20.5      |
| 250       | -- | 753 665 568 | 1  | -  | 3.858  | 280       | 212       | 50         | 62         | 25         | 22.7      |
| 280       | -- | 753 665 569 | 1  | -  | 5.217  | 315       | 222       | 50         | 62         | 30         | 25.4      |
| 315       | -- | 753 665 570 | 1  | -  | 6.627  | 355       | 222       | 50         | 62         | 30         | 28.6      |
| 355       | -- | 753 665 571 | 1  | -  | 7.731  | 400       | 192       | 30         | 62         | 35         | 32.2      |
| 400       | -- | 753 665 572 | 1  | -  | 10.890 | 450       | 212       | 30         | 72         | 40         | 36.3      |
| 450       | -- | 753 665 573 | 1  | -  | 14.775 | 500       | 232       | 35         | 72         | 45         | 40.9      |
| 500       | -- | 753 665 574 | 1  | -  | 20.268 | 560       | 252       | 40         | 72         | 50         | 45.4      |
| 560       | -- | 753 665 575 | 1  | -  | 28.608 | 630       | 282       | 45         | 82         | 55         | 50.8      |
| 630       | -- | 753 665 576 | 1  | -  | 39.129 | 710       | 302       | 50         | 82         | 60         | 57.2      |

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**Bend 90° PE100 SDR11****Model:**

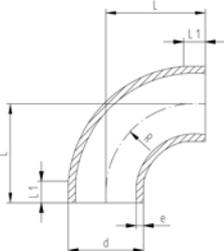
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|-----------|
| 20        | IR | <b>753 018 706</b> | 10 | 10 | 0.007  | 38        | 23         | 15        | 1.9       |
| 25        | IR | <b>753 018 707</b> | 10 | 10 | 0.012  | 42        | 23         | 19        | 2.3       |
| 32        | IR | <b>753 018 708</b> | 10 | 10 | 0.022  | 46        | 22         | 24        | 2.9       |
| 40        | IR | <b>753 018 709</b> | 10 | 10 | 0.038  | 51        | 21         | 30        | 3.7       |
| 50        | IR | <b>753 018 710</b> | 10 | 10 | 0.066  | 58        | 21         | 37        | 4.6       |
| 63        | IR | <b>753 018 711</b> | 10 | -  | 0.118  | 66        | 21         | 45        | 5.8       |
| 75        | IR | <b>753 018 712</b> | 10 | -  | 0.241  | 100       | 20         | 90        | 6.8       |
| 90        | IR | <b>753 018 713</b> | 4  | -  | 0.358  | 100       | 20         | 90        | 8.2       |
| 110       | IR | <b>753 018 714</b> | 4  | -  | 0.755  | 141       | 25         | 130       | 10.0      |
| 125       | IR | <b>753 018 690</b> | 3  | -  | 0.850  | 140       | 15         | 125       | 11.4      |
| 140       | IR | <b>753 018 691</b> | -  | -  | 1.180  | 155       | 15         | 140       | 12.7      |
| 160       | IR | <b>753 018 692</b> | -  | -  | 1.750  | 175       | 15         | 160       | 14.6      |
| 180       | IR | <b>753 018 693</b> | -  | -  | 2.670  | 195       | 15         | 180       | 16.4      |
| 200       | IR | <b>753 018 694</b> | -  | -  | 3.440  | 215       | 15         | 200       | 18.2      |
| 225       | IR | <b>753 018 695</b> | -  | -  | 4.790  | 245       | 20         | 225       | 20.5      |
| 250       | -- | <b>753 018 621</b> | 1  | 1  | 6.800  | 256       | 48         | 232       | 22.7      |
| 280       | -- | <b>753 018 622</b> | 1  | 1  | 9.900  | 286       | 48         | 262       | 25.4      |
| 315       | -- | <b>753 018 623</b> | 1  | -  | 13.500 | 321       | 48         | 297       | 28.6      |
| 355       | -- | <b>753 021 024</b> | 1  | -  | 17.200 | 380       | 38         | 355       | 32.3      |
| 400       | -- | <b>753 021 025</b> | 1  | -  | 23.000 | 434       | 41         | 400       | 36.3      |
| 450       | -- | <b>753 021 026</b> | -  | -  | 38.300 | 445       | 49         | 450       | 40.9      |
| 500       | -- | <b>753 021 027</b> | 1  | 1  | 47.300 | 450       | 49         | 500       | 45.5      |

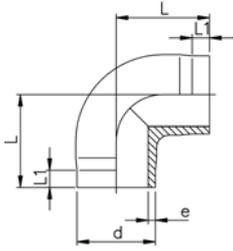
**Bend 90° PE100 SDR17/17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|-----------|
| 50        | IR | <b>753 018 635</b> | 10 | 10 | 0.052  | 58        | 21         | 37        | 2.9       |
| 63        | IR | <b>753 018 636</b> | 10 | 10 | 0.084  | 66        | 21         | 45        | 3.6       |
| 75        | IR | <b>753 018 737</b> | 10 | -  | 0.172  | 100       | 20         | 90        | 4.3       |
| 90        | IR | <b>753 018 738</b> | 4  | -  | 0.243  | 100       | 20         | 90        | 5.1       |
| 110       | IR | <b>753 018 739</b> | 4  | -  | 0.522  | 141       | 20         | 130       | 6.3       |
| 125       | IR | <b>753 018 590</b> | 3  | -  | 0.590  | 140       | 15         | 125       | 7.1       |
| 140       | IR | <b>753 018 591</b> | -  | -  | 1.180  | 155       | 15         | 140       | 8.0       |
| 160       | IR | <b>753 018 592</b> | 1  | 1  | 1.750  | 175       | 15         | 160       | 9.1       |
| 180       | IR | <b>753 018 593</b> | 1  | -  | 2.670  | 195       | 15         | 180       | 10.2      |
| 200       | IR | <b>753 018 594</b> | -  | -  | 3.440  | 215       | 15         | 200       | 11.4      |
| 225       | IR | <b>753 018 595</b> | 1  | -  | 4.790  | 245       | 15         | 225       | 12.8      |
| 250       | -- | <b>753 018 521</b> | 1  | 1  | 4.700  | 256       | 48         | 232       | 14.2      |
| 280       | -- | <b>753 018 522</b> | 1  | -  | 6.500  | 286       | 48         | 262       | 15.9      |
| 315       | -- | <b>753 018 523</b> | 1  | -  | 9.200  | 321       | 48         | 297       | 17.9      |
| 355       | -- | <b>753 020 824</b> | 1  | -  | 11.300 | 340       | 38         | 355       | 21.1      |
| 400       | -- | <b>753 020 825</b> | -  | -  | 15.700 | 345       | 41         | 400       | 23.7      |
| 450       | -- | <b>753 020 826</b> | 1  | -  | 24.900 | 449       | 49         | 450       | 25.8      |
| 500       | -- | <b>753 020 827</b> | 1  | 1  | 30.600 | 449       | 49         | 500       | 32.0      |

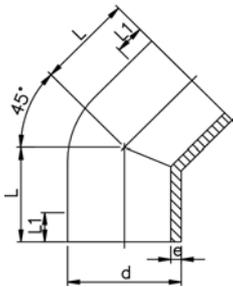
53 10 86

**Elbow 90° PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | <b>753 108 606</b> | 10 | 10 | 0.009 | 38        | 25         | 1,9       |
| 25        | IR | <b>753 108 607</b> | 10 | -  | 0.014 | 42        | 26         | 2,3       |
| 32        | IR | <b>753 108 608</b> | 10 | -  | 0.025 | 46        | 27         | 2,9       |
| 40        | IR | <b>753 108 609</b> | 10 | -  | 0.049 | 51        | 22         | 3,7       |
| 50        | IR | <b>753 108 610</b> | 10 | -  | 0.087 | 58        | 23         | 4,6       |
| 63        | IR | <b>753 108 611</b> | 10 | -  | 0.152 | 66        | 21         | 5,8       |

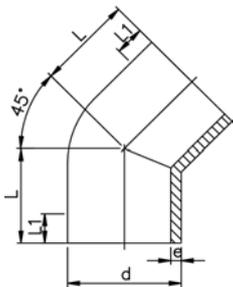
53 15 86

**Elbow 45° PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | <b>753 158 606</b> | 10 | -  | 0.008 | 32        | 24         | 1,9       |
| 25        | IR | <b>753 158 607</b> | 10 | -  | 0.013 | 34        | 25         | 2,3       |
| 32        | IR | <b>753 158 608</b> | 10 | -  | 0.021 | 36        | 25         | 2,9       |
| 40        | IR | <b>753 158 609</b> | 10 | -  | 0.037 | 39        | 25         | 3,7       |
| 50        | IR | <b>753 158 610</b> | 10 | -  | 0.059 | 42        | 26         | 4,6       |
| 63        | IR | <b>753 158 611</b> | 10 | -  | 0.104 | 47        | 29         | 5,8       |
| 75        | IR | <b>753 158 612</b> | 10 | -  | 0.147 | 49        | 29         | 6,8       |
| 90        | IR | <b>753 158 613</b> | 5  | -  | 0.243 | 57        | 34         | 8,2       |
| 110       | IR | <b>753 158 614</b> | 5  | -  | 0.445 | 70        | 43         | 10,0      |
| 125       | IR | <b>753 158 615</b> | 5  | -  | 0.653 | 79        | 48         | 11,4      |
| 140       | IR | <b>753 158 616</b> | 1  | -  | 0.905 | 88        | 55         | 12,7      |
| 160       | IR | <b>753 158 617</b> | 1  | -  | 1.344 | 100       | 60         | 14,6      |
| 200       | IR | <b>753 158 619</b> | 1  | -  | 2.625 | 124       | 75         | 18,2      |
| 225       | IR | <b>753 158 620</b> | 1  | -  | 3.738 | 140       | 85         | 20,5      |

53 15 85

**Elbow 45° PE100 SDR17.6****Model:**

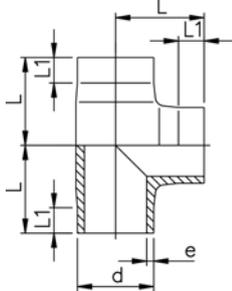
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 50        | IR | <b>753 158 535</b> | 10 | 20 | 0.045 | 42        | 26         | 2,9       |
| 63        | IR | <b>753 158 536</b> | 10 | -  | 0.091 | 47        | 29         | 3,6       |
| 75        | IR | <b>753 158 537</b> | 10 | -  | 0.128 | 49        | 29         | 4,3       |
| 90        | IR | <b>753 158 538</b> | 5  | -  | 0.208 | 57        | 34         | 5,1       |
| 110       | IR | <b>753 158 539</b> | 1  | 5  | 0.398 | 70        | 43         | 6,3       |
| 125       | IR | <b>753 158 540</b> | 5  | -  | 0.570 | 79        | 48         | 7,1       |
| 140       | IR | <b>753 158 541</b> | 1  | -  | 0.825 | 88        | 55         | 8,0       |
| 160       | IR | <b>753 158 542</b> | 1  | -  | 1.190 | 100       | 60         | 9,1       |
| 200       | IR | <b>753 158 544</b> | 1  | -  | 2.300 | 124       | 75         | 11,4      |
| 225       | IR | <b>753 158 545</b> | 1  | -  | 3.200 | 140       | 85         | 12,8      |

53 20 86

**Tee 90° equal PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



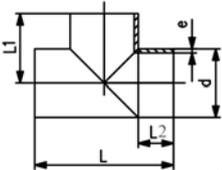
| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|
| 20        | IR | <b>753 208 606</b> | 10 | -  | 0.013  | 38        | 24         | 1,9       |
| 25        | IR | <b>753 208 607</b> | 10 | -  | 0.021  | 42        | 26         | 2,3       |
| 32        | IR | <b>753 208 608</b> | 10 | -  | 0.042  | 46        | 26         | 2,9       |
| 40        | IR | <b>753 208 609</b> | 10 | 20 | 0.067  | 51        | 22         | 3,7       |
| 50        | IR | <b>753 208 610</b> | 10 | -  | 0.114  | 58        | 22         | 4,6       |
| 63        | IR | <b>753 208 611</b> | 10 | -  | 0.203  | 66        | 21         | 5,8       |
| 75        | IR | <b>753 208 612</b> | 5  | -  | 0.310  | 75        | 20         | 6,8       |
| 90        | IR | <b>753 208 613</b> | 5  | -  | 0.564  | 90        | 20         | 8,2       |
| 110       | IR | <b>753 208 614</b> | 1  | -  | 1.020  | 110       | 20         | 10,0      |
| 125       | IR | <b>753 208 615</b> | 1  | -  | 1.514  | 125       | 25         | 11,4      |
| 140       | IR | <b>753 208 616</b> | 1  | -  | 2.111  | 140       | 28         | 12,7      |
| 160       | IR | <b>753 208 617</b> | 1  | -  | 3.095  | 160       | 28         | 14,6      |
| 180       | IR | <b>753 208 668</b> | 1  | -  | 4.560  | 190       | 70         | 16,4      |
| 200       | IR | <b>753 208 619</b> | 1  | -  | 6.037  | 200       | 35         | 18,2      |
| 225       | IR | <b>753 208 620</b> | 1  | -  | 8.090  | 220       | 35         | 20,5      |
| 250       | -- | <b>753 208 671</b> | 1  | -  | 12.208 | 272       | 90         | 22,7      |
| 280       | -- | <b>753 208 672</b> | -  | -  | 17.831 | 313       | 108        | 25,4      |
| 315       | -- | <b>753 208 673</b> | -  | -  | 25.742 | 348       | 114        | 28,6      |
| 355       | -- | <b>753 221 024</b> | 1  | -  | 30.500 | 352       | 97         | 32,3      |
| 400       | -- | <b>753 221 025</b> | 1  | -  | 39.000 | 337       | 100        | 36,4      |
| 450       | -- | <b>753 221 026</b> | -  | -  | 45.000 | 450       | 130        | 40,9      |
| 500       | -- | <b>753 221 027</b> | -  | -  | 75.500 | 450       | 130        | 45,5      |

53 20 86

**Tee 90° equal PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 10 bar Gas / 16 bar Water

\* on request



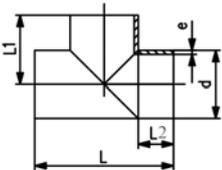
| d<br>[mm] | Code               | SP | GP | kg      | L<br>[mm] | L1<br>[mm] | z<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|-----------|-----------|
| 710       | <b>753 211 030</b> | 1  | -  | 177.442 | 950       | 650        | 75        | 64.5      |
| * 800     | <b>753 211 031</b> | 1  | -  | 233.384 | 1013      | 700        | 75        | 72.6      |

53 20 85

**Tee 90° equal PE100 SDR17/17.6****Model:**

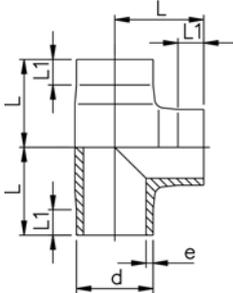
- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 5 bar Gas / 10 bar Water

\* on request



| d<br>[mm] | Code               | SP | GP | kg      | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|------------|-----------|
| 710       | <b>753 220 833</b> | 1  | -  | 121.141 | 950       | 650        | 75         | 42.1      |
| * 800     | <b>753 220 834</b> | 1  | -  | 158.977 | 1013      | 700        | 75         | 47.4      |

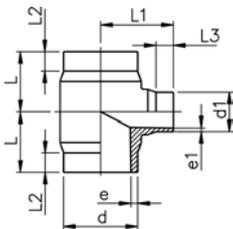
53 20 85

**Tee 90° equal PE100 SDR17/17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|
| 50        | IR | <b>753 208 535</b> | -  | -  | 0.090  | 59        | 26         | 2,9       |
| 63        | IR | <b>753 208 536</b> | 5  | -  | 0.160  | 71        | 25         | 3,6       |
| 75        | IR | <b>753 208 412</b> | 5  | -  | 0.245  | 74        | 20         | 4,8       |
| 90        | IR | <b>753 208 413</b> | 5  | -  | 0.418  | 90        | 20         | 5,6       |
| 110       | IR | <b>753 208 414</b> | 1  | -  | 0.757  | 110       | 20         | 6,9       |
| 125       | IR | <b>753 208 540</b> | 2  | -  | 1.066  | 124       | 27         | 7,1       |
| 140       | IR | <b>753 208 541</b> | 3  | -  | 1.449  | 141       | 33         | 8,0       |
| 160       | IR | <b>753 208 542</b> | 2  | -  | 2.240  | 160       | 40         | 9,1       |
| 180       | IR | <b>753 208 543</b> | 1  | -  | 3.176  | 190       | 70         | 10,2      |
| 200       | IR | <b>753 208 544</b> | 1  | -  | 4.360  | 210       | 70         | 11,4      |
| 225       | IR | <b>753 208 545</b> | 1  | -  | 6.030  | 238       | 80         | 12,8      |
| 250       | -- | <b>753 208 546</b> | 1  | -  | 8.610  | 272       | 90         | 14,2      |
| 280       | -- | <b>753 208 547</b> | 1  | -  | 11.660 | 313       | 108        | 15,9      |
| 315       | -- | <b>753 208 548</b> | 1  | -  | 16.230 | 348       | 114        | 17,9      |
| 355       | -- | <b>753 220 824</b> | 1  | -  | 22.750 | 330       | 95         | 21,1      |
| 400       | -- | <b>753 220 825</b> | 1  | -  | 30.500 | 345       | 104        | 23,7      |
| 450       | -- | <b>753 220 826</b> | -  | -  | 45.000 | 450       | 130        | 26,7      |
| 500       | -- | <b>753 220 827</b> | -  | -  | 52.600 | 445       | 130        | 29,7      |

53 20 83

**Tee 90° reduced PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|------------|-----------|------------|
| 63        | 32         | IR | <b>753 208 351</b> | 10 | -  | 0.170 | 65        | 70         | 25         | 25         | 5,8       | 2,9        |
| 63        | 50         | IR | <b>753 208 352</b> | 10 | -  | 0.180 | 65        | 70         | 25         | 25         | 5,8       | 4,6        |
| 75        | 32         | IR | <b>753 208 353</b> | 5  | -  | 0.250 | 70        | 75         | 25         | 25         | 6,8       | 2,9        |
| 75        | 50         | IR | <b>753 208 354</b> | 5  | -  | 0.263 | 70        | 75         | 25         | 25         | 6,8       | 4,6        |
| 75        | 63         | IR | <b>753 208 355</b> | 5  | -  | 0.278 | 70        | 75         | 25         | 25         | 6,8       | 5,8        |
| 90        | 50         | IR | <b>753 208 357</b> | 5  | -  | 0.445 | 80        | 85         | 25         | 25         | 8,2       | 4,6        |
| 90        | 63         | IR | <b>753 208 358</b> | 5  | -  | 0.455 | 80        | 85         | 25         | 25         | 8,2       | 5,8        |
| 90        | 75         | IR | <b>753 208 359</b> | 5  | -  | 0.470 | 80        | 85         | 25         | 25         | 8,2       | 6,8        |
| 110       | 32         | IR | <b>753 208 360</b> | 5  | -  | 0.705 | 90        | 95         | 30         | 25         | 10,0      | 2,9        |
| 110       | 50         | IR | <b>753 208 361</b> | 5  | -  | 0.700 | 90        | 95         | 30         | 25         | 10,0      | 4,6        |
| 110       | 63         | IR | <b>753 208 362</b> | 5  | -  | 0.710 | 90        | 95         | 30         | 25         | 10,0      | 5,8        |
| 110       | 75         | IR | <b>753 208 363</b> | 5  | -  | 0.723 | 90        | 95         | 30         | 25         | 10,0      | 6,8        |
| 110       | 90         | IR | <b>753 208 364</b> | 5  | -  | 0.735 | 90        | 95         | 30         | 25         | 10,0      | 8,2        |
| 160       | 63         | IR | <b>753 208 371</b> | 1  | -  | 2.270 | 142       | 135        | 50         | 30         | 14,6      | 5,8        |
| 160       | 75         | IR | <b>753 208 372</b> | 1  | -  | 2.295 | 142       | 135        | 50         | 30         | 14,6      | 6,8        |
| 160       | 90         | IR | <b>753 208 373</b> | 1  | -  | 2.315 | 142       | 135        | 50         | 30         | 14,6      | 8,2        |
| 160       | 110        | IR | <b>753 208 374</b> | 1  | -  | 2.355 | 142       | 135        | 50         | 30         | 14,6      | 10,0       |
| 225       | 90         | IR | <b>753 208 388</b> | 1  | -  | 4.760 | 155       | 165        | 40         | 30         | 20,5      | 8,2        |
| 225       | 110        | IR | <b>753 208 389</b> | 1  | -  | 4.720 | 155       | 165        | 40         | 30         | 20,5      | 10,0       |
| 225       | 160        | IR | <b>753 208 391</b> | 1  | -  | 4.780 | 155       | 165        | 40         | 30         | 20,5      | 14,6       |
| 250       | 110        | -- | <b>753 221 031</b> | 1  | -  | 8.120 | 228       | 197        | 140        | 37         | 22,7      | 10,0       |
| 250       | 160        | -- | <b>753 221 032</b> | 1  | -  | 8.620 | 229       | 219        | 117        | 60         | 22,7      | 14,6       |

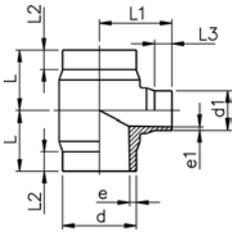


## Tee 90° reduced PE100 SDR17.6

### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

\* Branch SDR11



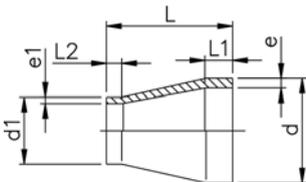
| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|------------|-----------|------------|
| * 63      | 32         | IR | <b>753 208 301</b> | 10 | -  | 0.157 | 65        | 70         | 25         | 25         | 3,6       | 2,9        |
| 63        | 50         | IR | <b>753 208 302</b> | 10 | -  | 0.158 | 65        | 70         | 25         | 25         | 3,6       | 2,9        |
| * 75      | 32         | IR | <b>753 208 303</b> | 5  | -  | 0.240 | 70        | 75         | 25         | 25         | 4,3       | 2,9        |
| 75        | 50         | IR | <b>753 208 304</b> | 5  | -  | 0.250 | 70        | 75         | 25         | 25         | 4,3       | 2,9        |
| 75        | 63         | IR | <b>753 208 305</b> | 5  | -  | 0.257 | 70        | 75         | 25         | 25         | 4,3       | 3,6        |
| 90        | 50         | IR | <b>753 208 307</b> | 5  | -  | 0.410 | 80        | 85         | 25         | 25         | 5,1       | 2,9        |
| 90        | 63         | IR | <b>753 208 308</b> | 5  | -  | 0.330 | 80        | 85         | 25         | 25         | 5,1       | 3,6        |
| 90        | 75         | IR | <b>753 208 309</b> | 5  | -  | 0.340 | 80        | 85         | 25         | 25         | 5,1       | 4,3        |
| * 110     | 32         | IR | <b>753 208 310</b> | 5  | -  | 0.640 | 90        | 95         | 30         | 25         | 6,3       | 2,9        |
| 110       | 50         | IR | <b>753 208 311</b> | 5  | -  | 0.650 | 90        | 95         | 30         | 25         | 6,3       | 2,9        |
| 110       | 63         | IR | <b>753 208 312</b> | 5  | -  | 0.520 | 90        | 95         | 30         | 25         | 6,3       | 3,6        |
| 110       | 75         | IR | <b>753 208 313</b> | 5  | -  | 0.524 | 90        | 95         | 30         | 25         | 6,3       | 4,3        |
| 110       | 90         | IR | <b>753 208 314</b> | 5  | -  | 0.530 | 90        | 95         | 30         | 25         | 6,3       | 5,1        |
| 160       | 63         | IR | <b>753 208 321</b> | 1  | -  | 2.150 | 142       | 135        | 50         | 30         | 9,1       | 3,6        |
| 160       | 75         | IR | <b>753 208 322</b> | 1  | -  | 2.130 | 142       | 135        | 50         | 30         | 9,1       | 4,3        |
| 160       | 90         | IR | <b>753 208 323</b> | 1  | -  | 1.590 | 142       | 135        | 50         | 30         | 9,1       | 5,1        |
| 160       | 110        | IR | <b>753 208 324</b> | 1  | -  | 1.695 | 142       | 135        | 50         | 30         | 9,1       | 6,3        |
| 225       | 90         | IR | <b>753 208 338</b> | 1  | -  | 3.430 | 155       | 165        | 40         | 30         | 12,8      | 5,1        |
| 225       | 110        | IR | <b>753 208 339</b> | 1  | -  | 3.410 | 155       | 165        | 40         | 30         | 12,8      | 6,3        |
| 225       | 160        | IR | <b>753 208 341</b> | 1  | -  | 3.440 | 155       | 165        | 40         | 30         | 12,8      | 9,1        |
| 250       | 160        | -- | <b>753 220 832</b> | 1  | -  | 6.500 | 228       | 219        | 117        | 60         | 14,8      | 9,5        |

53 90 88

## Reducer PE100 SDR11

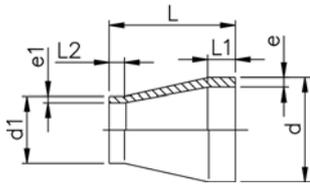
### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined



| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|------------|------------|-----------|------------|
| 25        | 20         | IR | <b>753 908 637</b> | 10 | 0.007 | 50        | 20         | 18         | 2,3       | 1,9        |
| 32        | 20         | IR | <b>753 908 642</b> | 10 | 0.010 | 50        | 20         | 18         | 2,9       | 1,9        |
| 32        | 25         | IR | <b>753 908 641</b> | 10 | 0.011 | 50        | 20         | 18         | 2,9       | 2,3        |
| 40        | 20         | IR | <b>753 908 648</b> | 10 | 0.016 | 58        | 20         | 20         | 3,7       | 1,9        |
| 40        | 25         | IR | <b>753 908 647</b> | 10 | 0.017 | 55        | 20         | 18         | 3,7       | 2,3        |
| 40        | 32         | IR | <b>753 908 646</b> | 10 | 0.019 | 55        | 20         | 18         | 3,7       | 2,9        |
| 50        | 25         | IR | <b>753 908 654</b> | 10 | 0.025 | 60        | 20         | 18         | 4,6       | 2,3        |
| 50        | 32         | IR | <b>753 908 653</b> | 10 | 0.028 | 60        | 20         | 18         | 4,6       | 2,9        |
| 50        | 40         | IR | <b>753 908 652</b> | 10 | 0.032 | 60        | 20         | 18         | 4,6       | 3,7        |
| 63        | 32         | IR | <b>753 908 660</b> | 10 | 0.046 | 65        | 20         | 18         | 5,8       | 2,9        |
| 63        | 40         | IR | <b>753 908 659</b> | 10 | 0.051 | 65        | 20         | 18         | 5,8       | 3,7        |
| 63        | 50         | IR | <b>753 908 658</b> | 10 | 0.056 | 65        | 20         | 18         | 5,8       | 4,6        |
| 75        | 40         | IR | <b>753 908 666</b> | 10 | 0.070 | 68        | 20         | 20         | 6,8       | 3,7        |
| 75        | 50         | IR | <b>753 908 665</b> | 10 | 0.074 | 65        | 20         | 18         | 6,8       | 4,6        |
| 75        | 63         | IR | <b>753 908 664</b> | 10 | 0.083 | 65        | 20         | 18         | 6,8       | 5,8        |
| 90        | 63         | IR | <b>753 908 671</b> | 10 | 0.127 | 75        | 21         | 17         | 8,2       | 5,8        |
| 90        | 75         | IR | <b>753 908 670</b> | 10 | 0.132 | 75        | 22         | 17         | 8,2       | 6,8        |
| 110       | 75         | IR | <b>753 908 677</b> | 10 | 0.226 | 90        | 28         | 17         | 10,0      | 6,8        |
| 110       | 90         | IR | <b>753 908 676</b> | 10 | 0.239 | 90        | 28         | 20         | 10,0      | 8,2        |
| 125       | 110        | IR | <b>753 908 680</b> | 2  | 0.345 | 100       | 32         | 26         | 11,4      | 10,0       |
| 140       | 110        | IR | <b>753 908 685</b> | 2  | 0.436 | 110       | 35         | 28         | 12,7      | 10,0       |
| 140       | 125        | IR | <b>753 908 684</b> | 2  | 0.478 | 110       | 35         | 28         | 12,7      | 11,4       |
| 160       | 110        | IR | <b>753 908 690</b> | 2  | 0.608 | 120       | 40         | 25         | 14,6      | 10,0       |
| 160       | 140        | IR | <b>753 908 688</b> | 2  | 0.671 | 120       | 40         | 33         | 14,6      | 12,7       |
| 180       | 90         | IR | <b>753 908 877</b> | -  | 0.678 | 157       | 45         | 22         | 16,4      | 8,2        |
| 180       | 110        | IR | <b>753 908 878</b> | -  | 0.556 | 157       | 45         | 28         | 16,4      | 10,0       |
| 180       | 125        | IR | <b>753 908 879</b> | -  | 0.528 | 136       | 45         | 32         | 16,4      | 11,4       |
| 180       | 140        | IR | <b>753 908 880</b> | -  | 0.524 | 136       | 45         | 35         | 16,4      | 12,7       |

table continued next page

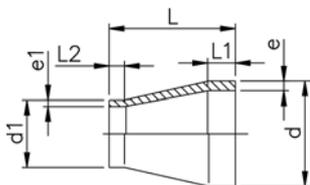


| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | kg     | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|--------|-----------|------------|------------|-----------|------------|
| 180       | 160        | IR | 753 908 881 | -  | 0.537  | 136       | 45         | 40         | 16,4      | 14,6       |
| 200       | 160        | IR | 753 908 692 | 1  | 1.266  | 150       | 50         | 35         | 18,2      | 14,6       |
| 200       | 180        | IR | 753 908 883 | -  | 0.715  | 151       | 50         | 45         | 18,2      | 16,4       |
| 225       | 110        | IR | 753 908 695 | 2  | 1.447  | 171       | 55         | 45         | 20,5      | 10,0       |
| 225       | 160        | IR | 753 908 696 | 2  | 1.546  | 160       | 55         | 37         | 20,5      | 14,6       |
| 225       | 180        | IR | 753 908 885 | -  | 1.970  | 171       | 55         | 45         | 20,5      | 16,4       |
| 225       | 200        | IR | 753 908 697 | 1  | 1.737  | 160       | 55         | 48         | 20,5      | 18,2       |
| 250       | 160        | -- | 753 908 890 | -  | 2.314  | 194       | 60         | 40         | 22,7      | 14,6       |
| 250       | 180        | -- | 753 900 001 | 5  | 2.450  | 175       | 60         | 55         | 22,7      | 16,4       |
| 250       | 200        | -- | 753 900 002 | 4  | 2.450  | 180       | 60         | 60         | 22,7      | 18,2       |
| 250       | 225        | -- | 753 908 887 | -  | 2.595  | 182       | 60         | 55         | 22,7      | 20,5       |
| 280       | 200        | -- | 753 900 004 | 6  | 3.540  | 205       | 70         | 50         | 25,4      | 18,2       |
| 280       | 225        | -- | 753 908 892 | -  | 1.908  | 105       | 30         | 20         | 25,4      | 20,5       |
| 280       | 250        | -- | 753 908 891 | -  | 1.390  | 70        | 30         | 18         | 25,4      | 22,7       |
| 315       | 200        | -- | 753 900 007 | -  | 4.740  | 225       | 80         | 50         | 28,6      | 20,5       |
| 315       | 225        | -- | 753 908 897 | -  | 2.797  | 130       | 30         | 30         | 28,6      | 20,5       |
| 315       | 250        | -- | 753 908 896 | -  | 2.370  | 100       | 30         | 20         | 28,6      | 22,7       |
| 315       | 280        | -- | 753 908 895 | -  | 1.590  | 63        | 30         | 18         | 28,6      | 25,4       |
| 355       | 225        | -- | 753 900 011 | 8  | 4.700  | 245       | 90         | 55         | 32,3      | 20,5       |
| 355       | 250        | -- | 753 900 012 | 8  | 4.400  | 245       | 90         | 60         | 32,3      | 22,7       |
| 355       | 280        | -- | 753 900 013 | 8  | 4.100  | 245       | 90         | 70         | 32,3      | 25,4       |
| 355       | 315        | -- | 753 900 014 | 8  | 3.700  | 245       | 90         | 80         | 32,3      | 28,6       |
| 400       | 225        | -- | 753 900 015 | 2  | 6.800  | 260       | 95         | 60         | 36,4      | 20,5       |
| 400       | 250        | -- | 753 900 016 | 2  | 6.800  | 260       | 95         | 70         | 36,4      | 22,7       |
| 400       | 280        | -- | 753 900 017 | 2  | 6.200  | 260       | 95         | 70         | 36,4      | 25,4       |
| 400       | 315        | -- | 753 900 018 | 2  | 5.300  | 260       | 95         | 80         | 36,4      | 28,6       |
| 400       | 355        | -- | 753 900 019 | 2  | 4.800  | 260       | 95         | 90         | 36,4      | 32,3       |
| 450       | 280        | -- | 753 900 020 | 1  | 9.000  | 230       | 60         | 70         | 40,9      | 25,4       |
| 450       | 315        | -- | 753 900 021 | 1  | 8.000  | 230       | 60         | 80         | 40,9      | 28,6       |
| 450       | 355        | -- | 753 900 022 | 1  | 7.400  | 230       | 60         | 90         | 40,9      | 32,3       |
| 450       | 400        | -- | 753 900 023 | 1  | 6.600  | 230       | 60         | 95         | 40,9      | 36,4       |
| 500       | 315        | -- | 753 900 024 | 1  | 12.000 | 230       | 60         | 80         | 45,5      | 28,6       |
| 500       | 355        | -- | 753 900 025 | 1  | 10.800 | 230       | 60         | 90         | 45,5      | 32,3       |
| 500       | 400        | -- | 753 900 026 | 1  | 10.000 | 230       | 60         | 95         | 45,5      | 36,4       |
| 500       | 450        | -- | 753 900 027 | 1  | 8.300  | 200       | 60         | 60         | 45,5      | 40,9       |
| 710       | 500        | -- | 753 900 035 | 1  | 24.157 | 190       | 84         | 40         | 64,5      | 45,4       |
| 710       | 560        | -- | 753 900 036 | 1  | 21.770 | 170       | 81         | 40         | 64,5      | 50,8       |
| 710       | 630        | -- | 753 900 037 | 1  | 17.845 | 140       | 71         | 40         | 64,5      | 57,2       |

## Reducer PE100 SDR17/17.6

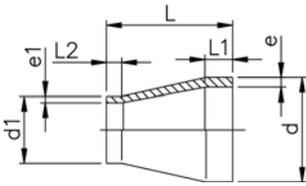
### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined



| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|-------|-----------|------------|------------|-----------|------------|
| 50        | 40         | IR | 753 908 926 | -  | 0.010 | 55        | 12         | 12         | 2,9       | 2,3        |
| 63        | 40         | IR | 753 908 927 | -  | 0.020 | 65        | 16         | 12         | 3,6       | 2,3        |
| 63        | 50         | IR | 753 908 928 | -  | 0.020 | 65        | 16         | 12         | 3,6       | 2,9        |
| 75        | 40         | IR | 753 908 904 | 20 | 0.041 | 71        | 19         | 12         | 4,3       | 2,3        |
| 75        | 50         | IR | 753 908 465 | 10 | 0.049 | 65        | 20         | 20         | 4,8       | 3,2        |
| 75        | 63         | IR | 753 908 464 | 10 | 0.056 | 65        | 20         | 20         | 4,8       | 4,0        |
| 90        | 63         | IR | 753 908 471 | 20 | 0.083 | 75        | 20         | 19         | 5,7       | 4,0        |
| 90        | 75         | IR | 753 908 470 | 12 | 0.092 | 75        | 20         | 20         | 5,7       | 4,8        |
| 110       | 75         | IR | 753 908 477 | 8  | 0.149 | 89        | 28         | 18         | 6,9       | 4,8        |
| 110       | 90         | IR | 753 908 476 | 10 | 0.165 | 90        | 28         | 20         | 6,9       | 5,7        |
| 125       | 110        | IR | 753 908 912 | 12 | 0.151 | 108       | 32         | 28         | 7,1       | 6,3        |
| 140       | 110        | IR | 753 908 917 | 8  | 0.144 | 115       | 35         | 28         | 8,0       | 6,3        |
| 140       | 125        | IR | 753 908 916 | 8  | 0.150 | 115       | 35         | 32         | 8,0       | 7,1        |
| 160       | 110        | IR | 753 908 922 | 4  | 0.287 | 124       | 40         | 28         | 9,1       | 6,3        |
| 160       | 140        | IR | 753 908 920 | 2  | 0.245 | 124       | 40         | 35         | 9,1       | 8,0        |
| 180       | 90         | IR | 753 908 975 | 2  | 0.445 | 157       | 45         | 22         | 10,2      | 5,1        |
| 180       | 110        | IR | 753 908 976 | -  | 0.367 | 157       | 45         | 28         | 10,2      | 6,3        |
| 180       | 125        | IR | 753 908 977 | 2  | 0.347 | 136       | 45         | 32         | 10,2      | 7,1        |

table continued next page



| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | kg     | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|--------|-----------|------------|------------|-----------|------------|
| 180       | 140        | IR | <b>753 908 978</b> | 2  | 0.344  | 136       | 45         | 35         | 10,2      | 8,0        |
| 180       | 160        | IR | <b>753 908 979</b> | -  | 0.351  | 136       | 45         | 40         | 10,2      | 9,1        |
| 200       | 160        | IR | <b>753 908 931</b> | 1  | 0.835  | 151       | 50         | 40         | 11,4      | 9,1        |
| 200       | 180        | IR | <b>753 908 981</b> | -  | 0.467  | 151       | 50         | 45         | 11,4      | 10,2       |
| 225       | 110        | IR | <b>753 908 938</b> | 2  | 1.295  | 160       | 55         | 35         | 12,8      | 6,3        |
| 225       | 160        | IR | <b>753 908 933</b> | 2  | 0.620  | 171       | 55         | 40         | 12,8      | 9,1        |
| 225       | 180        | IR | <b>753 908 985</b> | -  | 0.601  | 171       | 55         | 45         | 12,8      | 10,2       |
| 225       | 200        | IR | <b>753 908 932</b> | 1  | 0.614  | 171       | 55         | 50         | 12,8      | 11,4       |
| 250       | 160        | -- | <b>753 908 939</b> | 1  | 0.975  | 194       | 60         | 40         | 14,2      | 9,1        |
| 250       | 180        | -- | <b>753 902 801</b> | 5  | 1.690  | 175       | 60         | 55         | 14,8      | 10,7       |
| 250       | 200        | -- | <b>753 902 802</b> | 5  | 1.820  | 180       | 60         | 60         | 14,8      | 11,9       |
| 250       | 225        | -- | <b>753 908 937</b> | 1  | 0.681  | 182       | 60         | 55         | 14,2      | 12,8       |
| 280       | 200        | -- | <b>753 902 804</b> | 6  | 2.440  | 205       | 70         | 50         | 16,6      | 11,9       |
| 280       | 225        | -- | <b>753 908 944</b> | 1  | 1.180  | 105       | 30         | 20         | 15,9      | 12,8       |
| 280       | 250        | -- | <b>753 908 943</b> | 1  | 0.858  | 70        | 30         | 18         | 15,9      | 14,2       |
| 315       | 200        | -- | <b>753 902 807</b> | 5  | 3.360  | 225       | 80         | 50         | 18,7      | 11,9       |
| 315       | 225        | -- | <b>753 908 950</b> | 1  | 1.715  | 130       | 30         | 20         | 17,9      | 12,8       |
| 315       | 250        | -- | <b>753 908 949</b> | 1  | 1.446  | 100       | 30         | 20         | 17,9      | 14,2       |
| 315       | 280        | -- | <b>753 908 999</b> | -  | 1.047  | 63        | 30         | 18         | 17,9      | 15,9       |
| 355       | 225        | -- | <b>753 902 811</b> | 8  | 4.700  | 245       | 90         | 55         | 21,1      | 13,4       |
| 355       | 250        | -- | <b>753 902 812</b> | 2  | 9.425  | 245       | 90         | 60         | 21,1      | 14,8       |
| 355       | 280        | -- | <b>753 902 813</b> | 8  | 4.100  | 245       | 90         | 70         | 21,1      | 16,6       |
| 355       | 315        | -- | <b>753 902 814</b> | 8  | 3.700  | 245       | 90         | 80         | 21,1      | 18,7       |
| 400       | 225        | -- | <b>753 902 815</b> | 2  | 4.600  | 260       | 95         | 60         | 23,7      | 13,4       |
| 400       | 250        | -- | <b>753 902 816</b> | 2  | 4.400  | 260       | 95         | 70         | 23,7      | 14,8       |
| 400       | 280        | -- | <b>753 902 817</b> | 2  | 4.400  | 260       | 95         | 70         | 23,7      | 16,6       |
| 400       | 315        | -- | <b>753 902 818</b> | 2  | 3.520  | 260       | 95         | 80         | 23,7      | 18,7       |
| 400       | 355        | -- | <b>753 902 819</b> | 2  | 3.320  | 260       | 95         | 90         | 23,7      | 21,1       |
| 450       | 280        | -- | <b>753 902 820</b> | 1  | 6.340  | 230       | 60         | 70         | 26,7      | 16,6       |
| 450       | 315        | -- | <b>753 902 821</b> | 1  | 5.400  | 230       | 60         | 80         | 26,7      | 18,7       |
| 450       | 355        | -- | <b>753 902 822</b> | 1  | 5.000  | 230       | 60         | 90         | 26,7      | 21,1       |
| 450       | 400        | -- | <b>753 902 823</b> | 1  | 4.400  | 230       | 60         | 95         | 26,7      | 23,7       |
| 500       | 315        | -- | <b>753 902 824</b> | 1  | 8.100  | 230       | 60         | 80         | 29,7      | 18,7       |
| 500       | 355        | -- | <b>753 902 825</b> | 1  | 7.300  | 230       | 60         | 90         | 29,7      | 21,1       |
| 500       | 400        | -- | <b>753 902 826</b> | 1  | 7.080  | 230       | 60         | 95         | 29,7      | 23,7       |
| 500       | 450        | -- | <b>753 902 827</b> | 1  | 5.500  | 200       | 60         | 60         | 29,7      | 26,7       |
| 560       | 400        | -- | <b>753 902 828</b> | 1  | 9.900  | 230       | 60         | 95         | 33,2      | 23,7       |
| 560       | 450        | -- | <b>753 902 829</b> | 1  | 8.600  | 200       | 60         | 60         | 33,2      | 26,7       |
| 560       | 500        | -- | <b>753 902 830</b> | 1  | 7.600  | 200       | 60         | 60         | 33,2      | 29,7       |
| 630       | 400        | -- | <b>753 902 831</b> | 1  | 15.100 | 230       | 60         | 95         | 37,4      | 23,7       |
| 630       | 450        | -- | <b>753 902 832</b> | 1  | 13.700 | 200       | 60         | 60         | 37,4      | 26,7       |
| 630       | 500        | -- | <b>753 902 833</b> | 1  | 12.000 | 200       | 60         | 60         | 37,4      | 29,7       |
| 630       | 560        | -- | <b>753 902 834</b> | 1  | 9.800  | 200       | 60         | 60         | 37,4      | 33,2       |
| 710       | 500        | -- | <b>753 902 835</b> | 1  | 16.750 | 190       | 84         | 40         | 42,1      | 29,7       |
| 710       | 560        | -- | <b>753 902 836</b> | 1  | 15.014 | 170       | 81         | 40         | 42,1      | 33,2       |
| 710       | 630        | -- | <b>753 902 837</b> | 1  | 12.215 | 140       | 71         | 40         | 42,1      | 37,4       |
| 800       | 560        | -- | <b>753 902 838</b> | 1  | 22.731 | 200       | 85         | 40         | 47,4      | 33,2       |
| 800       | 630        | -- | <b>753 902 839</b> | 1  | 20.475 | 180       | 85         | 40         | 47,4      | 37,4       |
| 800       | 710        | -- | <b>753 902 840</b> | 1  | 16.774 | 150       | 78         | 40         | 47,4      | 42,1       |
| 900       | 630        | -- | <b>753 902 841</b> | 1  | 32.055 | 220       | 96         | 40         | 53,3      | 37,4       |
| 900       | 710        | -- | <b>753 902 842</b> | 1  | 27.731 | 190       | 89         | 40         | 53,3      | 42,1       |
| 900       | 800        | -- | <b>753 902 843</b> | 1  | 22.854 | 160       | 85         | 40         | 53,3      | 47,4       |
| 1000      | 710        | -- | <b>753 902 844</b> | 1  | 40.412 | 220       | 91         | 40         | 59,3      | 42,1       |
| 1000      | 800        | -- | <b>753 902 845</b> | 1  | 33.910 | 180       | 86         | 40         | 59,3      | 47,4       |
| 1000      | 900        | -- | <b>753 902 846</b> | 1  | 25.824 | 140       | 75         | 40         | 59,3      | 53,3       |

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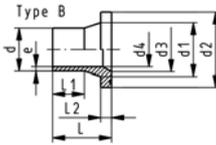
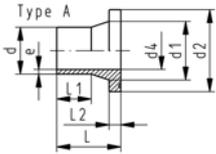
## Flange adaptor PE100 SDR11

### Joining face combination serrated/flat metric

#### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567,568 and 037
- For butterfly valves  $\geq$ DN350, please choose flange adaptor no. 53 79 88
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

#### \* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg     |
|-----------|------------|--------------------|----|----|--------|
| * 250     | 250        | <b>753 798 826</b> | 1  | 5  | 3.260  |
| * 280     | 250        | <b>753 798 827</b> | 1  | 5  | 3.760  |
| * 315     | 300        | <b>753 798 828</b> | 1  | 6  | 4.385  |
| * 355     | 350        | <b>753 798 829</b> | 1  | 4  | 5.855  |
| * 400     | 400        | <b>753 798 830</b> | 1  | 2  | 8.760  |
| * 450     | 500        | <b>753 798 831</b> | 1  | 14 | 14.680 |
| * 500     | 500        | <b>753 798 832</b> | 1  | 14 | 13.630 |
| * 560     | 600        | <b>753 798 833</b> | 1  | 9  | 19.380 |
| * 630     | 600        | <b>753 798 834</b> | 1  | 9  | 16.500 |
| 710       | 700        | <b>753 798 835</b> | 1  | 9  | 21.586 |
| 800       | 800        | <b>753 798 836</b> | 1  | 9  | 28.505 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 250     | 250        | 285        | 320        | 245        | 204        | 121       | 54         | 35         | 22,7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 119       | 69         | 35         | 25,4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 166       | 88         | 35         | 28,6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 187       | 98         | 40         | 32,2      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 196       | 106        | 45         | 36,3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 139       | 61         | 60         | 40,9      |
| * 500     | 500        | 530        | 585        | 440        | 409        | 138       | 62         | 60         | 45,4      |
| * 560     | 600        | 615        | 684        | 490        | 458        | 135       | 20         | 60         | 50,8      |
| * 630     | 600        | 642        | 684        | 545        | 516        | 135       | 40         | 60         | 57,2      |
| 710       | 700        | 737        | 800        |            | 581        | 120       | 20         | 60         | 64,5      |
| 800       | 800        | 840        | 905        |            | 655        | 120       | 18         | 65         | 72,6      |

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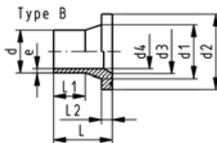
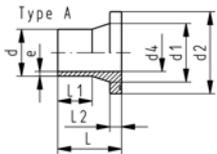
## Flange adaptor PE100 S8.3/SDR17.6

### Joining face combination serrated/flat metric

#### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567,568 and 037
- For butterfly valves  $\geq$ DN350, please choose flange adaptor no. 53 79 88
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

#### \* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg     |
|-----------|------------|--------------------|----|----|--------|
| * 250     | 250        | <b>753 798 851</b> | 1  | 5  | 2.315  |
| * 280     | 250        | <b>753 798 852</b> | 1  | 5  | 2.165  |
| * 315     | 300        | <b>753 798 853</b> | 1  | 6  | 3.080  |
| * 355     | 350        | <b>753 798 854</b> | 1  | 4  | 4.155  |
| * 400     | 400        | <b>753 798 855</b> | 1  | 2  | 6.050  |
| 450       | 500        | <b>753 798 856</b> | 1  | 14 | 9.960  |
| 500       | 500        | <b>753 798 857</b> | 1  | 14 | 9.865  |
| 560       | 600        | <b>753 798 858</b> | 1  | 9  | 14.875 |
| 630       | 600        | <b>753 798 859</b> | 1  | 9  | 12.515 |
| 710       | 700        | <b>753 798 860</b> | 1  | 9  | 15.878 |
| 800       | 800        | <b>753 798 861</b> | 1  | 9  | 20.948 |
| 900       | 900        | <b>753 798 862</b> | 1  | 9  | 29.183 |
| 1000      | 1000       | <b>753 798 863</b> | 1  | 9  | 36.209 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 250     | 250        | 285        | 320        | 245        | 220        | 121       | 61         | 25         | 14,8      |
| * 280     | 250        | 291        | 320        | 265        | 246        | 119       | 69         | 25         | 16,6      |
| * 315     | 300        | 335        | 370        | 300        | 277        | 164       | 86         | 25         | 18,7      |
| * 355     | 350        | 373        | 430        | 340        | 312        | 180       | 100        | 30         | 21,1      |
| * 400     | 400        | 427        | 482        | 385        | 352        | 197       | 110        | 33         | 23,7      |
| 450       | 500        | 514        | 585        |            | 396        | 141       | 64         | 46         | 26,7      |
| 500       | 500        | 530        | 585        |            | 440        | 141       | 67         | 46         | 29,7      |
| 560       | 600        | 615        | 685        |            | 493        | 142       | 60         | 50         | 33,2      |
| 630       | 600        | 642        | 685        |            | 555        | 144       | 71         | 50         | 37,4      |
| 710       | 700        | 737        | 800        |            | 626        | 120       | 20         | 50         | 42,1      |
| 800       | 800        | 840        | 905        |            | 705        | 120       | 18         | 52         | 47,4      |
| 900       | 900        | 944        | 1005       |            | 793        | 140       | 15         | 55         | 53,3      |
| 1000      | 1000       | 1047       | 1110       |            | 881        | 140       | 10         | 60         | 59,3      |



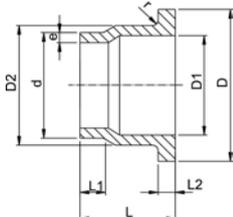
## Outlet flange adaptor PE80 SDR11

#### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Suitable for wafer check valves Type 369

#### Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | r<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|
| 40        | 32         | <b>733 808 034</b> | -  | -  | 0.064 | 80        | 37         | 50         | 64        | 30         | 11         | 3,7       | 3         |
| 50        | 40         | <b>733 808 035</b> | -  | -  | 0.088 | 90        | 43         | 61         | 67        | 30         | 12         | 4,6       | 3         |
| 63        | 50         | <b>733 808 036</b> | -  | -  | 0.126 | 105       | 54         | 76         | 74        | 30         | 14         | 5,8       | 4         |
| 75        | 65         | <b>733 808 037</b> | -  | -  | 0.187 | 125       | 70         | 90         | 78        | 30         | 16         | 6,8       | 4         |
| 90        | 80         | <b>733 808 038</b> | -  | -  | 0.346 | 140       | 82         | 108        | 87        | 35         | 17         | 8,2       | 4         |
| 110       | 100        | <b>733 808 039</b> | -  | -  | 0.500 | 160       | 105        | 131        | 102       | 41         | 18         | 10,0      | 4         |
| 140       | 125        | <b>733 808 041</b> | -  | -  | 0.710 | 190       | 130        | 165        | 124       | 47         | 25         | 12,7      | 4         |
| 160       | 150        | <b>733 808 042</b> | -  | -  | 0.910 | 215       | 158        | 188        | 149       | 52         | 25         | 14,6      | 4         |
| 225       | 200        | <b>733 808 045</b> | -  | -  | 1.830 | 270       | 206        | 248        | 180       | 55         | 32         | 20,5      | 4         |
| 280       | 250        | <b>733 808 047</b> | -  | -  | 3.550 | 325       | 259        | 308        | 240       | 63         | 35         | 25,4      | 4         |
| 315       | 300        | <b>733 808 048</b> | -  | -  | 4.960 | 375       | 308        | 346        | 272       | 66         | 35         | 28,6      | 4         |



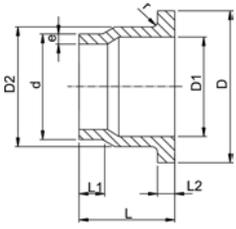
## Outlet flange adaptor PE80 SDR17.6

### Model:

- Conventional butt-welding according to DVS 2207 part 11
- Suitable for wafer check valves Type 369

### Attention:

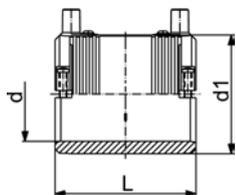
- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | r<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|
| 40        | 32         | <b>733 808 009</b> | -  | -  | 0.060 | 80        | 37         | 50         | 64        | 30         | 11         | 2,3       | 3         |
| 50        | 40         | <b>733 808 010</b> | -  | -  | 0.067 | 90        | 43         | 61         | 67        | 30         | 12         | 2,9       | 3         |
| 63        | 50         | <b>733 808 011</b> | -  | -  | 0.096 | 105       | 54         | 76         | 74        | 30         | 14         | 3,6       | 4         |
| 75        | 65         | <b>733 808 012</b> | -  | -  | 0.170 | 125       | 70         | 90         | 78        | 30         | 16         | 4,3       | 4         |
| 90        | 80         | <b>733 808 013</b> | -  | -  | 0.260 | 140       | 82         | 108        | 87        | 35         | 17         | 5,1       | 4         |
| 110       | 100        | <b>733 808 014</b> | -  | -  | 0.355 | 160       | 105        | 131        | 102       | 41         | 18         | 6,3       | 4         |
| 140       | 125        | <b>733 808 016</b> | -  | -  | 0.500 | 190       | 130        | 165        | 124       | 47         | 18         | 8,0       | 4         |
| 160       | 150        | <b>733 808 017</b> | -  | -  | 0.630 | 215       | 158        | 188        | 149       | 52         | 18         | 9,1       | 4         |
| 225       | 200        | <b>733 808 020</b> | -  | -  | 1.225 | 270       | 206        | 248        | 180       | 55         | 24         | 12,8      | 4         |
| 280       | 250        | <b>733 808 022</b> | -  | -  | 2.230 | 325       | 259        | 308        | 240       | 63         | 25         | 15,9      | 4         |
| 315       | 300        | <b>733 808 023</b> | -  | -  | 2.450 | 375       | 308        | 346        | 272       | 66         | 25         | 17,9      | 4         |

# ELGEF Plus Electrofusion Fittings

53 91 16

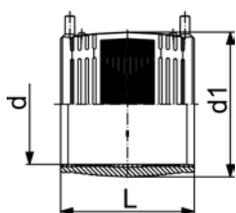


## Coupler with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|
| 20        | 753 911 606 | 1  | 50 | 0.054 | 31         | 68        |
| 25        | 753 911 607 | 1  | 50 | 0.060 | 36         | 68        |
| 32        | 753 911 608 | 1  | 50 | 0.072 | 44         | 72        |
| 40        | 753 911 609 | 1  | 50 | 0.100 | 54         | 80        |
| 50        | 753 911 610 | 1  | 10 | 0.136 | 66         | 88        |
| 63        | 753 911 611 | 1  | 10 | 0.194 | 81         | 96        |

53 91 16

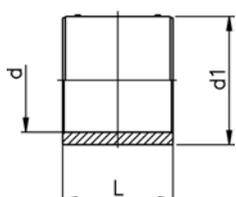


## Coupler

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

| d<br>[mm] | Code        | SP | GP | kg     | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|----|--------|------------|-----------|
| 75        | 753 911 612 | 1  | 12 | 0.287  | 96         | 110       |
| 90        | 753 911 613 | 1  | 10 | 0.421  | 113        | 125       |
| 110       | 753 911 614 | 1  | 5  | 0.697  | 138        | 145       |
| 125       | 753 911 615 | 1  | 5  | 0.738  | 154        | 158       |
| 140       | 753 911 616 | 1  | 5  | 0.968  | 172        | 168       |
| 160       | 753 911 617 | 1  | 6  | 1.390  | 196        | 180       |
| 180       | 753 911 618 | 1  | 5  | 1.750  | 219        | 194       |
| 200       | 753 911 619 | 1  | 4  | 2.350  | 244        | 208       |
| 225       | 753 911 620 | 1  | 3  | 3.193  | 273        | 224       |
| 250       | 753 911 621 | 1  | 2  | 4.210  | 304        | 244       |
| 280       | 753 911 622 | 1  | 1  | 5.675  | 340        | 252       |
| 315       | 753 911 623 | 1  | 1  | 8.000  | 382        | 268       |
| 355       | 753 911 624 | 1  | 1  | 12.110 | 432        | 290       |
| 400       | 753 911 625 | 1  | 1  | 15.993 | 487        | 290       |

53 91 18

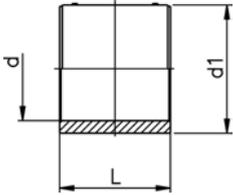


## Coupler

- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

| d<br>[mm] | Code        | GP | kg     | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|--------|------------|-----------|
| 160       | 753 911 817 | 6  | 1.050  | 186        | 180       |
| 180       | 753 911 818 | 6  | 1.450  | 213        | 194       |
| 200       | 753 911 819 | 4  | 1.800  | 233        | 208       |
| 225       | 753 911 820 | 3  | 2.385  | 261        | 224       |
| 250       | 753 911 821 | 2  | 4.345  | 304        | 244       |
| 280       | 753 911 822 | 1  | 5.675  | 340        | 252       |
| 315       | 753 911 823 | 1  | 8.000  | 382        | 268       |
| 355       | 753 911 824 | 1  | 8.200  | 414        | 290       |
| 400       | 753 911 825 | 1  | 15.993 | 487        | 290       |
| 450       | 753 911 826 | 1  | 16.000 | 522        | 313       |
| 500       | 753 911 827 | 1  | 22.000 | 579        | 343       |

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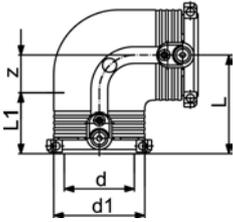


## Coupler

- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- 2 separate welding zones
- **Installation only with pressure pad kit (799 301 561)**
- For welding with MSA fusion units a generator with min. 4 kW power output is recommended

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] |  |  |
|-----------|--------------------|----|----|--------|------------|-----------|--|--|
| 560       | <b>753 911 828</b> | 1  | 1  | 25.500 | 638        | 392       |  |  |
| 630       | <b>753 911 829</b> | 1  | 1  | 35.000 | 716        | 442       |  |  |

53 10 16

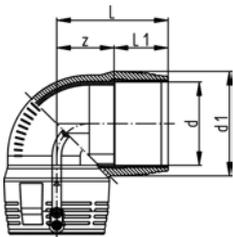


## Elbow 90° with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |  |  |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|--|--|
| 20        | <b>753 101 606</b> | 1  | 10 | 0.093 | 35         | 54        | 34         | 20        |  |  |
| 25        | <b>753 101 607</b> | 1  | 10 | 0.078 | 35         | 54        | 34         | 20        |  |  |
| 32        | <b>753 101 608</b> | 1  | 10 | 0.098 | 44         | 53        | 36         | 17        |  |  |
| 40        | <b>753 101 609</b> | 1  | 10 | 0.142 | 54         | 62        | 39         | 23        |  |  |
| 50        | <b>753 101 610</b> | 1  | 10 | 0.215 | 66         | 71        | 43         | 28        |  |  |
| 63        | <b>753 101 611</b> | 1  | 10 | 0.280 | 81         | 81        | 48         | 32        |  |  |

53 10 18

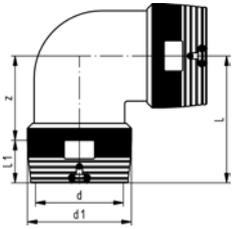


## Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |  |  |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|--|--|
| 75        | <b>753 101 812</b> | 1  | 33 | 0.530 | 97         | 101       | 61         | 40        |  |  |
| 90        | <b>753 101 813</b> | 1  | 15 | 0.822 | 115        | 122       | 62         | 60        |  |  |
| 110       | <b>753 101 814</b> | 1  | 8  | 1.190 | 140        | 147       | 72         | 76        |  |  |
| 125       | <b>753 101 815</b> | 1  | 5  | 1.829 | 151        | 142       | 74         | 68        |  |  |
| 160       | <b>753 101 817</b> | 1  | 4  | 3.433 | 196        | 178       | 92         | 86        |  |  |
| 180       | <b>753 101 818</b> | 1  | 4  | 4.286 | 219        | 195       | 95         | 100       |  |  |

53 10 18

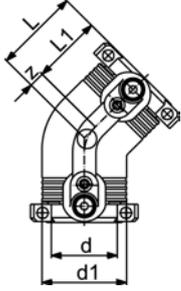


## Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|--------|------------|-----------|------------|-----------|
| 200       | <b>753 101 819</b> | 1  | 1  | 8.173  | 245        | 265       | 104        | 161       |
| 225       | <b>753 101 820</b> | 1  | 1  | 12.440 | 274        | 305       | 112        | 193       |
| 250       | <b>753 101 821</b> | 1  | 1  | 15.800 | 305        | 335       | 123        | 212       |

53 15 16

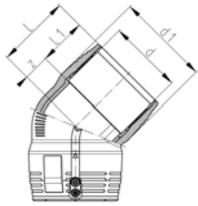


## Elbow 45° with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 32        | <b>753 151 608</b> | 1  | 20 | 0.087 | 44         | 44        | 36         | 8         |
| 40        | <b>753 151 609</b> | 1  | 10 | 0.121 | 54         | 50        | 39         | 11        |
| 50        | <b>753 151 610</b> | 1  | 10 | 0.140 | 66         | 56        | 43         | 13        |
| 63        | <b>753 151 611</b> | 1  | 10 | 0.274 | 81         | 63        | 48         | 15        |

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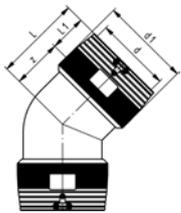


## Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 75        | <b>753 151 812</b> | 1  | 40 | 0.437 | 97         | 79        | 62         | 17        |
| 90        | <b>753 151 813</b> | 1  | 20 | 0.537 | 115        | 91        | 62         | 29        |
| 110       | <b>753 151 814</b> | 1  | 12 | 0.974 | 140        | 112       | 72         | 40        |
| 125       | <b>753 151 815</b> | 1  | 6  | 1.420 | 160        | 127       | 78         | 49        |
| 160       | <b>753 151 817</b> | 1  | 5  | 1.800 | 196        | 134       | 92         | 42        |
| 180       | <b>753 151 818</b> | 1  | 4  | 3.200 | 217        | 142       | 95         | 47        |

53 15 18

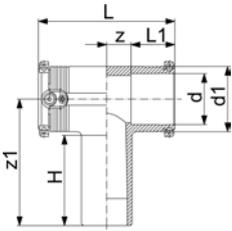


## Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|--------|------------|-----------|------------|-----------|
| 200       | <b>753 151 819</b> | 1  | 1  | 6.810  | 245        | 215       | 104        | 111       |
| 225       | <b>753 151 820</b> | 1  | 1  | 10.590 | 274        | 235       | 112        | 123       |
| 250       | <b>753 151 821</b> | 1  | 1  | 12.740 | 305        | 263       | 123        | 140       |

53 21 16

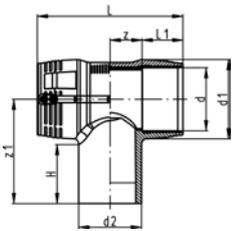


### Tee 90°, equal with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 20        | <b>753 211 606</b> | 10 | 10 | 0.100 | 35         | 90        | 34         | 11        | 92         | 67        |
| 25        | <b>753 211 607</b> | 10 | 10 | 0.088 | 35         | 90        | 34         | 11        | 92         | 70        |
| 32        | <b>753 211 608</b> | 1  | 10 | 0.115 | 44         | 102       | 36         | 15        | 100        | 74        |
| 40        | <b>753 211 609</b> | 1  | 10 | 0.176 | 54         | 120       | 39         | 21        | 114        | 82        |
| 50        | <b>753 211 610</b> | 5  | 5  | 0.268 | 66         | 135       | 43         | 24        | 126        | 90        |
| 63        | <b>753 211 611</b> | 5  | 5  | 0.429 | 81         | 152       | 48         | 28        | 150        | 102       |

53 20 18

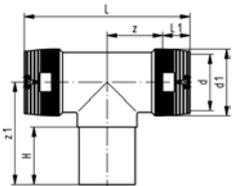


### Tee 90° equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 75        | <b>753 201 812</b> | 1  | 26 | 0.597 | 97         | 187       | 61         | 33        | 126        | 78        |
| 90        | <b>753 201 813</b> | 1  | 10 | 0.910 | 115        | 205       | 62         | 41        | 161        | 94        |
| 110       | <b>753 201 814</b> | 1  | 6  | 1.420 | 140        | 255       | 72         | 56        | 184        | 104       |
| 125       | <b>753 201 815</b> | 1  | 4  | 2.200 | 161        | 276       | 78         | 60        | 207        | 113       |
| 160       | <b>753 201 817</b> | 1  | 3  | 4.893 | 196        | 325       | 92         | 71        | 206        | 103       |
| 180       | <b>753 201 818</b> | 1  | 2  | 6.770 | 225        | 344       | 90         | 82        | 250        | 110       |

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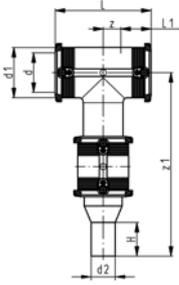


### Tee 90°, equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|--------------------|----|----|--------|------------|-----------|------------|-----------|------------|-----------|
| 200       | <b>753 201 819</b> | 1  | 1  | 10.100 | 245        | 560       | 104        | 176       | 250        | 117       |
| 225       | <b>753 201 820</b> | 1  | 1  | 15.145 | 274        | 610       | 112        | 193       | 270        | 122       |
| 250       | <b>753 201 821</b> | 1  | 1  | 18.100 | 305        | 667       | 123        | 211       | 288        | 127       |

93 28 10

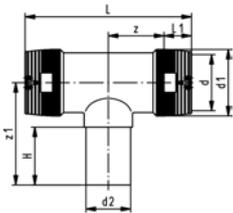


### Tee 90°, reduced (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

| d<br>[mm] | d2<br>[mm] | Code        | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|--------|------------|-----------|------------|-----------|------------|-----------|
| 40        | 20         | 193 281 004 | 0.314  | 54         | 120       | 39         | 21        | 244        | 212       |
| 40        | 25         | 193 281 005 | 0.319  | 54         | 120       | 39         | 21        | 244        | 212       |
| 75        | 40         | 193 280 998 | 1.060  | 97         | 187       | 61         | 33        | 296        | 248       |
| 90        | 50         | 193 280 999 | 1.620  | 112        | 202       | 61         | 41        | 336        | 274       |
| 110       | 63         | 193 280 961 | 2.670  | 136        | 242       | 65         | 56        | 366        | 293       |
| 125       | 63         | 193 280 963 | 3.690  | 151        | 256       | 75         | 53        | 361        | 279       |
| 125       | 110        | 193 280 965 | 3.920  | 151        | 256       | 75         | 53        | 389        | 307       |
| 160       | 125        | 193 280 969 | 8.250  | 196        | 325       | 92         | 71        | 451        | 348       |
| 180       | 90         | 193 281 032 | 10.056 | 225        | 344       | 90         | 82        | 487        | 347       |
| 180       | 110        | 193 281 033 | 10.246 | 225        | 344       | 90         | 82        | 495        | 355       |

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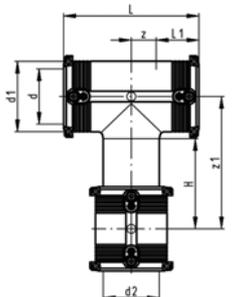


### Tee 90°, reduced

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | d2<br>[mm] | Code        | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|----|----|--------|------------|-----------|------------|-----------|------------|-----------|
| 160       | 63         | 753 211 037 | 1  | 2  | 4.940  | 196        | 405       | 90         | 113       | 176        | 65        |
| 160       | 90         | 753 211 039 | 1  | 2  | 5.040  | 196        | 405       | 90         | 113       | 188        | 79        |
| 160       | 110        | 753 211 040 | 1  | 2  | 5.160  | 196        | 405       | 90         | 113       | 195        | 85        |
| 200       | 90         | 753 211 059 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 215        | 81        |
| 200       | 110        | 753 211 060 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 218        | 84        |
| 200       | 160        | 753 211 063 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 236        | 101       |
| 225       | 90         | 753 211 069 | 1  | 1  | 12.700 | 274        | 615       | 112        | 196       | 226        | 80        |
| 225       | 110        | 753 211 070 | 1  | 1  | 12.750 | 274        | 615       | 112        | 196       | 235        | 85        |
| 225       | 160        | 753 211 073 | 1  | 1  | 13.200 | 274        | 615       | 112        | 196       | 255        | 105       |
| 250       | 110        | 753 211 080 | 1  | 1  | 11.260 | 305        | 668       | 123        | 211       | 245        | 85        |
| 250       | 160        | 753 211 083 | 1  | 1  | 11.260 | 305        | 668       | 123        | 211       | 264        | 101       |

53 20 16

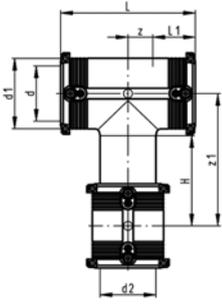


### Tee 90° with weldable outlet (Kit) equal or reduced

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler or ELGEF® Plus Reducer

| d<br>[mm] | d2<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 20        | 20         | 753 201 606 | 1  | 6  | 0.170 | 35         | 90        | 34         | 11        | 92         | 67        |
| 25        | 25         | 753 201 607 | 1  | 6  | 0.170 | 35         | 90        | 34         | 11        | 92         | 70        |
| 32        | 32         | 753 201 608 | 1  | 6  | 0.213 | 44         | 102       | 36         | 15        | 100        | 74        |
| 40        | 32         | 193 281 006 | 1  | 6  | 0.248 | 54         | 120       | 39         | 21        | 127        | 95        |
| 40        | 40         | 753 201 609 | 1  | 6  | 0.295 | 54         | 120       | 39         | 21        | 114        | 82        |
| 50        | 32         | 193 281 007 | 1  | 4  | 0.364 | 66         | 135       | 43         | 24        | 144        | 108       |
| 50        | 40         | 193 281 008 | 1  | 4  | 0.404 | 66         | 135       | 43         | 24        | 140        | 104       |
| 50        | 50         | 753 201 610 | 1  | 4  | 0.419 | 66         | 135       | 43         | 24        | 126        | 90        |
| 63        | 32         | 193 280 997 | 1  | 4  | 0.550 | 81         | 152       | 48         | 28        | 173        | 125       |
| 63        | 40         | 193 281 009 | 1  | 4  | 0.605 | 81         | 152       | 48         | 28        | 169        | 121       |
| 63        | 50         | 193 281 010 | 1  | 4  | 0.618 | 81         | 152       | 48         | 28        | 165        | 117       |
| 63        | 63         | 753 201 611 | 1  | 4  | 0.641 | 81         | 152       | 48         | 28        | 150        | 102       |
| 90        | 63         | 193 281 011 | 1  | 3  | 1.300 | 112        | 202       | 61         | 41        | 182        | 120       |

table continued next page



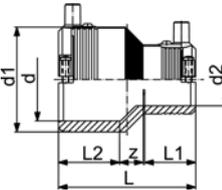
| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 90        | 90         | <b>753 201 613</b> | 1  | 3  | 1.450 | 112        | 202       | 61         | 41        | 146        | 84        |
| 110       | 90         | <b>193 281 012</b> | 1  | 2  | 2.294 | 136        | 242       | 65         | 56        | 200        | 127       |
| 110       | 110        | <b>753 201 614</b> | 1  | 2  | 2.400 | 136        | 242       | 65         | 56        | 161        | 88        |
| 125       | 90         | <b>193 281 013</b> | 1  | 1  | 2.850 | 151        | 256       | 75         | 53        | 214        | 132       |
| 125       | 125        | <b>753 201 615</b> | 1  | 1  | 2.930 | 151        | 256       | 75         | 53        | 174        | 92        |
| 160       | 110        | <b>193 281 030</b> | 1  | 1  | 6.093 | 196        | 325       | 92         | 71        | 271        | 168       |
| 160       | 160        | <b>753 201 617</b> | 1  | 1  | 6.664 | 196        | 325       | 92         | 71        | 206        | 103       |
| 180       | 125        | <b>193 281 031</b> | 1  | 1  | 8.770 | 225        | 344       | 90         | 82        | 330        | 190       |
| 180       | 180        | <b>753 201 618</b> | 1  | 1  | 9.600 | 225        | 344       | 90         | 82        | 250        | 110       |

53 90 16

## Reducer with integral pipe fixation



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators



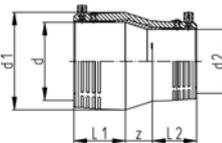
| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 25        | 20         | <b>753 901 639</b> | 20 | 20 | 0.059 | 35         | 74        | 34         | 34         | 6         |
| 32        | 20         | <b>753 901 640</b> | 1  | 20 | 0.071 | 44         | 79        | 33         | 36         | 10        |
| 32        | 25         | <b>753 901 641</b> | 1  | 20 | 0.060 | 44         | 79        | 33         | 36         | 10        |
| 40        | 20         | <b>753 901 644</b> | 1  | 20 | 0.069 | 54         | 88        | 33         | 39         | 15        |
| 40        | 25         | <b>753 901 645</b> | 1  | 20 | 0.071 | 54         | 88        | 33         | 39         | 15        |
| 40        | 32         | <b>753 901 646</b> | 1  | 20 | 0.072 | 54         | 88        | 33         | 39         | 13        |
| 50        | 32         | <b>753 901 651</b> | 1  | 10 | 0.096 | 66         | 96        | 35         | 43         | 18        |
| 50        | 40         | <b>753 901 652</b> | 1  | 15 | 0.136 | 66         | 96        | 39         | 43         | 14        |
| 63        | 32         | <b>753 901 656</b> | 1  | 10 | 0.171 | 81         | 106       | 35         | 48         | 23        |
| 63        | 40         | <b>753 901 657</b> | 1  | 10 | 0.176 | 81         | 106       | 39         | 48         | 19        |
| 63        | 50         | <b>753 901 658</b> | 1  | 10 | 0.189 | 81         | 106       | 43         | 48         | 15        |

53 90 18

## Reducer



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators



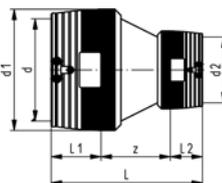
| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 90        | 63         | <b>753 901 831</b> | 1  | 30 | 0.360 | 113        | 146       | 63         | 47         | 36        |
| 110       | 90         | <b>753 901 833</b> | 1  | 16 | 0.657 | 138        | 173       | 73         | 63         | 38        |
| 125       | 90         | <b>753 901 836</b> | 1  | 12 | 0.878 | 152        | 180       | 79         | 61         | 40        |
| 160       | 110        | <b>753 901 834</b> | 1  | 5  | 1.200 | 196        | 226       | 91         | 70         | 65        |
| 180       | 125        | <b>753 901 835</b> | 1  | 4  | 2.000 | 220        | 247       | 97         | 70         | 80        |

53 90 18

## Reducer

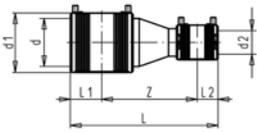


- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones



| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 200       | 160        | <b>753 901 837</b> | 1  | 1  | 4.150 | 245        | 311       | 104        | 90         | 117       |
| 225       | 160        | <b>753 901 838</b> | 1  | 1  | 5.240 | 274        | 331       | 112        | 90         | 129       |
| 250       | 160        | <b>753 901 840</b> | 1  | 2  | 7.100 | 305        | 362       | 123        | 90         | 149       |
| 250       | 200        | <b>753 901 841</b> | 1  | 2  | 7.680 | 305        | 380       | 123        | 104        | 153       |

93 28 09

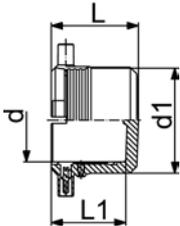


## Reducer (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEG® Plus Coupler and Spigot Reducer

| d<br>[mm] | d2<br>[mm] | Code               | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|-------|------------|-----------|------------|------------|-----------|
| 75        | 40         | <b>193 280 992</b> | 0.567 | 96         | 265       | 55         | 40         | 170       |
| 75        | 50         | <b>193 280 993</b> | 0.610 | 96         | 269       | 55         | 44         | 170       |
| 75        | 63         | <b>193 280 994</b> | 0.700 | 96         | 273       | 55         | 48         | 170       |
| 90        | 50         | <b>193 280 958</b> | 0.848 | 113        | 297       | 63         | 44         | 190       |
| 90        | 75         | <b>193 280 995</b> | 1.070 | 113        | 308       | 63         | 55         | 190       |
| 110       | 63         | <b>193 280 950</b> | 1.490 | 138        | 326       | 73         | 48         | 205       |
| 110       | 75         | <b>193 280 996</b> | 1.480 | 138        | 333       | 73         | 55         | 205       |
| 125       | 63         | <b>193 280 953</b> | 1.580 | 154        | 314       | 79         | 48         | 187       |
| 125       | 110        | <b>193 280 951</b> | 2.360 | 154        | 367       | 79         | 73         | 215       |
| 160       | 90         | <b>193 280 954</b> | 3.060 | 196        | 370       | 90         | 63         | 217       |
| 160       | 125        | <b>193 280 952</b> | 3.680 | 196        | 414       | 90         | 79         | 245       |
| 180       | 110        | <b>193 280 959</b> | 4.167 | 214        | 413       | 95         | 73         | 245       |

53 96 16

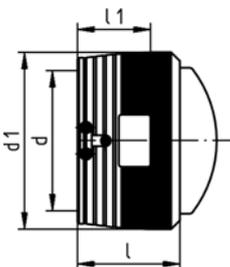


## End Cap with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|
| 20        | <b>753 961 606</b> | 1  | 50 | 0.038 | 35         | 52        | 44         |
| 25        | <b>753 961 607</b> | 1  | 50 | 0.030 | 35         | 52        | 44         |
| 32        | <b>753 961 608</b> | 1  | 50 | 0.080 | 44         | 52        | 44         |
| 40        | <b>753 961 609</b> | 1  | 50 | 0.074 | 54         | 56        | 47         |
| 50        | <b>753 961 610</b> | 1  | 10 | 0.086 | 66         | 60        | 49         |
| 63        | <b>753 961 611</b> | 1  | 10 | 0.154 | 81         | 66        | 54         |

53 96 16

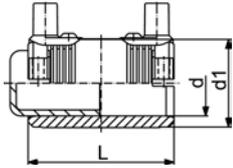


## End Cap

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|
| 160       | <b>753 961 617</b> | 1  | 2  | 1.840 | 196        | 129       | 90         |
| 200       | <b>753 961 619</b> | 1  | 2  | 3.040 | 245        | 147       | 104        |
| 225       | <b>753 961 620</b> | 1  | 4  | 4.140 | 274        | 157       | 112        |
| 250       | <b>753 961 621</b> | 1  | 1  | 5.860 | 305        | 173       | 123        |

53 96 17

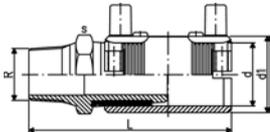


### End cap (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler
- \* Article to be discontinued, replaced by 53 96 16

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|
| 75        | <b>753 961 712</b> | 1  | 6  | 0.446 | 96         | 110       |
| 90        | <b>753 961 713</b> | 1  | 5  | 0.680 | 113        | 125       |
| 110       | <b>753 961 714</b> | 1  | 3  | 1.126 | 133        | 145       |
| 125       | <b>753 961 715</b> | 1  | 3  | 1.594 | 155        | 158       |
| 140       | <b>753 961 716</b> | 1  | 1  | 2.250 | 175        | 170       |
| * 160     | <b>753 961 717</b> | 1  | 1  | 2.712 | 197        | 180       |
| 180       | <b>753 961 718</b> | 1  | 1  | 4.136 | 220        | 194       |
| * 200     | <b>753 961 719</b> | 1  | 1  | 4.906 | 245        | 208       |
| * 225     | <b>753 961 720</b> | 1  | 1  | 6.500 | 296        | 224       |

20 92 07

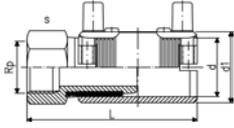


### Transition Coupler PE/brass (Ms 58) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>720 920 756</b> | 1  | 6  | 0.217 | 31         | 110       | 30        |
| 20        | 1           | <b>720 920 754</b> | 1  | 6  | 0.344 | 44         | 124       | 40        |
| 25        | ¾           | <b>720 920 757</b> | 1  | 6  | 0.280 | 36         | 111       | 35        |
| 25        | 1           | <b>720 920 763</b> | 1  | 6  | 0.364 | 44         | 124       | 40        |
| 32        | ½           | <b>720 920 764</b> | 1  | 6  | 0.235 | 44         | 121       | 30        |
| 32        | ¾           | <b>720 920 765</b> | 1  | 6  | 0.287 | 44         | 122       | 35        |
| 32        | 1           | <b>720 920 758</b> | 1  | 6  | 0.355 | 44         | 117       | 40        |
| 32        | 1 ¼         | <b>720 920 766</b> | 1  | 6  | 0.543 | 54         | 135       | 50        |
| 32        | 1 ½         | <b>720 920 767</b> | 1  | 6  | 0.685 | 60         | 143       | 60        |
| 32        | 2           | <b>720 920 768</b> | 1  | 3  | 1.000 | 81         | 157       | 70        |
| 40        | 1           | <b>720 920 771</b> | 1  | 6  | 0.387 | 54         | 133       | 40        |
| 40        | 1 ¼         | <b>720 920 759</b> | 1  | 6  | 0.541 | 54         | 127       | 50        |
| 40        | 1 ½         | <b>720 920 772</b> | 1  | 6  | 0.694 | 66         | 143       | 60        |
| 40        | 2           | <b>720 920 773</b> | 1  | 3  | 0.992 | 81         | 157       | 70        |
| 50        | 1           | <b>720 920 776</b> | 1  | 6  | 0.416 | 66         | 141       | 40        |
| 50        | 1 ¼         | <b>720 920 777</b> | 1  | 3  | 0.578 | 66         | 143       | 50        |
| 50        | 1 ½         | <b>720 920 760</b> | 1  | 6  | 0.670 | 66         | 135       | 60        |
| 50        | 2           | <b>720 920 778</b> | 1  | 3  | 0.994 | 81         | 157       | 70        |
| 63        | 1           | <b>720 920 781</b> | 1  | 3  | 0.460 | 81         | 151       | 40        |
| 63        | 1 ¼         | <b>720 920 782</b> | 1  | 3  | 0.626 | 81         | 153       | 40        |
| 63        | 1 ½         | <b>720 920 783</b> | 1  | 3  | 0.741 | 81         | 153       | 60        |
| 63        | 2           | <b>720 920 761</b> | 1  | 4  | 1.005 | 81         | 147       | 70        |

20 92 02

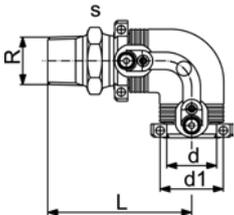


## Transition Coupler PE/brass (Ms 58) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|-----------|-----------|
| 32        | 1            | <b>720 920 258</b> | 1  | 6  | 0.338 | 44         | 108       | 40        |
| 40        | 1 ¼          | <b>720 920 259</b> | 1  | 6  | 0.511 | 54         | 118       | 50        |
| 50        | 1 ½          | <b>720 920 260</b> | 1  | 6  | 0.744 | 66         | 126       | 60        |
| 63        | 1            | <b>720 920 281</b> | 1  | 3  | 1.280 | 81         | 138       | 70        |
| 63        | 1 ¼          | <b>720 920 282</b> | 1  | 3  | 1.230 | 81         | 138       | 70        |
| 63        | 1 ½          | <b>720 920 283</b> | 1  | 3  | 1.115 | 81         | 138       | 70        |
| 63        | 2            | <b>720 920 261</b> | 1  | 3  | 1.016 | 81         | 138       | 70        |

20 10 07

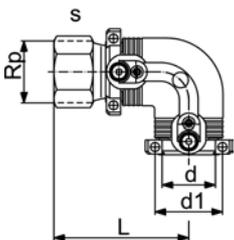


## Transition Elbow 90° PE/brass (Ms 58) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>720 100 756</b> | 1  | 6  | 0.240 | 31         | 96        | 30        |
| 25        | ¾           | <b>720 100 757</b> | 1  | 6  | 0.260 | 36         | 97        | 35        |
| 32        | 1           | <b>720 100 758</b> | 1  | 6  | 0.383 | 44         | 98        | 40        |
| 32        | 1 ¼         | <b>720 100 766</b> | 1  | 6  | 0.500 | 44         | 100       | 50        |
| 32        | 1 ½         | <b>720 100 767</b> | 1  | 6  | 0.562 | 44         | 100       | 60        |
| 40        | 1           | <b>720 100 771</b> | 1  | 6  | 0.528 | 54         | 107       | 50        |
| 40        | 1 ¼         | <b>720 100 759</b> | 1  | 6  | 0.584 | 54         | 109       | 50        |
| 40        | 1 ½         | <b>720 100 772</b> | 1  | 6  | 0.642 | 54         | 109       | 60        |
| 50        | 1           | <b>720 100 776</b> | 1  | 6  | 0.710 | 66         | 116       | 60        |
| 50        | 1 ¼         | <b>720 100 777</b> | 1  | 6  | 0.771 | 66         | 118       | 60        |
| 50        | 1 ½         | <b>720 100 760</b> | 1  | 6  | 0.757 | 66         | 118       | 60        |
| 63        | 1 ¼         | <b>720 100 782</b> | 1  | 3  | 1.040 | 81         | 128       | 70        |
| 63        | 1 ½         | <b>720 100 783</b> | 1  | 3  | 1.045 | 81         | 128       | 70        |
| 63        | 2           | <b>720 100 761</b> | 1  | 3  | 1.115 | 81         | 132       | 70        |

20 10 02

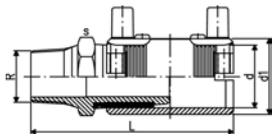


## Transition Elbow 90° PE/brass (Ms 58) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|-----------|-----------|
| 32        | 1            | <b>720 100 258</b> | 1  | 6  | 0.365 | 44         | 89        | 40        |
| 40        | 1 ¼          | <b>720 100 259</b> | 1  | 6  | 0.556 | 54         | 100       | 50        |
| 50        | 1 ½          | <b>720 100 260</b> | 1  | 6  | 0.819 | 66         | 109       | 60        |
| 63        | 1            | <b>720 100 281</b> | 1  | 3  | 1.420 | 81         | 123       | 70        |
| 63        | 1 ¼          | <b>720 100 282</b> | 1  | 3  | 1.380 | 81         | 123       | 70        |
| 63        | 1 ½          | <b>720 100 283</b> | 1  | 3  | 1.305 | 81         | 123       | 70        |
| 63        | 2            | <b>720 100 261</b> | 1  | 3  | 1.165 | 81         | 123       | 70        |

24 92 07

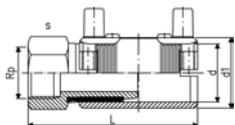


## Transition Coupler PE/steel (stainless 1.4305) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions

| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>724 920 756</b> | 6  | 6  | 0.210 | 31         | 110       | 30        |
| 25        | ¾           | <b>724 920 757</b> | 6  | 6  | 0.260 | 36         | 111       | 35        |
| 32        | 1           | <b>724 920 758</b> | 6  | 6  | 0.347 | 44         | 117       | 40        |
| 32        | 1 ½         | <b>724 920 767</b> | 6  | 6  | 0.330 | 44         | 125       | 60        |
| 40        | 1 ¼         | <b>724 920 759</b> | 6  | 6  | 0.519 | 54         | 127       | 50        |
| 40        | 1 ½         | <b>724 920 772</b> | 6  | 6  | 0.690 | 66         | 143       | 60        |
| 50        | 1 ½         | <b>724 920 760</b> | 1  | 6  | 0.657 | 66         | 135       | 60        |
| 63        | 1 ½         | <b>724 920 771</b> | 3  | 3  | 0.904 | 81         | 147       | 70        |
| 63        | 2           | <b>724 920 761</b> | 3  | 3  | 0.963 | 81         | 147       | 70        |

24 92 02

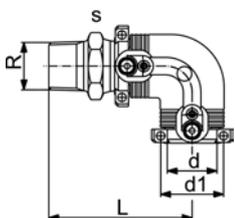


## Transition Coupler PE/steel (stainless 1.4305) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½            | <b>724 920 256</b> | 6  | 6  | 0.197 | 31         | 100       | 30        |
| 25        | ¾            | <b>724 920 257</b> | 6  | 6  | 0.253 | 36         | 101       | 35        |
| 32        | 1            | <b>724 920 258</b> | 1  | 6  | 0.340 | 44         | 108       | 40        |
| 40        | 1 ¼          | <b>724 920 259</b> | 1  | 6  | 0.505 | 54         | 118       | 50        |
| 50        | 1 ½          | <b>724 920 260</b> | 6  | 6  | 0.725 | 66         | 126       | 60        |
| 63        | 2            | <b>724 920 261</b> | 3  | 3  | 0.995 | 81         | 138       | 70        |

24 10 07



## Transition Elbow 90° PE/steel (stainless 1.4305) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

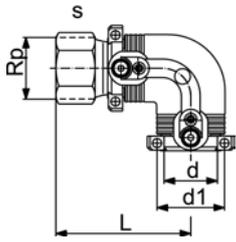
| d<br>[mm] | R<br>[inch] | Code               | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>724 100 756</b> | 6  | 0.211 | 31         | 96        | 30        |
| 25        | ¾           | <b>724 100 757</b> | 6  | 0.230 | 36         | 97        | 35        |
| 32        | 1           | <b>724 100 758</b> | 6  | 0.370 | 44         | 98        | 40        |
| 40        | 1 ¼         | <b>724 100 759</b> | 6  | 0.560 | 54         | 109       | 50        |
| 40        | 1 ½         | <b>724 100 772</b> | 6  | 0.730 | 54         | 109       | 60        |
| 50        | 1 ½         | <b>724 100 760</b> | 6  | 0.730 | 66         | 118       | 60        |
| 63        | 1 ½         | <b>724 100 771</b> | 3  | 1.040 | 81         | 132       | 70        |
| 63        | 2           | <b>724 100 761</b> | 3  | 1.105 | 81         | 132       | 70        |

24 10 02

## Transition Elbow 90° PE/steel (stainless 1.4305) Female Thread



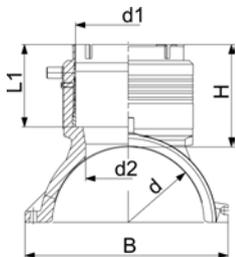
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit



| d<br>[mm] | Rp<br>[inch] | Code               | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|-------|------------|-----------|-----------|
| 20        | ½            | <b>724 100 256</b> | 6  | 0.211 | 31         | 86        | 30        |
| 25        | ¾            | <b>724 100 257</b> | 6  | 0.237 | 36         | 87        | 35        |
| 32        | 1            | <b>724 100 258</b> | 6  | 0.360 | 44         | 89        | 40        |
| 40        | 1 ¼          | <b>724 100 259</b> | 6  | 0.545 | 54         | 100       | 50        |
| 50        | 1 ½          | <b>724 100 260</b> | 6  | 0.805 | 66         | 109       | 60        |
| 63        | 2            | <b>724 100 261</b> | 3  | 1.135 | 81         | 123       | 70        |

# ELGEF Plus Branch Fitting

51 336 001



## Branch Fitting

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- \* Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193 281 027

| d [mm] | d1 [mm] | Code               | SP | GP | kg    | H [mm] | L [mm] | L1 [mm] | B [mm] | d2 [mm] |
|--------|---------|--------------------|----|----|-------|--------|--------|---------|--------|---------|
| 110    | 90      | <b>193 135 009</b> | 1  | 4  | 1.074 | 101    | 220    | 82      | 164    | 65      |
| 110    | 110     | <b>193 135 010</b> | 1  | 4  | 1.152 | 107    | 220    | 88      | 164    | 65      |
| 125    | 90      | <b>193 135 019</b> | 1  | 4  | 1.134 | 101    | 220    | 82      | 179    | 65      |
| 125    | 110     | <b>193 135 020</b> | 1  | 4  | 1.258 | 107    | 220    | 88      | 179    | 65      |
| * 140  | 90      | <b>193 135 029</b> | 1  | 4  | 1.134 | 101    | 220    | 81      | 195    | 65      |
| * 140  | 110     | <b>193 135 030</b> | 1  | 4  | 1.258 | 107    | 220    | 87      | 195    | 65      |
| 160    | 90      | <b>193 135 039</b> | 1  | 4  | 1.444 | 102    | 240    | 82      | 215    | 65      |
| 160    | 110     | <b>193 135 040</b> | 1  | 4  | 1.523 | 108    | 240    | 88      | 215    | 86      |
| 160    | 125     | <b>193 135 041</b> | 1  | 4  | 1.738 | 129    | 240    | 99      | 215    | 86      |
| 180    | 90      | <b>193 135 049</b> | 1  | 1  | 1.714 | 102    | 260    | 82      | 237    | 65      |
| 180    | 110     | <b>193 135 050</b> | 1  | 1  | 1.782 | 108    | 260    | 88      | 237    | 86      |
| 180    | 125     | <b>193 135 051</b> | 1  | 1  | 1.972 | 129    | 260    | 99      | 237    | 86      |
| 200    | 90      | <b>193 135 059</b> | 1  | 1  | 1.811 | 102    | 260    | 82      | 253    | 65      |
| 200    | 110     | <b>193 135 060</b> | 1  | 1  | 1.879 | 108    | 260    | 88      | 253    | 86      |
| 200    | 125     | <b>193 135 061</b> | 1  | 1  | 2.069 | 129    | 260    | 99      | 253    | 86      |
| 225    | 90      | <b>193 135 069</b> | 1  | 1  | 1.959 | 102    | 260    | 82      | 287    | 65      |
| 225    | 110     | <b>193 135 070</b> | 1  | 1  | 2.027 | 108    | 260    | 88      | 287    | 86      |
| 225    | 125     | <b>193 135 071</b> | 1  | 1  | 2.217 | 129    | 260    | 99      | 287    | 86      |
| 250    | 90      | <b>193 135 079</b> | 1  | 1  | 2.116 | 102    | 260    | 82      | 312    | 65      |
| 250    | 110     | <b>193 135 080</b> | 1  | 2  | 2.184 | 108    | 260    | 88      | 312    | 86      |
| 250    | 125     | <b>193 135 081</b> | 1  | 1  | 2.374 | 129    | 260    | 99      | 312    | 86      |

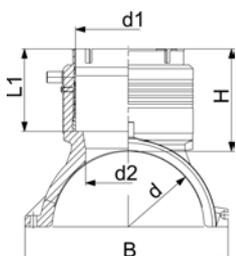


## Multiple use Assembly Tool Branch fitting d140mm

- Only to be used with Branch Fitting d140mm
- Delivered as complete Kit including screws and belt

| d [mm] | Code               | kg    |
|--------|--------------------|-------|
| 140    | <b>193 281 027</b> | 0.740 |

51 336 001

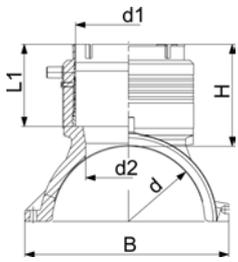


## Branch Fitting Topload

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

| d [mm]    | d1 [mm] | Code               | SP | GP | kg    | H [mm] | L [mm] | L1 [mm] | B [mm] | d2 [mm] |
|-----------|---------|--------------------|----|----|-------|--------|--------|---------|--------|---------|
| 280       | 90      | <b>193 135 289</b> | 1  | 5  | 1.180 | 102    | 260    | 82      | 243    | 65      |
| 280       | 110     | <b>193 135 290</b> | 1  | 5  | 1.280 | 108    | 260    | 88      | 243    | 86      |
| 280       | 125     | <b>193 135 291</b> | 1  | 5  | 1.480 | 129    | 260    | 99      | 243    | 86      |
| 315 - 355 | 90      | <b>193 135 309</b> | 1  | 5  | 1.180 | 102    | 260    | 82      | 249    | 65      |
| 315 - 355 | 110     | <b>193 135 310</b> | 1  | 4  | 1.280 | 108    | 260    | 88      | 249    | 86      |
| 315 - 355 | 125     | <b>193 135 311</b> | 1  | 5  | 1.480 | 129    | 260    | 99      | 249    | 86      |
| 400 - 450 | 90      | <b>193 135 329</b> | 1  | 5  | 1.180 | 102    | 260    | 82      | 256    | 65      |
| 400 - 450 | 110     | <b>193 135 330</b> | 1  | 4  | 1.280 | 108    | 260    | 88      | 256    | 86      |

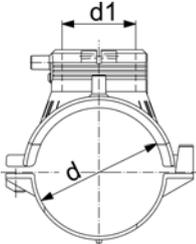
table continued next page



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | H<br>[mm] | L<br>[mm] | L1<br>[mm] | B<br>[mm] | d2<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|-----------|------------|-----------|------------|
| 400 - 450 | 125        | <b>193 135 331</b> | 1  | 4  | 1.280 | 129       | 260       | 99         | 256       | 86         |
| 500 - 630 | 90         | <b>193 135 159</b> | 1  | 5  | 1.060 | 102       | 260       | 82         | 263       | 65         |
| 500 - 630 | 110        | <b>193 135 160</b> | 1  | 5  | 1.160 | 108       | 260       | 88         | 263       | 86         |
| 500 - 630 | 125        | <b>193 135 161</b> | 1  | 4  | 1.360 | 129       | 260       | 99         | 263       | 86         |

# ELGEF Plus Saddles and Valves

53 131 000



L = length / Länge

## Electrofusion Saddle

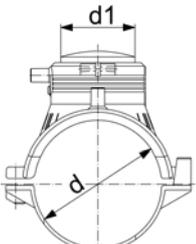
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- \*\*\*Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators

\*not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems

\*\* = not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems / delivery without lower part for assembling as Top load with tool 799.350.475

| d<br>[mm]    | d1<br>[mm] | Code               | SP | GP | kg    | L<br>[mm] |
|--------------|------------|--------------------|----|----|-------|-----------|
| 63           | 63         | <b>193 131 037</b> | 1  | 5  | 0.335 | 165       |
| 75           | 63         | <b>193 131 047</b> | 1  | 5  | 0.465 | 165       |
| 90           | 63         | <b>193 131 057</b> | 1  | 5  | 0.425 | 165       |
| 110          | 63         | <b>193 131 067</b> | 1  | 3  | 0.493 | 165       |
| *** 110      | 63         | <b>193 133 067</b> | 1  | 10 | 0.404 | 182       |
| 125          | 63         | <b>193 131 077</b> | 1  | 3  | 0.523 | 165       |
| 140          | 63         | <b>193 131 087</b> | 1  | 3  | 0.523 | 165       |
| 160          | 63         | <b>193 131 097</b> | 1  | 4  | 0.526 | 165       |
| *** 160      | 63         | <b>193 133 097</b> | 1  | 7  | 0.595 | 182       |
| 180          | 63         | <b>193 131 107</b> | 1  | 5  | 0.632 | 165       |
| 200          | 63         | <b>193 131 117</b> | 1  | 5  | 0.651 | 165       |
| 225          | 63         | <b>193 131 127</b> | 1  | 4  | 0.653 | 165       |
| * 250        | 63         | <b>193 131 137</b> | 1  | 4  | 0.665 | 165       |
| ** 280       | 63         | <b>193 131 147</b> | 1  | 8  | 0.370 | 165       |
| ** 315 - 400 | 63         | <b>193 131 157</b> | 1  | 8  | 0.370 | 165       |

53 130 000



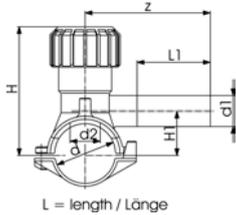
L = length / Länge

## Repair Saddle

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Spigot Cap (753.961.011)
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

| d<br>[mm]   | d1<br>[mm] | Code               | SP | GP | kg    | L<br>[mm] |
|-------------|------------|--------------------|----|----|-------|-----------|
| 63          | 63         | <b>193 130 037</b> | 1  | 5  | 0.433 | 165       |
| 75          | 63         | <b>193 130 047</b> | 3  | 3  | 0.574 | 165       |
| 90          | 63         | <b>193 130 057</b> | 1  | 5  | 0.538 | 165       |
| 110         | 63         | <b>193 130 067</b> | 1  | 3  | 0.592 | 165       |
| 125         | 63         | <b>193 130 077</b> | 1  | 3  | 0.622 | 165       |
| 140         | 63         | <b>193 130 087</b> | 1  | 3  | 0.660 | 165       |
| 160         | 63         | <b>193 130 097</b> | 1  | 3  | 0.627 | 165       |
| 180         | 63         | <b>193 130 107</b> | 1  | 5  | 0.733 | 165       |
| 200         | 63         | <b>193 130 117</b> | 1  | 5  | 0.751 | 165       |
| 225         | 63         | <b>193 130 127</b> | 1  | 5  | 0.768 | 165       |
| 250         | 63         | <b>193 130 137</b> | 1  | 3  | 0.758 | 165       |
| * 280       | 63         | <b>193 130 147</b> | 6  | 6  | 0.450 | 165       |
| * 315 - 400 | 63         | <b>193 130 157</b> | 1  | 6  | 0.450 | 165       |

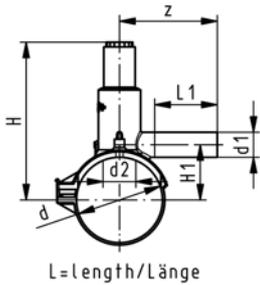
53 131 400



## Tapping Saddle Monobloc version

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 40        | 20         | <b>193 131 412</b> | 1  | 6  | 0.270 | 16         | 99        | 33         | 103       | 70         | 102       |
| 40        | 25         | <b>193 131 413</b> | 1  | 6  | 0.272 | 16         | 99        | 33         | 103       | 70         | 102       |
| 40        | 32         | <b>193 131 414</b> | 1  | 6  | 0.277 | 16         | 99        | 33         | 103       | 70         | 120       |
| 50        | 20         | <b>193 131 422</b> | 1  | 5  | 0.260 | 16         | 104       | 38         | 103       | 70         | 102       |
| 50        | 25         | <b>193 131 423</b> | 1  | 5  | 0.262 | 16         | 104       | 38         | 103       | 70         | 102       |
| 50        | 32         | <b>193 131 424</b> | 1  | 5  | 0.270 | 16         | 104       | 38         | 103       | 70         | 120       |



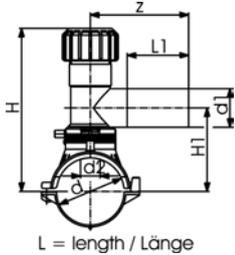
## Tapping Saddle Monobloc version



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 63        | 20         | <b>193 131 932</b> | 1  | 20 | 0.390 | 25         | 146       | 44         | 144       | 76         | 110       |
| 63        | 25         | <b>193 131 933</b> | 1  | 20 | 0.390 | 25         | 146       | 44         | 144       | 76         | 110       |
| 63        | 32         | <b>193 131 934</b> | 1  | 20 | 0.390 | 25         | 146       | 44         | 144       | 76         | 110       |
| 90        | 20         | <b>193 131 952</b> | 1  | 12 | 0.450 | 32         | 198       | 61         | 162       | 76         | 115       |
| 90        | 25         | <b>193 131 953</b> | 1  | 12 | 0.450 | 32         | 198       | 61         | 162       | 76         | 115       |
| 90        | 32         | <b>193 131 954</b> | 1  | 12 | 0.450 | 32         | 198       | 61         | 162       | 76         | 115       |
| 110       | 20         | <b>193 131 962</b> | 1  | 9  | 0.535 | 32         | 208       | 71         | 162       | 76         | 115       |
| 110       | 25         | <b>193 131 963</b> | 1  | 9  | 0.665 | 32         | 208       | 71         | 162       | 76         | 115       |
| 110       | 32         | <b>193 131 964</b> | 1  | 9  | 0.535 | 32         | 208       | 71         | 162       | 76         | 125       |
| 110       | 63         | <b>193 131 967</b> | 1  | 8  | 0.600 | 32         | 208       | 71         | 162       | 100        | 160       |
| 125       | 20         | <b>193 131 972</b> | 1  | 6  | 0.600 | 32         | 216       | 79         | 162       | 76         | 120       |
| 125       | 25         | <b>193 131 973</b> | 1  | 6  | 0.600 | 32         | 216       | 79         | 162       | 76         | 120       |
| 125       | 32         | <b>193 131 974</b> | 1  | 6  | 0.600 | 32         | 216       | 79         | 162       | 76         | 120       |
| 160       | 20         | <b>193 131 992</b> | 1  | 6  | 0.665 | 32         | 233       | 96         | 162       | 76         | 120       |
| 160       | 25         | <b>193 131 993</b> | 1  | 6  | 0.665 | 32         | 233       | 96         | 162       | 76         | 125       |
| 160       | 32         | <b>193 131 994</b> | 1  | 6  | 0.665 | 32         | 233       | 96         | 162       | 76         | 130       |
| 160       | 63         | <b>193 131 997</b> | 1  | 6  | 0.700 | 32         | 233       | 96         | 162       | 100        | 170       |

53 131 400

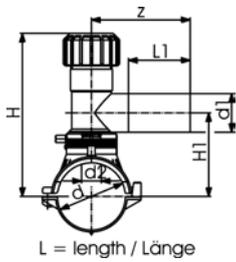


## Tapping Saddle with 360° rotatable outlet

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d315 - 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 63        | 20         | <b>193 131 402</b> | 1  | 3  | 0.695 | 32         | 186       | 108        | 165       | 71         | 130       |
| 63        | 25         | <b>193 131 403</b> | 1  | 3  | 0.713 | 32         | 186       | 108        | 165       | 71         | 130       |
| 63        | 32         | <b>193 131 404</b> | 1  | 3  | 0.715 | 32         | 186       | 108        | 165       | 76         | 130       |
| 63        | 40         | <b>193 131 405</b> | 1  | 3  | 0.731 | 32         | 186       | 108        | 165       | 81         | 137       |
| 63        | 63         | <b>193 131 437</b> | 1  | 5  | 1.455 | 32         | 134       | 112        | 165       | 100        | 160       |
| 75        | 20         | <b>193 131 442</b> | 1  | 3  | 0.825 | 32         | 191       | 113        | 165       | 71         | 130       |
| 75        | 25         | <b>193 131 443</b> | 1  | 3  | 0.839 | 32         | 191       | 113        | 165       | 71         | 130       |
| 75        | 32         | <b>193 131 444</b> | 1  | 3  | 0.841 | 32         | 191       | 113        | 165       | 76         | 130       |
| 75        | 40         | <b>193 131 445</b> | 1  | 3  | 0.858 | 32         | 191       | 113        | 165       | 81         | 137       |
| 75        | 63         | <b>193 131 447</b> | 1  | 5  | 1.579 | 32         | 240       | 118        | 165       | 100        | 160       |
| 90        | 20         | <b>193 131 452</b> | 1  | 3  | 0.791 | 32         | 199       | 121        | 165       | 71         | 130       |
| 90        | 25         | <b>193 131 453</b> | 1  | 3  | 0.802 | 32         | 199       | 121        | 165       | 71         | 130       |
| 90        | 32         | <b>193 131 454</b> | 1  | 3  | 0.801 | 32         | 199       | 121        | 165       | 76         | 130       |
| 90        | 40         | <b>193 131 455</b> | 1  | 3  | 0.819 | 32         | 199       | 121        | 165       | 81         | 137       |
| 90        | 63         | <b>193 131 457</b> | 1  | 5  | 1.541 | 32         | 248       | 126        | 165       | 100        | 160       |
| 110       | 20         | <b>193 131 462</b> | 1  | 8  | 0.853 | 32         | 209       | 131        | 165       | 71         | 130       |
| 110       | 25         | <b>193 131 463</b> | 1  | 8  | 0.860 | 32         | 209       | 131        | 165       | 71         | 130       |
| 110       | 32         | <b>193 131 464</b> | 1  | 8  | 0.860 | 32         | 209       | 131        | 165       | 76         | 130       |
| 110       | 40         | <b>193 131 465</b> | 1  | 8  | 0.877 | 32         | 209       | 131        | 165       | 81         | 137       |
| 110       | 63         | <b>193 131 467</b> | 1  | 5  | 1.590 | 35         | 258       | 136        | 165       | 100        | 160       |
| 125       | 20         | <b>193 131 472</b> | 1  | 3  | 0.879 | 32         | 216       | 138        | 165       | 71         | 130       |
| 125       | 25         | <b>193 131 473</b> | 4  | 4  | 0.883 | 32         | 216       | 138        | 165       | 71         | 130       |
| 125       | 32         | <b>193 131 474</b> | 1  | 3  | 0.889 | 32         | 216       | 138        | 165       | 76         | 130       |
| 125       | 40         | <b>193 131 475</b> | 1  | 3  | 0.906 | 32         | 216       | 138        | 165       | 81         | 137       |
| 125       | 63         | <b>193 131 477</b> | 1  | 3  | 1.623 | 35         | 265       | 143        | 165       | 100        | 160       |
| 140       | 20         | <b>193 131 482</b> | 3  | 3  | 0.887 | 32         | 233       | 146        | 165       | 71         | 130       |
| 140       | 25         | <b>193 131 483</b> | 3  | 3  | 0.884 | 32         | 233       | 146        | 165       | 71         | 130       |
| 140       | 32         | <b>193 131 484</b> | 1  | 3  | 0.900 | 32         | 233       | 146        | 165       | 76         | 130       |
| 140       | 40         | <b>193 131 485</b> | 3  | 3  | 0.920 | 32         | 233       | 146        | 165       | 81         | 137       |
| 140       | 63         | <b>193 131 487</b> | 1  | 3  | 1.639 | 35         | 273       | 151        | 165       | 100        | 160       |
| 160       | 20         | <b>193 131 492</b> | 1  | 3  | 0.886 | 32         | 243       | 156        | 165       | 71         | 130       |
| 160       | 25         | <b>193 131 493</b> | 1  | 3  | 0.896 | 32         | 243       | 156        | 165       | 71         | 130       |
| 160       | 32         | <b>193 131 494</b> | 1  | 3  | 0.896 | 32         | 243       | 156        | 165       | 76         | 130       |
| 160       | 40         | <b>193 131 495</b> | 1  | 3  | 0.920 | 32         | 243       | 156        | 165       | 81         | 137       |
| 160       | 63         | <b>193 131 497</b> | 1  | 3  | 1.636 | 35         | 283       | 161        | 165       | 100        | 160       |
| 180       | 20         | <b>193 131 502</b> | 1  | 3  | 1.002 | 32         | 244       | 166        | 165       | 71         | 130       |
| 180       | 25         | <b>193 131 503</b> | 1  | 3  | 1.002 | 32         | 244       | 166        | 165       | 71         | 130       |
| 180       | 32         | <b>193 131 504</b> | 1  | 5  | 1.002 | 32         | 244       | 166        | 165       | 76         | 130       |
| 180       | 40         | <b>193 131 505</b> | 1  | 3  | 1.022 | 32         | 244       | 166        | 165       | 81         | 137       |
| 180       | 63         | <b>193 131 507</b> | 1  | 3  | 1.742 | 35         | 293       | 171        | 165       | 100        | 160       |
| 200       | 20         | <b>193 131 512</b> | 1  | 3  | 1.011 | 32         | 254       | 176        | 165       | 71         | 137       |
| 200       | 25         | <b>193 131 513</b> | 1  | 5  | 1.011 | 32         | 254       | 176        | 165       | 71         | 130       |
| 200       | 32         | <b>193 131 514</b> | 1  | 3  | 1.021 | 32         | 254       | 176        | 165       | 76         | 130       |
| 200       | 40         | <b>193 131 515</b> | 1  | 3  | 1.041 | 32         | 254       | 176        | 165       | 81         | 137       |
| 200       | 63         | <b>193 131 517</b> | 1  | 3  | 1.761 | 35         | 303       | 181        | 165       | 100        | 160       |
| 225       | 20         | <b>193 131 522</b> | 1  | 3  | 1.014 | 32         | 266       | 188        | 165       | 71         | 130       |
| 225       | 25         | <b>193 131 523</b> | 1  | 3  | 1.014 | 32         | 266       | 188        | 165       | 71         | 130       |
| 225       | 32         | <b>193 131 524</b> | 1  | 3  | 1.014 | 32         | 266       | 188        | 165       | 76         | 130       |
| 225       | 40         | <b>193 131 525</b> | 1  | 5  | 1.043 | 32         | 266       | 188        | 165       | 81         | 137       |
| 225       | 63         | <b>193 131 527</b> | 1  | 3  | 1.763 | 35         | 315       | 193        | 165       | 100        | 160       |

table continued next page



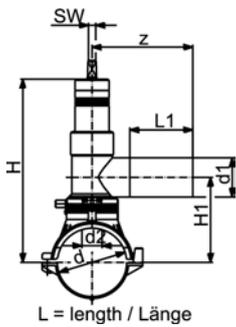
| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 250       | 20         | <b>193 131 532</b> | 1  | 3  | 1.025 | 32         | 279       | 201        | 165       | 76         | 130       |
| 250       | 25         | <b>193 131 533</b> | 1  | 3  | 1.035 | 32         | 279       | 201        | 165       | 76         | 130       |
| 250       | 32         | <b>193 131 534</b> | 1  | 3  | 1.035 | 32         | 279       | 201        | 165       | 76         | 130       |
| 250       | 40         | <b>193 131 535</b> | 1  | 3  | 1.055 | 32         | 279       | 201        | 165       | 81         | 137       |
| 250       | 63         | <b>193 131 537</b> | 1  | 3  | 1.775 | 35         | 328       | 206        | 165       | 100        | 160       |
| * 280     | 63         | <b>193 131 547</b> | 1  | 5  | 1.240 | 35         | 328       | 206        | 165       | 100        | 160       |
| * 315-400 | 63         | <b>193 131 557</b> | 1  | 5  | 1.513 | 35         | 328       | 206        | 165       | 100        | 160       |

53 152 200

## Pressure Tapping Valve with 360° rotatable outlet



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns to fully open or close valve is 28 for outlet d63
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet



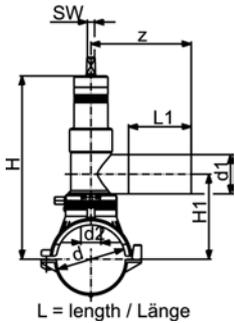
| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 63        | 32         | <b>193 155 234</b> | 1  | 5  | 2.935 | 21         | 202       | 97         | 165       | 70         | 127       |
| 63        | 63         | <b>193 155 237</b> | 1  | 5  | 2.935 | 31         | 272       | 112        | 165       | 100        | 160       |
| 75        | 32         | <b>193 155 244</b> | 1  | 5  | 3.065 | 21         | 208       | 103        | 165       | 70         | 127       |
| 75        | 63         | <b>193 155 247</b> | 1  | 5  | 3.065 | 31         | 278       | 118        | 165       | 100        | 160       |
| 90        | 32         | <b>193 155 254</b> | 1  | 5  | 3.025 | 21         | 216       | 111        | 165       | 70         | 127       |
| 90        | 63         | <b>193 155 257</b> | 1  | 5  | 3.025 | 31         | 286       | 126        | 165       | 100        | 160       |
| 110       | 32         | <b>193 155 264</b> | 1  | 3  | 3.093 | 21         | 226       | 121        | 165       | 70         | 127       |
| 110       | 63         | <b>193 155 267</b> | 1  | 5  | 3.093 | 31         | 296       | 136        | 165       | 100        | 160       |
| 125       | 32         | <b>193 155 274</b> | 1  | 3  | 3.123 | 21         | 233       | 128        | 165       | 70         | 127       |
| 125       | 63         | <b>193 155 277</b> | 1  | 3  | 3.123 | 31         | 303       | 143        | 165       | 100        | 160       |
| 140       | 32         | <b>193 155 284</b> | 1  | 3  | 3.123 | 21         | 241       | 136        | 165       | 70         | 127       |
| 140       | 63         | <b>193 155 287</b> | 1  | 3  | 3.123 | 31         | 311       | 151        | 165       | 100        | 160       |
| 160       | 32         | <b>193 155 294</b> | 1  | 3  | 3.126 | 21         | 251       | 146        | 165       | 70         | 127       |
| 160       | 63         | <b>193 155 297</b> | 1  | 4  | 3.126 | 31         | 321       | 161        | 165       | 100        | 160       |
| 180       | 32         | <b>193 155 304</b> | 1  | 3  | 3.232 | 21         | 261       | 156        | 165       | 70         | 127       |
| 180       | 63         | <b>193 155 307</b> | 1  | 3  | 3.232 | 31         | 331       | 171        | 165       | 100        | 160       |
| 200       | 32         | <b>193 155 314</b> | 1  | 3  | 3.251 | 21         | 271       | 166        | 165       | 70         | 127       |
| 200       | 63         | <b>193 155 317</b> | 1  | 3  | 3.251 | 31         | 341       | 181        | 165       | 100        | 160       |
| 225       | 32         | <b>193 155 324</b> | 1  | 3  | 3.253 | 21         | 281       | 178        | 165       | 70         | 127       |
| 225       | 63         | <b>193 155 327</b> | 1  | 3  | 3.253 | 31         | 353       | 193        | 165       | 100        | 160       |
| 250       | 63         | <b>193 155 337</b> | 1  | 3  | 3.000 | 31         | 366       | 206        | 165       | 100        | 160       |

53 152 300

## Pressure Tapping Valve with 360° rotatable outlet



- PE 100 SDR 17 (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- Suitable for pipes with wall thickness between 7 and 21 mm only.
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required



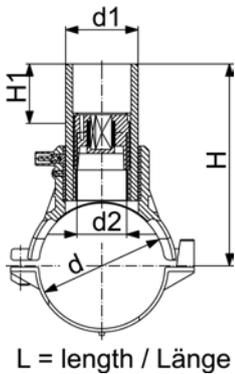
| d [mm]      | d1 [mm] | Code        | SP | GP | kg    | d2 [mm] | H [mm] | H1 [mm] | L [mm] | L1 [mm] | z [mm] |
|-------------|---------|-------------|----|----|-------|---------|--------|---------|--------|---------|--------|
| 250         | 32      | 193 155 334 | 1  | 3  | 3.000 | 21      | 293    | 191     | 165    | 70      | 127    |
| * 280       | 32      | 193 155 344 | 1  | 3  | 3.000 | 21      | 293    | 191     | 165    | 70      | 127    |
| * 280       | 63      | 193 155 347 | 1  | 3  | 3.000 | 31      | 366    | 206     | 165    | 100     | 160    |
| * 315 - 400 | 32      | 193 155 354 | 1  | 3  | 3.000 | 21      | 293    | 191     | 165    | 70      | 127    |
| * 315 - 400 | 63      | 193 155 357 | 1  | 3  | 3.000 | 31      | 366    | 206     | 165    | 100     | 160    |

53 131 200

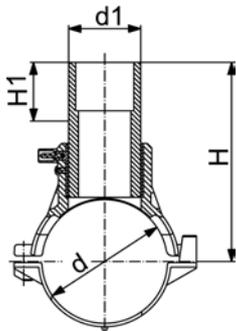
## Spigot Saddle with Cutter



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- d315 - 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required



| d [mm]      | d1 [mm] | Code        | SP | GP | kg    | d2 [mm] | H [mm] | H1 [mm] | L [mm] | SW [mm] |
|-------------|---------|-------------|----|----|-------|---------|--------|---------|--------|---------|
| 63          | 32      | 193 131 234 | 1  | 5  | 0.538 | 19      | 145    | 50      | 165    | 13      |
| 63          | 63      | 193 131 237 | 1  | 5  | 1.036 | 32      | 152    | 50      | 165    | 17      |
| 75          | 32      | 193 131 244 | 1  | 5  | 0.668 | 19      | 151    | 50      | 165    | 13      |
| 75          | 63      | 193 131 247 | 1  | 5  | 1.166 | 32      | 158    | 50      | 165    | 17      |
| 90          | 32      | 193 131 254 | 1  | 5  | 0.628 | 19      | 158    | 50      | 165    | 13      |
| 90          | 63      | 193 131 257 | 1  | 5  | 1.126 | 32      | 165    | 50      | 165    | 17      |
| 110         | 32      | 193 131 264 | 1  | 3  | 0.696 | 19      | 168    | 50      | 165    | 13      |
| 110         | 63      | 193 131 267 | 1  | 5  | 1.194 | 32      | 175    | 50      | 165    | 17      |
| 125         | 32      | 193 131 274 | 1  | 5  | 0.726 | 19      | 176    | 50      | 165    | 13      |
| 125         | 63      | 193 131 277 | 1  | 5  | 1.224 | 32      | 183    | 50      | 165    | 17      |
| 140         | 32      | 193 131 284 | 1  | 5  | 0.726 | 19      | 183    | 50      | 165    | 13      |
| 140         | 63      | 193 131 287 | 1  | 3  | 1.224 | 32      | 190    | 50      | 165    | 17      |
| 160         | 32      | 193 131 294 | 1  | 5  | 0.729 | 19      | 193    | 50      | 165    | 13      |
| 160         | 63      | 193 131 297 | 1  | 5  | 1.227 | 32      | 200    | 50      | 165    | 17      |
| 180         | 32      | 193 131 304 | 1  | 5  | 0.835 | 19      | 203    | 50      | 165    | 13      |
| 180         | 63      | 193 131 307 | 1  | 5  | 1.333 | 32      | 210    | 50      | 165    | 17      |
| 200         | 32      | 193 131 314 | 1  | 1  | 0.854 | 19      | 213    | 50      | 165    | 13      |
| 200         | 63      | 193 131 317 | 1  | 1  | 1.352 | 32      | 220    | 50      | 165    | 17      |
| 225         | 32      | 193 131 324 | 1  | 5  | 0.856 | 19      | 226    | 50      | 165    | 13      |
| 225         | 63      | 193 131 327 | 1  | 5  | 1.354 | 32      | 233    | 50      | 165    | 17      |
| 250         | 32      | 193 131 334 | 1  | 5  | 0.868 | 19      | 238    | 50      | 165    | 13      |
| 250         | 63      | 193 131 337 | 1  | 5  | 1.366 | 32      | 245    | 50      | 165    | 17      |
| * 280       | 63      | 193 131 347 | 1  | 5  | 0.830 | 35      | 245    | 50      | 165    | 17      |
| * 315 - 400 | 63      | 193 131 357 | 1  | 5  | 0.830 | 35      | 245    | 50      | 165    | 17      |



L = length / Länge

## Spigot Saddle

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- d315 - 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

| d<br>[mm]   | d1<br>[mm] | Code               | GP | kg    | H<br>[mm] | H1<br>[mm] | L<br>[mm] |
|-------------|------------|--------------------|----|-------|-----------|------------|-----------|
| 63          | 32         | <b>193 130 234</b> | 5  | 0.500 | 145       | 50         | 165       |
| 63          | 63         | <b>193 130 237</b> | 5  | 0.630 | 152       | 50         | 165       |
| 75          | 32         | <b>193 130 244</b> | 5  | 0.634 | 151       | 50         | 165       |
| 75          | 63         | <b>193 130 247</b> | 5  | 0.536 | 158       | 50         | 165       |
| 90          | 32         | <b>193 130 254</b> | 5  | 0.590 | 158       | 50         | 165       |
| 90          | 63         | <b>193 130 257</b> | 5  | 0.495 | 165       | 50         | 165       |
| 110         | 32         | <b>193 130 264</b> | 3  | 0.662 | 168       | 50         | 165       |
| 110         | 63         | <b>193 130 267</b> | 5  | 0.564 | 175       | 50         | 165       |
| 125         | 32         | <b>193 130 274</b> | 5  | 0.692 | 176       | 50         | 165       |
| 125         | 63         | <b>193 130 277</b> | 5  | 0.592 | 183       | 50         | 165       |
| 140         | 32         | <b>193 130 284</b> | 5  | 0.692 | 183       | 50         | 165       |
| 140         | 63         | <b>193 130 287</b> | 3  | 0.594 | 190       | 50         | 165       |
| 160         | 32         | <b>193 130 294</b> | 5  | 0.693 | 193       | 50         | 165       |
| 160         | 63         | <b>193 130 297</b> | 5  | 0.597 | 200       | 50         | 165       |
| 180         | 32         | <b>193 130 304</b> | 5  | 0.800 | 203       | 50         | 165       |
| 180         | 63         | <b>193 130 307</b> | 5  | 0.700 | 210       | 50         | 165       |
| 200         | 32         | <b>193 130 314</b> | 5  | 0.820 | 213       | 50         | 165       |
| 200         | 63         | <b>193 130 317</b> | 5  | 0.722 | 220       | 50         | 165       |
| 225         | 32         | <b>193 130 324</b> | 5  | 0.820 | 226       | 50         | 165       |
| 225         | 63         | <b>193 130 327</b> | 5  | 0.724 | 233       | 50         | 165       |
| 250         | 32         | <b>193 130 334</b> | 5  | 0.834 | 238       | 50         | 165       |
| 250         | 63         | <b>193 130 337</b> | 5  | 0.736 | 245       | 50         | 165       |
| * 280       | 63         | <b>193 130 347</b> | 5  | 0.400 | 245       | 50         | 165       |
| * 315 - 400 | 63         | <b>193 130 357</b> | 5  | 0.400 | 245       | 50         | 165       |

# Adapter

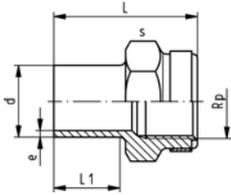
53 91 02

## Adaptor socket PE100 SDR11 metric Rp



### Model:

- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes



| d<br>[mm] | Rp<br>[inch] | DN<br>[mm] | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|--------------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | ¾            | 15         | IR | <b>753 910 266</b> | 10 | 180 | 0.018 | 48        | 23         | 32        | 1,9       |
| 25        | ¾            | 20         | IR | <b>753 910 267</b> | 10 | 100 | 0.022 | 50        | 23         | 36        | 2,3       |
| 32        | 1            | 25         | IR | <b>753 910 268</b> | 10 | 100 | 0.039 | 54        | 23         | 46        | 2,9       |
| 40        | 1 ¼          | 32         | IR | <b>753 910 269</b> | 10 | 100 | 0.068 | 56        | 23         | 55        | 3,7       |
| 50        | 1 ½          | 40         | IR | <b>753 910 270</b> | 10 | 60  | 0.087 | 60        | 23         | 65        | 4,6       |
| 63        | 2            | 50         | IR | <b>753 910 271</b> | 5  | 20  | 0.140 | 62        | 23         | 80        | 5,8       |

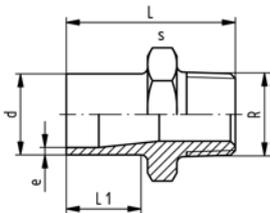
53 91 05

## Adaptor nipple PE100 SDR11 metric R



### Model:

- With butt fusion spigot SDR11 and tapered male thread
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes



| d<br>[mm] | R<br>[inch] | DN<br>[mm] | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|-------------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | ¾           | 15         | IR | <b>753 910 556</b> | 10 | 150 | 0.014 | 51        | 23         | 32        | 1,9       |
| 25        | ¾           | 20         | IR | <b>753 910 557</b> | 10 | 100 | 0.026 | 52        | 23         | 36        | 2,3       |
| 32        | 1           | 25         | IR | <b>753 910 558</b> | 10 | 100 | 0.029 | 55        | 23         | 46        | 3,0       |
| 40        | 1 ¼         | 32         | IR | <b>753 910 559</b> | 10 | 50  | 0.043 | 58        | 23         | 55        | 3,7       |
| 50        | 1 ½         | 40         | IR | <b>753 910 560</b> | 10 | 60  | 0.064 | 60        | 23         | 65        | 4,6       |
| 63        | 2           | 50         | IR | <b>753 910 561</b> | 5  | -   | 0.140 | 67        | 26         | 80        | 5,8       |

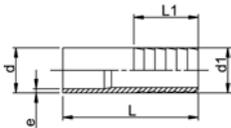
53 96 86

## Hose connector PE100 SDR11 metric



### Model:

- With butt fusion spigot **SDR11** and parallel hose connection



| d<br>[mm] | d1<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|------------|------------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | 20         | 15         | IR | <b>753 968 606</b> | 10 | -  | 0.008 | 64        | 27         | 1,9       |
| 25        | 25         | 20         | IR | <b>753 968 607</b> | 10 | -  | 0.013 | 75        | 36         | 2,3       |
| 32        | 32         | 25         | IR | <b>753 968 608</b> | 10 | -  | 0.021 | 82        | 36         | 2,9       |
| 40        | 40         | 32         | IR | <b>753 968 609</b> | 10 | -  | 0.034 | 84        | 42         | 3,7       |
| 50        | 50         | 40         | IR | <b>753 968 610</b> | 10 | -  | 0.056 | 90        | 48         | 4,6       |
| 63        | 60         | 50         | IR | <b>753 968 611</b> | 5  | -  | 0.095 | 100       | 50         | 5,8       |

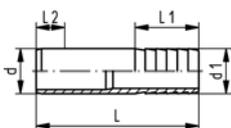
53 96 04

## Hose connector PE100 metric



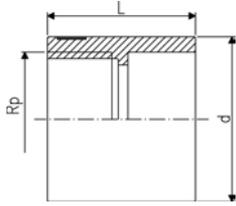
### Model:

- With socket fusion spigot metric and parallel hose connection



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|
| 20        | 20         | 10 | <b>753 960 406</b> | 10 | -  | 0.007 | 55        | 27         | 14         |
| 25        | 25         | 10 | <b>753 960 407</b> | 10 | -  | 0.015 | 68        | 36         | 16         |
| 32        | 32         | 10 | <b>753 960 408</b> | 10 | -  | 0.021 | 77        | 36         | 18         |
| 40        | 40         | 10 | <b>753 960 409</b> | 10 | -  | 0.030 | 80        | 42         | 20         |
| 50        | 50         | 10 | <b>753 960 410</b> | 10 | -  | 0.064 | 90        | 48         | 23         |
| 63        | 60         | 10 | <b>753 960 411</b> | 5  | -  | 0.092 | 100       | 50         | 27         |

73 28 19



## PE Adaptor Female thread

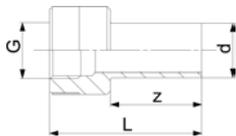
- PE 80 SDR 11 (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (753 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread
- \*PE 100 SDR 11 (ISO S5)

| d<br>[mm] | Rp<br>[inch] | Code               | GP | kg    | L<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|
| 63        | 1 ½          | <b>173 281 925</b> | 30 | 0.096 | 54        |

## Instrument Installation Spigots, PE80, Thread G

### Model:

- For the connection of measuring instruments only
- Usable with all types of electrofusion couplers



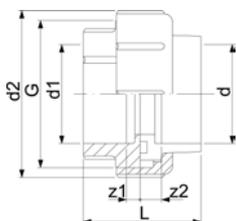
| d<br>[mm] | G<br>[inch] | Code               | SP | GP | kg    | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-----------|-----------|
| 20        | ½           | <b>701 473 809</b> | -  | -  | 0.050 | 90        | 52        |
| 25        | ½           | <b>701 473 803</b> | -  | -  | 0.050 | 90        | 52        |
| 25        | ¾           | <b>701 473 810</b> | -  | -  | 0.060 | 90        | 52        |
| 32        | ½           | <b>701 473 804</b> | -  | -  | 0.060 | 90        | 52        |
| 32        | 1           | <b>701 473 811</b> | -  | -  | 0.060 | 90        | 54        |
| 40        | ½           | <b>701 473 812</b> | -  | -  | 0.049 | 75        | 57        |
| 40        | 1 ¼         | <b>701 473 806</b> | -  | -  | 0.090 | 100       | 57        |
| 50        | ½           | <b>701 473 813</b> | -  | -  | 0.075 | 80        | 63        |
| 50        | 1 ¼         | <b>701 473 805</b> | -  | -  | 0.060 | 80        | 63        |
| 50        | 1 ½         | <b>701 473 807</b> | -  | -  | 0.100 | 105       | 63        |
| 63        | ½           | <b>701 473 814</b> | -  | -  | 0.117 | 80        | 65        |
| 63        | 2           | <b>701 473 808</b> | -  | -  | 0.110 | 110       | 65        |

33 58 01

## Adapter union PE80 - PE80 metric

### Model:

- Union Ends: Fusion sockets, PE80 metric
- Union Bush: Brass
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



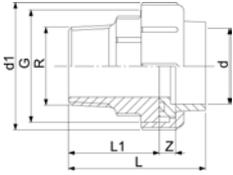
| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | G<br>[inch] | L<br>[mm] | z1<br>[mm] | D2<br>[mm] | d2<br>[mm] | z2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-------------|-----------|------------|------------|------------|------------|
| 20        | 20         | 10 | <b>733 580 106</b> | 10 | 70 | 0.163 | 1 1/4       | 46        | 6          | 46         | 46         | 3          |
| 25        | 25         | 10 | <b>733 580 107</b> | 5  | 50 | 0.214 | 1 1/2       | 49        | 6          | 52         | 52         | 3          |
| 32        | 32         | 10 | <b>733 580 108</b> | 2  | 36 | 0.294 | 2           | 51        | 6          | 64         | 64         | 3          |
| 40        | 40         | 10 | <b>733 580 109</b> | 1  | 24 | 0.473 | 2 1/2       | 56        | 8          | 79         | 79         | 3          |
| 50        | 50         | 10 | <b>733 580 110</b> | 1  | 14 | 0.491 | 2 2/3       | 61        | 8          | 85         | 85         | 3          |
| 63        | 63         | 10 | <b>733 580 111</b> | 1  | 8  | 0.730 | 3 1/2       | 69        | 8          | 104        | 104        | 3          |

33 58 07

## Adaptor union PE80 - brass metric R

**Model:**

- Union Ends: Fusion sockets, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



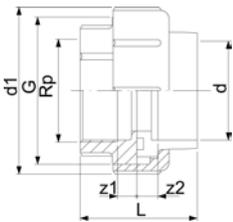
| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP | kg    | d1<br>[mm] | G<br>[inch] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|-------------|----|--------------------|----|----|-------|------------|-------------|-----------|------------|-----------|
| 20        | 1/2         | 10 | <b>733 580 706</b> | 10 | 60 | 0.260 | 46         | 1 1/4       | 62        | 40         | 6         |
| 25        | 3/4         | 10 | <b>733 580 707</b> | 5  | 40 | 0.324 | 52         | 1 1/2       | 65        | 41         | 6         |
| 32        | 1           | 10 | <b>733 580 708</b> | 2  | 30 | 0.470 | 64         | 2           | 71        | 45         | 6         |
| 40        | 1 1/4       | 10 | <b>733 580 709</b> | 2  | 16 | 0.754 | 79         | 2 1/2       | 78        | 48         | 8         |
| 50        | 1 1/2       | 10 | <b>733 580 710</b> | 2  | 12 | 0.781 | 85         | 2 3/4       | 81        | 43         | 8         |
| 63        | 2           | 10 | <b>733 580 711</b> | 1  | 8  | 1.166 | 104        | 3 1/2       | 91        | 54         | 8         |

33 58 02

## Adaptor union PE80 - brass metric Rp

**Model:**

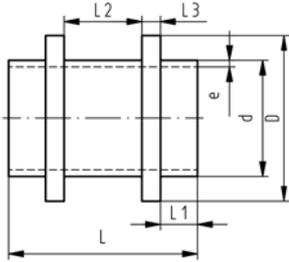
- Union Ends: Fusion sockets, PE80 metric
- Union bush: nickel-plated, parallel female thread Rp
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | G<br>[inch] | L<br>[mm] | d1<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-------------|-----------|------------|------------|------------|
| 20        | 1/2          | 10 | <b>733 580 206</b> | 10 | 50 | 0.209 | 1 1/4       | 46        | 46         | 6          | 10         |
| 25        | 3/4          | 10 | <b>733 580 207</b> | 5  | 50 | 0.269 | 1 1/2       | 48        | 52         | 6          | 9          |
| 32        | 1            | 10 | <b>733 580 208</b> | 2  | 34 | 0.371 | 2           | 51        | 64         | 6          | 8          |
| 40        | 1 1/4        | 10 | <b>733 580 209</b> | 2  | 18 | 0.596 | 2 1/2       | 56        | 79         | 8          | 7          |
| 50        | 1 1/2        | 10 | <b>733 580 210</b> | 2  | 14 | 0.666 | 2 3/4       | 59        | 85         | 8          | 7          |
| 63        | 2            | 10 | <b>733 580 211</b> | 1  | 9  | 0.960 | 3 1/2       | 65        | 104        | 8          | 5          |

# Butt Fusion Fittings PE100

## Fixpoint fitting PE100 S5/SDR11

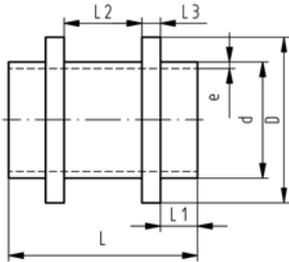


### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

| d<br>[mm] | FM | Code        | SP | GP | kg     | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|----|--------|-----------|-----------|------------|------------|------------|-----------|
| 63        | IR | 753 665 558 | 16 | 10 | 0.182  | 90        | 122       | 30         | 42         | 10         | 5.8       |
| 75        | IR | 753 665 559 | 14 | -  | 0.265  | 110       | 122       | 30         | 42         | 10         | 6.8       |
| 90        | IR | 753 665 560 | 12 | -  | 0.357  | 125       | 122       | 30         | 42         | 10         | 8.2       |
| 110       | IR | 753 665 561 | 6  | -  | 0.592  | 140       | 142       | 30         | 52         | 15         | 10.0      |
| 125       | IR | 753 665 562 | 5  | -  | 0.811  | 160       | 152       | 35         | 52         | 15         | 11.4      |
| 140       | IR | 753 665 563 | 3  | -  | 1.068  | 180       | 162       | 40         | 52         | 15         | 12.7      |
| 160       | IR | 753 665 564 | 4  | -  | 1.349  | 200       | 162       | 40         | 52         | 15         | 14.6      |
| 180       | IR | 753 665 565 | 3  | -  | 2.001  | 225       | 182       | 45         | 52         | 20         | 16.4      |
| 200       | IR | 753 665 566 | 2  | -  | 2.469  | 250       | 182       | 45         | 52         | 20         | 18.2      |
| 225       | IR | 753 665 567 | 1  | -  | 3.438  | 280       | 192       | 45         | 52         | 25         | 20.5      |
| 250       | -- | 753 665 568 | 1  | -  | 3.858  | 280       | 212       | 50         | 62         | 25         | 22.7      |
| 280       | -- | 753 665 569 | 1  | -  | 5.217  | 315       | 222       | 50         | 62         | 30         | 25.4      |
| 315       | -- | 753 665 570 | 1  | -  | 6.627  | 355       | 222       | 50         | 62         | 30         | 28.6      |
| 355       | -- | 753 665 571 | 1  | -  | 7.731  | 400       | 192       | 30         | 62         | 35         | 32.2      |
| 400       | -- | 753 665 572 | 1  | -  | 10.890 | 450       | 212       | 30         | 72         | 40         | 36.3      |
| 450       | -- | 753 665 573 | 1  | -  | 14.775 | 500       | 232       | 35         | 72         | 45         | 40.9      |
| 500       | -- | 753 665 574 | 1  | -  | 20.268 | 560       | 252       | 40         | 72         | 50         | 45.4      |
| 560       | -- | 753 665 575 | 1  | -  | 28.608 | 630       | 282       | 45         | 82         | 55         | 50.8      |
| 630       | -- | 753 665 576 | 1  | -  | 39.129 | 710       | 302       | 50         | 82         | 60         | 57.2      |

## Fixpoint fitting PE100 SDR17/17.6



### Model:

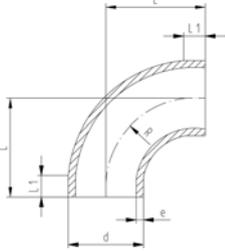
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

| d<br>[mm] | FM | Code        | SP | GP | kg     | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|----|--------|-----------|-----------|------------|------------|------------|-----------|
| 63        | IR | 753 665 577 | 16 | -  | 0.144  | 90        | 122       | 30         | 42         | 10         | 3.8       |
| 75        | IR | 753 665 578 | 14 | -  | 0.212  | 110       | 122       | 30         | 42         | 10         | 4.5       |
| 90        | IR | 753 665 579 | 12 | -  | 0.279  | 125       | 122       | 30         | 42         | 10         | 5.4       |
| 110       | IR | 753 665 580 | 6  | -  | 0.457  | 140       | 142       | 30         | 52         | 15         | 6.6       |
| 125       | IR | 753 665 581 | 5  | -  | 0.618  | 160       | 152       | 35         | 52         | 15         | 7.4       |
| 140       | IR | 753 665 582 | 3  | -  | 0.815  | 180       | 162       | 40         | 52         | 15         | 8.3       |
| 160       | IR | 753 665 583 | 4  | -  | 1.014  | 200       | 162       | 40         | 52         | 15         | 9.5       |
| 180       | IR | 753 665 584 | 3  | -  | 1.528  | 225       | 182       | 45         | 52         | 20         | 10.7      |
| 200       | IR | 753 665 585 | 2  | -  | 1.887  | 250       | 182       | 45         | 52         | 20         | 11.9      |
| 225       | IR | 753 665 586 | 1  | -  | 2.661  | 280       | 192       | 45         | 52         | 25         | 13.4      |
| 250       | -- | 753 665 587 | 1  | -  | 2.796  | 280       | 212       | 50         | 62         | 25         | 14.8      |
| 280       | -- | 753 665 588 | 1  | -  | 3.829  | 315       | 222       | 50         | 62         | 30         | 16.6      |
| 315       | -- | 753 665 589 | 1  | -  | 4.871  | 355       | 222       | 50         | 62         | 30         | 18.7      |
| 355       | -- | 753 665 590 | 1  | -  | 5.812  | 400       | 192       | 30         | 62         | 35         | 21.1      |
| 400       | -- | 753 665 591 | 1  | -  | 8.180  | 450       | 212       | 30         | 72         | 40         | 23.7      |
| 450       | -- | 753 665 592 | 1  | -  | 11.015 | 500       | 232       | 35         | 72         | 45         | 26.7      |
| 500       | -- | 753 665 593 | 1  | -  | 15.251 | 560       | 252       | 40         | 72         | 50         | 29.7      |
| 560       | -- | 753 665 594 | 1  | -  | 0.000  | 630       | 282       | 45         | 82         | 55         | 33.2      |
| 630       | -- | 753 665 595 | 1  | -  | 29.574 | 710       | 302       | 50         | 82         | 60         | 37.4      |

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**Bend 90° PE100 SDR11****Model:**

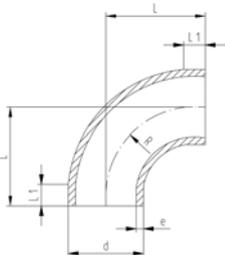
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|-----------|
| 20        | IR | <b>753 018 706</b> | 10 | 10 | 0.007  | 38        | 23         | 15        | 1.9       |
| 25        | IR | <b>753 018 707</b> | 10 | 10 | 0.012  | 42        | 23         | 19        | 2.3       |
| 32        | IR | <b>753 018 708</b> | 10 | 10 | 0.022  | 46        | 22         | 24        | 2.9       |
| 40        | IR | <b>753 018 709</b> | 10 | 10 | 0.038  | 51        | 21         | 30        | 3.7       |
| 50        | IR | <b>753 018 710</b> | 10 | 10 | 0.066  | 58        | 21         | 37        | 4.6       |
| 63        | IR | <b>753 018 711</b> | 10 | -  | 0.118  | 66        | 21         | 45        | 5.8       |
| 75        | IR | <b>753 018 712</b> | 10 | -  | 0.241  | 100       | 20         | 90        | 6.8       |
| 90        | IR | <b>753 018 713</b> | 4  | -  | 0.358  | 100       | 20         | 90        | 8.2       |
| 110       | IR | <b>753 018 714</b> | 4  | -  | 0.755  | 141       | 25         | 130       | 10.0      |
| 125       | IR | <b>753 018 690</b> | 3  | -  | 0.850  | 140       | 15         | 125       | 11.4      |
| 140       | IR | <b>753 018 691</b> | -  | -  | 1.180  | 155       | 15         | 140       | 12.7      |
| 160       | IR | <b>753 018 692</b> | -  | -  | 1.750  | 175       | 15         | 160       | 14.6      |
| 180       | IR | <b>753 018 693</b> | -  | -  | 2.670  | 195       | 15         | 180       | 16.4      |
| 200       | IR | <b>753 018 694</b> | -  | -  | 3.440  | 215       | 15         | 200       | 18.2      |
| 225       | IR | <b>753 018 695</b> | -  | -  | 4.790  | 245       | 20         | 225       | 20.5      |
| 250       | -- | <b>753 018 621</b> | 1  | 1  | 6.800  | 256       | 48         | 232       | 22.7      |
| 280       | -- | <b>753 018 622</b> | 1  | 1  | 9.900  | 286       | 48         | 262       | 25.4      |
| 315       | -- | <b>753 018 623</b> | 1  | -  | 13.500 | 321       | 48         | 297       | 28.6      |
| 355       | -- | <b>753 021 024</b> | 1  | -  | 17.200 | 380       | 38         | 355       | 32.3      |
| 400       | -- | <b>753 021 025</b> | 1  | -  | 23.000 | 434       | 41         | 400       | 36.3      |

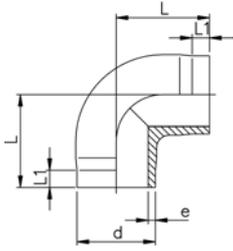
**Bend 90° PE100 SDR17/17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|-----------|
| 50        | IR | <b>753 018 635</b> | 10 | 10 | 0.052  | 58        | 21         | 37        | 2.9       |
| 63        | IR | <b>753 018 636</b> | 10 | 10 | 0.084  | 66        | 21         | 45        | 3.6       |
| 75        | IR | <b>753 018 737</b> | 10 | -  | 0.172  | 100       | 20         | 90        | 4.3       |
| 90        | IR | <b>753 018 738</b> | 4  | -  | 0.243  | 100       | 20         | 90        | 5.1       |
| 110       | IR | <b>753 018 739</b> | 4  | -  | 0.522  | 141       | 20         | 130       | 6.3       |
| 125       | IR | <b>753 018 590</b> | 3  | -  | 0.590  | 140       | 15         | 125       | 7.1       |
| 140       | IR | <b>753 018 591</b> | -  | -  | 1.180  | 155       | 15         | 140       | 8.0       |
| 160       | IR | <b>753 018 592</b> | 1  | 1  | 1.750  | 175       | 15         | 160       | 9.1       |
| 180       | IR | <b>753 018 593</b> | 1  | -  | 2.670  | 195       | 15         | 180       | 10.2      |
| 200       | IR | <b>753 018 594</b> | -  | -  | 3.440  | 215       | 15         | 200       | 11.4      |
| 225       | IR | <b>753 018 595</b> | 1  | -  | 4.790  | 245       | 15         | 225       | 12.8      |
| 250       | -- | <b>753 018 521</b> | 1  | 1  | 4.700  | 256       | 48         | 232       | 14.2      |
| 280       | -- | <b>753 018 522</b> | 1  | -  | 6.500  | 286       | 48         | 262       | 15.9      |
| 315       | -- | <b>753 018 523</b> | 1  | -  | 9.200  | 321       | 48         | 297       | 17.9      |
| 355       | -- | <b>753 020 824</b> | 1  | -  | 11.300 | 340       | 38         | 355       | 21.1      |
| 400       | -- | <b>753 020 825</b> | -  | -  | 15.700 | 345       | 41         | 400       | 23.7      |
| 450       | -- | <b>753 020 826</b> | 1  | -  | 24.900 | 449       | 49         | 450       | 25.8      |
| 500       | -- | <b>753 020 827</b> | 1  | 1  | 30.600 | 449       | 49         | 500       | 32.0      |

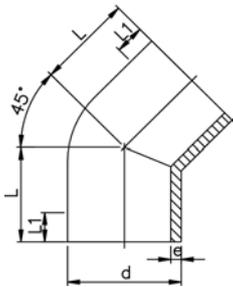
53 10 86

**Elbow 90° PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | <b>753 108 606</b> | 10 | 10 | 0.009 | 38        | 25         | 1,9       |
| 25        | IR | <b>753 108 607</b> | 10 | -  | 0.014 | 42        | 26         | 2,3       |
| 32        | IR | <b>753 108 608</b> | 10 | -  | 0.025 | 46        | 27         | 2,9       |
| 40        | IR | <b>753 108 609</b> | 10 | -  | 0.049 | 51        | 22         | 3,7       |
| 50        | IR | <b>753 108 610</b> | 10 | -  | 0.087 | 58        | 23         | 4,6       |
| 63        | IR | <b>753 108 611</b> | 10 | -  | 0.152 | 66        | 21         | 5,8       |

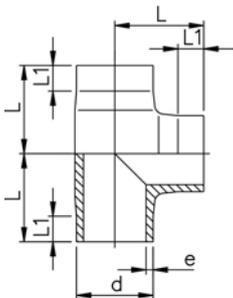
53 15 86

**Elbow 45° PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | <b>753 158 606</b> | 10 | -  | 0.008 | 32        | 24         | 1,9       |
| 25        | IR | <b>753 158 607</b> | 10 | -  | 0.013 | 34        | 25         | 2,3       |
| 32        | IR | <b>753 158 608</b> | 10 | -  | 0.021 | 36        | 25         | 2,9       |
| 40        | IR | <b>753 158 609</b> | 10 | -  | 0.037 | 39        | 25         | 3,7       |
| 50        | IR | <b>753 158 610</b> | 10 | -  | 0.059 | 42        | 26         | 4,6       |
| 63        | IR | <b>753 158 611</b> | 10 | -  | 0.104 | 47        | 29         | 5,8       |
| 75        | IR | <b>753 158 612</b> | 10 | -  | 0.147 | 49        | 29         | 6,8       |
| 90        | IR | <b>753 158 613</b> | 5  | -  | 0.243 | 57        | 34         | 8,2       |
| 110       | IR | <b>753 158 614</b> | 5  | -  | 0.445 | 70        | 43         | 10,0      |
| 125       | IR | <b>753 158 615</b> | 5  | -  | 0.653 | 79        | 48         | 11,4      |
| 140       | IR | <b>753 158 616</b> | 1  | -  | 0.905 | 88        | 55         | 12,7      |
| 160       | IR | <b>753 158 617</b> | 1  | -  | 1.344 | 100       | 60         | 14,6      |
| 200       | IR | <b>753 158 619</b> | 1  | -  | 2.625 | 124       | 75         | 18,2      |
| 225       | IR | <b>753 158 620</b> | 1  | -  | 3.738 | 140       | 85         | 20,5      |

53 20 86

**Tee 90° equal PE100 SDR11****Model:**

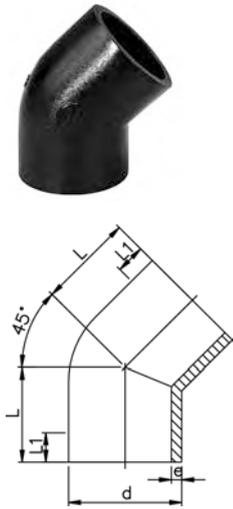
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|
| 20        | IR | <b>753 208 606</b> | 10 | -  | 0.013  | 38        | 24         | 1,9       |
| 25        | IR | <b>753 208 607</b> | 10 | -  | 0.021  | 42        | 26         | 2,3       |
| 32        | IR | <b>753 208 608</b> | 10 | -  | 0.042  | 46        | 26         | 2,9       |
| 40        | IR | <b>753 208 609</b> | 10 | 20 | 0.067  | 51        | 22         | 3,7       |
| 50        | IR | <b>753 208 610</b> | 10 | -  | 0.114  | 58        | 22         | 4,6       |
| 63        | IR | <b>753 208 611</b> | 10 | -  | 0.203  | 66        | 21         | 5,8       |
| 75        | IR | <b>753 208 612</b> | 5  | -  | 0.310  | 75        | 20         | 6,8       |
| 90        | IR | <b>753 208 613</b> | 5  | -  | 0.564  | 90        | 20         | 8,2       |
| 110       | IR | <b>753 208 614</b> | 1  | -  | 1.020  | 110       | 20         | 10,0      |
| 125       | IR | <b>753 208 615</b> | 1  | -  | 1.514  | 125       | 25         | 11,4      |
| 140       | IR | <b>753 208 616</b> | 1  | -  | 2.111  | 140       | 28         | 12,7      |
| 160       | IR | <b>753 208 617</b> | 1  | -  | 3.095  | 160       | 28         | 14,6      |
| 180       | IR | <b>753 208 668</b> | 1  | -  | 4.560  | 190       | 70         | 16,4      |
| 200       | IR | <b>753 208 619</b> | 1  | -  | 6.037  | 200       | 35         | 18,2      |
| 225       | IR | <b>753 208 620</b> | 1  | -  | 8.090  | 220       | 35         | 20,5      |
| 250       | -- | <b>753 208 671</b> | 1  | -  | 12.208 | 272       | 90         | 22,7      |
| 280       | -- | <b>753 208 672</b> | -  | -  | 17.831 | 313       | 108        | 25,4      |
| 315       | -- | <b>753 208 673</b> | -  | -  | 25.742 | 348       | 114        | 28,6      |
| 355       | -- | <b>753 221 024</b> | 1  | -  | 30.500 | 352       | 97         | 32,3      |
| 400       | -- | <b>753 221 025</b> | 1  | -  | 39.000 | 337       | 100        | 36,4      |

53 15 85

**Elbow 45° PE100 SDR17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 50        | IR | <b>753 158 535</b> | 10 | 20 | 0.045 | 42        | 26         | 2,9       |
| 63        | IR | <b>753 158 536</b> | 10 | -  | 0.091 | 47        | 29         | 3,6       |
| 75        | IR | <b>753 158 537</b> | 10 | -  | 0.128 | 49        | 29         | 4,3       |
| 90        | IR | <b>753 158 538</b> | 5  | -  | 0.208 | 57        | 34         | 5,1       |
| 110       | IR | <b>753 158 539</b> | 1  | 5  | 0.398 | 70        | 43         | 6,3       |
| 125       | IR | <b>753 158 540</b> | 5  | -  | 0.570 | 79        | 48         | 7,1       |
| 140       | IR | <b>753 158 541</b> | 1  | -  | 0.825 | 88        | 55         | 8,0       |
| 160       | IR | <b>753 158 542</b> | 1  | -  | 1.190 | 100       | 60         | 9,1       |
| 200       | IR | <b>753 158 544</b> | 1  | -  | 2.300 | 124       | 75         | 11,4      |
| 225       | IR | <b>753 158 545</b> | 1  | -  | 3.200 | 140       | 85         | 12,8      |

53 20 83

**Tee 90° reduced PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



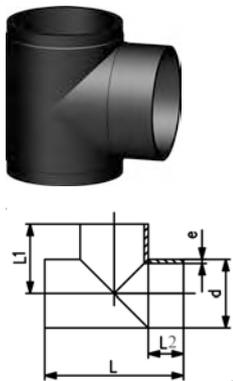
| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|------------|-----------|------------|
| 63        | 32         | IR | <b>753 208 351</b> | 10 | -  | 0.170 | 65        | 70         | 25         | 25         | 5,8       | 2,9        |
| 63        | 50         | IR | <b>753 208 352</b> | 10 | -  | 0.180 | 65        | 70         | 25         | 25         | 5,8       | 4,6        |
| 75        | 32         | IR | <b>753 208 353</b> | 5  | -  | 0.250 | 70        | 75         | 25         | 25         | 6,8       | 2,9        |
| 75        | 50         | IR | <b>753 208 354</b> | 5  | -  | 0.263 | 70        | 75         | 25         | 25         | 6,8       | 4,6        |
| 75        | 63         | IR | <b>753 208 355</b> | 5  | -  | 0.278 | 70        | 75         | 25         | 25         | 6,8       | 5,8        |
| 90        | 50         | IR | <b>753 208 357</b> | 5  | -  | 0.445 | 80        | 85         | 25         | 25         | 8,2       | 4,6        |
| 90        | 63         | IR | <b>753 208 358</b> | 5  | -  | 0.455 | 80        | 85         | 25         | 25         | 8,2       | 5,8        |
| 90        | 75         | IR | <b>753 208 359</b> | 5  | -  | 0.470 | 80        | 85         | 25         | 25         | 8,2       | 6,8        |
| 110       | 32         | IR | <b>753 208 360</b> | 5  | -  | 0.705 | 90        | 95         | 30         | 25         | 10,0      | 2,9        |
| 110       | 50         | IR | <b>753 208 361</b> | 5  | -  | 0.700 | 90        | 95         | 30         | 25         | 10,0      | 4,6        |
| 110       | 63         | IR | <b>753 208 362</b> | 5  | -  | 0.710 | 90        | 95         | 30         | 25         | 10,0      | 5,8        |
| 110       | 75         | IR | <b>753 208 363</b> | 5  | -  | 0.723 | 90        | 95         | 30         | 25         | 10,0      | 6,8        |
| 110       | 90         | IR | <b>753 208 364</b> | 5  | -  | 0.735 | 90        | 95         | 30         | 25         | 10,0      | 8,2        |
| 160       | 63         | IR | <b>753 208 371</b> | 1  | -  | 2.270 | 142       | 135        | 50         | 30         | 14,6      | 5,8        |
| 160       | 75         | IR | <b>753 208 372</b> | 1  | -  | 2.295 | 142       | 135        | 50         | 30         | 14,6      | 6,8        |
| 160       | 90         | IR | <b>753 208 373</b> | 1  | -  | 2.315 | 142       | 135        | 50         | 30         | 14,6      | 8,2        |
| 160       | 110        | IR | <b>753 208 374</b> | 1  | -  | 2.355 | 142       | 135        | 50         | 30         | 14,6      | 10,0       |
| 225       | 90         | IR | <b>753 208 388</b> | 1  | -  | 4.760 | 155       | 165        | 40         | 30         | 20,5      | 8,2        |
| 225       | 110        | IR | <b>753 208 389</b> | 1  | -  | 4.720 | 155       | 165        | 40         | 30         | 20,5      | 10,0       |
| 225       | 160        | IR | <b>753 208 391</b> | 1  | -  | 4.780 | 155       | 165        | 40         | 30         | 20,5      | 14,6       |

53 20 86

**Tee 90° equal PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 10 bar Gas / 16 bar Water

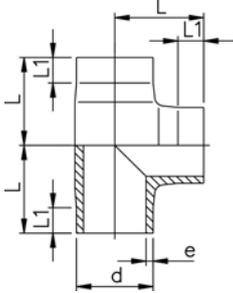
\* on request



| d<br>[mm] | Code               | SP | GP | kg      | L<br>[mm] | L1<br>[mm] | z<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|-----------|-----------|
| 560       | <b>753 211 028</b> |    |    |         | 780       | 500        | 80        | 50.8      |
| 630       | <b>753 211 029</b> |    |    |         | 850       | 540        | 80        | 57.2      |
| 710       | <b>753 211 030</b> | 1  | -  | 177.442 | 950       | 650        | 75        | 64.5      |
| * 800     | <b>753 211 031</b> | 1  | -  | 233.384 | 1013      | 700        | 75        | 72.6      |



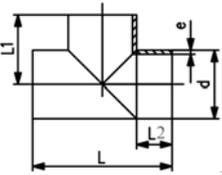
53 20 85

**Tee 90° equal PE100 SDR17/17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

| d<br>[mm] | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|--------|-----------|------------|-----------|
| 50        | IR | <b>753 208 535</b> | -  | -  | 0.090  | 59        | 26         | 2,9       |
| 63        | IR | <b>753 208 536</b> | 5  | -  | 0.160  | 71        | 25         | 3,6       |
| 75        | IR | <b>753 208 412</b> | 5  | -  | 0.245  | 74        | 20         | 4,8       |
| 90        | IR | <b>753 208 413</b> | 5  | -  | 0.418  | 90        | 20         | 5,6       |
| 110       | IR | <b>753 208 414</b> | 1  | -  | 0.757  | 110       | 20         | 6,9       |
| 125       | IR | <b>753 208 540</b> | 2  | -  | 1.066  | 124       | 27         | 7,1       |
| 140       | IR | <b>753 208 541</b> | 3  | -  | 1.449  | 141       | 33         | 8,0       |
| 160       | IR | <b>753 208 542</b> | 2  | -  | 2.240  | 160       | 40         | 9,1       |
| 180       | IR | <b>753 208 543</b> | 1  | -  | 3.176  | 190       | 70         | 10,2      |
| 200       | IR | <b>753 208 544</b> | 1  | -  | 4.360  | 210       | 70         | 11,4      |
| 225       | IR | <b>753 208 545</b> | 1  | -  | 6.030  | 238       | 80         | 12,8      |
| 250       | -- | <b>753 208 546</b> | 1  | -  | 8.610  | 272       | 90         | 14,2      |
| 280       | -- | <b>753 208 547</b> | 1  | -  | 11.660 | 313       | 108        | 15,9      |
| 315       | -- | <b>753 208 548</b> | 1  | -  | 16.230 | 348       | 114        | 17,9      |
| 355       | -- | <b>753 220 824</b> | 1  | -  | 22.750 | 330       | 95         | 21,1      |
| 400       | -- | <b>753 220 825</b> | 1  | -  | 30.500 | 345       | 104        | 23,7      |
| 450       | -- | <b>753 220 826</b> | -  | -  | 45.000 | 450       | 130        | 26,7      |
| 500       | -- | <b>753 220 827</b> | -  | -  | 52.600 | 445       | 130        | 29,7      |

53 20 85

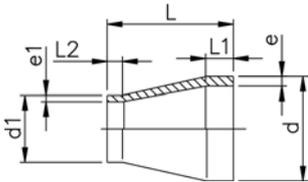
**Tee 90° equal PE100 SDR17/17.6****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 5 bar Gas / 10 bar Water
- \* on request



| d<br>[mm] | Code               | SP | GP | kg      | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|------------|-----------|
| 560       | <b>753 220 831</b> |    |    |         | 780       | 500        | 80         | 33.2      |
| 630       | <b>753 208 832</b> |    |    |         | 850       | 540        | 80         | 37.4      |
| 710       | <b>753 220 833</b> | 1  | -  | 121.141 | 950       | 650        | 75         | 42.1      |
| * 800     | <b>753 220 834</b> | 1  | -  | 158.977 | 1013      | 700        | 75         | 47.4      |

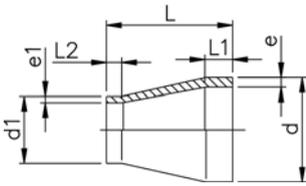
53 90 88

**Reducer PE100 SDR11****Model:**

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|------------|------------|-----------|------------|
| 25        | 20         | IR | <b>753 908 637</b> | 10 | 0.007 | 50        | 20         | 18         | 2,3       | 1,9        |
| 32        | 20         | IR | <b>753 908 642</b> | 10 | 0.010 | 50        | 20         | 18         | 2,9       | 1,9        |
| 32        | 25         | IR | <b>753 908 641</b> | 10 | 0.011 | 50        | 20         | 18         | 2,9       | 2,3        |
| 40        | 20         | IR | <b>753 908 648</b> | 10 | 0.016 | 58        | 20         | 20         | 3,7       | 1,9        |
| 40        | 25         | IR | <b>753 908 647</b> | 10 | 0.017 | 55        | 20         | 18         | 3,7       | 2,3        |
| 40        | 32         | IR | <b>753 908 646</b> | 10 | 0.019 | 55        | 20         | 18         | 3,7       | 2,9        |
| 50        | 25         | IR | <b>753 908 654</b> | 10 | 0.025 | 60        | 20         | 18         | 4,6       | 2,3        |
| 50        | 32         | IR | <b>753 908 653</b> | 10 | 0.028 | 60        | 20         | 18         | 4,6       | 2,9        |
| 50        | 40         | IR | <b>753 908 652</b> | 10 | 0.032 | 60        | 20         | 18         | 4,6       | 3,7        |
| 63        | 32         | IR | <b>753 908 660</b> | 10 | 0.046 | 65        | 20         | 18         | 5,8       | 2,9        |
| 63        | 40         | IR | <b>753 908 659</b> | 10 | 0.051 | 65        | 20         | 18         | 5,8       | 3,7        |
| 63        | 50         | IR | <b>753 908 658</b> | 10 | 0.056 | 65        | 20         | 18         | 5,8       | 4,6        |
| 75        | 40         | IR | <b>753 908 666</b> | 10 | 0.070 | 68        | 20         | 20         | 6,8       | 3,7        |
| 75        | 50         | IR | <b>753 908 665</b> | 10 | 0.074 | 65        | 20         | 18         | 6,8       | 4,6        |
| 75        | 63         | IR | <b>753 908 664</b> | 10 | 0.083 | 65        | 20         | 18         | 6,8       | 5,8        |
| 90        | 63         | IR | <b>753 908 671</b> | 10 | 0.127 | 75        | 21         | 17         | 8,2       | 5,8        |
| 90        | 75         | IR | <b>753 908 670</b> | 10 | 0.132 | 75        | 22         | 17         | 8,2       | 6,8        |

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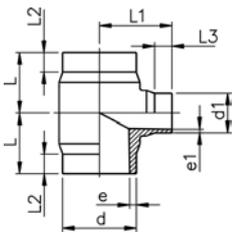
| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|-------|-----------|------------|------------|-----------|------------|
| 110       | 75         | IR | 753 908 677 | 10 | 0.226 | 90        | 28         | 17         | 10,0      | 6,8        |
| 110       | 90         | IR | 753 908 676 | 10 | 0.239 | 90        | 28         | 20         | 10,0      | 8,2        |
| 125       | 110        | IR | 753 908 680 | 2  | 0.345 | 100       | 32         | 26         | 11,4      | 10,0       |
| 140       | 110        | IR | 753 908 685 | 2  | 0.436 | 110       | 35         | 28         | 12,7      | 10,0       |
| 140       | 125        | IR | 753 908 684 | 2  | 0.478 | 110       | 35         | 28         | 12,7      | 11,4       |
| 160       | 110        | IR | 753 908 690 | 2  | 0.608 | 120       | 40         | 25         | 14,6      | 10,0       |
| 160       | 140        | IR | 753 908 688 | 2  | 0.671 | 120       | 40         | 33         | 14,6      | 12,7       |
| 180       | 90         | IR | 753 908 877 | -  | 0.678 | 157       | 45         | 22         | 16,4      | 8,2        |
| 180       | 110        | IR | 753 908 878 | -  | 0.556 | 157       | 45         | 28         | 16,4      | 10,0       |
| 180       | 125        | IR | 753 908 879 | -  | 0.528 | 136       | 45         | 32         | 16,4      | 11,4       |
| 180       | 140        | IR | 753 908 880 | -  | 0.524 | 136       | 45         | 35         | 16,4      | 12,7       |
| 180       | 160        | IR | 753 908 881 | -  | 0.537 | 136       | 45         | 40         | 16,4      | 14,6       |
| 200       | 160        | IR | 753 908 692 | 1  | 1.266 | 150       | 50         | 35         | 18,2      | 14,6       |
| 200       | 180        | IR | 753 908 883 | -  | 0.715 | 151       | 50         | 45         | 18,2      | 16,4       |
| 225       | 110        | IR | 753 908 695 | 2  | 1.447 | 171       | 55         | 45         | 20,5      | 10,0       |
| 225       | 160        | IR | 753 908 696 | 2  | 1.546 | 160       | 55         | 37         | 20,5      | 14,6       |
| 225       | 180        | IR | 753 908 885 | -  | 1.970 | 171       | 55         | 45         | 20,5      | 16,4       |
| 225       | 200        | IR | 753 908 697 | 1  | 1.737 | 160       | 55         | 48         | 20,5      | 18,2       |
| 250       | 160        | -- | 753 908 890 | -  | 2.314 | 194       | 60         | 40         | 22,7      | 14,6       |
| 250       | 225        | -- | 753 908 887 | -  | 2.595 | 182       | 60         | 55         | 22,7      | 20,5       |
| 280       | 225        | -- | 753 908 892 | -  | 1.908 | 105       | 30         | 20         | 25,4      | 20,5       |
| 280       | 250        | -- | 753 908 891 | -  | 1.390 | 70        | 30         | 18         | 25,4      | 22,7       |
| 315       | 250        | -- | 753 908 896 | -  | 2.370 | 100       | 30         | 20         | 28,6      | 22,7       |
| 315       | 280        | -- | 753 908 895 | -  | 1.590 | 63        | 30         | 18         | 28,6      | 25,4       |
| 355       | 250        | -- | 753 900 012 | 8  | 4.400 | 245       | 90         | 60         | 32,3      | 22,7       |
| 355       | 280        | -- | 753 900 013 | 8  | 4.100 | 245       | 90         | 70         | 32,3      | 25,4       |
| 355       | 315        | -- | 753 900 014 | 8  | 3.700 | 245       | 90         | 80         | 32,3      | 28,6       |
| 400       | 315        | -- | 753 900 018 | 2  | 5.300 | 260       | 95         | 80         | 36,4      | 28,6       |
| 400       | 355        | -- | 753 900 019 | 2  | 4.800 | 260       | 95         | 90         | 36,4      | 32,3       |

## Tee 90° reduced PE100 SDR17.6

Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

\* Branch SDR11



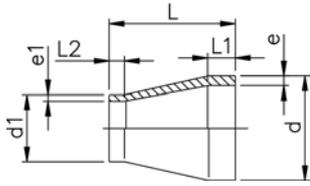
| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|----|-------|-----------|------------|------------|------------|-----------|------------|
| * 63      | 32         | IR | 753 208 301 | 10 | -  | 0.157 | 65        | 70         | 25         | 25         | 3,6       | 2,9        |
| 63        | 50         | IR | 753 208 302 | 10 | -  | 0.158 | 65        | 70         | 25         | 25         | 3,6       | 2,9        |
| * 75      | 32         | IR | 753 208 303 | 5  | -  | 0.240 | 70        | 75         | 25         | 25         | 4,3       | 2,9        |
| 75        | 50         | IR | 753 208 304 | 5  | -  | 0.250 | 70        | 75         | 25         | 25         | 4,3       | 2,9        |
| 75        | 63         | IR | 753 208 305 | 5  | -  | 0.257 | 70        | 75         | 25         | 25         | 4,3       | 3,6        |
| 90        | 50         | IR | 753 208 307 | 5  | -  | 0.410 | 80        | 85         | 25         | 25         | 5,1       | 2,9        |
| 90        | 63         | IR | 753 208 308 | 5  | -  | 0.330 | 80        | 85         | 25         | 25         | 5,1       | 3,6        |
| 90        | 75         | IR | 753 208 309 | 5  | -  | 0.340 | 80        | 85         | 25         | 25         | 5,1       | 4,3        |
| * 110     | 32         | IR | 753 208 310 | 5  | -  | 0.640 | 90        | 95         | 30         | 25         | 6,3       | 2,9        |
| 110       | 50         | IR | 753 208 311 | 5  | -  | 0.650 | 90        | 95         | 30         | 25         | 6,3       | 2,9        |
| 110       | 63         | IR | 753 208 312 | 5  | -  | 0.520 | 90        | 95         | 30         | 25         | 6,3       | 3,6        |
| 110       | 75         | IR | 753 208 313 | 5  | -  | 0.524 | 90        | 95         | 30         | 25         | 6,3       | 4,3        |
| 110       | 90         | IR | 753 208 314 | 5  | -  | 0.530 | 90        | 95         | 30         | 25         | 6,3       | 5,1        |
| 160       | 63         | IR | 753 208 321 | 1  | -  | 2.150 | 142       | 135        | 50         | 30         | 9,1       | 3,6        |
| 160       | 75         | IR | 753 208 322 | 1  | -  | 2.130 | 142       | 135        | 50         | 30         | 9,1       | 4,3        |
| 160       | 90         | IR | 753 208 323 | 1  | -  | 1.590 | 142       | 135        | 50         | 30         | 9,1       | 5,1        |
| 160       | 110        | IR | 753 208 324 | 1  | -  | 1.695 | 142       | 135        | 50         | 30         | 9,1       | 6,3        |
| 225       | 90         | IR | 753 208 338 | 1  | -  | 3.430 | 155       | 165        | 40         | 30         | 12,8      | 5,1        |
| 225       | 110        | IR | 753 208 339 | 1  | -  | 3.410 | 155       | 165        | 40         | 30         | 12,8      | 6,3        |
| 225       | 160        | IR | 753 208 341 | 1  | -  | 3.440 | 155       | 165        | 40         | 30         | 12,8      | 9,1        |
| 250       | 160        | -- | 753 220 832 | 1  | -  | 6.500 | 228       | 219        | 117        | 60         | 14,8      | 9,5        |



## Reducer PE100 SDR17/17.6

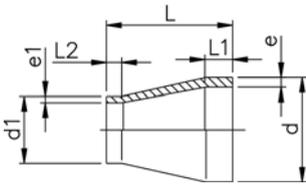
### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined



| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | kg     | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|--------|-----------|------------|------------|-----------|------------|
| 50        | 40         | IR | 753 908 926 | -  | 0.010  | 55        | 12         | 12         | 2,9       | 2,3        |
| 63        | 40         | IR | 753 908 927 | -  | 0.020  | 65        | 16         | 12         | 3,6       | 2,3        |
| 63        | 50         | IR | 753 908 928 | -  | 0.020  | 65        | 16         | 12         | 3,6       | 2,9        |
| 75        | 40         | IR | 753 908 904 | 20 | 0.041  | 71        | 19         | 12         | 4,3       | 2,3        |
| 75        | 50         | IR | 753 908 465 | 10 | 0.049  | 65        | 20         | 20         | 4,8       | 3,2        |
| 75        | 63         | IR | 753 908 464 | 10 | 0.056  | 65        | 20         | 20         | 4,8       | 4,0        |
| 90        | 63         | IR | 753 908 471 | 20 | 0.083  | 75        | 20         | 19         | 5,7       | 4,0        |
| 90        | 75         | IR | 753 908 470 | 12 | 0.092  | 75        | 20         | 20         | 5,7       | 4,8        |
| 110       | 75         | IR | 753 908 477 | 8  | 0.149  | 89        | 28         | 18         | 6,9       | 4,8        |
| 110       | 90         | IR | 753 908 476 | 10 | 0.165  | 90        | 28         | 20         | 6,9       | 5,7        |
| 125       | 110        | IR | 753 908 912 | 12 | 0.151  | 108       | 32         | 28         | 7,1       | 6,3        |
| 140       | 110        | IR | 753 908 917 | 8  | 0.144  | 115       | 35         | 28         | 8,0       | 6,3        |
| 140       | 125        | IR | 753 908 916 | 8  | 0.150  | 115       | 35         | 32         | 8,0       | 7,1        |
| 160       | 110        | IR | 753 908 922 | 4  | 0.287  | 124       | 40         | 28         | 9,1       | 6,3        |
| 160       | 140        | IR | 753 908 920 | 2  | 0.245  | 124       | 40         | 35         | 9,1       | 8,0        |
| 180       | 90         | IR | 753 908 975 | 2  | 0.445  | 157       | 45         | 22         | 10,2      | 5,1        |
| 180       | 110        | IR | 753 908 976 | -  | 0.367  | 157       | 45         | 28         | 10,2      | 6,3        |
| 180       | 125        | IR | 753 908 977 | 2  | 0.347  | 136       | 45         | 32         | 10,2      | 7,1        |
| 180       | 140        | IR | 753 908 978 | 2  | 0.344  | 136       | 45         | 35         | 10,2      | 8,0        |
| 180       | 160        | IR | 753 908 979 | -  | 0.351  | 136       | 45         | 40         | 10,2      | 9,1        |
| 200       | 160        | IR | 753 908 931 | 1  | 0.835  | 151       | 50         | 40         | 11,4      | 9,1        |
| 200       | 180        | IR | 753 908 981 | -  | 0.467  | 151       | 50         | 45         | 11,4      | 10,2       |
| 225       | 110        | IR | 753 908 938 | 2  | 1.295  | 160       | 55         | 35         | 12,8      | 6,3        |
| 225       | 160        | IR | 753 908 933 | 2  | 0.620  | 171       | 55         | 40         | 12,8      | 9,1        |
| 225       | 180        | IR | 753 908 985 | -  | 0.601  | 171       | 55         | 45         | 12,8      | 10,2       |
| 225       | 200        | IR | 753 908 932 | 1  | 0.614  | 171       | 55         | 50         | 12,8      | 11,4       |
| 250       | 160        | -- | 753 908 939 | 1  | 0.975  | 194       | 60         | 40         | 14,2      | 9,1        |
| 250       | 180        | -- | 753 902 801 | 5  | 1.690  | 175       | 60         | 55         | 14,8      | 10,7       |
| 250       | 200        | -- | 753 902 802 | 5  | 1.820  | 180       | 60         | 60         | 14,8      | 11,9       |
| 250       | 225        | -- | 753 908 937 | 1  | 0.681  | 182       | 60         | 55         | 14,2      | 12,8       |
| 280       | 200        | -- | 753 902 804 | 6  | 2.440  | 205       | 70         | 50         | 16,6      | 11,9       |
| 280       | 225        | -- | 753 908 944 | 1  | 1.180  | 105       | 30         | 20         | 15,9      | 12,8       |
| 280       | 250        | -- | 753 908 943 | 1  | 0.858  | 70        | 30         | 18         | 15,9      | 14,2       |
| 315       | 200        | -- | 753 902 807 | 5  | 3.360  | 225       | 80         | 50         | 18,7      | 11,9       |
| 315       | 225        | -- | 753 908 950 | 1  | 1.715  | 130       | 30         | 20         | 17,9      | 12,8       |
| 315       | 250        | -- | 753 908 949 | 1  | 1.446  | 100       | 30         | 20         | 17,9      | 14,2       |
| 315       | 280        | -- | 753 908 999 | -  | 1.047  | 63        | 30         | 18         | 17,9      | 15,9       |
| 355       | 225        | -- | 753 902 811 | 8  | 4.700  | 245       | 90         | 55         | 21,1      | 13,4       |
| 355       | 250        | -- | 753 902 812 | 2  | 9.425  | 245       | 90         | 60         | 21,1      | 14,8       |
| 355       | 280        | -- | 753 902 813 | 8  | 4.100  | 245       | 90         | 70         | 21,1      | 16,6       |
| 355       | 315        | -- | 753 902 814 | 8  | 3.700  | 245       | 90         | 80         | 21,1      | 18,7       |
| 400       | 225        | -- | 753 902 815 | 2  | 4.600  | 260       | 95         | 60         | 23,7      | 13,4       |
| 400       | 250        | -- | 753 902 816 | 2  | 4.400  | 260       | 95         | 70         | 23,7      | 14,8       |
| 400       | 280        | -- | 753 902 817 | 2  | 4.400  | 260       | 95         | 70         | 23,7      | 16,6       |
| 400       | 315        | -- | 753 902 818 | 2  | 3.520  | 260       | 95         | 80         | 23,7      | 18,7       |
| 400       | 355        | -- | 753 902 819 | 2  | 3.320  | 260       | 95         | 90         | 23,7      | 21,1       |
| 450       | 280        | -- | 753 902 820 | 1  | 6.340  | 230       | 60         | 70         | 26,7      | 16,6       |
| 450       | 315        | -- | 753 902 821 | 1  | 5.400  | 230       | 60         | 80         | 26,7      | 18,7       |
| 450       | 355        | -- | 753 902 822 | 1  | 5.000  | 230       | 60         | 90         | 26,7      | 21,1       |
| 450       | 400        | -- | 753 902 823 | 1  | 4.400  | 230       | 60         | 95         | 26,7      | 23,7       |
| 500       | 315        | -- | 753 902 824 | 1  | 8.100  | 230       | 60         | 80         | 29,7      | 18,7       |
| 500       | 355        | -- | 753 902 825 | 1  | 7.300  | 230       | 60         | 90         | 29,7      | 21,1       |
| 500       | 400        | -- | 753 902 826 | 1  | 7.080  | 230       | 60         | 95         | 29,7      | 23,7       |
| 500       | 450        | -- | 753 902 827 | 1  | 5.500  | 200       | 60         | 60         | 29,7      | 26,7       |
| 560       | 400        | -- | 753 902 828 | 1  | 9.900  | 230       | 60         | 95         | 33,2      | 23,7       |
| 560       | 450        | -- | 753 902 829 | 1  | 8.600  | 200       | 60         | 60         | 33,2      | 26,7       |
| 560       | 500        | -- | 753 902 830 | 1  | 7.600  | 200       | 60         | 60         | 33,2      | 29,7       |
| 630       | 400        | -- | 753 902 831 | 1  | 15.100 | 230       | 60         | 95         | 37,4      | 23,7       |
| 630       | 450        | -- | 753 902 832 | 1  | 13.700 | 200       | 60         | 60         | 37,4      | 26,7       |
| 630       | 500        | -- | 753 902 833 | 1  | 12.000 | 200       | 60         | 60         | 37,4      | 29,7       |

table continued next page



| d<br>[mm] | d1<br>[mm] | FM | Code               | SP | kg     | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|--------------------|----|--------|-----------|------------|------------|-----------|------------|
| 630       | 560        | -- | <b>753 902 834</b> | 1  | 9.800  | 200       | 60         | 60         | 37,4      | 33,2       |
| 710       | 500        | -- | <b>753 902 835</b> | 1  | 16.750 | 190       | 84         | 40         | 42,1      | 29,7       |
| 710       | 560        | -- | <b>753 902 836</b> | 1  | 15.014 | 170       | 81         | 40         | 42,1      | 33,2       |
| 710       | 630        | -- | <b>753 902 837</b> | 1  | 12.215 | 140       | 71         | 40         | 42,1      | 37,4       |
| 800       | 560        | -- | <b>753 902 838</b> | 1  | 22.731 | 200       | 85         | 40         | 47,4      | 33,2       |
| 800       | 630        | -- | <b>753 902 839</b> | 1  | 20.475 | 180       | 85         | 40         | 47,4      | 37,4       |
| 800       | 710        | -- | <b>753 902 840</b> | 1  | 16.774 | 150       | 78         | 40         | 47,4      | 42,1       |
| 900       | 630        | -- | <b>753 902 841</b> | 1  | 32.055 | 220       | 96         | 40         | 53,3      | 37,4       |
| 900       | 710        | -- | <b>753 902 842</b> | 1  | 27.731 | 190       | 89         | 40         | 53,3      | 42,1       |
| 900       | 800        | -- | <b>753 902 843</b> | 1  | 22.854 | 160       | 85         | 40         | 53,3      | 47,4       |
| 1000      | 710        | -- | <b>753 902 844</b> | 1  | 40.412 | 220       | 91         | 40         | 59,3      | 42,1       |
| 1000      | 800        | -- | <b>753 902 845</b> | 1  | 33.910 | 180       | 86         | 40         | 59,3      | 47,4       |
| 1000      | 900        | -- | <b>753 902 846</b> | 1  | 25.824 | 140       | 75         | 40         | 59,3      | 53,3       |

538000

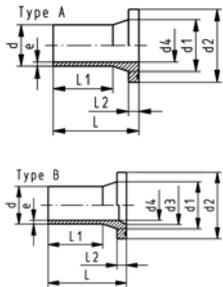


## Flange adaptor PE100 S5/SDR11 Combined jointing face: flat and serrated

Model:

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 10 bar Gas / 16 bar Water

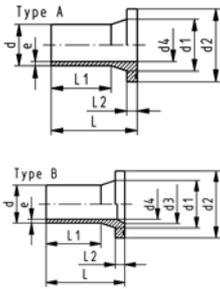
\* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 20        | 15         | IR | <b>753 800 006</b> | 50 | 50 | 0.022  |
| 25        | 20         | IR | <b>753 800 007</b> | 50 | -  | 0.034  |
| 32        | 25         | IR | <b>753 800 008</b> | 5  | 25 | 0.051  |
| 40        | 32         | IR | <b>753 800 009</b> | 2  | 60 | 0.076  |
| 50        | 40         | IR | <b>753 800 010</b> | 2  | 50 | 0.107  |
| 63        | 50         | IR | <b>753 800 011</b> | 1  | 70 | 0.174  |
| * 75      | 65         | IR | <b>753 800 012</b> | 1  | 30 | 0.300  |
| * 90      | 80         | IR | <b>753 800 013</b> | 1  | 24 | 0.440  |
| * 110     | 100        | IR | <b>753 800 014</b> | 1  | 16 | 0.685  |
| * 125     | 100        | IR | <b>753 800 015</b> | 1  | 16 | 0.836  |
| * 140     | 125        | IR | <b>753 800 016</b> | 1  | 6  | 1.295  |
| * 160     | 150        | IR | <b>753 800 017</b> | 1  | 6  | 1.644  |
| * 180     | 150        | IR | <b>753 800 018</b> | 1  | 6  | 1.873  |
| * 200     | 200        | IR | <b>753 800 019</b> | 1  | 4  | 2.758  |
| * 225     | 200        | IR | <b>753 800 020</b> | 1  | 4  | 2.972  |
| * 250     | 250        | -- | <b>753 800 021</b> | 1  | 6  | 4.535  |
| * 280     | 250        | -- | <b>753 800 022</b> | 1  | 5  | 4.925  |
| * 315     | 300        | -- | <b>753 800 023</b> | 1  | 2  | 6.393  |
| * 355     | 350        | -- | <b>753 800 024</b> | 1  | 2  | 10.400 |
| * 400     | 400        | -- | <b>753 800 025</b> | 1  | 1  | 14.600 |
| * 450     | 500        | -- | <b>753 800 026</b> | 1  | 1  | 24.800 |
| * 500     | 500        | -- | <b>753 800 027</b> | 1  | 1  | 27.400 |
| * 560     | 600        | -- | <b>753 800 028</b> | 1  | 1  | 38.000 |
| * 630     | 600        | -- | <b>753 800 029</b> | 1  | 1  | 42.300 |
| 710       | 700        | -- | <b>753 800 030</b> | 1  | -  | 56.379 |
| 800       | 800        | -- | <b>753 800 033</b> | 1  | -  | 72.636 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | 27         | 45         |            | 16         | 85        | 41         | 7          | 1.9       |
| 25        | 20         | 33         | 58         |            | 20         | 85        | 41         | 9          | 2.3       |
| 32        | 25         | 40         | 68         |            | 26         | 85        | 44         | 10         | 3.0       |
| 40        | 32         | 50         | 78         |            | 32         | 85        | 49         | 11         | 3.7       |
| 50        | 40         | 61         | 88         |            | 40         | 104       | 55         | 12         | 4.6       |
| 63        | 50         | 75         | 102        |            | 51         | 98        | 69         | 14         | 5.8       |
| * 75      | 65         | 89         | 122        | 66         | 61         | 125       | 89         | 16         | 6.8       |
| * 90      | 80         | 105        | 138        | 78         | 73         | 140       | 103        | 17         | 8.2       |

table continued next page



| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 110     | 100        | 125        | 158        | 100        | 90         | 160       | 114        | 18         | 10.0      |
| * 125     | 100        | 132        | 158        | 114        | 102        | 170       | 125        | 25         | 11.4      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 200       | 147        | 25         | 12.7      |
| * 160     | 150        | 175        | 212        | 151        | 130        | 200       | 147        | 25         | 14.6      |
| * 180     | 150        | 180        | 212        | 158        | 147        | 200       | 170        | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 200       | 128        | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 200       | 138        | 32         | 20.5      |
| * 250     | 250        | 285        | 320        | 245        | 204        | 219       | 138        | 35         | 22.7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 231       | 144        | 35         | 25.4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 239       | 158        | 35         | 28.6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 260       | 176        | 40         | 32.3      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 290       | 186        | 46         | 36.3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 333       | 195        | 60         | 40.9      |
| * 500     | 500        | 530        | 585        | 440        | 409        | 350       | 212        | 60         | 45.5      |
| * 560     | 600        | 615        | 685        | 490        | 458        | 365       | 230        | 60         | 50.9      |
| * 630     | 600        | 642        | 685        | 545        | 515        | 385       | 250        | 60         | 57.3      |
| 710       | 700        | 737        | 800        |            | 581        | 400       | 280        | 60         | 64.5      |
| 800       | 800        | 840        | 905        |            | 652        | 400       | 280        | 65         | 74.0      |

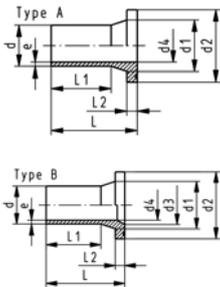
538000  
538001

## Flange adaptor PE100 SDR17/17.6 Combined jointing face: flat and serrated

### Model:

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 5 bar Gas / 10 bar Water

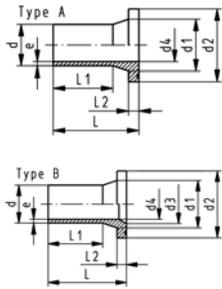
### \* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 50        | 40         | IR | <b>753 800 085</b> | 5  | 10 | 0.110  |
| 63        | 50         | IR | <b>753 800 086</b> | 2  | 32 | 0.143  |
| 75        | 65         | IR | <b>753 800 087</b> | 2  | 18 | 0.246  |
| 90        | 80         | IR | <b>753 800 088</b> | 1  | 24 | 0.351  |
| 110       | 100        | IR | <b>753 800 089</b> | 1  | 16 | 0.531  |
| * 125     | 100        | IR | <b>753 800 090</b> | 1  | 16 | 0.629  |
| * 140     | 125        | IR | <b>753 800 091</b> | 1  | 6  | 0.973  |
| * 160     | 150        | IR | <b>753 800 092</b> | 1  | 6  | 1.257  |
| 180       | 150        | IR | <b>753 800 093</b> | 1  | 6  | 1.364  |
| * 200     | 200        | IR | <b>753 800 094</b> | 1  | 4  | 2.212  |
| * 225     | 200        | IR | <b>753 800 095</b> | 1  | 4  | 2.233  |
| * 250     | 250        | -- | <b>753 800 096</b> | 1  | 6  | 3.595  |
| * 280     | 250        | -- | <b>753 800 097</b> | 1  | 5  | 3.355  |
| * 315     | 300        | -- | <b>753 800 098</b> | 1  | 2  | 5.320  |
| * 355     | 350        | -- | <b>753 800 099</b> | 2  | 2  | 16.200 |
| * 400     | 400        | -- | <b>753 800 100</b> | 1  | 1  | 10.300 |
| 450       | 500        | -- | <b>753 800 101</b> | 1  | 1  | 15.800 |
| 500       | 500        | -- | <b>753 800 102</b> | 1  | 1  | 19.100 |
| 560       | 600        | -- | <b>753 800 103</b> | 1  | 1  | 27.500 |
| 630       | 600        | -- | <b>753 800 104</b> | 1  | 1  | 30.000 |
| 710       | 700        | -- | <b>753 800 105</b> | 1  | -  | 39.376 |
| 800       | 800        | -- | <b>753 800 106</b> | 1  | -  | 50.759 |
| 900       | 900        | -- | <b>753 800 107</b> | 1  | -  | 64.202 |
| 1000      | 1000       | -- | <b>753 800 108</b> | 1  | -  | 79.495 |

| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 50        | 61         | 88         |            | 44         | 104       | 55         | 12         | 3.0       |
| 63        | 75         | 102        |            | 55         | 120       | 65         | 14         | 3.8       |
| 75        | 89         | 122        |            | 66         | 130       | 75         | 16         | 4.5       |
| 90        | 105        | 138        |            | 79         | 140       | 103        | 17         | 5.4       |
| 110       | 125        | 158        |            | 96         | 160       | 117        | 18         | 6.6       |

table continued next page



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 125     | 132        | 158        | 114        | 110        | 170       | 125        | 25         | 7.4       |
| * 140     | 155        | 188        | 127        | 123        | 200       | 147        | 25         | 8.3       |
| * 160     | 175        | 212        | 158        | 141        | 200       | 147        | 25         | 9.5       |
| 180       | 180        | 212        |            | 158        | 200       | 170        | 30         | 10.7      |
| * 200     | 232        | 268        | 203        | 176        | 200       | 128        | 32         | 11.9      |
| * 225     | 235        | 268        | 210        | 198        | 200       | 138        | 32         | 13.4      |
| * 250     | 285        | 320        | 245        | 220        | 220       | 148        | 25         | 14.8      |
| * 280     | 291        | 320        | 265        | 246        | 230       | 154        | 25         | 16.6      |
| * 315     | 335        | 370        | 300        | 277        | 242       | 166        | 36         | 18.7      |
| * 355     | 373        | 430        | 340        | 312        | 261       | 179        | 30         | 21.1      |
| * 400     | 427        | 483        | 385        | 352        | 290       | 196        | 33         | 23.7      |
| 450       | 514        | 585        |            | 396        | 333       | 195        | 60         | 26.7      |
| 500       | 530        | 585        |            | 440        | 350       | 212        | 60         | 29.7      |
| 560       | 615        | 685        |            | 493        | 365       | 230        | 60         | 33.2      |
| 630       | 642        | 685        |            | 555        | 385       | 250        | 60         | 37.4      |
| 710       | 737        | 800        |            | 626        | 400       | 280        | 50         | 42.1      |
| 800       | 840        | 905        |            | 705        | 400       | 280        | 52         | 47.4      |
| 900       | 944        | 1005       |            | 793        | 400       | 260        | 55         | 53.3      |
| 1000      | 1047       | 1110       |            | 881        | 400       | 260        | 60         | 59.3      |

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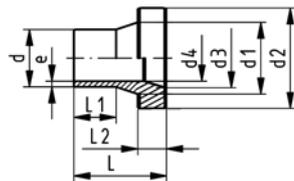
## Adaptor for butterfly valves PE100 SDR11 Jointing face flat metric



### Model:

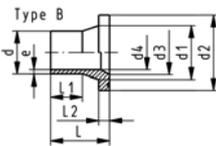
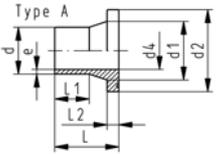
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for most common butterfly valves
- Chamfered and ready for use

Max pressure rating: 10 bar at 20°C water



| d<br>[mm] | DN<br>[mm] | Code               | kg     | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|--------------------|--------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 355       | 350        | <b>753 798 724</b> | 7.805  | 373        | 430        | 346        | 312        | 180       | 90         | 65         | 32.2      |
| 400       | 400        | <b>753 798 725</b> | 10.057 | 427        | 482        | 404        | 352        | 196       | 95         | 69         | 36.3      |
| 450       | 450        | <b>753 798 726</b> | 13.448 | 459        | 533        | 460        | 396        | 195       | 60         | 70         | 40.9      |
| 500       | 500        | <b>753 798 727</b> | 15.001 | 530        | 585        | 500        | 440        | 144       | 60         | 47         | 45.4      |
| 560       | 600        | <b>753 798 728</b> | 29.270 | 615        | 685        | 610        | 493        | 227       | 60         | 92         | 50.8      |
| 630       | 600        | <b>753 798 729</b> | 23.042 | 642        | 685        | 610        | 555        | 149       | 60         | 71         | 57.2      |
| 710       | 700        | <b>753 798 730</b> | 33.765 | 737        | 800        | 701        | 625        | 175       | 20         | 105        | 64.5      |
| 800       | 800        | <b>753 798 731</b> | 41.787 | 840        | 905        | 785        | 705        | 142       | 18         | 74         | 72.6      |

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## Flange adaptor PE100 SDR11

### Joining face combination serrated/flat metric

#### Model:

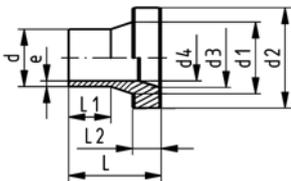
- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567,568 and 037
- For butterfly valves  $\geq$ DN350, please choose flange adaptor no. 53 79 88
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

#### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg     |
|-----------|------------|--------------------|----|----|--------|
| * 250     | 250        | <b>753 798 826</b> | 1  | 5  | 3.260  |
| * 280     | 250        | <b>753 798 827</b> | 1  | 5  | 3.760  |
| * 315     | 300        | <b>753 798 828</b> | 1  | 6  | 4.385  |
| * 355     | 350        | <b>753 798 829</b> | 1  | 4  | 5.855  |
| * 400     | 400        | <b>753 798 830</b> | 1  | 2  | 8.760  |
| * 450     | 500        | <b>753 798 831</b> | 1  | 14 | 14.680 |
| * 500     | 500        | <b>753 798 832</b> | 1  | 14 | 13.630 |
| * 560     | 600        | <b>753 798 833</b> | 1  | 9  | 19.380 |
| * 630     | 600        | <b>753 798 834</b> | 1  | 9  | 16.500 |
| 710       | 700        | <b>753 798 835</b> | 1  | 9  | 21.586 |
| 800       | 800        | <b>753 798 836</b> | 1  | 9  | 28.505 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 250     | 250        | 285        | 320        | 245        | 204        | 121       | 54         | 35         | 22,7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 119       | 69         | 35         | 25,4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 166       | 88         | 35         | 28,6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 187       | 98         | 40         | 32,2      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 196       | 106        | 45         | 36,3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 139       | 61         | 60         | 40,9      |
| * 500     | 500        | 530        | 585        | 440        | 409        | 138       | 62         | 60         | 45,4      |
| * 560     | 600        | 615        | 684        | 490        | 458        | 135       | 20         | 60         | 50,8      |
| * 630     | 600        | 642        | 684        | 545        | 516        | 135       | 40         | 60         | 57,2      |
| 710       | 700        | 737        | 800        |            | 581        | 120       | 20         | 60         | 64,5      |
| 800       | 800        | 840        | 905        |            | 655        | 120       | 18         | 65         | 72,6      |

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## Adaptor for butterfly valves PE100

### SDR17/17.6

### Joining face flat metric



#### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Suitable for most common butterfly valves
- Chamfered and ready for use

Max pressure rating: 10 bar at 20°C water

| d<br>[mm] | DN<br>[mm] | Code               | kg      | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|--------------------|---------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 355       | 350        | <b>753 798 749</b> | 6.479   | 373        | 430        | 346        | 312        | 180       | 90         | 65         | 21.1      |
| 400       | 400        | <b>753 798 750</b> | 8.426   | 427        | 482        | 404        | 352        | 196       | 95         | 69         | 23.7      |
| 450       | 450        | <b>753 798 751</b> | 9.570   | 459        | 533        | 460        | 396        | 195       | 60         | 90         | 26.7      |
| 500       | 500        | <b>753 798 752</b> | 8.263   | 530        | 585        | 500        | 440        | 144       | 60         | 47         | 29.7      |
| 560       | 600        | <b>753 798 753</b> | 17.307  | 615        | 685        | 610        | 493        | 227       | 60         | 92         | 33.2      |
| 630       | 600        | <b>753 798 754</b> | 12.122  | 642        | 685        | 610        | 555        | 149       | 60         | 71         | 37.4      |
| 710       | 700        | <b>753 798 755</b> | 21.505  | 737        | 800        | 701        | 625        | 175       | 20         | 105        | 42.1      |
| 800       | 800        | <b>753 798 756</b> | 21.841  | 840        | 905        | 785        | 705        | 142       | 18         | 74         | 47.4      |
| 900       | 900        | <b>753 798 757</b> | 34.187  | 947        | 1005       | 890        | 793        | 189       | 15         | 104        | 53.3      |
| 1000      | 1000       | <b>753 798 758</b> | 43.733  | 1047       | 1110       | 994        | 881        | 204       | 10         | 124        | 59.3      |
| 1200      | 1200       | <b>753 798 759</b> | 106.295 | 1256       | 1330       | 1860       | 1057       | 377       | 160        | 126        | 71.2      |

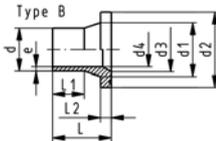
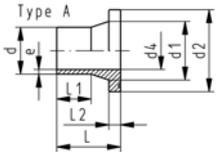
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## Flange adaptor PE100 S8.3/SDR17.6 Jointing face combination serrated/flat metric

### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567,568 and 037
- For butterfly valves  $\geq$ DN350, please choose flange adaptor no. 53 79 88
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

### \* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg     |
|-----------|------------|--------------------|----|----|--------|
| * 250     | 250        | <b>753 798 851</b> | 1  | 5  | 2.315  |
| * 280     | 250        | <b>753 798 852</b> | 1  | 5  | 2.165  |
| * 315     | 300        | <b>753 798 853</b> | 1  | 6  | 3.080  |
| * 355     | 350        | <b>753 798 854</b> | 1  | 4  | 4.155  |
| * 400     | 400        | <b>753 798 855</b> | 1  | 2  | 6.050  |
| 450       | 500        | <b>753 798 856</b> | 1  | 14 | 9.960  |
| 500       | 500        | <b>753 798 857</b> | 1  | 14 | 9.865  |
| 560       | 600        | <b>753 798 858</b> | 1  | 9  | 14.875 |
| 630       | 600        | <b>753 798 859</b> | 1  | 9  | 12.515 |
| 710       | 700        | <b>753 798 860</b> | 1  | 9  | 15.878 |
| 800       | 800        | <b>753 798 861</b> | 1  | 9  | 20.948 |
| 900       | 900        | <b>753 798 862</b> | 1  | 9  | 29.183 |
| 1000      | 1000       | <b>753 798 863</b> | 1  | 9  | 36.209 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 250     | 250        | 285        | 320        | 245        | 220        | 121       | 61         | 25         | 14,8      |
| * 280     | 250        | 291        | 320        | 265        | 246        | 119       | 69         | 25         | 16,6      |
| * 315     | 300        | 335        | 370        | 300        | 277        | 164       | 86         | 25         | 18,7      |
| * 355     | 350        | 373        | 430        | 340        | 312        | 180       | 100        | 30         | 21,1      |
| * 400     | 400        | 427        | 482        | 385        | 352        | 197       | 110        | 33         | 23,7      |
| 450       | 500        | 514        | 585        |            | 396        | 141       | 64         | 46         | 26,7      |
| 500       | 500        | 530        | 585        |            | 440        | 141       | 67         | 46         | 29,7      |
| 560       | 600        | 615        | 685        |            | 493        | 142       | 60         | 50         | 33,2      |
| 630       | 600        | 642        | 685        |            | 555        | 144       | 71         | 50         | 37,4      |
| 710       | 700        | 737        | 800        |            | 626        | 120       | 20         | 50         | 42,1      |
| 800       | 800        | 840        | 905        |            | 705        | 120       | 18         | 52         | 47,4      |
| 900       | 900        | 944        | 1005       |            | 793        | 140       | 15         | 55         | 53,3      |
| 1000      | 1000       | 1047       | 1110       |            | 881        | 140       | 10         | 60         | 59,3      |

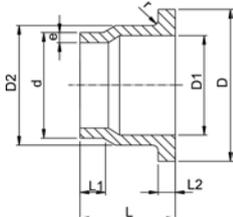
## Outlet flange adaptor PE80 SDR11

### Model:

- Conventional butt-welding according to DVS 2207 part 1
- Suitable for wafer check valves Type 369

### Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.



| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | r<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|
| 40        | 32         | <b>733 808 034</b> | -  | -  | 0.064 | 80        | 37         | 50         | 64        | 30         | 11         | 3,7       | 3         |
| 50        | 40         | <b>733 808 035</b> | -  | -  | 0.088 | 90        | 43         | 61         | 67        | 30         | 12         | 4,6       | 3         |
| 63        | 50         | <b>733 808 036</b> | -  | -  | 0.126 | 105       | 54         | 76         | 74        | 30         | 14         | 5,8       | 4         |
| 75        | 65         | <b>733 808 037</b> | -  | -  | 0.187 | 125       | 70         | 90         | 78        | 30         | 16         | 6,8       | 4         |
| 90        | 80         | <b>733 808 038</b> | -  | -  | 0.346 | 140       | 82         | 108        | 87        | 35         | 17         | 8,2       | 4         |
| 110       | 100        | <b>733 808 039</b> | -  | -  | 0.500 | 160       | 105        | 131        | 102       | 41         | 18         | 10,0      | 4         |
| 140       | 125        | <b>733 808 041</b> | -  | -  | 0.710 | 190       | 130        | 165        | 124       | 47         | 25         | 12,7      | 4         |
| 160       | 150        | <b>733 808 042</b> | -  | -  | 0.910 | 215       | 158        | 188        | 149       | 52         | 25         | 14,6      | 4         |
| 225       | 200        | <b>733 808 045</b> | -  | -  | 1.830 | 270       | 206        | 248        | 180       | 55         | 32         | 20,5      | 4         |
| 280       | 250        | <b>733 808 047</b> | -  | -  | 3.550 | 325       | 259        | 308        | 240       | 63         | 35         | 25,4      | 4         |
| 315       | 300        | <b>733 808 048</b> | -  | -  | 4.960 | 375       | 308        | 346        | 272       | 66         | 35         | 28,6      | 4         |



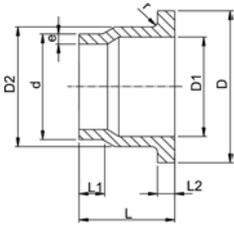
## Outlet flange adaptor PE80 SDR17.6

### Model:

- Conventional butt-welding according to DVS 2207 part 11
- Suitable for wafer check valves Type 369

### Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.



| d<br>[mm] | DN<br>[mm] | Code        | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | r<br>[mm] |
|-----------|------------|-------------|----|----|-------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|
| 40        | 32         | 733 808 009 | -  | -  | 0.060 | 80        | 37         | 50         | 64        | 30         | 11         | 2,3       | 3         |
| 50        | 40         | 733 808 010 | -  | -  | 0.067 | 90        | 43         | 61         | 67        | 30         | 12         | 2,9       | 3         |
| 63        | 50         | 733 808 011 | -  | -  | 0.096 | 105       | 54         | 76         | 74        | 30         | 14         | 3,6       | 4         |
| 75        | 65         | 733 808 012 | -  | -  | 0.170 | 125       | 70         | 90         | 78        | 30         | 16         | 4,3       | 4         |
| 90        | 80         | 733 808 013 | -  | -  | 0.260 | 140       | 82         | 108        | 87        | 35         | 17         | 5,1       | 4         |
| 110       | 100        | 733 808 014 | -  | -  | 0.355 | 160       | 105        | 131        | 102       | 41         | 18         | 6,3       | 4         |
| 140       | 125        | 733 808 016 | -  | -  | 0.500 | 190       | 130        | 165        | 124       | 47         | 18         | 8,0       | 4         |
| 160       | 150        | 733 808 017 | -  | -  | 0.630 | 215       | 158        | 188        | 149       | 52         | 18         | 9,1       | 4         |
| 225       | 200        | 733 808 020 | -  | -  | 1.225 | 270       | 206        | 248        | 180       | 55         | 24         | 12,8      | 4         |
| 280       | 250        | 733 808 022 | -  | -  | 2.230 | 325       | 259        | 308        | 240       | 63         | 25         | 15,9      | 4         |
| 315       | 300        | 733 808 023 | -  | -  | 2.450 | 375       | 308        | 346        | 272       | 66         | 25         | 17,9      | 4         |

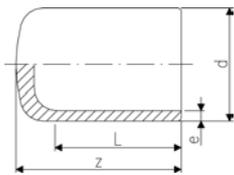
53 96 10

## Cap PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

### Note:

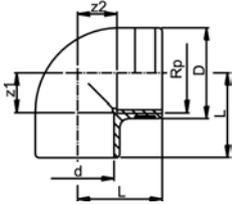
\* Fabricated fitting made from pipe



| d<br>[mm] | Code        | SP | GP  | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|-----|--------|-----------|-----------|-----------|
| 20        | 753 961 006 | 1  | 50  | 0.009  | 52        | 52        | 3,0       |
| 25        | 753 961 007 | 1  | 50  | 0.013  | 52        | 52        | 3,0       |
| 32        | 753 961 008 | 1  | 50  | 0.017  | 54        | 54        | 3,0       |
| 40        | 753 961 009 | 1  | 100 | 0.031  | 57        | 57        | 3,7       |
| 50        | 753 961 010 | 1  | 30  | 0.050  | 63        | 63        | 4,6       |
| 63        | 753 961 011 | 1  | 50  | 0.085  | 65        | 65        | 5,8       |
| 75        | 753 961 012 | 1  | 40  | 0.145  | 80        | 72        | 6,8       |
| 90        | 753 961 013 | 1  | 50  | 0.240  | 90        | 81        | 8,2       |
| 110       | 753 961 014 | 1  | 30  | 0.387  | 98        | 86        | 10,0      |
| 125       | 753 961 015 | 1  | 12  | 0.546  | 105       | 92        | 11,4      |
| 140       | 753 961 016 | 12 | 12  | 0.835  | 136       | 92        | 12,7      |
| 160       | 753 961 017 | 1  | 8   | 1.026  | 120       | 102       | 14,6      |
| 180       | 753 961 018 | 1  | 10  | 1.369  | 128       | 107       | 16,4      |
| 200       | 753 961 019 | 1  | 5   | 1.839  | 138       | 115       | 18,2      |
| 225       | 753 961 020 | 1  | 5   | 2.500  | 148       | 122       | 20,5      |
| 250       | 753 961 021 | 4  | -   | 3.927  | 205       | 130       | 22,7      |
| 280       | 753 960 922 | 2  | -   | 5.344  | 235       | 139       | 25,4      |
| 315       | 753 960 923 | 2  | -   | 7.176  | 255       | 150       | 28,6      |
| 355       | 753 960 924 | 2  | -   | 9.780  | 280       | 165       | 32,3      |
| 400       | 753 960 925 | 2  | -   | 13.370 | 310       | 180       | 36,4      |

# Adaptor fittings for socket fusion PE80

33 10 02



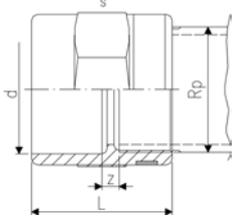
## Elbow 90° PE80 metric Rp

### Model:

- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | D<br>[mm] | L<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|------------|------------|
| 20        | ½            | 10 | <b>733 100 206</b> | 10 | 120 | 0.024 | 30        | 28        | 14         | 14         |
| 25        | ¾            | 10 | <b>733 100 207</b> | 10 | 80  | 0.033 | 35        | 32        | 16         | 16         |
| 32        | 1            | 10 | <b>733 100 208</b> | 10 | 40  | 0.061 | 44        | 38        | 20         | 20         |
| 40        | 1 ¼          | 10 | <b>733 100 209</b> | 10 | 90  | 0.094 | 54        | 44        | 24         | 24         |

33 91 02



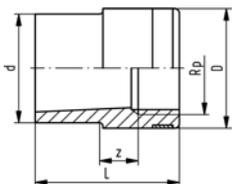
## Adaptor socket PE80 metric Rp

### Model:

- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | L<br>[mm] | s<br>[mm] | z<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 20        | ½            | 10 | <b>733 910 206</b> | 10 | 150 | 0.020 | 35        | 32        | 7         |
| 25        | ¾            | 10 | <b>733 910 207</b> | 10 | 100 | 0.026 | 39        | 36        | 7         |
| 32        | 1            | 10 | <b>733 910 208</b> | 10 | 70  | 0.043 | 45        | 46        | 7         |
| 40        | 1 ¼          | 10 | <b>733 910 209</b> | 10 | 100 | 0.070 | 53        | 55        | 7         |
| 50        | 1 ½          | 10 | <b>733 910 210</b> | 10 | 60  | 0.099 | 54        | 65        | 9         |
| 63        | 2            | 10 | <b>733 910 211</b> | 5  | 20  | 0.159 | 62        | 80        | 9         |

33 91 04



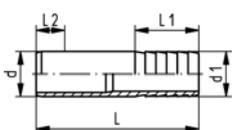
## Reducing bush PE80 metric Rp

### Model:

- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|
| 20        | ¾            | 10 | <b>733 910 434</b> | 10 | 300 | 0.012 | 33        | 7         |
| 25        | ½            | 10 | <b>733 910 437</b> | 10 | 170 | 0.017 | 37        | 6         |
| 32        | ¾            | 10 | <b>733 910 441</b> | 10 | 120 | 0.027 | 43        | 8         |
| 40        | 1            | 10 | <b>733 910 446</b> | 10 | 60  | 0.046 | 49        | 9         |
| 50        | 1 ¼          | 10 | <b>733 910 452</b> | 10 | 60  | 0.071 | 55        | 10        |

53 96 04



## Hose connector PE100 metric

### Model:

- With socket fusion spigot metric and parallel hose connection

| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|
| 20        | 20         | 10 | <b>753 960 406</b> | 10 | -  | 0.007 | 55        | 27         | 14         |
| 25        | 25         | 10 | <b>753 960 407</b> | 10 | -  | 0.015 | 68        | 36         | 16         |
| 32        | 32         | 10 | <b>753 960 408</b> | 10 | -  | 0.021 | 77        | 36         | 18         |
| 40        | 40         | 10 | <b>753 960 409</b> | 10 | -  | 0.030 | 80        | 42         | 20         |
| 50        | 50         | 10 | <b>753 960 410</b> | 10 | -  | 0.064 | 90        | 48         | 23         |
| 63        | 60         | 10 | <b>753 960 411</b> | 5  | -  | 0.092 | 100       | 50         | 27         |

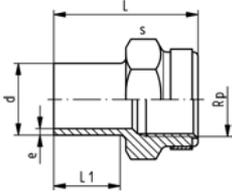
# Adaptor fittings for butt fusion PE100

53 91 02

## Adaptor socket PE100 SDR11 metric Rp

**Model:**

- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes



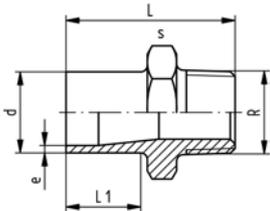
| d<br>[mm] | Rp<br>[inch] | DN<br>[mm] | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|--------------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | 1/2          | 15         | IR | <b>753 910 266</b> | 10 | 180 | 0.018 | 48        | 23         | 32        | 1,9       |
| 25        | 3/4          | 20         | IR | <b>753 910 267</b> | 10 | 100 | 0.022 | 50        | 23         | 36        | 2,3       |
| 32        | 1            | 25         | IR | <b>753 910 268</b> | 10 | 100 | 0.039 | 54        | 23         | 46        | 2,9       |
| 40        | 1 1/4        | 32         | IR | <b>753 910 269</b> | 10 | 100 | 0.068 | 56        | 23         | 55        | 3,7       |
| 50        | 1 1/2        | 40         | IR | <b>753 910 270</b> | 10 | 60  | 0.087 | 60        | 23         | 65        | 4,6       |
| 63        | 2            | 50         | IR | <b>753 910 271</b> | 5  | 20  | 0.140 | 62        | 23         | 80        | 5,8       |

53 91 05

## Adaptor nipple PE100 SDR11 metric R

**Model:**

- With butt fusion spigot SDR11 and tapered male thread
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes



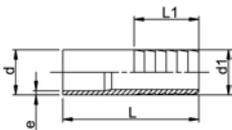
| d<br>[mm] | R<br>[inch] | DN<br>[mm] | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|-------------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | 1/2         | 15         | IR | <b>753 910 556</b> | 10 | 150 | 0.014 | 51        | 23         | 32        | 1,9       |
| 25        | 3/4         | 20         | IR | <b>753 910 557</b> | 10 | 100 | 0.026 | 52        | 23         | 36        | 2,3       |
| 32        | 1           | 25         | IR | <b>753 910 558</b> | 10 | 100 | 0.029 | 55        | 23         | 46        | 3,0       |
| 40        | 1 1/4       | 32         | IR | <b>753 910 559</b> | 10 | 50  | 0.043 | 58        | 23         | 55        | 3,7       |
| 50        | 1 1/2       | 40         | IR | <b>753 910 560</b> | 10 | 60  | 0.064 | 60        | 23         | 65        | 4,6       |
| 63        | 2           | 50         | IR | <b>753 910 561</b> | 5  | -   | 0.140 | 67        | 26         | 80        | 5,8       |

53 96 86

## Hose connector PE100 SDR11 metric

**Model:**

- With butt fusion spigot **SDR11** and parallel hose connection



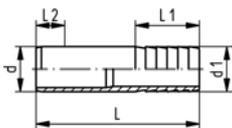
| d<br>[mm] | d1<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|------------|------------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | 20         | 15         | IR | <b>753 968 606</b> | 10 | -  | 0.008 | 64        | 27         | 1,9       |
| 25        | 25         | 20         | IR | <b>753 968 607</b> | 10 | -  | 0.013 | 75        | 36         | 2,3       |
| 32        | 32         | 25         | IR | <b>753 968 608</b> | 10 | -  | 0.021 | 82        | 36         | 2,9       |
| 40        | 40         | 32         | IR | <b>753 968 609</b> | 10 | -  | 0.034 | 84        | 42         | 3,7       |
| 50        | 50         | 40         | IR | <b>753 968 610</b> | 10 | -  | 0.056 | 90        | 48         | 4,6       |
| 63        | 60         | 50         | IR | <b>753 968 611</b> | 5  | -  | 0.095 | 100       | 50         | 5,8       |

53 96 04

## Hose connector PE100 metric

**Model:**

- With socket fusion spigot metric and parallel hose connection



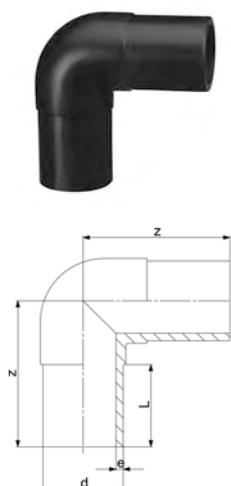
| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|
| 20        | 20         | 10 | <b>753 960 406</b> | 10 | -  | 0.007 | 55        | 27         | 14         |
| 25        | 25         | 10 | <b>753 960 407</b> | 10 | -  | 0.015 | 68        | 36         | 16         |
| 32        | 32         | 10 | <b>753 960 408</b> | 10 | -  | 0.021 | 77        | 36         | 18         |
| 40        | 40         | 10 | <b>753 960 409</b> | 10 | -  | 0.030 | 80        | 42         | 20         |
| 50        | 50         | 10 | <b>753 960 410</b> | 10 | -  | 0.064 | 90        | 48         | 23         |
| 63        | 60         | 10 | <b>753 960 411</b> | 5  | -  | 0.092 | 100       | 50         | 27         |

# Spigot Fittings in PE 100

53 10 10

## Elbow 90°, PE100 SDR 11

- Long spigot version
- 10 bar Gas / 16 bar Water

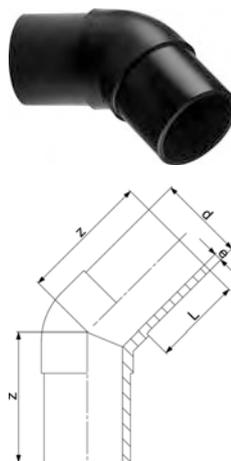


| d<br>[mm] | Code        | SP | GP  | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|-----|--------|-----------|-----------|-----------|
| 20        | 753 101 006 | 1  | 40  | 0.027  | 75        | 52        | 3.0       |
| 25        | 753 101 007 | 1  | 40  | 0.037  | 80        | 52        | 3.0       |
| 32        | 753 101 008 | 1  | 100 | 0.053  | 85        | 54        | 3.0       |
| 40        | 753 101 009 | 1  | 50  | 0.093  | 95        | 57        | 3.7       |
| 50        | 753 101 010 | 1  | 30  | 0.159  | 105       | 63        | 4.6       |
| 63        | 753 101 011 | 1  | 40  | 0.275  | 115       | 65        | 5.8       |
| 75        | 753 101 012 | 1  | 12  | 0.413  | 130       | 72        | 6.8       |
| 90        | 753 101 013 | 1  | 18  | 0.704  | 150       | 81        | 8.2       |
| 110       | 753 101 014 | 1  | 10  | 1.145  | 165       | 86        | 10.0      |
| 125       | 753 101 015 | 1  | 6   | 1.609  | 180       | 93        | 11.4      |
| 140       | 753 101 016 | 5  | 5   | 1.920  | 194       | 92        | 12.7      |
| 160       | 753 101 017 | 1  | 5   | 3.100  | 210       | 103       | 14.6      |
| 180       | 753 101 018 | 1  | 3   | 4.319  | 232       | 107       | 16.4      |
| 200       | 753 101 019 | 1  | 3   | 5.733  | 253       | 117       | 18.2      |
| 225       | 753 101 020 | 1  | 1   | 7.780  | 270       | 122       | 20.5      |
| 250       | 753 101 001 | 3  | 3   | 10.500 | 292       | 130       | 22.7      |
| 280       | 753 100 922 | 2  | 2   | 15.286 | 320       | 140       | 25.4      |
| 315       | 753 100 923 | 1  | -   | 21.960 | 370       | 150       | 28.6      |

53 15 10

## Elbow 45°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

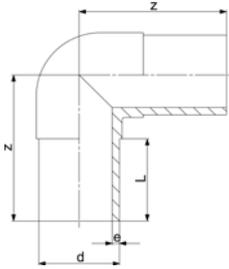


| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|
| 20        | 753 151 006 | 1  | 40 | 0.026  | 70        | 52        | 3.0       |
| 25        | 753 151 007 | 1  | 30 | 0.035  | 75        | 52        | 3.0       |
| 32        | 753 151 008 | 1  | 25 | 0.051  | 80        | 54        | 3.0       |
| 40        | 753 151 009 | 1  | 30 | 0.082  | 85        | 57        | 3.7       |
| 50        | 753 151 010 | 1  | 70 | 0.137  | 90        | 63        | 4.6       |
| 63        | 753 151 011 | 1  | 50 | 0.300  | 95        | 65        | 5.8       |
| 75        | 753 151 012 | 1  | 12 | 0.346  | 105       | 72        | 6.8       |
| 90        | 753 151 013 | 1  | 20 | 0.578  | 120       | 81        | 8,2       |
| 110       | 753 151 014 | 1  | 12 | 0.931  | 130       | 86        | 10,0      |
| 125       | 753 151 015 | 1  | 6  | 1.286  | 140       | 92        | 11,4      |
| 140       | 753 151 016 | 4  | -  | 1.600  | 164       | 120       | 12,7      |
| 160       | 753 151 017 | 1  | 6  | 2.461  | 162       | 102       | 14,6      |
| 180       | 753 151 018 | 1  | 5  | 3.283  | 170       | 107       | 16,4      |
| 200       | 753 151 019 | 1  | 3  | 4.371  | 186       | 116       | 18,2      |
| 225       | 753 151 020 | 1  | 2  | 6.013  | 200       | 123       | 20,5      |
| 250       | 753 151 021 | 3  | 3  | 8.541  | 220       | 130       | 22,7      |
| 280       | 753 150 922 | 3  | 2  | 10.924 | 226       | 140       | 25,4      |
| 315       | 753 150 923 | 2  | 2  | 14.818 | 246       | 150       | 28,6      |

53 10 08

**Elbow 90°, PE100 SDR17/17,6**

- Long spigot version
- 5 bar Gas / 10 bar Water

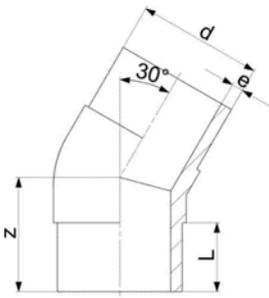


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 90        | <b>753 100 813</b> | 1  | 18 | 0.544  | 150       | 81        | 5,4       |
| 110       | <b>753 100 814</b> | 1  | 10 | 0.625  | 165       | 86        | 6,6       |
| 125       | <b>753 100 815</b> | 1  | 6  | 0.927  | 180       | 93        | 7,4       |
| 140       | <b>753 100 816</b> | 5  | 5  | 1.430  | 194       | 92        | 8,3       |
| 160       | <b>753 100 817</b> | 1  | 5  | 3.040  | 210       | 102       | 9,5       |
| 180       | <b>753 100 818</b> | 1  | 3  | 3.750  | 232       | 107       | 10,7      |
| 200       | <b>753 100 819</b> | 1  | 3  | 4.980  | 253       | 115       | 11,9      |
| 225       | <b>753 100 820</b> | 1  | 1  | 6.850  | 270       | 120       | 13,4      |
| 250       | <b>753 100 821</b> | 2  | 3  | 8.274  | 292       | 130       | 14,8      |
| 280       | <b>753 100 822</b> | 2  | 2  | 11.423 | 320       | 140       | 16,6      |
| 315       | <b>753 100 823</b> | 1  | 1  | 16.050 | 370       | 150       | 18,7      |

53 12 09

**Elbow 30°, PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

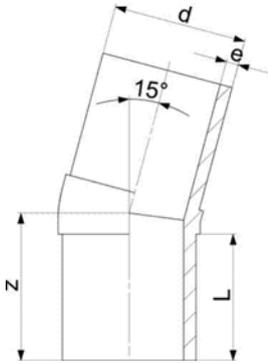


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 32        | <b>753 120 908</b> | 1  | 20 | 0.050  | 70        | 54        | 3,0       |
| 40        | <b>753 120 909</b> | 1  | 40 | 0.530  | 80        | 57        | 3,7       |
| 50        | <b>753 120 910</b> | 1  | 6  | 0.530  | 80        | 63        | 4,6       |
| 63        | <b>753 120 911</b> | 1  | 8  | 0.207  | 80        | 65        | 5,8       |
| 75        | <b>753 120 912</b> | 1  | 10 | 0.530  | 90        | 72        | 6,8       |
| 90        | <b>753 120 913</b> | 10 | 6  | 0.540  | 100       | 81        | 8,2       |
| 110       | <b>753 120 914</b> | 1  | 5  | 0.840  | 105       | 86        | 10,0      |
| 125       | <b>753 120 915</b> | 1  | 6  | 1.240  | 115       | 92        | 11,4      |
| 140       | <b>753 120 916</b> | 2  | 4  | 1.760  | 135       | 92        | 12,7      |
| 160       | <b>753 120 917</b> | 1  | 6  | 2.050  | 130       | 102       | 14,6      |
| 180       | <b>753 120 918</b> | 1  | 5  | 2.907  | 140       | 107       | 16,4      |
| 200       | <b>753 120 919</b> | 1  | 2  | 8.600  | 150       | 116       | 18,2      |
| 225       | <b>753 120 920</b> | 1  | 2  | 5.360  | 165       | 123       | 20,5      |
| 250       | <b>753 120 921</b> | 1  | 2  | 7.300  | 190       | 130       | 22,7      |
| 280       | <b>753 120 922</b> | 1  | 1  | 10.600 | 200       | 139       | 25,4      |
| 315       | <b>753 120 923</b> | 1  | 1  | 10.100 | 200       | 150       | 28,6      |

53 14 10

## Elbow 15° Type L, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

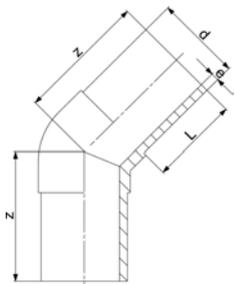


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 32        | <b>753 141 008</b> | 1  | 25 | 0.051  | 70        | 54        | 3.0       |
| 40        | <b>753 141 009</b> | 1  | 15 | 0.082  | 80        | 57        | 3.7       |
| 50        | <b>753 141 010</b> | 1  | 20 | 0.137  | 80        | 63        | 4.6       |
| 63        | <b>753 141 011</b> | 1  | 8  | 0.200  | 80        | 65        | 5.8       |
| 75        | <b>753 141 012</b> | 1  | 2  | 0.250  | 90        | 72        | 6.8       |
| 90        | <b>753 141 013</b> | 1  | 5  | 0.487  | 100       | 81        | 8.2       |
| 110       | <b>753 141 014</b> | 1  | 6  | 0.785  | 105       | 86        | 10.0      |
| 125       | <b>753 141 015</b> | 1  | 6  | 1.070  | 115       | 92        | 11.4      |
| 140       | <b>753 141 016</b> | 1  | 6  | 1.600  | 135       | 92        | 12.7      |
| 160       | <b>753 141 017</b> | 1  | 5  | 2.050  | 130       | 102       | 14.6      |
| 180       | <b>753 141 018</b> | 1  | 2  | 2.669  | 140       | 107       | 16.4      |
| 200       | <b>753 141 019</b> | 1  | 3  | 3.440  | 150       | 116       | 18.2      |
| 225       | <b>753 141 020</b> | 1  | 2  | 4.900  | 165       | 123       | 20.5      |
| 250       | <b>753 141 021</b> | 1  | 1  | 8.300  | 190       | 130       | 22.7      |
| 280       | <b>753 141 022</b> | 1  | 1  | 10.600 | 200       | 139       | 25.4      |
| 315       | <b>753 141 023</b> | 1  | 1  | 13.100 | 200       | 150       | 28.6      |

53 15 08

## Elbow 45°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water



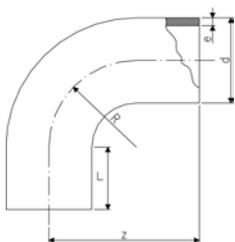
| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|
| 90        | <b>753 150 813</b> | 1  | 20 | 0.450  | 120       | 81        | 5,4       |
| 110       | <b>753 150 814</b> | 1  | 12 | 0.900  | 130       | 86        | 6,6       |
| 125       | <b>753 150 815</b> | 1  | 6  | 1.250  | 140       | 92        | 7,4       |
| 140       | <b>753 150 816</b> | 4  | -  | 1.100  | 164       | 120       | 8,3       |
| 160       | <b>753 150 817</b> | 1  | 6  | 2.390  | 162       | 102       | 9,5       |
| 180       | <b>753 150 818</b> | 1  | 5  | 3.060  | 170       | 107       | 10,7      |
| 200       | <b>753 150 819</b> | 1  | 3  | 4.100  | 186       | 116       | 11,9      |
| 225       | <b>753 150 820</b> | 1  | 2  | 5.610  | 205       | 123       | 13,4      |
| 250       | <b>753 150 821</b> | 3  | 3  | 6.227  | 217       | 130       | 14,8      |
| 280       | <b>753 150 822</b> | 3  | 2  | 7.819  | 230       | 140       | 16,6      |
| 315       | <b>753 150 823</b> | 2  | 2  | 10.596 | 246       | 150       | 18,7      |

53 00 09

## Bend 90°, PE100 SDR11

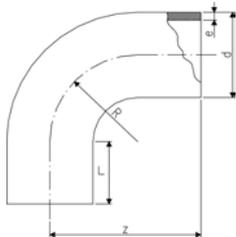
- Long spigot version
- 10 bar Gas / 16 bar Water

\* made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|-----------|-----------|-----------|
| 20        | <b>753 001 006</b> | 50 | 64 | 0.020 | 63        | 41        | 20        | 1,9       |
| 25        | <b>753 001 007</b> | 50 | -  | 0.030 | 68        | 41        | 25        | 2,3       |
| 32        | <b>753 001 008</b> | 25 | 25 | 0.050 | 78        | 46        | 32        | 2,9       |
| 40        | <b>753 001 009</b> | 15 | 15 | 0.090 | 91        | 49        | 40        | 3,7       |
| 50        | <b>753 001 010</b> | 40 | -  | 0.160 | 107       | 55        | 50        | 4,6       |
| 63        | <b>753 001 011</b> | 50 | -  | 0.290 | 130       | 63        | 63        | 5,8       |
| 75        | <b>753 001 012</b> | 32 | 32 | 0.300 | 152       | 70        | 75        | 6,8       |
| 90        | <b>753 001 013</b> | 18 | -  | 0.530 | 168       | 79        | 90        | 8,2       |
| 110       | <b>753 001 014</b> | 12 | 12 | 0.890 | 193       | 82        | 110       | 10,0      |
| 125       | <b>753 001 015</b> | 15 | -  | 1.290 | 216       | 87        | 125       | 11,4      |
| 140       | <b>753 001 016</b> | 5  | -  | 2.230 | 232       | 92        | 140       | 12,7      |
| 160       | <b>753 001 017</b> | 8  | 8  | 2.460 | 258       | 98        | 160       | 14,6      |
| 180       | <b>753 001 018</b> | 6  | -  | 5.000 | 290       | 105       | 180       | 16,4      |
| 200       | <b>753 001 019</b> | 4  | -  | 4.480 | 317       | 112       | 200       | 18,2      |
| 225       | <b>753 001 020</b> | 2  | -  | 9.770 | 350       | 120       | 225       | 20,5      |

table continued next page



| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 250       | 753 001 021 | 2  | -  | 9.230   | 375       | 130       | 250       | 22,7      |
| 280       | 753 001 022 | 1  | -  | 17.410  | 430       | 150       | 280       | 25,4      |
| 315       | 753 001 023 | 1  | -  | 23.950  | 470       | 150       | 315       | 28,6      |
| * 355     | 753 001 024 | -  | -  | 53.300  | 900       | 250       | 533       | 32,3      |
| * 400     | 753 001 025 | -  | -  | 71.900  | 980       | 250       | 600       | 36,4      |
| * 450     | 753 001 026 | -  | -  | 97.300  | 1070      | 250       | 675       | 40,9      |
| * 500     | 753 001 027 | -  | -  | 134.000 | 1200      | 280       | 750       | 45,5      |
| * 560     | 753 001 028 | -  | -  | 179.300 | 1290      | 280       | 840       | 50,9      |
| * 630     | 753 001 029 | -  | -  | 243.200 | 1400      | 280       | 945       | 57,3      |

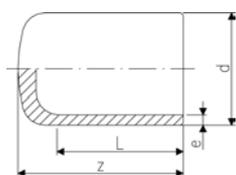
53 96 10

## Cap PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

### Note:

\* Fabricated fitting made from pipe

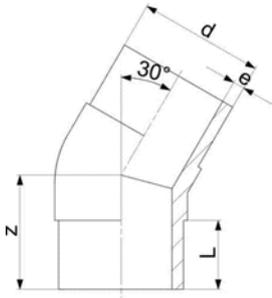


| d<br>[mm] | Code        | SP | GP  | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|-----|--------|-----------|-----------|-----------|
| 20        | 753 961 006 | 1  | 50  | 0.009  | 52        | 52        | 3,0       |
| 25        | 753 961 007 | 1  | 50  | 0.013  | 52        | 52        | 3,0       |
| 32        | 753 961 008 | 1  | 50  | 0.017  | 54        | 54        | 3,0       |
| 40        | 753 961 009 | 1  | 100 | 0.031  | 57        | 57        | 3,7       |
| 50        | 753 961 010 | 1  | 30  | 0.050  | 63        | 63        | 4,6       |
| 63        | 753 961 011 | 1  | 50  | 0.085  | 65        | 65        | 5,8       |
| 75        | 753 961 012 | 1  | 40  | 0.145  | 80        | 72        | 6,8       |
| 90        | 753 961 013 | 1  | 50  | 0.240  | 90        | 81        | 8,2       |
| 110       | 753 961 014 | 1  | 30  | 0.387  | 98        | 86        | 10,0      |
| 125       | 753 961 015 | 1  | 12  | 0.546  | 105       | 92        | 11,4      |
| 140       | 753 961 016 | 12 | 12  | 0.835  | 136       | 92        | 12,7      |
| 160       | 753 961 017 | 1  | 8   | 1.026  | 120       | 102       | 14,6      |
| 180       | 753 961 018 | 1  | 10  | 1.369  | 128       | 107       | 16,4      |
| 200       | 753 961 019 | 1  | 5   | 1.839  | 138       | 115       | 18,2      |
| 225       | 753 961 020 | 1  | 5   | 2.500  | 148       | 122       | 20,5      |
| 250       | 753 961 021 | 4  | -   | 3.927  | 205       | 130       | 22,7      |
| 280       | 753 960 922 | 2  | -   | 5.344  | 235       | 139       | 25,4      |
| 315       | 753 960 923 | 2  | -   | 7.176  | 255       | 150       | 28,6      |
| 355       | 753 960 924 | 2  | -   | 9.780  | 280       | 165       | 32,3      |
| 400       | 753 960 925 | 2  | -   | 13.370 | 310       | 180       | 36,4      |
| * 450     | 753 960 926 | -  | -   | 20.800 | 275       | 195       | 40,9      |
| * 500     | 753 960 927 | -  | -   | 28.400 | 297       | 212       | 45,5      |
| * 560     | 753 960 928 | -  | -   | 39.100 | 325       | 230       | 50,9      |
| * 630     | 753 960 929 | -  | -   | 59.700 | 355       | 250       | 57,3      |

53 12 08

**Elbow 30°, PE100 SDR17**

- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

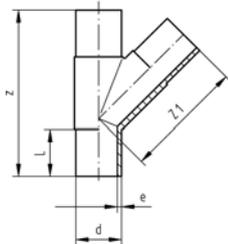


| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |  |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|--|
| 90        | <b>753 120 813</b> | 1  | 6  | 0.430  | 110       | 81        | 5,4       |  |
| 110       | <b>753 120 814</b> | 1  | 5  | 0.620  | 115       | 86        | 6,6       |  |
| 125       | <b>753 120 815</b> | 1  | 2  | 1.070  | 125       | 92        | 7,4       |  |
| 140       | <b>753 120 816</b> | 1  | 4  | 1.490  | 150       | 92        | 8,3       |  |
| 160       | <b>753 120 817</b> | 1  | 6  | 1.600  | 140       | 102       | 9,5       |  |
| 180       | <b>753 120 818</b> | 1  | 5  | 2.040  | 150       | 107       | 10,7      |  |
| 200       | <b>753 120 819</b> | 1  | 2  | 2.780  | 160       | 116       | 11,9      |  |
| 225       | <b>753 120 820</b> | 1  | 2  | 3.880  | 180       | 123       | 13,4      |  |
| 250       | <b>753 120 821</b> | 1  | 2  | 5.830  | 200       | 130       | 14,8      |  |
| 280       | <b>753 120 822</b> | 1  | 1  | 8.100  | 200       | 139       | 16,6      |  |
| 315       | <b>753 120 823</b> | 1  | 1  | 11.200 | 220       | 150       | 18,7      |  |

53 25 10

**Tee 45° equal PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water

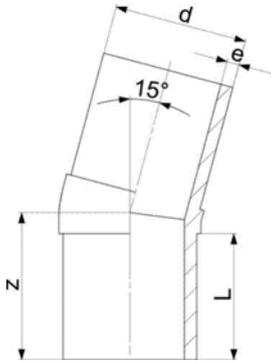


| d<br>[mm] | Code               | SP | GP | kg    | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |  |
|-----------|--------------------|----|----|-------|-----------|------------|-----------|-----------|--|
| 63        | <b>753 251 011</b> | 26 | 26 | 0.500 | 255       | 158        | 63        | 5,8       |  |
| 75        | <b>753 251 012</b> | 16 | -  | 0.800 | 301       | 190        | 70        | 6,8       |  |
| 90        | <b>753 251 013</b> | 10 | 10 | 1.300 | 368       | 234        | 79        | 8,2       |  |
| 110       | <b>753 251 014</b> | 6  | 6  | 1.800 | 395       | 260        | 82        | 10,0      |  |

## Elbow 15°, PE100 SDR17/17,6



- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design



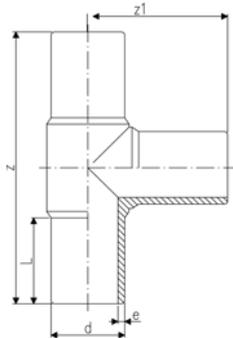
| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |  |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|--|
| 90        | 753 140 813 | 1  | 4  | 0.370  | 100       | 81        | 5.4       |  |
| 110       | 753 140 814 | 1  | 3  | 0.620  | 105       | 86        | 6.6       |  |
| 125       | 753 140 815 | 1  | 2  | 0.990  | 115       | 92        | 7.4       |  |
| 140       | 753 140 816 | 1  | 2  | 0.370  | 135       | 92        | 8.3       |  |
| 160       | 753 140 817 | 1  | 5  | 1.600  | 130       | 102       | 9.5       |  |
| 180       | 753 140 818 | 1  | 1  | 2.040  | 140       | 107       | 10.7      |  |
| 200       | 753 140 819 | 1  | 2  | 2.780  | 150       | 116       | 11.9      |  |
| 225       | 753 140 820 | 1  | 2  | 4.820  | 165       | 123       | 13.4      |  |
| 250       | 753 140 821 | 1  | 2  | 5.830  | 190       | 130       | 14.8      |  |
| 280       | 753 140 822 | 1  | 3  | 8.100  | 195       | 139       | 16.6      |  |
| 315       | 753 140 823 | 1  | 1  | 11.200 | 200       | 150       | 18.7      |  |

53 20 10

## Tee 90°, equal PE100 SDR11



- Long spigot version
- 10 bar Gas / 16 bar Water
- \* With welded pipes
- \* Segment welded and reinforced
- \* No pressure reduction factor

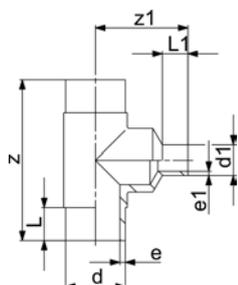


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |  |
|-----------|-------------|----|----|---------|-----------|------------|-----------|-----------|--|
| 20        | 753 201 006 | 1  | 30 | 0.038   | 150       | 75         | 52        | 3,0       |  |
| 25        | 753 201 007 | 1  | 25 | 0.054   | 160       | 80         | 52        | 3,0       |  |
| 32        | 753 201 008 | 1  | 20 | 0.074   | 170       | 85         | 54        | 3,0       |  |
| 40        | 753 201 009 | 1  | 80 | 0.127   | 190       | 95         | 57        | 3,7       |  |
| 50        | 753 201 010 | 1  | 20 | 0.217   | 210       | 105        | 63        | 4,6       |  |
| 63        | 753 201 011 | 1  | 25 | 0.375   | 230       | 115        | 65        | 5,8       |  |
| 75        | 753 201 012 | 1  | 16 | 0.616   | 264       | 132        | 72        | 6,8       |  |
| 90        | 753 201 013 | 1  | 7  | 1.031   | 300       | 150        | 81        | 8,2       |  |
| 110       | 753 201 014 | 1  | 7  | 1.660   | 330       | 165        | 86        | 10,0      |  |
| 125       | 753 201 015 | 1  | 4  | 2.215   | 366       | 183        | 92        | 11,4      |  |
| 140       | 753 201 016 | 1  | 4  | 3.200   | 393       | 193        | 92        | 12,7      |  |
| 160       | 753 201 017 | 1  | 4  | 4.320   | 420       | 210        | 102       | 14,6      |  |
| 180       | 753 201 018 | 1  | 3  | 5.980   | 460       | 230        | 107       | 16,4      |  |
| 200       | 753 201 019 | 1  | 2  | 7.760   | 500       | 250        | 117       | 18,2      |  |
| 225       | 753 201 020 | 1  | 1  | 10.485  | 540       | 270        | 122       | 20,5      |  |
| 250       | 753 201 001 | 2  | 2  | 14.708  | 575       | 288        | 130       | 22,7      |  |
| 280       | 753 200 902 | 1  | -  | 18.670  | 615       | 308        | 139       | 25,4      |  |
| 315       | 753 200 903 | 1  | -  | 26.150  | 695       | 346        | 150       | 28,6      |  |
| 355       | 753 200 904 | -  | -  | 39.800  | 818       | 410        | 165       | 32,3      |  |
| 400       | 753 200 905 | -  | -  | 42.495  | 910       | 455        | 180       | 36,4      |  |
| 450       | 753 200 906 | -  | -  | 77.300  | 970       | 485        | 195       | 40,9      |  |
| 500       | 753 200 907 | -  | -  | 101.000 | 1060      | 530        | 215       | 45,5      |  |
| * 560     | 753 200 908 | -  | -  | 153.300 | 1510      | 755        | 230       | 50,9      |  |
| * 630     | 753 200 909 | -  | -  | 205.500 | 1630      | 815        | 250       | 57,3      |  |

53 20 10

**Tee 90°, reduced with welded reducer**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water

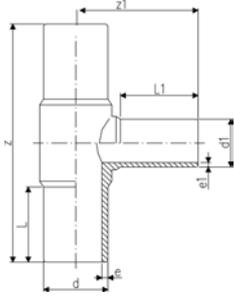


| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 25        | 20         | <b>753 201 002</b> | 20 | 20 | 0.053  | 160       |            | 52        | 52         | 3,0       | 3,0        |
| 32        | 20         | <b>753 201 003</b> | 1  | 10 | 0.094  | 170       | 105        | 54        | 52         | 3,0       | 3,0        |
| 32        | 25         | <b>753 201 004</b> | 1  | 25 | 0.098  | 170       | 110        | 54        | 52         | 3,0       | 3,0        |
| 40        | 20         | <b>753 201 005</b> | 1  | 30 | 0.155  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 40        | 25         | <b>753 201 069</b> | 1  | 30 | 0.160  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 40        | 32         | <b>753 201 070</b> | 1  | 6  | 0.160  | 190       | 120        | 57        | 52         | 3,7       | 3,0        |
| 50        | 20         | <b>753 201 072</b> | 1  | 20 | 0.252  | 210       | 140        | 63        | 52         | 4,6       | 3,0        |
| 50        | 25         | <b>753 201 077</b> | 1  | 10 | 0.260  | 210       | 130        | 63        | 52         | 4,6       | 3,0        |
| 50        | 32         | <b>753 201 080</b> | 1  | 20 | 0.267  | 210       | 130        | 63        | 53         | 4,6       | 3,0        |
| 50        | 40         | <b>753 201 081</b> | 1  | 10 | 0.276  | 210       | 130        | 63        | 57         | 4,6       | 3,7        |
| 63        | 32         | <b>753 201 082</b> | 1  | 6  | 0.460  | 230       | 140        | 65        | 53         | 5,8       | 3,0        |
| 63        | 40         | <b>753 201 116</b> | 1  | 12 | 0.480  | 230       | 145        | 65        | 57         | 5,8       | 3,7        |
| 75        | 40         | <b>753 201 084</b> | 1  | 4  | 0.755  | 264       | 180        | 72        | 57         | 6,8       | 3,7        |
| 125       | 63         | <b>753 201 085</b> | 1  | 8  | 2.850  | 366       | 225        | 92        | 61         | 11,4      | 5,8        |
| 125       | 75         | <b>753 201 086</b> | 1  | 8  | 2.880  | 366       | 235        | 92        | 72         | 11,4      | 6,8        |
| 140       | 75         | <b>753 201 087</b> | 1  | 4  | 4.050  | 396       | 230        | 92        | 70         | 12,7      | 6,8        |
| 140       | 90         | <b>753 201 089</b> | 1  | 4  | 4.095  | 396       | 235        | 92        | 79         | 12,7      | 8,2        |
| 140       | 110        | <b>753 201 090</b> | 1  | 4  | 3.600  | 396       | 240        | 92        | 82         | 12,7      | 10,0       |
| 140       | 125        | <b>753 201 091</b> | 1  | 2  | 4.170  | 396       | 240        | 92        | 90         | 12,7      | 11,4       |
| 160       | 125        | <b>753 201 092</b> | 1  | 4  | 5.715  | 420       | 265        | 102       | 92         | 14,6      | 11,4       |
| 160       | 140        | <b>753 201 093</b> | 1  | 4  | 5.895  | 420       | 270        | 102       | 96         | 14,6      | 12,7       |
| 180       | 125        | <b>753 201 094</b> | 1  | 2  | 8.930  | 460       | 285        | 107       | 92         | 16,4      | 11,4       |
| 180       | 140        | <b>753 201 095</b> | 1  | 1  | 9.070  | 460       | 295        | 107       | 110        | 16,4      | 12,7       |
| 200       | 125        | <b>753 201 096</b> | 1  | 1  | 10.460 | 500       | 295        | 117       | 92         | 18,2      | 11,4       |
| 200       | 140        | <b>753 201 097</b> | 1  | 1  | 10.570 | 500       | 310        | 117       | 110        | 18,2      | 12,7       |
| 200       | 180        | <b>753 201 098</b> | 1  | 1  | 10.900 | 500       | 310        | 117       | 110        | 18,2      | 16,4       |
| 225       | 125        | <b>753 201 099</b> | 1  | 1  | 14.470 | 540       | 320        | 122       | 92         | 20,5      | 11,4       |
| 225       | 140        | <b>753 201 100</b> | 1  | 1  | 14.574 | 540       | 335        | 122       | 110        | 20,5      | 12,7       |
| 225       | 200        | <b>753 201 101</b> | 1  | 1  | 14.925 | 540       | 340        | 122       | 117        | 20,5      | 18,2       |
| 250       | 180        | <b>753 201 102</b> | 1  | 1  | 18.890 | 576       | 350        | 130       | 105        | 22,7      | 16,4       |
| 250       | 200        | <b>753 201 103</b> | 1  | 1  | 19.220 | 576       | 360        | 130       | 112        | 22,7      | 18,2       |
| 250       | 225        | <b>753 201 104</b> | 1  | 1  | 19.690 | 576       | 390        | 130       | 120        | 22,7      | 20,5       |
| 280       | 200        | <b>753 201 105</b> | 1  | 1  | 24.520 | 616       | 410        | 139       | 112        | 25,4      | 18,2       |
| 280       | 225        | <b>753 201 106</b> | 1  | 1  | 24.755 | 616       | 420        | 139       | 120        | 25,4      | 20,5       |
| 280       | 250        | <b>753 201 107</b> | 1  | 1  | 25.210 | 616       | 420        | 139       | 130        | 25,4      | 22,7       |
| 315       | 200        | <b>753 201 108</b> | 1  | 1  | 33.950 | 690       | 470        | 150       | 134        | 28,6      | 18,2       |
| 315       | 280        | <b>753 201 109</b> | 1  | 1  | 34.950 | 690       | 480        | 150       | 139        | 28,6      | 25,4       |
| 355       | 250        | <b>753 201 110</b> | 1  | 1  | 48.900 | 818       | 530        | 165       | 130        | 32,3      | 22,7       |
| 355       | 280        | <b>753 201 111</b> | 1  | 1  | 49.300 | 818       | 480        | 165       | 139        | 32,3      | 25,4       |
| 355       | 315        | <b>753 201 112</b> | 1  | 1  | 49.690 | 818       | 480        | 165       | 150        | 32,3      | 28,6       |
| 400       | 280        | <b>753 201 113</b> | 1  | 1  | 52.915 | 910       | 530        | 180       | 139        | 36,4      | 25,4       |
| 400       | 315        | <b>753 201 114</b> | 1  | 1  | 53.625 | 910       | 580        | 180       | 150        | 36,4      | 28,6       |
| 400       | 355        | <b>753 201 115</b> | 1  | 1  | 54.075 | 910       | 675        | 180       | 165        | 36,4      | 32,3       |

53 20 10

**Tee 90° reduced, moulded, PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water

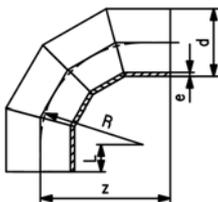


| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|-------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 63        | 50         | 753 201 044 | 1  | 10 | 0.300  | 215       | 103        | 63        | 56         | 5.8       | 4.6        |
| 75        | 32         | 753 201 045 | 1  | 10 | 0.490  | 256       | 108        | 70        | 46         | 6.8       | 2.9        |
| 75        | 50         | 753 201 046 | 1  | 10 | 0.530  | 253       | 113        | 70        | 56         | 6.8       | 4.6        |
| 75        | 63         | 753 201 047 | 1  | 10 | 0.560  | 255       | 117        | 70        | 63         | 6.8       | 5.8        |
| 90        | 50         | 753 201 027 | 15 | 1  | 0.820  | 280       | 117        | 79        | 55         | 8.2       | 4.6        |
| 90        | 63         | 753 201 029 | 15 | 1  | 0.775  | 280       | 123        | 79        | 63         | 8.2       | 5.8        |
| 90        | 75         | 753 201 030 | 1  | 3  | 0.793  | 272       | 138        | 73        | 68         | 8.2       | 6.8        |
| 110       | 63         | 753 201 028 | 10 | 1  | 1.267  | 320       | 147        | 87        | 63         | 10.0      | 5.8        |
| 110       | 75         | 753 201 031 | 1  | 2  | 1.244  | 309       | 151        | 82        | 70         | 10.0      | 6.8        |
| 110       | 90         | 753 201 032 | 10 | 1  | 1.275  | 320       | 158        | 86        | 79         | 10.0      | 8.2        |
| 125       | 90         | 753 201 048 | 1  | 3  | 2.389  | 340       | 170        | 112       | 92         | 11.4      | 8.2        |
| 125       | 110        | 753 201 033 | 1  | 3  | 1.860  | 341       | 170        | 90        | 83         | 11.4      | 10.0       |
| 160       | 63         | 753 201 034 | 8  | 1  | 2.680  | 343       | 176        | 98        | 65         | 14.6      | 5.8        |
| 160       | 75         | 753 201 035 | 1  | 3  | 2.726  | 343       | 180        | 98        | 74         | 14.6      | 6.8        |
| 160       | 90         | 753 201 036 | 8  | 1  | 2.775  | 412       | 188        | 101       | 79         | 14.6      | 8.2        |
| 160       | 110        | 753 201 037 | 8  | 1  | 3.300  | 412       | 195        | 101       | 82         | 14.6      | 10.0       |
| 180       | 90         | 753 201 049 | 1  | 1  | 4.100  | 420       | 200        | 136       | 97         | 16.4      | 8.2        |
| 180       | 110        | 753 201 050 | 2  | 1  | 4.379  | 430       | 206        | 130       | 101        | 16.4      | 10.0       |
| 180       | 160        | 753 201 038 | 1  | 1  | 4.379  | 411       | 205        | 105       | 94         | 16.4      | 14.6       |
| 200       | 63         | 753 201 073 | 1  | 1  | 7.300  | 500       | 190        | 122       | 63         | 18.2      | 5.8        |
| 200       | 90         | 753 201 074 | 4  | 1  | 9.730  | 500       | 207        | 122       | 79         | 18.2      | 8.2        |
| 200       | 110        | 753 201 075 | 4  | 1  | 9.730  | 500       | 215        | 122       | 82         | 18.2      | 10.0       |
| 200       | 160        | 753 201 076 | 4  | 1  | 9.730  | 500       | 234        | 122       | 98         | 18.2      | 14.6       |
| 225       | 75         | 753 201 039 | 3  | 1  | 6.500  | 555       | 215        | 120       | 70         | 20.5      | 6.8        |
| 225       | 90         | 753 201 040 | 3  | 3  | 6.633  | 558       | 226        | 120       | 80         | 20.5      | 8.2        |
| 225       | 110        | 753 201 041 | 3  | 3  | 6.600  | 558       | 235        | 120       | 82         | 20.5      | 10.0       |
| 225       | 160        | 753 201 042 | 3  | 3  | 8.095  | 560       | 253        | 120       | 98         | 20.5      | 14.6       |
| 225       | 180        | 753 201 043 | 3  | 1  | 9.375  | 560       | 280        | 120       | 105        | 20.5      | 16.4       |
| 250       | 110        | 753 201 078 | 1  | 1  | 9.730  | 575       | 242        | 130       | 82         | 22.7      | 10.0       |
| 250       | 160        | 753 201 079 | 1  | 1  | 9.730  | 575       | 261        | 127       | 98         | 22.7      | 14.6       |
| 315       | 110        | 753 201 051 | 1  | 1  | 15.300 | 695       | 277        | 150       | 82         | 28.6      | 10.0       |
| 315       | 160        | 753 201 052 | 1  | 1  | 16.600 | 695       | 296        | 150       | 102        | 28.6      | 14.6       |
| 315       | 225        | 753 201 053 | 1  | 1  | 20.500 | 650       | 335        | 170       | 145        | 28.6      | 20.5       |
| 315       | 250        | 753 201 054 | 1  | 1  | 22.000 | 695       | 325        | 150       | 130        | 28.6      | 22.7       |

53 00 08

**Bend 90°, PE100 SDR17****Model:**

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

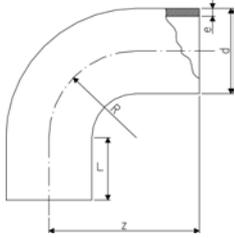


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 710       | 753 002 001 | 1  | -  | 202.419 | 1415      | 350       | 1065      | 42.1      |
| 800       | 753 002 002 | 1  | -  | 279.918 | 1550      | 350       | 1200      | 47.4      |
| 900       | 753 002 003 | 1  | -  | 386.595 | 1700      | 350       | 1350      | 53.3      |
| 1000      | 753 002 004 | 1  | -  | 534.660 | 1900      | 400       | 1500      | 59.3      |

53 00 08

**Bend 90°, PE100 SDR17**

- Long spigot version
- 5 bar Gas / 10 bar Water
- \* made out of seamless pipe

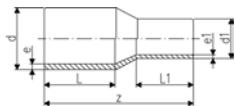


| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |  |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|--|
| 90        | 753 000 813 | 18 | 1  | 0.600   | 168       | 79        | 90        | 5,4       |  |
| 110       | 753 000 814 | 12 | -  | 1.000   | 193       | 82        | 110       | 6,6       |  |
| 125       | 753 000 815 | 15 | -  | 1.300   | 216       | 87        | 125       | 7,4       |  |
| 140       | 753 000 816 | 5  | -  | 2.500   | 232       | 92        | 140       | 8,3       |  |
| 160       | 753 000 817 | 8  | -  | 2.500   | 258       | 98        | 160       | 9,5       |  |
| 180       | 753 000 818 | 6  | -  | 4.000   | 290       | 105       | 180       | 10,7      |  |
| 200       | 753 000 819 | 4  | -  | 6.500   | 317       | 112       | 200       | 11,9      |  |
| 225       | 753 000 820 | 2  | -  | 8.500   | 350       | 120       | 225       | 13,4      |  |
| 250       | 753 000 821 | 2  | -  | 8.500   | 375       | 130       | 250       | 14,8      |  |
| 280       | 753 000 822 | 1  | -  | 15.000  | 430       | 150       | 280       | 16,6      |  |
| 315       | 753 000 823 | 1  | -  | 24.000  | 470       | 150       | 315       | 18,7      |  |
| * 355     | 753 000 824 | -  | -  | 36.700  | 900       | 250       | 533       | 21,1      |  |
| * 400     | 753 000 825 | 1  | 1  | 49.700  | 980       | 250       | 600       | 23,7      |  |
| * 450     | 753 000 826 | -  | -  | 66.600  | 1070      | 250       | 675       | 26,7      |  |
| * 500     | 753 000 827 | -  | -  | 87.400  | 1200      | 280       | 750       | 29,7      |  |
| * 560     | 753 000 828 | -  | -  | 116.000 | 1290      | 280       | 840       | 33,2      |  |
| * 630     | 753 000 829 | -  | -  | 159.600 | 1400      | 280       | 945       | 37,4      |  |
| * 710     | 753 000 830 | 1  | -  | 317.382 | 2200      | 570       | 1630      | 42,1      |  |
| * 800     | 753 000 831 | 1  | -  | 389.859 | 2200      | 480       | 1720      | 47,4      |  |

53 90 10

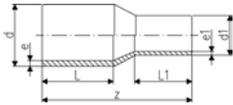
**Reducer PE100 SDR11**

- Long spigot version
- 10 bar Gas / 16 bar Water



| d<br>[mm] | d1<br>[mm] | Code        | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |  |
|-----------|------------|-------------|----|-----|-------|-----------|-----------|------------|-----------|------------|--|
| 25        | 20         | 753 901 038 | 1  | 40  | 0.022 | 115       | 52        | 52         | 3,0       | 3,0        |  |
| 32        | 20         | 753 901 042 | 1  | 100 | 0.028 | 120       | 54        | 52         | 3,0       | 3,0        |  |
| 32        | 25         | 753 901 041 | 1  | 45  | 0.031 | 120       | 54        | 52         | 3,0       | 3,0        |  |
| 40        | 20         | 753 901 048 | 1  | 40  | 0.040 | 130       | 57        | 52         | 3,7       | 3,0        |  |
| 40        | 25         | 753 901 047 | 1  | 50  | 0.043 | 130       | 57        | 52         | 3,7       | 3,0        |  |
| 40        | 32         | 753 901 046 | 1  | 40  | 0.047 | 130       | 57        | 53         | 3,7       | 3,0        |  |
| 50        | 20         | 753 901 055 | 1  | 20  | 0.064 | 150       | 63        | 52         | 4,6       | 3,0        |  |
| 50        | 25         | 753 901 054 | 1  | 45  | 0.066 | 140       | 63        | 52         | 4,6       | 3,0        |  |
| 50        | 32         | 753 901 053 | 1  | 40  | 0.067 | 140       | 63        | 53         | 4,6       | 3,0        |  |
| 50        | 40         | 753 901 052 | 1  | 25  | 0.079 | 140       | 63        | 57         | 4,6       | 3,7        |  |
| 63        | 32         | 753 901 060 | 1  | 50  | 0.109 | 150       | 65        | 53         | 5,8       | 3,0        |  |
| 63        | 40         | 753 901 059 | 1  | 50  | 0.119 | 150       | 65        | 57         | 5,8       | 3,7        |  |
| 63        | 50         | 753 901 058 | 1  | 50  | 0.130 | 150       | 65        | 63         | 5,8       | 4,6        |  |
| 75        | 40         | 753 901 063 | 1  | 60  | 0.178 | 170       | 72        | 57         | 6,8       | 3,7        |  |
| 75        | 50         | 753 901 064 | 1  | 50  | 0.191 | 170       | 72        | 63         | 6,8       | 4,6        |  |
| 75        | 63         | 753 901 065 | 1  | 50  | 0.216 | 170       | 72        | 65         | 6,8       | 5,8        |  |
| 90        | 50         | 753 901 072 | 1  | 18  | 0.291 | 190       | 81        | 63         | 8,2       | 4,6        |  |
| 90        | 63         | 753 901 071 | 1  | 18  | 0.317 | 190       | 81        | 65         | 8,2       | 5,8        |  |
| 90        | 75         | 753 901 070 | 1  | 18  | 0.361 | 190       | 81        | 70         | 8,2       | 6,8        |  |
| 110       | 63         | 753 901 078 | 1  | 24  | 0.469 | 205       | 86        | 65         | 10,0      | 5,8        |  |
| 110       | 75         | 753 901 077 | 1  | 10  | 0.497 | 205       | 86        | 70         | 10,0      | 6,8        |  |
| 110       | 90         | 753 901 076 | 1  | 9   | 0.557 | 205       | 86        | 81         | 10,0      | 8,2        |  |
| 125       | 63         | 753 901 083 | 1  | 15  | 0.579 | 214       | 87        | 63         | 11,4      | 5,8        |  |
| 125       | 75         | 753 901 082 | 1  | 15  | 0.660 | 210       | 92        | 72         | 11,4      | 6,8        |  |
| 125       | 90         | 753 901 081 | 1  | 15  | 0.735 | 212       | 92        | 81         | 11,4      | 8,2        |  |
| 125       | 110        | 753 901 080 | 1  | 15  | 0.819 | 212       | 92        | 86         | 11,4      | 10,0       |  |
| 140       | 125        | 753 901 085 | 12 | 12  | 0.988 | 235       | 110       | 90         | 12,7      | 11,4       |  |
| 160       | 90         | 753 901 088 | 1  | 10  | 1.060 | 244       | 120       | 79         | 14,6      | 8,2        |  |
| 160       | 110        | 753 901 090 | 10 | 5   | 1.240 | 244       | 102       | 86         | 14,6      | 10,0       |  |
| 160       | 125        | 753 901 089 | 1  | 5   | 1.403 | 245       | 102       | 92         | 14,6      | 11,4       |  |
| 160       | 140        | 753 901 032 | 10 | 10  | 1.350 | 260       | 120       | 110        | 14,6      | 12,7       |  |
| 180       | 125        | 753 901 091 | 1  | 6   | 1.753 | 258       | 107       | 92         | 16,4      | 11,4       |  |
| 180       | 160        | 753 901 033 | 6  | 6   | 2.044 | 255       | 107       | 102        | 16,4      | 14,6       |  |
| 200       | 160        | 753 901 092 | 1  | 6   | 2.472 | 265       | 117       | 102        | 18,2      | 14,6       |  |

table continued next page

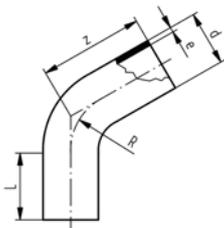


| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|-----------|------------|-----------|------------|
| 225       | 160        | <b>753 901 096</b> | 3  | 3  | 3.118  | 279       | 122       | 102        | 20,5      | 14,6       |
| 225       | 180        | <b>753 901 095</b> | 4  | 4  | 3.277  | 280       | 122       | 107        | 20,5      | 16,4       |
| 250       | 160        | <b>753 901 000</b> | 7  | -  | 2.385  | 300       | 130       | 100        | 22,7      | 14,6       |
| 250       | 200        | <b>753 901 001</b> | 6  | -  | 2.385  | 315       | 130       | 112        | 22,7      | 18,2       |
| 250       | 225        | <b>753 901 002</b> | 6  | -  | 2.385  | 332       | 130       | 120        | 22,7      | 20,5       |
| 280       | 250        | <b>753 901 003</b> | 5  | -  | 2.385  | 340       | 140       | 130        | 25,4      | 22,7       |
| 315       | 200        | <b>753 901 004</b> | 2  | 2  | 2.385  | 380       | 180       | 134        | 28,6      | 18,2       |
| 315       | 225        | <b>753 901 097</b> | 4  | -  | 7.790  | 365       | 150       | 120        | 28,6      | 20,5       |
| 315       | 250        | <b>753 901 005</b> | 4  | -  | 2.385  | 365       | 150       | 130        | 28,6      | 22,7       |
| 315       | 280        | <b>753 901 012</b> | 6  | 6  | 8.800  | 365       | 150       | 139        | 28,6      | 25,4       |
| 355       | 250        | <b>753 901 013</b> | 2  | 6  | 9.100  | 390       | 165       | 130        | 32,3      | 22,7       |
| 355       | 280        | <b>753 901 014</b> | 2  | 6  | 9.500  | 390       | 165       | 139        | 32,3      | 25,4       |
| 355       | 315        | <b>753 901 015</b> | 2  | 6  | 9.900  | 390       | 165       | 150        | 32,3      | 28,6       |
| 400       | 280        | <b>753 901 016</b> | 2  | 6  | 10.420 | 415       | 180       | 139        | 36,4      | 25,4       |
| 400       | 315        | <b>753 901 017</b> | 2  | 6  | 11.130 | 415       | 180       | 150        | 36,4      | 28,6       |
| 400       | 355        | <b>753 901 018</b> | 2  | 6  | 11.600 | 420       | 180       | 165        | 36,4      | 32,3       |

53 07 10

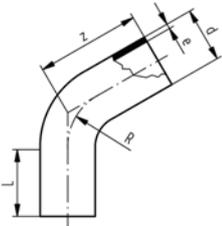
## Bend 60°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | <b>753 071 008</b> | 80 | -  | 0.070   | 128       | 80        | 48        | 2,9       |
| 40        | <b>753 071 009</b> | 50 | -  | 0.120   | 135       | 80        | 60        | 3,7       |
| 50        | <b>753 071 010</b> | 40 | -  | 0.240   | 158       | 100       | 75        | 4,6       |
| 63        | <b>753 071 011</b> | 25 | -  | 0.420   | 173       | 100       | 95        | 5,8       |
| 75        | <b>753 071 012</b> | 16 | -  | 0.600   | 182       | 100       | 113       | 6,8       |
| 90        | <b>753 071 013</b> | 12 | -  | 0.900   | 193       | 100       | 135       | 8,2       |
| 110       | <b>753 071 014</b> | 12 | -  | 1.780   | 270       | 150       | 165       | 10,0      |
| 125       | <b>753 071 015</b> | 9  | -  | 2.500   | 283       | 150       | 188       | 11,4      |
| 140       | <b>753 071 016</b> | 6  | -  | 2.700   | 296       | 150       | 210       | 12,7      |
| 160       | <b>753 071 017</b> | 4  | -  | 4.500   | 313       | 150       | 240       | 14,6      |
| 180       | <b>753 071 018</b> | 4  | -  | 4.900   | 330       | 150       | 270       | 16,4      |
| 200       | <b>753 071 019</b> | 2  | -  | 6.400   | 348       | 150       | 300       | 18,2      |
| 225       | <b>753 071 020</b> | -  | -  | 8.600   | 370       | 150       | 338       | 20,5      |
| 250       | <b>753 071 021</b> | -  | -  | 14.500  | 500       | 250       | 375       | 22,7      |
| 280       | <b>753 071 022</b> | -  | -  | 19.100  | 530       | 250       | 420       | 25,4      |
| 315       | <b>753 071 023</b> | -  | -  | 25.600  | 612       | 250       | 473       | 28,6      |
| 355       | <b>753 071 024</b> | -  | -  | 41.700  | 690       | 300       | 533       | 32,3      |
| 400       | <b>753 071 025</b> | -  | -  | 55.800  | 730       | 300       | 600       | 36,4      |
| 450       | <b>753 071 026</b> | -  | -  | 76.000  | 780       | 300       | 675       | 40,9      |
| 500       | <b>753 071 027</b> | -  | -  | 104.600 | 880       | 350       | 750       | 45,5      |
| 560       | <b>753 071 028</b> | -  | -  | 139.500 | 930       | 350       | 840       | 50,9      |
| 630       | <b>753 071 029</b> | -  | -  | 188.500 | 1000      | 350       | 945       | 57,3      |

53 07 08

**Bend 60°, PE100 SDR17/17,6**

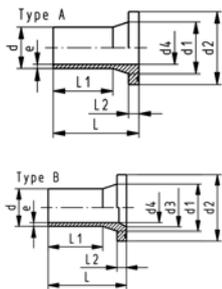
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 90        | <b>753 070 813</b> | 12 | -  | 0.600   | 193       | 100       | 135       | 5,4       |
| 110       | <b>753 070 814</b> | 12 | -  | 1.280   | 270       | 150       | 165       | 6,6       |
| 125       | <b>753 070 815</b> | 9  | -  | 1.300   | 283       | 150       | 187       | 7,4       |
| 140       | <b>753 070 816</b> | 6  | -  | 1.800   | 296       | 150       | 210       | 8,3       |
| 160       | <b>753 070 817</b> | 4  | -  | 3.160   | 313       | 150       | 240       | 9,5       |
| 180       | <b>753 070 818</b> | 4  | -  | 3.190   | 330       | 150       | 270       | 10,7      |
| 200       | <b>753 070 819</b> | 2  | -  | 4.200   | 348       | 150       | 300       | 11,9      |
| 225       | <b>753 070 820</b> | -  | -  | 5.600   | 370       | 150       | 337       | 13,4      |
| 250       | <b>753 070 821</b> | -  | -  | 9.250   | 500       | 250       | 375       | 14,8      |
| 280       | <b>753 070 822</b> | -  | -  | 15.000  | 530       | 250       | 420       | 16,6      |
| 315       | <b>753 070 823</b> | -  | -  | 19.500  | 612       | 250       | 472       | 18,7      |
| 355       | <b>753 070 824</b> | -  | -  | 30.100  | 690       | 300       | 532       | 21,1      |
| 400       | <b>753 070 825</b> | -  | -  | 38.200  | 730       | 300       | 600       | 23,7      |
| 450       | <b>753 070 826</b> | -  | -  | 53.700  | 780       | 300       | 675       | 26,7      |
| 500       | <b>753 070 827</b> | -  | -  | 73.900  | 880       | 350       | 750       | 29,7      |
| 560       | <b>753 070 828</b> | -  | -  | 98.200  | 930       | 350       | 840       | 33,2      |
| 630       | <b>753 070 829</b> | -  | -  | 132.300 | 1000      | 350       | 945       | 37,4      |

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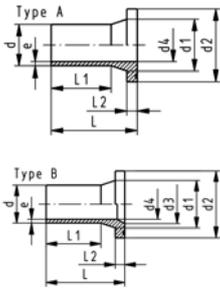
**Flange adaptor PE100 S5/SDR11  
Combined jointing face: flat and serrated****Model:**

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 10 bar Gas / 16 bar Water

**\* Type B with chamfer**

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 20        | 15         | IR | <b>753 800 006</b> | 50 | 50 | 0.022  |
| 25        | 20         | IR | <b>753 800 007</b> | 50 | -  | 0.034  |
| 32        | 25         | IR | <b>753 800 008</b> | 5  | 25 | 0.051  |
| 40        | 32         | IR | <b>753 800 009</b> | 2  | 60 | 0.076  |
| 50        | 40         | IR | <b>753 800 010</b> | 2  | 50 | 0.107  |
| 63        | 50         | IR | <b>753 800 011</b> | 1  | 70 | 0.174  |
| * 75      | 65         | IR | <b>753 800 012</b> | 1  | 30 | 0.300  |
| * 90      | 80         | IR | <b>753 800 013</b> | 1  | 24 | 0.440  |
| * 110     | 100        | IR | <b>753 800 014</b> | 1  | 16 | 0.685  |
| * 125     | 100        | IR | <b>753 800 015</b> | 1  | 16 | 0.836  |
| * 140     | 125        | IR | <b>753 800 016</b> | 1  | 6  | 1.295  |
| * 160     | 150        | IR | <b>753 800 017</b> | 1  | 6  | 1.644  |
| * 180     | 150        | IR | <b>753 800 018</b> | 1  | 6  | 1.873  |
| * 200     | 200        | IR | <b>753 800 019</b> | 1  | 4  | 2.758  |
| * 225     | 200        | IR | <b>753 800 020</b> | 1  | 4  | 2.972  |
| * 250     | 250        | -- | <b>753 800 021</b> | 1  | 6  | 4.535  |
| * 280     | 250        | -- | <b>753 800 022</b> | 1  | 5  | 4.925  |
| * 315     | 300        | -- | <b>753 800 023</b> | 1  | 2  | 6.393  |
| * 355     | 350        | -- | <b>753 800 024</b> | 1  | 2  | 10.400 |
| * 400     | 400        | -- | <b>753 800 025</b> | 1  | 1  | 14.600 |
| * 450     | 500        | -- | <b>753 800 026</b> | 1  | 1  | 24.800 |
| * 500     | 500        | -- | <b>753 800 027</b> | 1  | 1  | 27.400 |
| * 560     | 600        | -- | <b>753 800 028</b> | 1  | 1  | 38.000 |
| * 630     | 600        | -- | <b>753 800 029</b> | 1  | 1  | 42.300 |

table continued next page

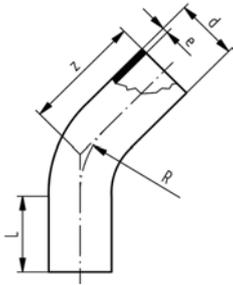


| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | 27         | 45         |            | 16         | 85        | 41         | 7          | 1.9       |
| 25        | 20         | 33         | 58         |            | 20         | 85        | 41         | 9          | 2.3       |
| 32        | 25         | 40         | 68         |            | 26         | 85        | 44         | 10         | 3.0       |
| 40        | 32         | 50         | 78         |            | 32         | 85        | 49         | 11         | 3.7       |
| 50        | 40         | 61         | 88         |            | 40         | 104       | 55         | 12         | 4.6       |
| 63        | 50         | 75         | 102        |            | 51         | 98        | 69         | 14         | 5.8       |
| * 75      | 65         | 89         | 122        | 66         | 61         | 125       | 89         | 16         | 6.8       |
| * 90      | 80         | 105        | 138        | 78         | 73         | 140       | 103        | 17         | 8.2       |
| * 110     | 100        | 125        | 158        | 100        | 90         | 160       | 114        | 18         | 10.0      |
| * 125     | 100        | 132        | 158        | 114        | 102        | 170       | 125        | 25         | 11.4      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 200       | 147        | 25         | 12.7      |
| * 160     | 150        | 175        | 212        | 151        | 130        | 200       | 147        | 25         | 14.6      |
| * 180     | 150        | 180        | 212        | 158        | 147        | 200       | 170        | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 200       | 128        | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 200       | 138        | 32         | 20.5      |
| * 250     | 250        | 285        | 320        | 245        | 204        | 219       | 138        | 35         | 22.7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 231       | 144        | 35         | 25.4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 239       | 158        | 35         | 28.6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 260       | 176        | 40         | 32.3      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 290       | 186        | 46         | 36.3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 333       | 195        | 60         | 40.9      |
| * 500     | 500        | 530        | 585        | 440        | 409        | 350       | 212        | 60         | 45.5      |
| * 560     | 600        | 615        | 685        | 490        | 458        | 365       | 230        | 60         | 50.9      |
| * 630     | 600        | 642        | 685        | 545        | 515        | 385       | 250        | 60         | 57.3      |

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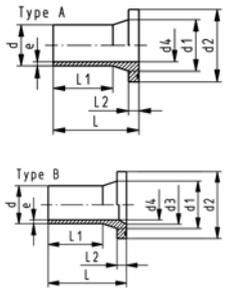
### Bend 45°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | <b>753 051 008</b> | 80 | -  | 0.077   | 120       | 80        | 48        | 2,9       |
| 40        | <b>753 051 009</b> | 50 | -  | 0.120   | 120       | 80        | 60        | 3,7       |
| 50        | <b>753 051 010</b> | 40 | -  | 0.240   | 149       | 100       | 75        | 4,6       |
| 63        | <b>753 051 011</b> | 25 | -  | 0.360   | 161       | 100       | 95        | 5,8       |
| 75        | <b>753 051 012</b> | 16 | -  | 0.560   | 168       | 100       | 113       | 6,8       |
| 90        | <b>753 051 013</b> | 15 | -  | 0.760   | 177       | 100       | 135       | 8,2       |
| 110       | <b>753 051 014</b> | 8  | -  | 1.700   | 243       | 150       | 165       | 10,0      |
| 125       | <b>753 051 015</b> | 15 | -  | 2.300   | 253       | 150       | 188       | 11,4      |
| 140       | <b>753 051 016</b> | 9  | -  | 2.800   | 262       | 150       | 210       | 12,7      |
| 160       | <b>753 051 017</b> | 6  | -  | 3.800   | 274       | 160       | 240       | 14,6      |
| 180       | <b>753 051 018</b> | 4  | -  | 5.140   | 287       | 150       | 270       | 16,4      |
| 200       | <b>753 051 019</b> | -  | -  | 5.600   | 299       | 150       | 300       | 18,2      |
| 225       | <b>753 051 020</b> | 1  | -  | 7.400   | 315       | 150       | 338       | 20,5      |
| 250       | <b>753 051 021</b> | -  | -  | 13.000  | 440       | 250       | 375       | 22,7      |
| 280       | <b>753 051 022</b> | -  | -  | 15.000  | 460       | 250       | 420       | 25,4      |
| 315       | <b>753 051 023</b> | -  | -  | 24.930  | 535       | 250       | 473       | 28,6      |
| 355       | <b>753 051 024</b> | -  | -  | 39.500  | 620       | 300       | 533       | 32,3      |
| 400       | <b>753 051 025</b> | -  | -  | 48.500  | 650       | 300       | 600       | 36,4      |
| 450       | <b>753 051 026</b> | -  | -  | 69.800  | 680       | 300       | 675       | 40,9      |
| 500       | <b>753 051 027</b> | -  | -  | 96.300  | 760       | 350       | 750       | 45,5      |
| 560       | <b>753 051 028</b> | -  | -  | 129.800 | 800       | 350       | 840       | 50,9      |
| 630       | <b>753 051 029</b> | -  | -  | 174.000 | 870       | 350       | 945       | 57,3      |

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## Flange Adaptor LS, PE100 SDR11 Combined Jointing Face: Flat and serrated

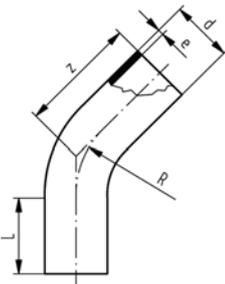
### Model:

- According to ISO 1855-2 (Gas)
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (**from d110 also to ANSI/ASME B16.5**)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | <b>753 800 031</b> | 50 | 50 | 0.060 | 27         | 45         |            | 16         | 85        | 41         | 7          | 3.0       |
| 25        | 20         | <b>753 800 032</b> | 5  | 30 | 0.034 | 33         | 58         |            | 20         | 85        | 41         | 9          | 3.0       |

53 05 08



## Bend 45°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | <b>753 050 813</b> | 15 | -  | 0.600  | 177       | 100       | 135       | 5,4       |
| 110       | <b>753 050 814</b> | 8  | -  | 1.100  | 243       | 150       | 165       | 6,6       |
| 125       | <b>753 050 815</b> | 15 | -  | 1.200  | 253       | 150       | 188       | 7,4       |
| 140       | <b>753 050 816</b> | 9  | -  | 1.720  | 262       | 150       | 210       | 8,3       |
| 160       | <b>753 050 817</b> | 6  | -  | 2.200  | 274       | 150       | 240       | 9,5       |
| 180       | <b>753 050 818</b> | 4  | -  | 3.000  | 287       | 150       | 270       | 10,7      |
| 200       | <b>753 050 819</b> | 4  | 4  | 3.700  | 299       | 150       | 300       | 11,9      |
| 225       | <b>753 050 820</b> | 1  | -  | 5.000  | 315       | 150       | 338       | 13,4      |
| 250       | <b>753 050 821</b> | -  | -  | 10.000 | 440       | 250       | 375       | 14,8      |
| 280       | <b>753 050 822</b> | -  | -  | 15.000 | 460       | 250       | 420       | 16,6      |
| 315       | <b>753 050 823</b> | -  | -  | 17.800 | 535       | 250       | 473       | 18,7      |
| 355       | <b>753 050 824</b> | -  | -  | 25.600 | 620       | 300       | 533       | 21,1      |
| 400       | <b>753 050 825</b> | 1  | 1  | 36.600 | 650       | 300       | 600       | 23,7      |
| 450       | <b>753 050 826</b> | -  | -  | 45.300 | 680       | 300       | 675       | 26,7      |
| 500       | <b>753 050 827</b> | -  | -  | 62.400 | 760       | 350       | 750       | 29,7      |
| 560       | <b>753 050 828</b> | -  | -  | 81.900 | 800       | 350       | 840       | 33,2      |
| 630       | <b>753 050 829</b> | -  | -  | 62.400 | 870       | 350       | 945       | 37,4      |

53 80 00

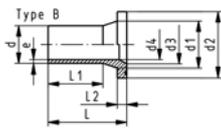
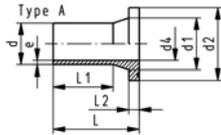
## Flange adaptor LS PE100 SDR11 Combined jointing face: flat and serrated

### Model:

- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to **ANSI/ASME B 16.5**
- Suitable for butterfly valve type 567, 568 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 25        | 20         | IR | <b>753 800 057</b> | 5  | 30 | 0.031 | 33         | 54         |            | 20         | 85        | 41         | 9          | 2.3       |
| 32        | 25         | IR | <b>753 800 058</b> | 5  | 25 | 0.046 | 40         | 63         |            | 26         | 85        | 44         | 10         | 3.0       |
| 40        | 32         | IR | <b>753 800 059</b> | 2  | 60 | 0.070 | 50         | 73         |            | 32         | 85        | 49         | 11         | 3.7       |
| 50        | 40         | IR | <b>753 800 060</b> | 5  | 10 | 0.098 | 61         | 82         |            | 40         | 85        | 55         | 12         | 4.6       |
| * 90      | 80         | IR | <b>753 800 063</b> | 1  | 12 | 0.423 | 105        | 133        |            | 73         | 140       | 85         | 17         | 8.2       |



53 05 08

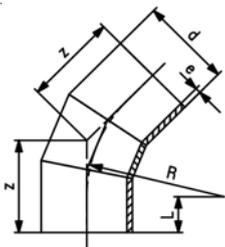
## Bend 45°, PE100 SDR17/17,6

### Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water



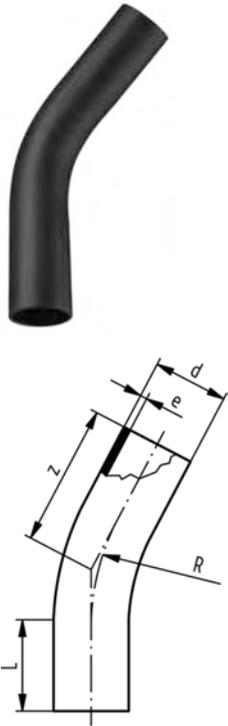
| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 710       | <b>753 003 001</b> | 1  | -  | 129.998 | 792       | 350       | 1065      | 42.1      |
| 800       | <b>753 003 002</b> | 1  | -  | 176.165 | 847       | 350       | 1200      | 47.4      |
| 900       | <b>753 003 003</b> | 1  | -  | 252.638 | 960       | 350       | 1350      | 53.3      |
| 1000      | <b>753 003 004</b> | 1  | -  | 332.107 | 1022      | 400       | 1500      | 59.3      |



53 06 10

## Bend 30°, PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | <b>753 061 008</b> | 80 | -  | 0.077   | 113       | 80        | 48        | 2.9       |
| 40        | <b>753 061 009</b> | 80 | -  | 0.120   | 116       | 80        | 60        | 3.7       |
| 50        | <b>753 061 010</b> | 80 | -  | 0.200   | 140       | 100       | 75        | 4.6       |
| 63        | <b>753 061 011</b> | 40 | -  | 0.400   | 150       | 100       | 95        | 5.8       |
| 75        | <b>753 061 012</b> | 25 | -  | 0.520   | 155       | 100       | 113       | 6.8       |
| 90        | <b>753 061 013</b> | 20 | -  | 0.760   | 160       | 100       | 135       | 8.2       |
| 110       | <b>753 061 014</b> | 9  | -  | 1.500   | 219       | 150       | 165       | 10.0      |
| 125       | <b>753 061 015</b> | 6  | -  | 2.000   | 225       | 150       | 188       | 11.4      |
| 140       | <b>753 061 016</b> | 5  | -  | 2.200   | 231       | 150       | 210       | 12.7      |
| 160       | <b>753 061 017</b> | 8  | -  | 3.300   | 239       | 150       | 240       | 14.6      |
| 180       | <b>753 061 018</b> | 6  | -  | 3.700   | 247       | 150       | 270       | 16.4      |
| 200       | <b>753 061 019</b> | 4  | -  | 4.750   | 255       | 150       | 300       | 18.2      |
| 225       | <b>753 061 020</b> | 2  | -  | 6.300   | 266       | 150       | 338       | 20.5      |
| 250       | <b>753 061 021</b> | -  | -  | 13.100  | 385       | 250       | 375       | 22.7      |
| 280       | <b>753 061 022</b> | -  | -  | 16.300  | 400       | 250       | 420       | 25.4      |
| 315       | <b>753 061 023</b> | -  | -  | 21.850  | 460       | 250       | 473       | 28.6      |
| 355       | <b>753 061 024</b> | -  | -  | 34.900  | 540       | 300       | 533       | 32.3      |
| 400       | <b>753 061 025</b> | -  | -  | 45.900  | 560       | 300       | 600       | 36.4      |
| 450       | <b>753 061 026</b> | -  | -  | 60.200  | 580       | 300       | 675       | 40.9      |
| 500       | <b>753 061 027</b> | -  | -  | 83.300  | 630       | 350       | 750       | 45.5      |
| 560       | <b>753 061 028</b> | -  | -  | 108.600 | 680       | 350       | 840       | 50.9      |
| 630       | <b>753 061 029</b> | -  | -  | 148.300 | 730       | 350       | 945       | 57.3      |

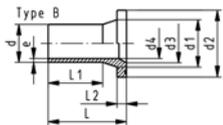
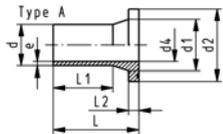
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## Flange adaptor PE100 SDR17/17.6 Combined jointing face: flat and serrated

Model:

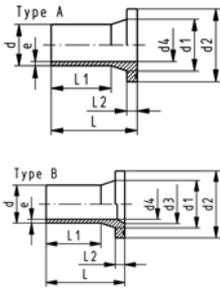
- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 5 bar Gas / 10 bar Water

\* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 50        | 40         | IR | <b>753 800 085</b> | 5  | 10 | 0.110  |
| 63        | 50         | IR | <b>753 800 086</b> | 2  | 32 | 0.143  |
| 75        | 65         | IR | <b>753 800 087</b> | 2  | 18 | 0.246  |
| 90        | 80         | IR | <b>753 800 088</b> | 1  | 24 | 0.351  |
| 110       | 100        | IR | <b>753 800 089</b> | 1  | 16 | 0.531  |
| * 125     | 100        | IR | <b>753 800 090</b> | 1  | 16 | 0.629  |
| * 140     | 125        | IR | <b>753 800 091</b> | 1  | 6  | 0.973  |
| * 160     | 150        | IR | <b>753 800 092</b> | 1  | 6  | 1.257  |
| 180       | 150        | IR | <b>753 800 093</b> | 1  | 6  | 1.364  |
| * 200     | 200        | IR | <b>753 800 094</b> | 1  | 4  | 2.212  |
| * 225     | 200        | IR | <b>753 800 095</b> | 1  | 4  | 2.233  |
| * 250     | 250        | -- | <b>753 800 096</b> | 1  | 6  | 3.595  |
| * 280     | 250        | -- | <b>753 800 097</b> | 1  | 5  | 3.355  |
| * 315     | 300        | -- | <b>753 800 098</b> | 1  | 2  | 5.320  |
| * 355     | 350        | -- | <b>753 800 099</b> | 2  | 2  | 16.200 |
| * 400     | 400        | -- | <b>753 800 100</b> | 1  | 1  | 10.300 |
| 450       | 500        | -- | <b>753 800 101</b> | 1  | 1  | 15.800 |
| 500       | 500        | -- | <b>753 800 102</b> | 1  | 1  | 19.100 |
| 560       | 600        | -- | <b>753 800 103</b> | 1  | 1  | 27.500 |
| 630       | 600        | -- | <b>753 800 104</b> | 1  | 1  | 30.000 |

table continued next page

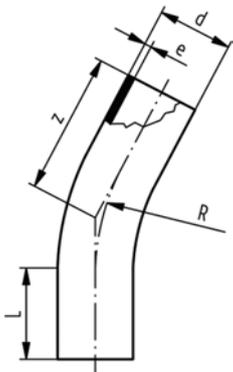


| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 50        | 61         | 88         |            | 44         | 104       | 55         | 12         | 3.0       |
| 63        | 75         | 102        |            | 55         | 120       | 65         | 14         | 3.8       |
| 75        | 89         | 122        |            | 66         | 130       | 75         | 16         | 4.5       |
| 90        | 105        | 138        |            | 79         | 140       | 103        | 17         | 5.4       |
| 110       | 125        | 158        |            | 96         | 160       | 117        | 18         | 6.6       |
| * 125     | 132        | 158        | 114        | 110        | 170       | 125        | 25         | 7.4       |
| * 140     | 155        | 188        | 127        | 123        | 200       | 147        | 25         | 8.3       |
| * 160     | 175        | 212        | 158        | 141        | 200       | 147        | 25         | 9.5       |
| 180       | 180        | 212        |            | 158        | 200       | 170        | 30         | 10.7      |
| * 200     | 232        | 268        | 203        | 176        | 200       | 128        | 32         | 11.9      |
| * 225     | 235        | 268        | 210        | 198        | 200       | 138        | 32         | 13.4      |
| * 250     | 285        | 320        | 245        | 220        | 220       | 148        | 25         | 14.8      |
| * 280     | 291        | 320        | 265        | 246        | 230       | 154        | 25         | 16.6      |
| * 315     | 335        | 370        | 300        | 277        | 242       | 166        | 36         | 18.7      |
| * 355     | 373        | 430        | 340        | 312        | 261       | 179        | 30         | 21.1      |
| * 400     | 427        | 483        | 385        | 352        | 290       | 196        | 33         | 23.7      |
| 450       | 514        | 585        |            | 396        | 333       | 195        | 60         | 26.7      |
| 500       | 530        | 585        |            | 440        | 350       | 212        | 60         | 29.7      |
| 560       | 615        | 685        |            | 493        | 365       | 230        | 60         | 33.2      |
| 630       | 642        | 685        |            | 555        | 385       | 250        | 60         | 37.4      |

53 06 08

### Bend 30°, PE100 SDR17

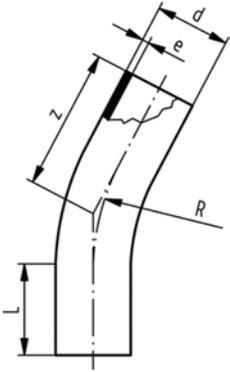
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe



| d<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | <b>753 060 813</b> | 20 | -  | 0.500  | 160       | 100       | 135       | 5,4       |
| 110       | <b>753 060 814</b> | 9  | -  | 1.060  | 219       | 150       | 165       | 6,6       |
| 125       | <b>753 060 815</b> | 6  | -  | 1.100  | 225       | 150       | 188       | 7,4       |
| 140       | <b>753 060 816</b> | 5  | -  | 1.720  | 231       | 150       | 210       | 8,3       |
| 160       | <b>753 060 817</b> | 8  | -  | 1.900  | 239       | 150       | 240       | 9,5       |
| 180       | <b>753 060 818</b> | 6  | -  | 2.500  | 247       | 150       | 270       | 10,7      |
| 200       | <b>753 060 819</b> | 4  | -  | 3.200  | 255       | 150       | 300       | 11,9      |
| 225       | <b>753 060 820</b> | 2  | -  | 7.540  | 266       | 150       | 338       | 13,4      |
| 250       | <b>753 060 821</b> | -  | -  | 11.600 | 385       | 250       | 375       | 14,8      |
| 280       | <b>753 060 822</b> | -  | -  | 12.800 | 400       | 250       | 420       | 16,6      |
| 315       | <b>753 060 823</b> | 1  | 1  | 25.000 | 460       | 250       | 473       | 18,7      |
| 355       | <b>753 060 824</b> | -  | -  | 22.700 | 540       | 300       | 533       | 21,1      |
| 400       | <b>753 060 825</b> | -  | -  | 29.800 | 560       | 300       | 600       | 23,7      |
| 450       | <b>753 060 826</b> | -  | -  | 39.100 | 580       | 300       | 675       | 26,7      |
| 500       | <b>753 060 827</b> | -  | -  | 54.000 | 650       | 350       | 750       | 29,7      |
| 560       | <b>753 060 828</b> | -  | -  | 70.300 | 680       | 350       | 840       | 33,2      |
| 630       | <b>753 060 829</b> | -  | -  | 95.800 | 730       | 350       | 945       | 37,4      |

## Bend 22°, PE100 SDR11

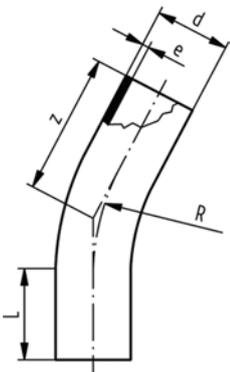
- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | 753 081 008 | 80 | -  | 0.077   | 113       | 80        | 48        | 2,9       |
| 40        | 753 081 009 | 80 | -  | 0.120   | 116       | 80        | 60        | 3,7       |
| 50        | 753 081 010 | 60 | -  | 0.200   | 140       | 100       | 75        | 4,6       |
| 63        | 753 081 011 | 40 | -  | 0.400   | 150       | 100       | 95        | 5,8       |
| 75        | 753 081 012 | 25 | -  | 0.520   | 155       | 100       | 113       | 6,8       |
| 90        | 753 081 013 | 20 | -  | 0.760   | 160       | 100       | 135       | 8,2       |
| 110       | 753 081 014 | 9  | -  | 1.500   | 219       | 150       | 165       | 10,0      |
| 125       | 753 081 015 | 6  | -  | 2.000   | 225       | 150       | 188       | 11,4      |
| 140       | 753 081 016 | 5  | -  | 2.200   | 231       | 150       | 210       | 12,7      |
| 160       | 753 081 017 | 8  | -  | 3.300   | 239       | 150       | 240       | 14,6      |
| 180       | 753 081 018 | 7  | -  | 3.700   | 247       | 150       | 270       | 16,4      |
| 200       | 753 081 019 | 4  | -  | 4.750   | 255       | 150       | 300       | 18,2      |
| 225       | 753 081 020 | 2  | 5  | 6.300   | 266       | 150       | 338       | 20,5      |
| 250       | 753 081 021 | -  | -  | 13.100  | 385       | 250       | 375       | 22,7      |
| 280       | 753 081 022 | -  | -  | 16.300  | 400       | 250       | 420       | 25,4      |
| 315       | 753 081 023 | -  | -  | 21.845  | 460       | 250       | 473       | 28,6      |
| 355       | 753 081 024 | -  | -  | 34.900  | 540       | 300       | 533       | 32,3      |
| 400       | 753 081 025 | -  | -  | 45.900  | 560       | 300       | 600       | 36,4      |
| 450       | 753 081 026 | -  | -  | 60.200  | 580       | 300       | 675       | 40,9      |
| 500       | 753 081 027 | -  | -  | 83.300  | 650       | 350       | 750       | 45,5      |
| 560       | 753 081 028 | -  | -  | 108.600 | 680       | 350       | 840       | 50,9      |
| 630       | 753 081 029 | -  | -  | 148.300 | 730       | 350       | 945       | 57,3      |

## Bend 22°, PE100 SDR17/17,6

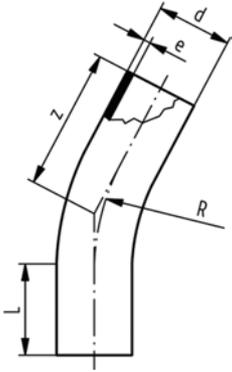
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | 753 080 813 | 20 | -  | 0.500  | 160       | 100       | 135       | 5.4       |
| 110       | 753 080 814 | 9  | -  | 1.060  | 219       | 150       | 165       | 6.6       |
| 125       | 753 080 815 | 6  | -  | 1.100  | 225       | 150       | 188       | 7.4       |
| 140       | 753 080 816 | 5  | -  | 1.720  | 231       | 150       | 210       | 8.3       |
| 160       | 753 080 817 | 8  | -  | 1.900  | 239       | 150       | 240       | 9.5       |
| 180       | 753 080 818 | 7  | -  | 2.500  | 247       | 150       | 270       | 10.7      |
| 200       | 753 080 819 | 4  | -  | 3.200  | 255       | 150       | 300       | 11.9      |
| 225       | 753 080 820 | 2  | -  | 7.540  | 266       | 150       | 338       | 13.4      |
| 250       | 753 080 821 | -  | -  | 11.600 | 385       | 250       | 375       | 14.8      |
| 280       | 753 080 822 | -  | -  | 12.800 | 400       | 250       | 420       | 16.6      |
| 315       | 753 080 823 | -  | -  | 25.000 | 460       | 250       | 473       | 18.7      |
| 355       | 753 080 824 | -  | -  | 22.700 | 540       | 300       | 533       | 21.1      |
| 400       | 753 080 825 | -  | -  | 29.800 | 560       | 300       | 600       | 23.7      |
| 450       | 753 080 826 | -  | -  | 39.100 | 580       | 300       | 675       | 26.7      |
| 500       | 753 080 827 | -  | -  | 54.000 | 650       | 350       | 750       | 29.7      |
| 560       | 753 080 828 | -  | -  | 70.300 | 680       | 350       | 840       | 33.2      |
| 630       | 753 080 829 | -  | -  | 95.800 | 730       | 350       | 945       | 37.4      |

## Bend 11°, PE100 SDR11

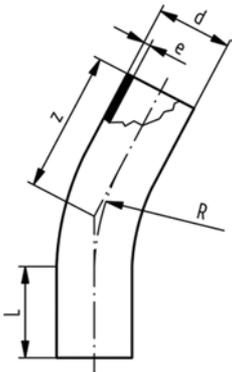
- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe



| d<br>[mm] | Code        | SP | GP | kg      | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|---------|-----------|-----------|-----------|-----------|
| 32        | 753 091 008 | 80 | -  | 0.077   | 113       | 80        | 48        | 2.9       |
| 40        | 753 091 009 | 80 | -  | 0.120   | 116       | 80        | 60        | 3.7       |
| 50        | 753 091 010 | 60 | -  | 0.200   | 140       | 100       | 75        | 4.6       |
| 63        | 753 091 011 | 40 | -  | 0.400   | 150       | 100       | 95        | 5.8       |
| 75        | 753 091 012 | 25 | -  | 0.520   | 155       | 100       | 113       | 6.8       |
| 90        | 753 091 013 | 20 | -  | 0.760   | 160       | 100       | 135       | 8.2       |
| 110       | 753 091 014 | 9  | -  | 1.500   | 219       | 150       | 165       | 10.0      |
| 125       | 753 091 015 | 6  | -  | 2.000   | 225       | 150       | 188       | 11.4      |
| 140       | 753 091 016 | 5  | -  | 2.200   | 231       | 150       | 210       | 12.7      |
| 160       | 753 091 017 | 8  | -  | 3.300   | 239       | 150       | 240       | 14.6      |
| 180       | 753 091 018 | 7  | -  | 3.700   | 247       | 150       | 270       | 16.4      |
| 200       | 753 091 019 | 4  | -  | 4.750   | 255       | 150       | 300       | 18.2      |
| 225       | 753 091 020 | 2  | -  | 6.300   | 266       | 150       | 338       | 20.5      |
| 250       | 753 091 021 | -  | -  | 13.100  | 385       | 250       | 375       | 22.7      |
| 280       | 753 091 022 | -  | -  | 16.300  | 400       | 250       | 420       | 25.4      |
| 315       | 753 091 023 | -  | -  | 21.845  | 460       | 250       | 473       | 28.6      |
| 355       | 753 091 024 | -  | -  | 34.900  | 540       | 300       | 533       | 32.3      |
| 400       | 753 091 025 | -  | -  | 45.900  | 560       | 300       | 600       | 36.4      |
| 450       | 753 091 026 | -  | -  | 60.200  | 580       | 300       | 675       | 40.9      |
| 500       | 753 091 027 | -  | -  | 83.300  | 650       | 350       | 750       | 45.5      |
| 560       | 753 091 028 | -  | -  | 108.600 | 680       | 350       | 840       | 50.9      |
| 630       | 753 091 029 | -  | -  | 148.300 | 730       | 350       | 945       | 57.3      |

## Bend 11°, PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

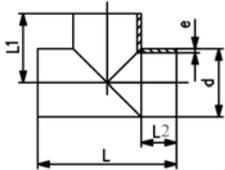


| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|-----------|
| 90        | 753 090 813 | 20 | -  | 0.500  | 160       | 100       | 135       | 5.4       |
| 110       | 753 090 814 | 9  | -  | 1.060  | 219       | 150       | 165       | 6.6       |
| 125       | 753 090 815 | 6  | -  | 1.100  | 225       | 150       | 188       | 7.4       |
| 140       | 753 090 816 | 5  | -  | 1.720  | 231       | 150       | 210       | 8.3       |
| 160       | 753 090 817 | 8  | -  | 1.900  | 239       | 150       | 240       | 9.5       |
| 180       | 753 090 818 | 7  | -  | 2.500  | 247       | 150       | 270       | 10.7      |
| 200       | 753 090 819 | 4  | -  | 3.200  | 255       | 150       | 300       | 11.9      |
| 225       | 753 090 820 | 2  | -  | 7.540  | 266       | 150       | 338       | 13.4      |
| 250       | 753 090 821 | -  | -  | 11.600 | 385       | 250       | 375       | 14.8      |
| 280       | 753 090 822 | -  | -  | 12.800 | 400       | 250       | 420       | 16.6      |
| 315       | 753 090 823 | -  | -  | 25.000 | 460       | 250       | 473       | 18.7      |
| 355       | 753 090 824 | -  | -  | 22.700 | 540       | 300       | 533       | 21.1      |
| 400       | 753 090 825 | -  | -  | 29.800 | 560       | 300       | 600       | 23.7      |
| 450       | 753 090 826 | -  | -  | 39.100 | 580       | 300       | 675       | 26.7      |
| 500       | 753 090 827 | -  | -  | 54.000 | 650       | 350       | 750       | 29.7      |
| 560       | 753 090 828 | -  | -  | 70.300 | 680       | 350       | 840       | 33.2      |
| 630       | 753 090 829 | -  | -  | 95.800 | 730       | 350       | 945       | 37.4      |

53 20 08

**Tee 90° equal, PE100 SDR17/17,6****Model:**

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Does not conform to pressure rating. Pressure reduction factor of 0.5
- 5 bar water

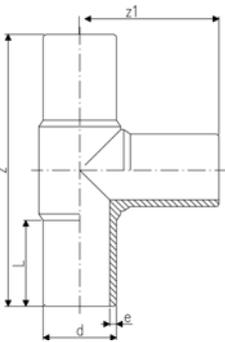


| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|-----------|-----------|
| 710       | <b>753 202 810</b> | 1  | -  | 158.180 | 1410      | 705        | 350       | 42.1      |
| 800       | <b>753 202 811</b> | 1  | -  | 210.302 | 1500      | 750        | 350       | 47.4      |
| 900       | <b>753 202 812</b> | 1  | -  | 302.118 | 1700      | 850        | 400       | 53.3      |
| 1000      | <b>753 202 813</b> | 1  | -  | 457.054 | 2040      | 1020       | 520       | 59.3      |

53 20 08

**Tee 90°, equal PE100 SDR17/17,6**

- Long spigot version
- 5 bar Gas / 10 bar Water
- \* Segment welded and reinforced
- \* With welded pipes
- \* No pressure reduction factor

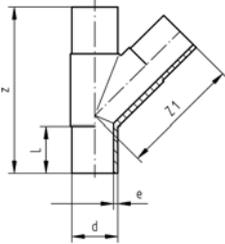


| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|------------|-----------|-----------|
| 90        | <b>753 200 813</b> | 1  | 7  | 0.780   | 300       | 150        | 80        | 5,4       |
| 110       | <b>753 200 814</b> | 1  | 7  | 1.440   | 330       | 165        | 86        | 6,6       |
| 125       | <b>753 200 815</b> | 1  | 4  | 1.646   | 366       | 183        | 92        | 7,4       |
| 140       | <b>753 200 816</b> | 1  | 4  | 2.120   | 396       | 196        | 92        | 8,3       |
| 160       | <b>753 200 817</b> | 1  | 4  | 3.970   | 428       | 214        | 104       | 9,5       |
| 180       | <b>753 200 818</b> | 1  | 3  | 5.450   | 460       | 230        | 105       | 10,7      |
| 200       | <b>753 200 819</b> | 1  | 2  | 5.910   | 500       | 250        | 115       | 11,9      |
| 225       | <b>753 200 820</b> | 1  | 1  | 8.240   | 540       | 270        | 122       | 13,4      |
| 250       | <b>753 200 821</b> | 2  | 2  | 10.793  | 575       | 288        | 130       | 14,8      |
| 280       | <b>753 200 802</b> | 1  | 2  | 13.810  | 615       | 308        | 139       | 16,6      |
| 315       | <b>753 200 803</b> | 1  | -  | 18.155  | 695       | 346        | 150       | 18,7      |
| 355       | <b>753 200 804</b> | -  | -  | 25.850  | 818       | 410        | 165       | 21,1      |
| 400       | <b>753 200 805</b> | -  | -  | 35.015  | 910       | 455        | 180       | 23,7      |
| 450       | <b>753 200 806</b> | -  | -  | 56.000  | 970       | 485        | 195       | 26,7      |
| 500       | <b>753 200 807</b> | -  | -  | 71.000  | 1060      | 530        | 215       | 29,7      |
| * 560     | <b>753 200 808</b> | -  | -  | 99.200  | 1510      | 755        | 230       | 33,2      |
| * 630     | <b>753 200 809</b> | -  | -  | 132.700 | 1630      | 815        | 250       | 37,4      |
| * 710     | <b>753 201 920</b> | 1  | 1  | 219.870 | 1720      | 860        | 450       | 42,1      |
| * 800     | <b>753 201 921</b> | 1  | 1  | 281.495 | 1780      | 890        | 450       | 47,4      |

53 25 10

**Tee 45° equal PE100 SDR17/17,6**

- 5 bar Gas / 10 bar Water

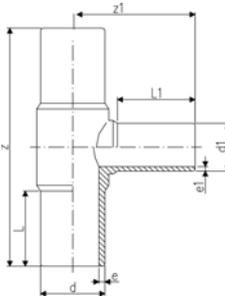


| d<br>[mm] | Code               | SP | GP | kg    | z<br>[mm] | z1<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|------------|-----------|-----------|
| 90        | <b>753 251 063</b> | 10 | -  | 0.800 | 368       | 234        | 79        | 5,4       |
| 110       | <b>753 251 064</b> | 6  | -  | 1.400 | 395       | 260        | 82        | 6,6       |

53 20 08

**Tee 90° reduced, moulded, PE100 SDR17/17,6**

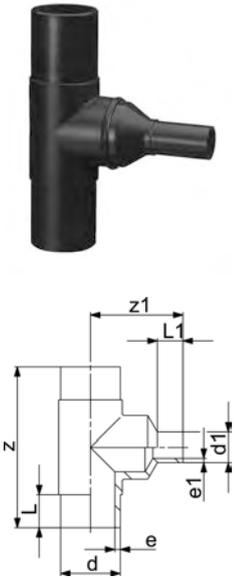
- Long spigot version
- 5 bar Gas / 10 bar Water



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|------------|
| 90        | 50         | <b>753 201 827</b> | 15 | 1  | 0.630  | 275       | 117        | 79        | 55         | 5.4       | 3.0        | 3.0        |
| 90        | 63         | <b>753 200 829</b> | 15 | -  | 0.560  | 275       | 123        | 79        | 63         | 5.4       | 3.8        | 3.8        |
| 90        | 75         | <b>753 200 830</b> | 6  | 6  | 0.593  | 272       | 139        | 74        | 71         | 5.4       | 4.5        | 4.5        |
| 110       | 63         | <b>753 200 828</b> | 10 | -  | 0.900  | 318       | 147        | 82        | 63         | 6.6       | 3.8        | 3.8        |
| 110       | 75         | <b>753 200 831</b> | 1  | 2  | 0.882  | 315       | 152        | 84        | 70         | 6.6       | 4.5        | 4.5        |
| 110       | 90         | <b>753 200 832</b> | 10 | -  | 0.941  | 318       | 158        | 82        | 79         | 6.6       | 5.4        | 5.4        |
| 125       | 110        | <b>753 200 833</b> | 1  | 1  | 1.282  | 334       | 168        | 84        | 83         | 7.4       | 6.6        | 6.6        |
| 160       | 63         | <b>753 200 834</b> | 8  | 8  | 1.950  | 330       | 130        | 86        | 63         | 9.5       | 3.8        | 3.8        |
| 160       | 75         | <b>753 200 835</b> | 2  | -  | 1.960  | 343       | 180        | 98        | 74         | 9.5       | 4.5        | 4.5        |
| 160       | 90         | <b>753 200 836</b> | 8  | -  | 1.972  | 410       | 188        | 98        | 79         | 9.5       | 5.4        | 5.4        |
| 160       | 110        | <b>753 200 837</b> | 8  | 8  | 2.414  | 410       | 195        | 98        | 82         | 9.5       | 6.6        | 6.6        |
| 180       | 90         | <b>753 200 844</b> | 1  | 1  | 3.218  | 422       | 204        | 134       | 97         | 10.7      | 5.4        | 5.4        |
| 180       | 160        | <b>753 200 838</b> | 1  | 1  | 5.890  | 411       | 205        | 105       | 94         | 10.7      | 9.5        | 9.5        |
| 200       | 63         | <b>753 201 873</b> | 1  | 1  | 6.800  | 500       | 190        | 122       | 63         | 11.9      | 3.8        | 3.8        |
| 200       | 90         | <b>753 201 874</b> | 1  | 1  | 6.900  | 500       | 207        | 122       | 79         | 11.9      | 5.4        | 5.4        |
| 200       | 110        | <b>753 201 875</b> | 1  | 1  | 7.200  | 500       | 215        | 122       | 82         | 11.9      | 6.6        | 6.6        |
| 200       | 160        | <b>753 201 876</b> | 1  | 1  | 7.400  | 500       | 234        | 122       | 98         | 11.9      | 9.5        | 9.5        |
| 225       | 75         | <b>753 200 839</b> | 3  | -  | 4.600  | 555       | 277        | 120       | 70         | 13.4      | 4.5        | 4.5        |
| 225       | 90         | <b>753 200 840</b> | 3  | -  | 4.732  | 555       | 226        | 127       | 80         | 13.4      | 5.4        | 5.4        |
| 225       | 110        | <b>753 200 841</b> | 3  | -  | 4.700  | 555       | 235        | 127       | 82         | 13.4      | 6.6        | 6.6        |
| 225       | 160        | <b>753 200 842</b> | 3  | -  | 5.922  | 555       | 253        | 127       | 98         | 13.4      | 9.5        | 9.5        |
| 225       | 180        | <b>753 200 843</b> | 3  | -  | 7.211  | 550       | 280        | 120       | 105        | 13.4      | 10.7       | 10.7       |
| 250       | 110        | <b>753 201 878</b> | 1  | 1  | 9.400  | 575       | 242        | 130       | 82         | 14.8      | 6.6        | 6.6        |
| 250       | 160        | <b>753 201 879</b> | 1  | 1  | 9.800  | 575       | 261        | 130       | 98         | 14.8      | 9.5        | 9.5        |
| 315       | 110        | <b>753 200 851</b> | 1  | 1  | 10.800 | 695       | 277        | 150       | 82         | 18.7      | 6.6        | 6.6        |
| 315       | 160        | <b>753 200 852</b> | 1  | -  | 12.200 | 695       | 296        | 150       | 102        | 18.7      | 9.5        | 9.5        |
| 315       | 225        | <b>753 200 853</b> | -  | -  | 14.500 | 650       | 335        | 170       | 145        | 18.7      | 13.4       | 13.4       |
| 315       | 250        | <b>753 200 854</b> | 1  | -  | 15.500 | 695       | 325        | 150       | 130        | 18.7      | 14.8       | 14.8       |

## Tee 90°, reduced with welded reducer PE100 SDR17/17,6

• 5 bar Gas / 10 bar Water



| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|-------------|----|----|--------|-----------|------------|-----------|------------|-----------|------------|
| 125       | 63         | 753 200 801 | 1  | 4  | 2.115  | 366       | 215        | 92        | 61         | 7.4       | 3.8        |
| 125       | 75         | 753 200 810 | 1  | 6  | 2.140  | 366       | 235        | 92        | 72         | 7.4       | 4.5        |
| 125       | 90         | 753 200 811 | 1  | 8  | 2.180  | 366       | 235        | 92        | 80         | 7.4       | 5.4        |
| 140       | 75         | 753 200 812 | 4  | 4  | 2.820  | 396       | 240        | 92        | 70         | 8.3       | 4.5        |
| 140       | 90         | 753 200 822 | 1  | 5  | 2.855  | 396       | 240        | 92        | 78         | 8.3       | 5.4        |
| 140       | 110        | 753 200 823 | 1  | 4  | 2.910  | 396       | 235        | 92        | 82         | 8.3       | 6.6        |
| 140       | 125        | 753 200 824 | 1  | 4  | 2.955  | 396       | 240        | 92        | 87         | 8.3       | 7.4        |
| 160       | 125        | 753 200 825 | 1  | 4  | 3.970  | 428       | 265        | 104       | 90         | 9.5       | 5.4        |
| 160       | 140        | 753 200 826 | 1  | 4  | 4.070  | 428       | 280        | 104       | 96         | 9.5       | 8.3        |
| 180       | 110        | 753 200 827 | 1  | 2  | 5.250  | 460       | 285        | 105       | 92         | 10.7      | 6.6        |
| 180       | 125        | 753 200 845 | 1  | 2  | 5.070  | 460       | 285        | 105       | 90         | 10.7      | 7.4        |
| 180       | 140        | 753 200 846 | 1  | 1  | 5.290  | 460       | 305        | 105       | 110        | 10.7      | 8.3        |
| 200       | 125        | 753 200 847 | 1  | 1  | 7.100  | 500       | 310        | 115       | 92         | 11.9      | 7.4        |
| 200       | 140        | 753 200 848 | 1  | 1  | 7.200  | 500       | 315        | 115       | 110        | 11.9      | 8.3        |
| 200       | 180        | 753 200 849 | -  | -  | 6.900  | 500       | 315        | 115       | 110        | 11.9      | 10.7       |
| 225       | 125        | 753 200 850 | 1  | 1  | 8.620  | 540       | 320        | 122       | 92         | 13.4      | 7.4        |
| 225       | 140        | 753 200 855 | 3  | -  | 8.780  | 540       | 345        | 122       | 110        | 13.4      | 8.3        |
| 225       | 200        | 753 200 856 | -  | -  | 9.300  | 540       | 335        | 122       | 115        | 13.4      | 11.9       |
| 250       | 180        | 753 200 857 | 1  | 1  | 15.000 | 576       | 340        | 130       | 105        | 14.8      | 10.7       |
| 250       | 200        | 753 200 858 | -  | -  | 15.440 | 576       | 350        | 130       | 112        | 14.8      | 11.9       |
| 250       | 225        | 753 200 859 | 1  | 1  | 15.620 | 576       | 370        | 130       | 120        | 14.8      | 13.4       |
| 280       | 200        | 753 200 860 | 1  | -  | 19.200 | 616       | 400        | 139       | 112        | 16.6      | 11.9       |
| 280       | 225        | 753 200 861 | -  | -  | 19.500 | 616       | 400        | 139       | 120        | 16.6      | 13.4       |
| 280       | 250        | 753 200 862 | -  | -  | 20.120 | 616       | 400        | 139       | 130        | 16.6      | 14.8       |
| 315       | 200        | 753 200 863 | -  | -  | 18.700 | 690       | 480        | 150       | 134        | 18.7      | 11.9       |
| 315       | 280        | 753 200 864 | -  | -  | 26.940 | 690       | 480        | 150       | 139        | 18.7      | 16.6       |
| 355       | 250        | 753 200 865 | -  | -  | 35.770 | 818       | 480        | 165       | 130        | 21.1      | 14.8       |
| 355       | 280        | 753 200 866 | -  | -  | 36.330 | 818       | 480        | 165       | 139        | 21.1      | 16.6       |
| 355       | 315        | 753 200 867 | -  | -  | 37.740 | 818       | 490        | 165       | 150        | 21.1      | 18.7       |
| 400       | 280        | 753 200 868 | -  | -  | 48.330 | 910       | 540        | 180       | 139        | 23.7      | 16.6       |
| 400       | 315        | 753 200 869 | 1  | 1  | 48.880 | 910       | 580        | 180       | 150        | 23.7      | 18.7       |
| 400       | 355        | 753 200 870 | -  | -  | 50.020 | 910       | 675        | 180       | 165        | 23.7      | 21.1       |

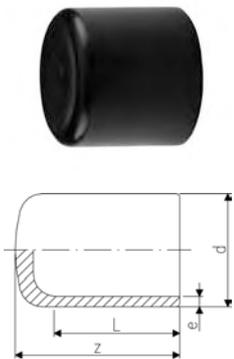
53 96 08

## Cap PE100 SDR17/17,6

• Long spigot version  
• 5 bar Gas / 10 bar Water

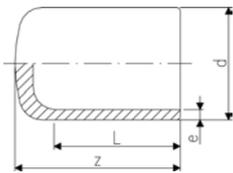
**Note:**

\* Fabricated fitting made from pipe



| d<br>[mm] | Code        | SP | GP | kg     | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------|-----------|-----------|-----------|
| 50        | 753 960 810 | 40 | 40 | 0.036  | 70        | 55        | 3,0       |
| 63        | 753 960 811 | 15 | -  | 0.066  | 82        | 63        | 3,8       |
| 75        | 753 960 812 | 5  | -  | 0.105  | 92        | 70        | 4,5       |
| 90        | 753 960 813 | 1  | 50 | 0.220  | 90        | 81        | 5,4       |
| 110       | 753 960 814 | 1  | 30 | 0.350  | 98        | 86        | 6,6       |
| 125       | 753 960 815 | 1  | 12 | 0.520  | 105       | 92        | 7,4       |
| 140       | 753 960 816 | 12 | 12 | 0.522  | 136       | 92        | 8,3       |
| 160       | 753 960 817 | 1  | 8  | 0.990  | 120       | 102       | 9,5       |
| 180       | 753 960 818 | 1  | 10 | 1.360  | 128       | 107       | 10,7      |
| 200       | 753 960 819 | 1  | 5  | 1.880  | 138       | 115       | 11,9      |
| 225       | 753 960 820 | 1  | 5  | 2.420  | 148       | 122       | 13,4      |
| 250       | 753 960 821 | 4  | -  | 2.547  | 205       | 130       | 14,8      |
| 280       | 753 960 822 | 2  | -  | 3.523  | 235       | 139       | 16,6      |
| 315       | 753 960 823 | 2  | -  | 4.758  | 255       | 150       | 18,7      |
| 355       | 753 960 824 | 2  | -  | 6.510  | 280       | 165       | 21,1      |
| 400       | 753 960 825 | 2  | 1  | 9.330  | 310       | 180       | 23,7      |
| * 450     | 753 960 826 | -  | -  | 15.800 | 265       | 195       | 26,7      |
| * 500     | 753 960 827 | -  | -  | 21.400 | 287       | 212       | 29,7      |
| * 560     | 753 960 828 | -  | -  | 29.400 | 310       | 230       | 33,2      |
| * 630     | 753 960 829 | -  | -  | 41.400 | 340       | 250       | 37,4      |

table continued next page

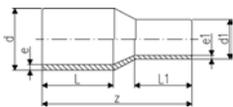


| d<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | e<br>[mm] |
|-----------|--------------------|----|----|---------|-----------|-----------|-----------|
| 710       | <b>753 960 830</b> | 1  | -  | 53.950  | 310       | 190       | 42,1      |
| 800       | <b>753 960 831</b> | 1  | -  | 73.281  | 320       | 190       | 47,4      |
| 900       | <b>753 960 832</b> | 1  | -  | 98.923  | 330       | 190       | 53,5      |
| 1000      | <b>753 960 833</b> | 1  | -  | 123.925 | 340       | 190       | 59,3      |

53 90 08

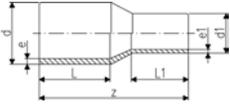
## Reducer PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water



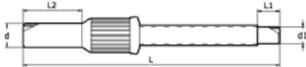
| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|--------|-----------|-----------|------------|-----------|------------|
| 90        | 63         | <b>753 900 872</b> | 40 | 40 | 0.216  | 182       | 79        | 70         | 5,4       | 3,8        |
| 90        | 75         | <b>753 900 870</b> | 40 | 40 | 0.202  | 185       | 79        | 70         | 5,4       | 4,5        |
| 110       | 63         | <b>753 900 877</b> | 30 | 30 | 0.326  | 185       | 82        | 63         | 6,6       | 3,8        |
| 110       | 90         | <b>753 900 876</b> | 16 | 22 | 0.650  | 205       | 85        | 80         | 6,6       | 5,4        |
| 125       | 63         | <b>753 900 882</b> | 10 | 10 | 0.610  | 200       | 87        | 63         | 7,4       | 3,8        |
| 125       | 90         | <b>753 900 881</b> | 9  | 9  | 0.700  | 215       | 90        | 80         | 7,4       | 5,4        |
| 125       | 110        | <b>753 900 880</b> | 9  | 9  | 0.810  | 215       | 90        | 85         | 7,4       | 6,6        |
| 140       | 75         | <b>753 900 886</b> | 14 | 14 | 0.560  | 230       | 112       | 70         | 8,3       | 4,5        |
| 140       | 90         | <b>753 900 887</b> | 14 | 14 | 0.610  | 230       | 112       | 79         | 8,3       | 5,4        |
| 140       | 110        | <b>753 900 884</b> | 12 | -  | 0.660  | 230       | 112       | 82         | 8,3       | 6,6        |
| 140       | 125        | <b>753 900 885</b> | 12 | 12 | 0.712  | 235       | 115       | 87         | 8,3       | 7,4        |
| 160       | 90         | <b>753 900 888</b> | 10 | -  | 0.752  | 248       | 120       | 85         | 9,5       | 5,4        |
| 160       | 110        | <b>753 900 890</b> | 10 | 10 | 0.930  | 245       | 100       | 85         | 9,5       | 6,6        |
| 160       | 125        | <b>753 900 889</b> | 10 | 8  | 1.380  | 245       | 100       | 90         | 9,5       | 7,4        |
| 160       | 140        | <b>753 900 831</b> | 10 | 10 | 1.380  | 260       | 120       | 110        | 9,5       | 8,3        |
| 180       | 90         | <b>753 900 873</b> | 8  | 8  | 1.010  | 237       | 105       | 79         | 10,7      | 5,4        |
| 180       | 110        | <b>753 900 874</b> | 8  | -  | 1.600  | 270       | 120       | 92         | 10,7      | 6,6        |
| 180       | 125        | <b>753 900 891</b> | 8  | 4  | 1.710  | 255       | 105       | 90         | 10,7      | 7,4        |
| 180       | 140        | <b>753 900 875</b> | 8  | 8  | 1.720  | 270       | 120       | 110        | 10,7      | 8,3        |
| 180       | 160        | <b>753 900 832</b> | 8  | 4  | 2.100  | 255       | 105       | 100        | 10,7      | 9,5        |
| 200       | 140        | <b>753 900 866</b> | 1  | 6  | 1.800  | 275       | 120       | 110        | 11,9      | 8,3        |
| 200       | 160        | <b>753 900 892</b> | 6  | 4  | 2.370  | 265       | 115       | 100        | 11,9      | 9,5        |
| 200       | 180        | <b>753 900 893</b> | 5  | 4  | 2.580  | 265       | 115       | 105        | 11,9      | 10,7       |
| 225       | 140        | <b>753 900 867</b> | 4  | 4  | 1.450  | 280       | 120       | 100        | 13,4      | 8,3        |
| 225       | 160        | <b>753 900 896</b> | 4  | 4  | 2.980  | 280       | 120       | 100        | 13,4      | 9,5        |
| 225       | 180        | <b>753 900 895</b> | 4  | 4  | 3.160  | 280       | 120       | 105        | 13,4      | 10,7       |
| 225       | 200        | <b>753 900 894</b> | 8  | 8  | 3.750  | 280       | 120       | 115        | 13,4      | 11,9       |
| 250       | 160        | <b>753 900 800</b> | 7  | -  | 2.850  | 290       | 130       | 100        | 14,8      | 9,5        |
| 250       | 180        | <b>753 900 868</b> | 6  | 6  | 3.100  | 295       | 130       | 105        | 14,8      | 10,7       |
| 250       | 200        | <b>753 900 801</b> | 6  | -  | 3.210  | 302       | 130       | 112        | 14,8      | 11,9       |
| 250       | 225        | <b>753 900 802</b> | 6  | 6  | 2.385  | 332       | 162       | 120        | 14,8      | 13,4       |
| 280       | 200        | <b>753 900 898</b> | 6  | 6  | 3.800  | 333       | 140       | 112        | 16,6      | 11,9       |
| 280       | 225        | <b>753 900 899</b> | 5  | 5  | 4.100  | 335       | 140       | 120        | 16,6      | 13,4       |
| 280       | 250        | <b>753 900 803</b> | 5  | -  | 2.385  | 340       | 140       | 130        | 16,6      | 14,8       |
| 315       | 200        | <b>753 900 804</b> | 2  | -  | 6.200  | 380       | 180       | 134        | 18,7      | 11,9       |
| 315       | 225        | <b>753 900 807</b> | 4  | -  | 6.200  | 365       | 150       | 120        | 18,7      | 13,4       |
| 315       | 250        | <b>753 900 805</b> | 4  | -  | 6.420  | 365       | 150       | 130        | 18,7      | 14,8       |
| 315       | 280        | <b>753 900 806</b> | 4  | -  | 5.940  | 365       | 150       | 140        | 18,7      | 16,6       |
| 355       | 250        | <b>753 900 808</b> | 1  | 6  | 5.270  | 390       | 165       | 130        | 21,1      | 14,8       |
| 355       | 280        | <b>753 900 809</b> | 2  | 6  | 5.830  | 390       | 165       | 140        | 21,1      | 16,6       |
| 355       | 315        | <b>753 900 810</b> | 2  | 6  | 7.240  | 390       | 165       | 150        | 21,1      | 18,7       |
| 400       | 280        | <b>753 900 811</b> | 2  | 1  | 7.930  | 415       | 180       | 140        | 23,7      | 16,6       |
| 400       | 315        | <b>753 900 812</b> | 2  | 6  | 8.480  | 415       | 180       | 150        | 23,7      | 18,7       |
| 400       | 355        | <b>753 900 813</b> | 2  | 3  | 9.620  | 420       | 180       | 165        | 23,7      | 21,1       |
| 450       | 280        | <b>753 900 814</b> | 2  | 3  | 11.500 | 389       | 195       | 140        | 26,7      | 16,6       |
| 450       | 315        | <b>753 900 815</b> | 2  | 3  | 11.600 | 390       | 195       | 150        | 26,7      | 18,7       |
| 450       | 355        | <b>753 900 816</b> | 2  | 3  | 11.900 | 393       | 195       | 164        | 26,7      | 21,1       |
| 450       | 400        | <b>753 900 817</b> | 2  | 3  | 12.700 | 395       | 195       | 179        | 26,7      | 23,7       |
| 500       | 315        | <b>753 900 818</b> | 2  | 3  | 15.500 | 422       | 212       | 150        | 29,7      | 18,7       |
| 500       | 355        | <b>753 900 819</b> | 2  | 3  | 15.700 | 424       | 212       | 164        | 29,7      | 21,1       |
| 500       | 400        | <b>753 900 820</b> | 1  | 3  | 16.200 | 426       | 212       | 179        | 29,7      | 23,7       |
| 500       | 450        | <b>753 900 821</b> | 2  | 3  | 17.000 | 428       | 212       | 195        | 29,7      | 26,7       |
| 560       | 355        | <b>753 900 822</b> | 1  | 3  | 21.400 | 459       | 230       | 164        | 33,2      | 21,1       |
| 560       | 400        | <b>753 900 823</b> | 1  | 3  | 21.700 | 461       | 230       | 179        | 33,2      | 23,7       |
| 560       | 450        | <b>753 900 824</b> | 1  | 3  | 22.300 | 463       | 230       | 195        | 33,2      | 26,7       |

table continued next page



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg      | z<br>[mm] | L<br>[mm] | L1<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|--------------------|----|----|---------|-----------|-----------|------------|-----------|------------|
| 560       | 500        | <b>753 900 825</b> | 1  | 3  | 23.200  | 466       | 230       | 212        | 33,2      | 29,7       |
| 630       | 400        | <b>753 900 826</b> | 1  | 3  | 29.700  | 502       | 250       | 179        | 37,4      | 23,7       |
| 630       | 450        | <b>753 900 827</b> | 1  | 3  | 30.100  | 503       | 250       | 195        | 37,4      | 26,7       |
| 630       | 500        | <b>753 900 828</b> | 1  | 3  | 30.800  | 506       | 250       | 212        | 37,4      | 29,7       |
| 630       | 560        | <b>753 900 829</b> | 1  | 3  | 31.900  | 506       | 250       | 230        | 37,4      | 33,3       |
| 710       | 500        | <b>753 900 833</b> | 1  | 1  | 58.796  | 790       | 300       | 300        | 42,1      | 29,7       |
| 710       | 560        | <b>753 900 834</b> | 1  | 1  | 60.578  | 770       | 300       | 300        | 42,1      | 33,2       |
| 710       | 630        | <b>753 900 835</b> | 1  | 1  | 62.448  | 740       | 300       | 300        | 42,1      | 37,4       |
| 800       | 560        | <b>753 900 836</b> | 1  | 1  | 75.842  | 800       | 300       | 300        | 47,4      | 33,2       |
| 800       | 630        | <b>753 900 837</b> | 1  | 1  | 78.255  | 780       | 300       | 300        | 47,4      | 37,4       |
| 800       | 710        | <b>753 900 838</b> | 1  | 1  | 80.504  | 750       | 300       | 300        | 47,4      | 42,1       |
| 900       | 630        | <b>753 900 839</b> | 1  | 1  | 99.282  | 820       | 300       | 300        | 53,3      | 37,4       |
| 900       | 710        | <b>753 900 840</b> | 1  | 1  | 100.908 | 790       | 300       | 300        | 53,3      | 42,1       |
| 900       | 800        | <b>753 900 841</b> | 1  | 1  | 103.578 | 760       | 300       | 300        | 53,3      | 47,4       |
| 1000      | 710        | <b>753 900 842</b> | 1  | 1  | 124.232 | 820       | 300       | 300        | 59,3      | 42,1       |
| 1000      | 800        | <b>753 900 843</b> | 1  | 1  | 125.277 | 780       | 300       | 300        | 59,3      | 47,4       |
| 1000      | 900        | <b>753 900 844</b> | 1  | 1  | 126.638 | 740       | 300       | 300        | 59,3      | 53,3       |

## Transition Fittings PE / steel



- PE 100 SDR 11 (ISO S5)
- 6 bar Gas / 16 bar Water
- Electrofusion weldable
- Steel pipe acc. to EN 10208-1, PE coated for corrosion resistance

\* Steel pipe without plastic shroud

| d<br>[mm] | Code               | kg     | d<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|--------------------|--------|-----------|-----------|------------|------------|
| * 20      | <b>775 641 502</b> | 0.500  | 20        | 427       | 35         | 41         |
| 25        | <b>775 641 507</b> | 0.640  | 25        | 462       | 35         | 41         |
| 32        | <b>775 641 510</b> | 0.940  | 32        | 462       | 35         | 44         |
| 40        | <b>775 641 514</b> | 1.200  | 40        | 470       | 35         | 49         |
| 50        | <b>775 641 518</b> | 1.440  | 50        | 475       | 35         | 55         |
| 63        | <b>775 641 524</b> | 1.930  | 63        | 480       | 35         | 63         |
| 75        | <b>775 641 632</b> | 2.800  | 75        | 545       | 35         | 70         |
| 90        | <b>775 641 636</b> | 3.700  | 90        | 562       | 45         | 79         |
| 110       | <b>775 641 640</b> | 3.800  | 110       | 580       | 45         | 82         |
| 110       | <b>775 641 641</b> | 6.600  | 110       | 580       | 45         | 82         |
| 125       | <b>775 641 645</b> | 6.700  | 125       | 584       | 45         | 87         |
| 160       | <b>775 641 655</b> | 11.300 | 160       | 607       | 45         | 98         |
| 180       | <b>775 641 659</b> | 11.800 | 180       | 605       | 45         | 105        |
| 200       | <b>775 642 664</b> | 19.100 | 200       | 615       | 45         | 112        |
| 225       | <b>775 642 669</b> | 19.500 | 225       | 620       | 45         | 120        |
| 250       | <b>775 642 665</b> | 20.500 | 250       | 640       | 45         | 129        |
| 250       | <b>775 642 666</b> | 30.000 | 250       | 645       | 45         | 129        |
| 280       | <b>775 642 673</b> | 31.000 | 280       | 637       | 45         | 139        |
| 315       | <b>775 642 672</b> | 47.000 | 315       | 730       | 45         | 150        |
| 355       | <b>775 642 675</b> | 49.000 | 355       | 732       | 45         | 164        |
| 400       | <b>775 642 678</b> | 94.000 | 400       | 770       | 45         | 179        |

## Transition Fitting PE / Steel (VG D)

- PE 100 SDR 11 (ISO S5) gas PN 4
- Other pipe series (PN) on request

| DN<br>[mm] | d<br>[mm] | Code               | SP | kg     |
|------------|-----------|--------------------|----|--------|
| 100        | 125       | <b>700 624 025</b> | -  | 5.500  |
| 100        | 125       | <b>700 624 026</b> | -  | 5.500  |
| 150        | 160       | <b>700 624 027</b> | -  | 8.600  |
| 150        | 160       | <b>700 624 028</b> | -  | 8.600  |
| 150        | 154       | <b>700 624 029</b> | -  | 8.600  |
| 150        | 154       | <b>700 624 030</b> | -  | 8.586  |
| 200        | 200       | <b>700 624 031</b> | -  | 9.500  |
| 200        | 225       | <b>700 624 032</b> | -  | 11.000 |

table continued next page

| DN<br>[mm] | d1 St<br>[mm] | s St<br>[mm] | I1 St<br>[mm] | I2 St<br>[mm] | I PE<br>[mm] | s1 PE<br>[mm] | s1<br>[mm] | L<br>[mm] | D<br>[mm] |
|------------|---------------|--------------|---------------|---------------|--------------|---------------|------------|-----------|-----------|
| 100        | 108           | 5            | 100           | 150           | 117          | 11            | 11         | 458       | 154       |
| 100        | 114           | 5            | 100           | 150           | 117          | 11            | 11         | 458       | 154       |
| 150        | 159           | 5            | 100           | 150           | 147          | 15            | 15         | 458       | 227       |
| 150        | 168           | 5            | 100           | 150           | 147          | 15            | 15         | 503       | 227       |
| 150        | 159           | 5            | 100           | 150           | 147          | 16            | 16         | 503       | 227       |
| 150        | 168           | 5            | 100           | 150           | 147          | 16            | 16         | 503       | 227       |
| 200        | 219           | 5            | 100           | 150           | 185          | 18            | 18         | 541       | 290       |
| 200        | 219           | 5            | 100           | 150           | 185          | 21            | 21         | 290       | 290       |

538000

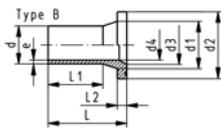
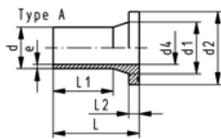
## Flange Adaptor LS, PE100 SDR11 Combined Jointing Face: Flat and serrated

### Model:

- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|--------------------|----|----|--------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | <b>753 800 031</b> | 50 | 50 | 0.060  | 27         | 45         |            | 16         | 85        | 41         | 7          | 3.0       |
| 25        | 20         | <b>753 800 032</b> | 5  | 30 | 0.034  | 33         | 58         |            | 20         | 85        | 41         | 9          | 3.0       |
| 32        | 25         | <b>753 800 008</b> | 5  | 25 | 0.051  | 40         | 68         |            | 26         | 85        | 44         | 10         | 3.0       |
| 40        | 32         | <b>753 800 009</b> | 2  | 60 | 0.076  | 50         | 78         |            | 32         | 85        | 49         | 11         | 3.7       |
| 50        | 40         | <b>753 800 010</b> | 2  | 50 | 0.107  | 61         | 88         |            | 40         | 104       | 55         | 12         | 4.6       |
| 63        | 50         | <b>753 800 011</b> | 1  | 70 | 0.174  | 75         | 102        |            | 51         | 98        | 69         | 14         | 5.8       |
| * 75      | 65         | <b>753 800 012</b> | 1  | 30 | 0.300  | 89         | 122        | 66         | 61         | 125       | 89         | 16         | 6.8       |
| * 90      | 80         | <b>753 800 013</b> | 1  | 24 | 0.440  | 105        | 138        | 78         | 73         | 140       | 103        | 17         | 8.2       |
| * 110     | 100        | <b>753 800 014</b> | 1  | 16 | 0.685  | 125        | 158        | 100        | 90         | 160       | 114        | 18         | 10.0      |
| * 125     | 100        | <b>753 800 015</b> | 1  | 16 | 0.836  | 132        | 158        | 114        | 102        | 170       | 125        | 25         | 11.4      |
| * 140     | 125        | <b>753 800 016</b> | 1  | 6  | 1.295  | 155        | 188        | 127        | 114        | 200       | 147        | 25         | 12.7      |
| * 160     | 150        | <b>753 800 017</b> | 1  | 6  | 1.644  | 175        | 212        | 151        | 130        | 200       | 147        | 25         | 14.6      |
| * 180     | 150        | <b>753 800 018</b> | 1  | 6  | 1.873  | 180        | 212        | 158        | 147        | 200       | 170        | 30         | 16.4      |
| * 200     | 200        | <b>753 800 019</b> | 1  | 4  | 2.758  | 232        | 268        | 203        | 163        | 200       | 128        | 32         | 18.2      |
| * 225     | 200        | <b>753 800 020</b> | 1  | 4  | 2.972  | 235        | 268        | 210        | 184        | 200       | 138        | 32         | 20.5      |
| * 250     | 250        | <b>753 800 021</b> | 1  | 6  | 4.535  | 285        | 320        | 245        | 204        | 219       | 138        | 35         | 22.7      |
| * 280     | 250        | <b>753 800 022</b> | 1  | 5  | 4.925  | 291        | 320        | 265        | 229        | 231       | 144        | 35         | 25.4      |
| * 315     | 300        | <b>753 800 023</b> | 1  | 2  | 6.393  | 335        | 370        | 300        | 257        | 239       | 158        | 35         | 28.6      |
| * 355     | 350        | <b>753 800 024</b> | 1  | 2  | 10.400 | 373        | 430        | 340        | 290        | 260       | 176        | 40         | 32.3      |
| * 400     | 400        | <b>753 800 025</b> | 1  | 1  | 14.600 | 427        | 482        | 385        | 327        | 290       | 186        | 46         | 36.3      |
| * 450     | 500        | <b>753 800 026</b> | 1  | 1  | 24.800 | 514        | 585        | 400        | 368        | 333       | 195        | 60         | 40.9      |
| * 500     | 500        | <b>753 800 027</b> | 1  | 1  | 27.400 | 530        | 585        | 440        | 409        | 350       | 212        | 60         | 45.5      |
| * 560     | 600        | <b>753 800 028</b> | 1  | 1  | 38.000 | 615        | 685        | 490        | 458        | 365       | 230        | 60         | 50.9      |
| * 630     | 600        | <b>753 800 029</b> | 1  | 1  | 42.300 | 642        | 685        | 545        | 515        | 385       | 250        | 60         | 57.3      |



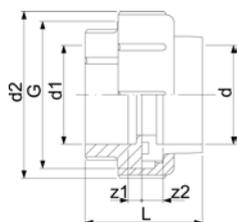
# Unions for socket fusion

33 58 01

## Adapter union PE80 - PE80 metric

### Model:

- Union Ends: Fusion sockets, PE80 metric
- Union Bush: Brass
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



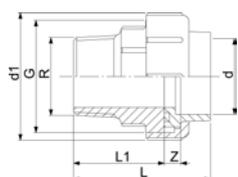
| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | G<br>[inch] | L<br>[mm] | z1<br>[mm] | D2<br>[mm] | d2<br>[mm] | z2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-------------|-----------|------------|------------|------------|------------|
| 20        | 20         | 10 | <b>733 580 106</b> | 10 | 70 | 0.163 | 1 1/4       | 46        | 6          | 46         | 46         | 3          |
| 25        | 25         | 10 | <b>733 580 107</b> | 5  | 50 | 0.214 | 1 1/2       | 49        | 6          | 52         | 52         | 3          |
| 32        | 32         | 10 | <b>733 580 108</b> | 2  | 36 | 0.294 | 2           | 51        | 6          | 64         | 64         | 3          |
| 40        | 40         | 10 | <b>733 580 109</b> | 1  | 24 | 0.473 | 2 1/2       | 56        | 8          | 79         | 79         | 3          |
| 50        | 50         | 10 | <b>733 580 110</b> | 1  | 14 | 0.491 | 2 2/3       | 61        | 8          | 85         | 85         | 3          |
| 63        | 63         | 10 | <b>733 580 111</b> | 1  | 8  | 0.730 | 3 1/2       | 69        | 8          | 104        | 104        | 3          |

33 58 07

## Adaptor union PE80 - brass metric R

### Model:

- Union Ends: Fusion sockets, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



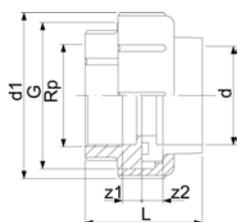
| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP | kg    | d1<br>[mm] | G<br>[inch] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|-------------|----|--------------------|----|----|-------|------------|-------------|-----------|------------|-----------|
| 20        | 1/2         | 10 | <b>733 580 706</b> | 10 | 60 | 0.260 | 46         | 1 1/4       | 62        | 40         | 6         |
| 25        | 3/4         | 10 | <b>733 580 707</b> | 5  | 40 | 0.324 | 52         | 1 1/2       | 65        | 41         | 6         |
| 32        | 1           | 10 | <b>733 580 708</b> | 2  | 30 | 0.470 | 64         | 2           | 71        | 45         | 6         |
| 40        | 1 1/4       | 10 | <b>733 580 709</b> | 2  | 16 | 0.754 | 79         | 2 1/2       | 78        | 48         | 8         |
| 50        | 1 1/2       | 10 | <b>733 580 710</b> | 2  | 12 | 0.781 | 85         | 2 3/4       | 81        | 43         | 8         |
| 63        | 2           | 10 | <b>733 580 711</b> | 1  | 8  | 1.166 | 104        | 3 1/2       | 91        | 54         | 8         |

33 58 02

## Adaptor unions, PE80 - brass metrisch - Rp

### Model:

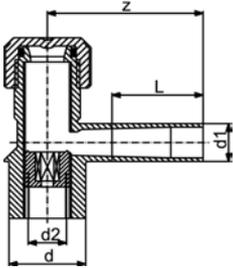
- Union Ends: Fusion sockets, PE80 metric
- Union bush: nickel-plated, parallel female thread Rp
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | G<br>[inch] | L<br>[mm] | d1<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-------------|-----------|------------|------------|------------|
| 20        | 1/2          | 10 | <b>733 580 206</b> | 10 | 50 | 0.209 | 1 1/4       | 46        | 46         | 6          | 10         |
| 25        | 3/4          | 10 | <b>733 580 207</b> | 5  | 50 | 0.269 | 1 1/2       | 48        | 52         | 6          | 9          |
| 32        | 1            | 10 | <b>733 580 208</b> | 2  | 34 | 0.371 | 2           | 51        | 64         | 6          | 8          |
| 40        | 1 1/4        | 10 | <b>733 580 209</b> | 2  | 18 | 0.596 | 2 1/2       | 56        | 79         | 8          | 7          |
| 50        | 1 1/2        | 10 | <b>733 580 210</b> | 2  | 14 | 0.666 | 2 3/4       | 59        | 85         | 8          | 7          |
| 63        | 2            | 10 | <b>733 580 211</b> | 1  | 9  | 0.960 | 3 1/2       | 65        | 104        | 8          | 5          |

# Transition Adaptors

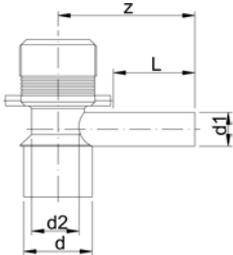
## Tapping Tee



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Long fusion outlet
- O-ring-sealed screw cap
- For ELGEF Plus Branch Saddle (53 131 000) d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle (53 131 000) d75-315mm, pipe SDR 17
- \*For ELGEF Plus Branch Saddle (53 131 000) d250-315mm, pipe SDR 11 and d250-400mm, pipe SDR 17
- \*\*For ELGEF Plus Branch Saddle (53 131 000) d110 - 225mm, pipe SDR11 and d110 - 315mm, pipe SDR17

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | d2<br>[mm] | L<br>[mm] | z<br>[mm] | SW<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|-----------|------------|
| 63        | 20         | <b>193 280 358</b> | 1  | 15 | 0.384 | 32         | 69        | 130       | 17         |
| 63        | 25         | <b>193 280 359</b> | 1  | 15 | 0.383 | 32         | 70        | 130       | 17         |
| 63        | 32         | <b>193 280 184</b> | 1  | 12 | 0.383 | 32         | 76        | 130       | 17         |
| 63        | 40         | <b>193 280 360</b> | 1  | 12 | 0.401 | 32         | 81        | 137       | 17         |
| 63        | 63         | <b>193 280 185</b> | 1  | 12 | 1.120 | 32         | 100       | 160       | 17         |
| * 63      | 63         | <b>193 280 711</b> | 1  | 12 | 1.120 | 35         | 100       | 160       | 17         |
| ** 63     | 63         | <b>193 280 290</b> | 1  | 12 | 1.100 | 41         | 100       | 160       | 17         |

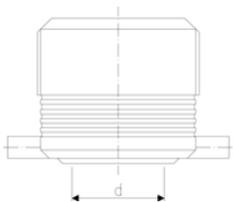
## Tapping Tee with Electrofusion Cap



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- For ELGEF Plus Branch Saddle (53 131 000) d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle (53 131 000) d75-315mm, pipe SDR 17
- Long fusion outlet

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | D2<br>[mm] | d2<br>[mm] | L<br>[mm] | z<br>[mm] | SW<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|------------|-----------|-----------|------------|
| 63        | 32         | <b>193 280 300</b> | 1  | 20 | 0.430 | 32         | 32         | 76        | 130       | 17         |
| 63        | 63         | <b>193 280 301</b> | 1  | 5  | 1.200 | 32         | 32         | 100       | 160       | 17         |

## Electrofusion Cap



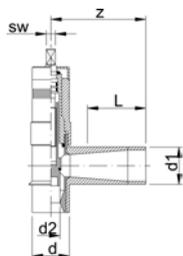
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Tapping Saddles
- 193 280 153 suits for all Tapping Saddles Type Monobloc d63 mm and all Tapping Tees with outlet d20, d25, d32, d40 mm
- 193 280 154 is suitable for all Tapping Tees with d63 mm outlet

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 55        | <b>193 280 153</b> | 1  | 10 | 0.125 |
| 68        | <b>193 280 154</b> | 1  | 10 | 0.207 |

## Tapping Valve Tee



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- For ELGEF Plus Branch Saddle (53 131 000) d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle (53 131 000) d75 - 315mm, pipe SDR 17 and d250 - 400mm, pipe SDR 26
- Spindle size (SW) 14
- Long fusion outlet

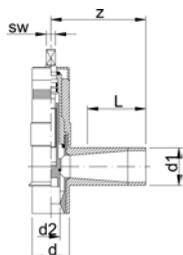


| d [mm] | d1 [mm] | Code               | SP | GP | kg    | d2 [mm] | L [mm] | z [mm] | Description |
|--------|---------|--------------------|----|----|-------|---------|--------|--------|-------------|
| 63     | 32      | <b>193 281 558</b> | 1  | 5  | 1.430 | 21      | 70     | 127    | System P    |
| 63     | 63      | <b>193 280 680</b> | 1  | 5  | 2.600 | 30      | 100    | 160    | System P    |
| 63     | 32      | <b>193 281 250</b> | 1  | 5  | 1.405 | 27      | 70     | 127    | System C    |
| 63     | 63      | <b>193 280 410</b> | 1  | 5  | 2.405 | 33      | 100    | 160    | System C    |

## Tapping Valve Tee



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF Plus Branch Saddle (753 131 000) d63-250, pipe SDR11
- For ELGEF Plus Branch Saddle (53 131 000) d75 - 315mm, pipe SDR 17 and d250 - 400mm, pipe SDR 26
- Spindle size (SW) 14
- Long fusion outlet

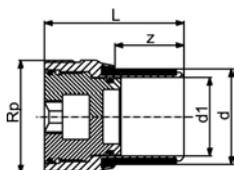


| d [mm] | d1 [mm] | Code               | SP | GP | kg    | d2 [mm] | L [mm] | z [mm] |
|--------|---------|--------------------|----|----|-------|---------|--------|--------|
| 63     | 32      | <b>193 281 605</b> | 1  | 5  | 1.430 | 21      | 70     | 127    |
| 63     | 63      | <b>193 281 606</b> | 1  | 5  | 2.600 | 31      | 100    | 160    |

## Stop-Off Adaptor with brass plug

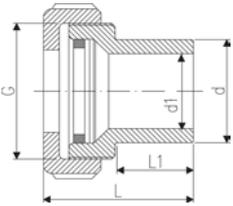


- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF Plus Branch Saddle (753 131 000) d63 - 400mm, pipe SDR 11
- For main dimension d63 and d75mm we recommend a maximum cutting diameter of d = 39mm



| d [mm] | Rp [inch] | Code               | SP | GP | kg    | d1 [mm] | L [mm] | z [mm] | SW [mm] |
|--------|-----------|--------------------|----|----|-------|---------|--------|--------|---------|
| 63     | 2 ½       | <b>193 280 274</b> | 1  | 6  | 1.489 | 50      | 93     | 46     | 19      |
| 63     | 2 ½       | <b>193 280 294</b> | 1  | 6  | 1.462 | 56      | 93     | 46     | 19      |

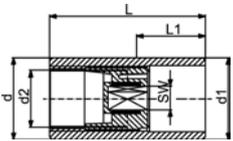
## Stop-Off Adaptor PE



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF Plus Branch Saddle (753 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- PE Stop-Off insert d 63
- Plug with rubber seal
- PVP nut
- For main dimension d63 and d75mm we recommend a maximum cutting diameter of d = 39mm

| d<br>[mm] | G<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|-------------|-------------|----|----|-------|------------|-----------|-----------|
| 63        | 2 3/4       | 193 280 279 | 1  | 10 | 0.300 | 51         | 87        | 45        |

## Spigot with Cutter

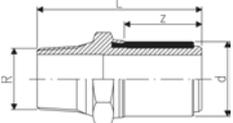


- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF Plus Branch Saddle (53 131 000) d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle (53 131 000) d75 - 315mm, pipe SDR 17 and d250 - 400mm, pipe SDR 26

| d<br>[mm] | d1<br>[mm] | Code        | SP | GP | kg    | d2<br>[mm] | L<br>[mm] | L1<br>[mm] | SW<br>[mm] |
|-----------|------------|-------------|----|----|-------|------------|-----------|------------|------------|
| 63        | 32         | 193 280 272 | 1  | 20 | 0.200 | 19         | 113       | 50         | 13         |
| 63        | 63         | 193 280 273 | 1  | 12 | 0.701 | 32         | 120       | 50         | 17         |

20 92 07

## Transition Adaptor PE/brass (Ms 58) Male thread



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

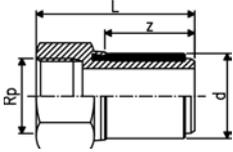
| d<br>[mm] | R<br>[inch] | Code        | kg    | L<br>[mm] | z<br>[mm] |
|-----------|-------------|-------------|-------|-----------|-----------|
| 20        | 1/2         | 720 920 706 | 0.151 | 75        | 33        |
| 25        | 3/4         | 720 920 707 | 0.195 | 76        | 33        |
| 32        | 1           | 720 920 708 | 0.273 | 80        | 35        |
| 32        | 1 1/4       | 720 920 718 | 0.389 | 82        | 35        |
| 32        | 1 1/2       | 720 920 728 | 0.454 | 82        | 35        |
| 40        | 1           | 720 920 719 | 0.370 | 84        | 39        |
| 40        | 1 1/4       | 720 920 709 | 0.425 | 86        | 39        |
| 40        | 1 1/2       | 720 920 729 | 0.490 | 86        | 39        |
| 50        | 1           | 720 920 720 | 0.479 | 88        | 43        |
| 50        | 1 1/4       | 720 920 730 | 0.546 | 90        | 43        |
| 50        | 1 1/2       | 720 920 710 | 0.528 | 90        | 43        |
| 63        | 1 1/4       | 720 920 721 | 0.702 | 94        | 47        |
| 63        | 1 1/2       | 720 920 731 | 0.698 | 94        | 47        |
| 63        | 2           | 720 920 711 | 0.792 | 98        | 47        |

20 92 02

## Transition Adaptor PE/brass (Ms 58) Female thread



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings



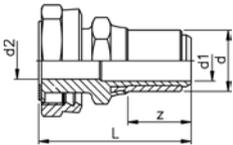
| d<br>[mm] | Rp<br>[inch] | Code        | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------|-------------|-------|-----------|-----------|
| 32        | 1            | 720 920 208 | 0.250 | 71        | 35        |
| 40        | 1 ¼          | 720 920 209 | 0.397 | 77        | 39        |
| 50        | 1 ½          | 720 920 210 | 0.589 | 81        | 43        |
| 63        | 1            | 720 920 221 | 1.071 | 89        | 47        |
| 63        | 1 ¼          | 720 920 231 | 1.027 | 89        | 47        |
| 63        | 1 ½          | 720 920 241 | 0.950 | 89        | 47        |
| 63        | 2            | 720 920 211 | 0.800 | 89        | 47        |

20 92 00

## Transition Adaptor PE/brass Loose nut (Ms 58)



- PE 100 SDR 11 (ISO S5)
- For ELGEF® Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)



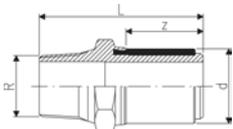
| d<br>[mm] | Rp<br>[inch] | Code        | kg    | d2<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|-------------|-------|------------|-----------|-----------|
| 25        | ¾            | 720 920 007 | 0.165 | 15         | 68        | 32        |
| 25        | 1            | 720 920 017 | 0.240 | 16         | 70        | 32        |
| 32        | 1            | 720 920 008 | 0.255 | 20         | 72        | 34        |
| 32        | 1 ¼          | 720 920 018 | 0.374 | 22         | 76        | 34        |
| 32        | 1 ½          | 720 920 028 | 0.393 | 22         | 76        | 34        |
| 40        | 1            | 720 920 009 | 0.349 | 21         | 77        | 38        |
| 40        | 1 ¼          | 720 920 019 | 0.406 | 25         | 81        | 38        |
| 40        | 1 ½          | 720 920 029 | 0.480 | 28         | 81        | 38        |
| 50        | 1            | 720 920 020 | 0.532 | 20         | 82        | 42        |
| 50        | 1 ¼          | 720 920 030 | 0.577 | 25         | 87        | 42        |
| 50        | 1 ½          | 720 920 010 | 0.621 | 29         | 87        | 42        |
| 50        | 2            | 720 920 040 | 0.831 | 36         | 91        | 42        |
| 63        | 1            | 720 920 021 | 0.816 | 20         | 87        | 46        |
| 63        | 1 ¼          | 720 920 031 | 0.850 | 25         | 91        | 46        |
| 63        | 1 ½          | 720 920 041 | 0.862 | 29         | 91        | 46        |
| 63        | 2            | 720 920 011 | 1.025 | 36         | 95        | 46        |

24 92 07

## Transition Adaptor PE/steel (stainless 1.4305) Male thread

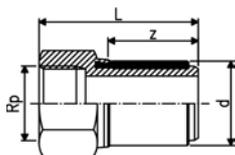


- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings



| d<br>[mm] | R<br>[inch] | Code        | kg    | L<br>[mm] | z<br>[mm] |
|-----------|-------------|-------------|-------|-----------|-----------|
| 20        | ½           | 724 920 706 | 0.139 | 75        | 33        |
| 25        | ¾           | 724 920 707 | 0.189 | 76        | 33        |
| 32        | 1           | 724 920 708 | 0.256 | 80        | 35        |
| 32        | 1 ½         | 724 920 718 | 0.400 | 80        | 35        |
| 40        | 1 ¼         | 724 920 709 | 0.404 | 86        | 39        |
| 40        | 1 ½         | 724 920 719 | 0.572 | 86        | 39        |
| 50        | 1 ½         | 724 920 710 | 0.502 | 90        | 43        |
| 63        | 1 ½         | 724 920 721 | 0.690 | 98        | 47        |
| 63        | 2           | 724 920 711 | 0.756 | 98        | 47        |

24 92 02

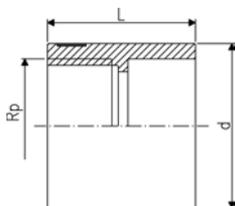


## Transition Adaptor PE/steel (stainless 1.4305) Female thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings

| d<br>[mm] | Rp<br>[inch] | Code               | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|-------|-----------|-----------|
| 20        | 1/2          | <b>724 920 206</b> | 0.153 | 65        | 33        |
| 25        | 3/4          | <b>724 920 207</b> | 0.195 | 66        | 33        |
| 32        | 1            | <b>724 920 208</b> | 0.250 | 71        | 35        |
| 40        | 1 1/4        | <b>724 920 209</b> | 0.388 | 77        | 39        |
| 50        | 1 1/2        | <b>724 920 210</b> | 0.575 | 81        | 43        |
| 63        | 2            | <b>724 920 211</b> | 0.785 | 89        | 47        |

73 28 19



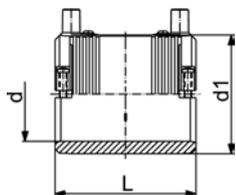
## PE Adaptor Female thread

- PE 80 SDR 11 (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (753 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread
- \*PE 100 SDR 11 (ISO S5)

| d<br>[mm] | Rp<br>[inch] | Code               | GP | kg    | L<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|
| 63        | 1 1/2        | <b>173 281 925</b> | 30 | 0.096 | 54        |
| * 63      | 1/2          | <b>193 281 617</b> | 1  | 0.060 | 68        |

# ELGEF Plus Electrofusion Fittings

53 91 16

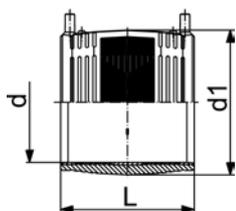


## Coupler with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|
| 20        | 753 911 606 | 1  | 50 | 0.054 | 31         | 68        |
| 25        | 753 911 607 | 1  | 50 | 0.060 | 36         | 68        |
| 32        | 753 911 608 | 1  | 50 | 0.072 | 44         | 72        |
| 40        | 753 911 609 | 1  | 50 | 0.100 | 54         | 80        |
| 50        | 753 911 610 | 1  | 10 | 0.136 | 66         | 88        |
| 63        | 753 911 611 | 1  | 10 | 0.194 | 81         | 96        |

53 91 16

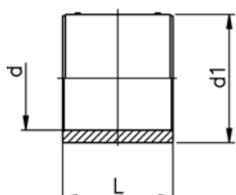


## Coupler

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

| d<br>[mm] | Code        | SP | GP | kg     | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|----|--------|------------|-----------|
| 75        | 753 911 612 | 1  | 12 | 0.287  | 96         | 110       |
| 90        | 753 911 613 | 1  | 10 | 0.421  | 113        | 125       |
| 110       | 753 911 614 | 1  | 5  | 0.697  | 138        | 145       |
| 125       | 753 911 615 | 1  | 5  | 0.738  | 154        | 158       |
| 140       | 753 911 616 | 1  | 5  | 0.968  | 172        | 168       |
| 160       | 753 911 617 | 1  | 6  | 1.390  | 196        | 180       |
| 180       | 753 911 618 | 1  | 5  | 1.750  | 219        | 194       |
| 200       | 753 911 619 | 1  | 4  | 2.350  | 244        | 208       |
| 225       | 753 911 620 | 1  | 3  | 3.193  | 273        | 224       |
| 250       | 753 911 621 | 1  | 2  | 4.210  | 304        | 244       |
| 280       | 753 911 622 | 1  | 1  | 5.675  | 340        | 252       |
| 315       | 753 911 623 | 1  | 1  | 8.000  | 382        | 268       |
| 355       | 753 911 624 | 1  | 1  | 12.110 | 432        | 290       |
| 400       | 753 911 625 | 1  | 1  | 15.993 | 487        | 290       |

53 91 18

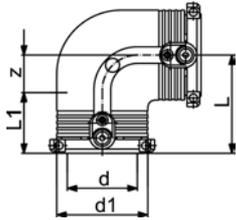


## Coupler

- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

| d<br>[mm] | Code        | GP | kg     | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|--------|------------|-----------|
| 160       | 753 911 817 | 6  | 1.050  | 186        | 180       |
| 180       | 753 911 818 | 6  | 1.450  | 213        | 194       |
| 200       | 753 911 819 | 4  | 1.800  | 233        | 208       |
| 225       | 753 911 820 | 3  | 2.385  | 261        | 224       |
| 250       | 753 911 821 | 2  | 4.345  | 304        | 244       |
| 280       | 753 911 822 | 1  | 5.675  | 340        | 252       |
| 315       | 753 911 823 | 1  | 8.000  | 382        | 268       |
| 355       | 753 911 824 | 1  | 8.200  | 414        | 290       |
| 400       | 753 911 825 | 1  | 15.993 | 487        | 290       |
| 450       | 753 911 826 | 1  | 16.000 | 522        | 313       |
| 500       | 753 911 827 | 1  | 22.000 | 579        | 343       |

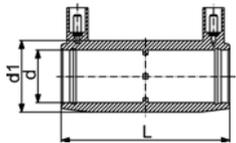
53 10 16



## Elbow 90° with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 20        | <b>753 101 606</b> | 1  | 10 | 0.093 | 35         | 54        | 34         | 20        |
| 25        | <b>753 101 607</b> | 1  | 10 | 0.078 | 35         | 54        | 34         | 20        |
| 32        | <b>753 101 608</b> | 1  | 10 | 0.098 | 44         | 53        | 36         | 17        |
| 40        | <b>753 101 609</b> | 1  | 10 | 0.142 | 54         | 62        | 39         | 23        |
| 50        | <b>753 101 610</b> | 1  | 10 | 0.215 | 66         | 71        | 43         | 28        |
| 63        | <b>753 101 611</b> | 1  | 10 | 0.280 | 81         | 81        | 48         | 32        |

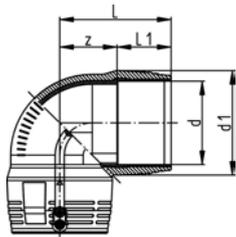


## Coupler long

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Removable centre stop

| d<br>[mm] | Code               | SP | GP  | kg    | d1<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|------------|-----------|-----------|
| 32        | <b>753 911 208</b> | 1  | 288 | 0.084 | 44         | 104       | 2         |
| 40        | <b>753 911 209</b> | 1  | 128 | 0.135 | 56         | 121       | 2         |
| 50        | <b>753 911 210</b> | 1  | 96  | 0.215 | 68         | 139       | 2         |
| 63        | <b>753 911 211</b> | 1  | 48  | 0.318 | 82         | 166       | 2         |

53 10 18

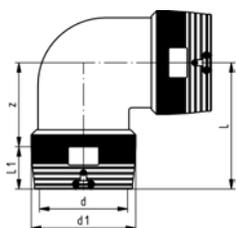


## Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 75        | <b>753 101 812</b> | 1  | 33 | 0.530 | 97         | 101       | 61         | 40        |
| 90        | <b>753 101 813</b> | 1  | 15 | 0.822 | 115        | 122       | 62         | 60        |
| 110       | <b>753 101 814</b> | 1  | 8  | 1.190 | 140        | 147       | 72         | 76        |
| 125       | <b>753 101 815</b> | 1  | 5  | 1.829 | 151        | 142       | 74         | 68        |
| 160       | <b>753 101 817</b> | 1  | 4  | 3.433 | 196        | 178       | 92         | 86        |
| 180       | <b>753 101 818</b> | 1  | 4  | 4.286 | 219        | 195       | 95         | 100       |

53 10 18

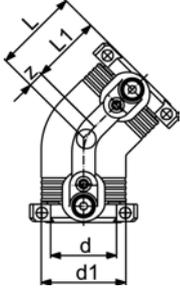


## Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|--------|------------|-----------|------------|-----------|
| 200       | <b>753 101 819</b> | 1  | 1  | 8.173  | 245        | 265       | 104        | 161       |
| 225       | <b>753 101 820</b> | 1  | 1  | 12.440 | 274        | 305       | 112        | 193       |
| 250       | <b>753 101 821</b> | 1  | 1  | 15.800 | 305        | 335       | 123        | 212       |

53 15 16

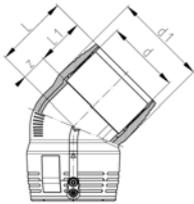


### Elbow 45° with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 32        | <b>753 151 608</b> | 1  | 20 | 0.087 | 44         | 44        | 36         | 8         |
| 40        | <b>753 151 609</b> | 1  | 10 | 0.121 | 54         | 50        | 39         | 11        |
| 50        | <b>753 151 610</b> | 1  | 10 | 0.140 | 66         | 56        | 43         | 13        |
| 63        | <b>753 151 611</b> | 1  | 10 | 0.274 | 81         | 63        | 48         | 15        |

53 15 18

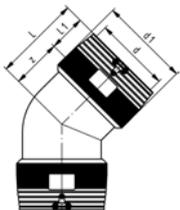


### Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|------------|-----------|
| 75        | <b>753 151 812</b> | 1  | 40 | 0.437 | 97         | 79        | 62         | 17        |
| 90        | <b>753 151 813</b> | 1  | 20 | 0.537 | 115        | 91        | 62         | 29        |
| 110       | <b>753 151 814</b> | 1  | 12 | 0.974 | 140        | 112       | 72         | 40        |
| 125       | <b>753 151 815</b> | 1  | 6  | 1.420 | 160        | 127       | 78         | 49        |
| 160       | <b>753 151 817</b> | 1  | 5  | 1.800 | 196        | 134       | 92         | 42        |
| 180       | <b>753 151 818</b> | 1  | 4  | 3.200 | 217        | 142       | 95         | 47        |

53 15 18

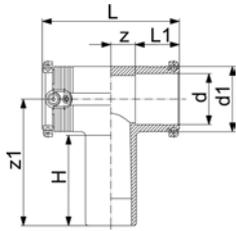


### Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code               | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|--------|------------|-----------|------------|-----------|
| 200       | <b>753 151 819</b> | 1  | 1  | 6.810  | 245        | 215       | 104        | 111       |
| 225       | <b>753 151 820</b> | 1  | 1  | 10.590 | 274        | 235       | 112        | 123       |
| 250       | <b>753 151 821</b> | 1  | 1  | 12.740 | 305        | 263       | 123        | 140       |

53 21 16

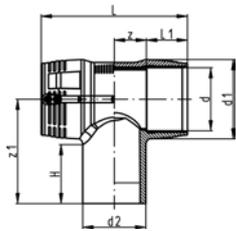


### Tee 90°, equal with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 20        | 753 211 606 | 10 | 10 | 0.100 | 35         | 90        | 34         | 11        | 92         | 67        |
| 25        | 753 211 607 | 10 | 10 | 0.088 | 35         | 90        | 34         | 11        | 92         | 70        |
| 32        | 753 211 608 | 1  | 10 | 0.115 | 44         | 102       | 36         | 15        | 100        | 74        |
| 40        | 753 211 609 | 1  | 10 | 0.176 | 54         | 120       | 39         | 21        | 114        | 82        |
| 50        | 753 211 610 | 5  | 5  | 0.268 | 66         | 135       | 43         | 24        | 126        | 90        |
| 63        | 753 211 611 | 5  | 5  | 0.429 | 81         | 152       | 48         | 28        | 150        | 102       |

53 20 18

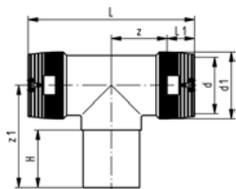


### Tee 90° equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 75        | 753 201 812 | 1  | 26 | 0.597 | 97         | 187       | 61         | 33        | 126        | 78        |
| 90        | 753 201 813 | 1  | 10 | 0.910 | 115        | 205       | 62         | 41        | 161        | 94        |
| 110       | 753 201 814 | 1  | 6  | 1.420 | 140        | 255       | 72         | 56        | 184        | 104       |
| 125       | 753 201 815 | 1  | 4  | 2.200 | 161        | 276       | 78         | 60        | 207        | 113       |
| 160       | 753 201 817 | 1  | 3  | 4.893 | 196        | 325       | 92         | 71        | 206        | 103       |
| 180       | 753 201 818 | 1  | 2  | 6.770 | 225        | 344       | 90         | 82        | 250        | 110       |

53 20 18

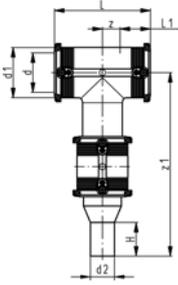


### Tee 90°, equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | Code        | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|-------------|----|----|--------|------------|-----------|------------|-----------|------------|-----------|
| 200       | 753 201 819 | 1  | 1  | 10.100 | 245        | 560       | 104        | 176       | 250        | 117       |
| 225       | 753 201 820 | 1  | 1  | 15.145 | 274        | 610       | 112        | 193       | 270        | 122       |
| 250       | 753 201 821 | 1  | 1  | 18.100 | 305        | 667       | 123        | 211       | 288        | 127       |

93 28 10

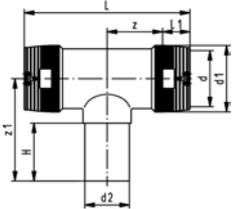


### Tee 90°, reduced (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

| d<br>[mm] | d2<br>[mm] | Code        | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|--------|------------|-----------|------------|-----------|------------|-----------|
| 40        | 20         | 193 281 004 | 0.314  | 54         | 120       | 39         | 21        | 244        | 212       |
| 40        | 25         | 193 281 005 | 0.319  | 54         | 120       | 39         | 21        | 244        | 212       |
| 75        | 40         | 193 280 998 | 1.060  | 97         | 187       | 61         | 33        | 296        | 248       |
| 90        | 50         | 193 280 999 | 1.620  | 112        | 202       | 61         | 41        | 336        | 274       |
| 110       | 63         | 193 280 961 | 2.670  | 136        | 242       | 65         | 56        | 366        | 293       |
| 125       | 63         | 193 280 963 | 3.690  | 151        | 256       | 75         | 53        | 361        | 279       |
| 125       | 110        | 193 280 965 | 3.920  | 151        | 256       | 75         | 53        | 389        | 307       |
| 160       | 125        | 193 280 969 | 8.250  | 196        | 325       | 92         | 71        | 451        | 348       |
| 180       | 90         | 193 281 032 | 10.056 | 225        | 344       | 90         | 82        | 487        | 347       |
| 180       | 110        | 193 281 033 | 10.246 | 225        | 344       | 90         | 82        | 495        | 355       |

53 21 10

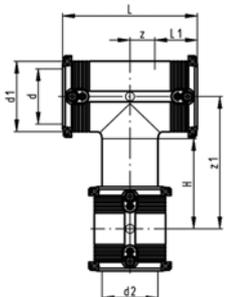


### Tee 90°, reduced

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

| d<br>[mm] | d2<br>[mm] | Code        | SP | GP | kg     | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|----|----|--------|------------|-----------|------------|-----------|------------|-----------|
| 160       | 63         | 753 211 037 | 1  | 2  | 4.940  | 196        | 405       | 90         | 113       | 176        | 65        |
| 160       | 90         | 753 211 039 | 1  | 2  | 5.040  | 196        | 405       | 90         | 113       | 188        | 79        |
| 160       | 110        | 753 211 040 | 1  | 2  | 5.160  | 196        | 405       | 90         | 113       | 195        | 85        |
| 200       | 90         | 753 211 059 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 215        | 81        |
| 200       | 110        | 753 211 060 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 218        | 84        |
| 200       | 160        | 753 211 063 | 1  | 1  | 11.260 | 245        | 557       | 104        | 175       | 236        | 101       |
| 225       | 90         | 753 211 069 | 1  | 1  | 12.700 | 274        | 615       | 112        | 196       | 226        | 80        |
| 225       | 110        | 753 211 070 | 1  | 1  | 12.750 | 274        | 615       | 112        | 196       | 235        | 85        |
| 225       | 160        | 753 211 073 | 1  | 1  | 13.200 | 274        | 615       | 112        | 196       | 255        | 105       |
| 250       | 110        | 753 211 080 | 1  | 1  | 11.260 | 305        | 668       | 123        | 211       | 245        | 85        |
| 250       | 160        | 753 211 083 | 1  | 1  | 11.260 | 305        | 668       | 123        | 211       | 264        | 101       |

53 20 16

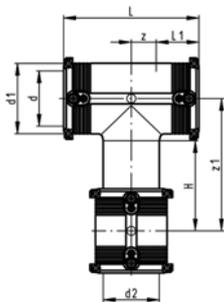


### Tee 90° with weldable outlet (Kit) equal or reduced

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler or ELGEF® Plus Reducer

| d<br>[mm] | d2<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|-------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 20        | 20         | 753 201 606 | 1  | 6  | 0.170 | 35         | 90        | 34         | 11        | 92         | 67        |
| 25        | 25         | 753 201 607 | 1  | 6  | 0.170 | 35         | 90        | 34         | 11        | 92         | 70        |
| 32        | 32         | 753 201 608 | 1  | 6  | 0.213 | 44         | 102       | 36         | 15        | 100        | 74        |
| 40        | 32         | 193 281 006 | 1  | 6  | 0.248 | 54         | 120       | 39         | 21        | 127        | 95        |
| 40        | 40         | 753 201 609 | 1  | 6  | 0.295 | 54         | 120       | 39         | 21        | 114        | 82        |
| 50        | 32         | 193 281 007 | 1  | 4  | 0.364 | 66         | 135       | 43         | 24        | 144        | 108       |
| 50        | 40         | 193 281 008 | 1  | 4  | 0.404 | 66         | 135       | 43         | 24        | 140        | 104       |
| 50        | 50         | 753 201 610 | 1  | 4  | 0.419 | 66         | 135       | 43         | 24        | 126        | 90        |
| 63        | 32         | 193 280 997 | 1  | 4  | 0.550 | 81         | 152       | 48         | 28        | 173        | 125       |
| 63        | 40         | 193 281 009 | 1  | 4  | 0.605 | 81         | 152       | 48         | 28        | 169        | 121       |
| 63        | 50         | 193 281 010 | 1  | 4  | 0.618 | 81         | 152       | 48         | 28        | 165        | 117       |
| 63        | 63         | 753 201 611 | 1  | 4  | 0.641 | 81         | 152       | 48         | 28        | 150        | 102       |
| 90        | 63         | 193 281 011 | 1  | 3  | 1.300 | 112        | 202       | 61         | 41        | 182        | 120       |

table continued next page

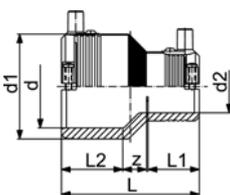


| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] | z1<br>[mm] | H<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|-----------|------------|-----------|
| 90        | 90         | <b>753 201 613</b> | 1  | 3  | 1.450 | 112        | 202       | 61         | 41        | 146        | 84        |
| 110       | 90         | <b>193 281 012</b> | 1  | 2  | 2.294 | 136        | 242       | 65         | 56        | 200        | 127       |
| 110       | 110        | <b>753 201 614</b> | 1  | 2  | 2.400 | 136        | 242       | 65         | 56        | 161        | 88        |
| 125       | 90         | <b>193 281 013</b> | 1  | 1  | 2.850 | 151        | 256       | 75         | 53        | 214        | 132       |
| 125       | 125        | <b>753 201 615</b> | 1  | 1  | 2.930 | 151        | 256       | 75         | 53        | 174        | 92        |
| 160       | 110        | <b>193 281 030</b> | 1  | 1  | 6.093 | 196        | 325       | 92         | 71        | 271        | 168       |
| 160       | 160        | <b>753 201 617</b> | 1  | 1  | 6.664 | 196        | 325       | 92         | 71        | 206        | 103       |
| 180       | 125        | <b>193 281 031</b> | 1  | 1  | 8.770 | 225        | 344       | 90         | 82        | 330        | 190       |
| 180       | 180        | <b>753 201 618</b> | 1  | 1  | 9.600 | 225        | 344       | 90         | 82        | 250        | 110       |

## 53 90 16

### Reducer with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

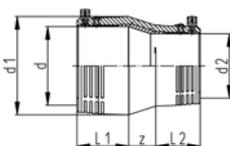


| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 25        | 20         | <b>753 901 639</b> | 20 | 20 | 0.059 | 35         | 74        | 34         | 34         | 6         |
| 32        | 20         | <b>753 901 640</b> | 1  | 20 | 0.071 | 44         | 79        | 33         | 36         | 10        |
| 32        | 25         | <b>753 901 641</b> | 1  | 20 | 0.060 | 44         | 79        | 33         | 36         | 10        |
| 40        | 32         | <b>753 901 646</b> | 1  | 20 | 0.072 | 54         | 88        | 33         | 39         | 13        |
| 50        | 32         | <b>753 901 651</b> | 1  | 10 | 0.096 | 66         | 96        | 35         | 43         | 18        |
| 50        | 40         | <b>753 901 652</b> | 1  | 15 | 0.136 | 66         | 96        | 39         | 43         | 14        |
| 63        | 32         | <b>753 901 656</b> | 1  | 10 | 0.171 | 81         | 106       | 35         | 48         | 23        |
| 63        | 40         | <b>753 901 657</b> | 1  | 10 | 0.176 | 81         | 106       | 39         | 48         | 19        |
| 63        | 50         | <b>753 901 658</b> | 1  | 10 | 0.189 | 81         | 106       | 43         | 48         | 15        |

## 53 90 18

### Reducer

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

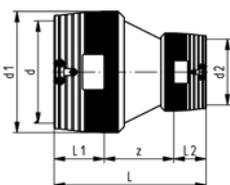


| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 90        | 63         | <b>753 901 831</b> | 1  | 30 | 0.360 | 113        | 146       | 63         | 47         | 36        |
| 110       | 90         | <b>753 901 833</b> | 1  | 16 | 0.657 | 138        | 173       | 73         | 63         | 38        |
| 125       | 90         | <b>753 901 836</b> | 1  | 12 | 0.878 | 152        | 180       | 79         | 61         | 40        |
| 160       | 110        | <b>753 901 834</b> | 1  | 5  | 1.200 | 196        | 226       | 91         | 70         | 65        |
| 180       | 125        | <b>753 901 835</b> | 1  | 4  | 2.000 | 220        | 247       | 97         | 70         | 80        |

## 53 90 18

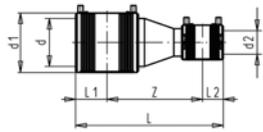
### Reducer

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones



| d<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|----|-------|------------|-----------|------------|------------|-----------|
| 200       | 160        | <b>753 901 837</b> | 1  | 1  | 4.150 | 245        | 311       | 104        | 90         | 117       |
| 225       | 160        | <b>753 901 838</b> | 1  | 1  | 5.240 | 274        | 331       | 112        | 90         | 129       |
| 250       | 160        | <b>753 901 840</b> | 1  | 2  | 7.100 | 305        | 362       | 123        | 90         | 149       |
| 250       | 200        | <b>753 901 841</b> | 1  | 2  | 7.680 | 305        | 380       | 123        | 104        | 153       |

93 28 09

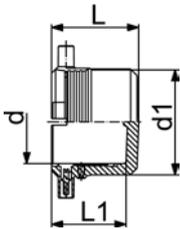


## Reducer (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

| d<br>[mm] | d2<br>[mm] | Code        | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] |
|-----------|------------|-------------|-------|------------|-----------|------------|------------|-----------|
| 75        | 40         | 193 280 992 | 0.567 | 96         | 265       | 55         | 40         | 170       |

53 96 16

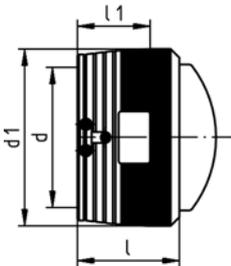


## End Cap with integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|------------|
| 20        | 753 961 606 | 1  | 50 | 0.038 | 35         | 52        | 44         |
| 25        | 753 961 607 | 1  | 50 | 0.030 | 35         | 52        | 44         |
| 32        | 753 961 608 | 1  | 50 | 0.080 | 44         | 52        | 44         |
| 40        | 753 961 609 | 1  | 50 | 0.074 | 54         | 56        | 47         |
| 50        | 753 961 610 | 1  | 10 | 0.086 | 66         | 60        | 49         |
| 63        | 753 961 611 | 1  | 10 | 0.154 | 81         | 66        | 54         |

53 96 16

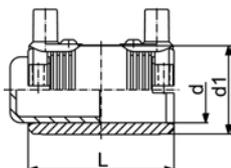


## End Cap

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|------------|
| 160       | 753 961 617 | 1  | 2  | 1.840 | 196        | 129       | 90         |
| 200       | 753 961 619 | 1  | 2  | 3.040 | 245        | 147       | 104        |
| 225       | 753 961 620 | 1  | 4  | 4.140 | 274        | 157       | 112        |
| 250       | 753 961 621 | 1  | 1  | 5.860 | 305        | 173       | 123        |

53 96 17

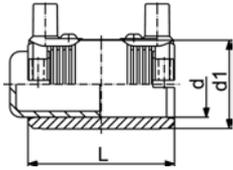


## End cap (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler
- \* Article to be discontinued, replaced by 53 96 16

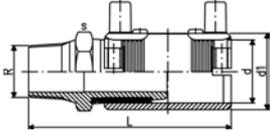
| d<br>[mm] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|-------------|----|----|-------|------------|-----------|
| 75        | 753 961 712 | 1  | 6  | 0.446 | 96         | 110       |
| 90        | 753 961 713 | 1  | 5  | 0.680 | 113        | 125       |
| 110       | 753 961 714 | 1  | 3  | 1.126 | 133        | 145       |
| 125       | 753 961 715 | 1  | 3  | 1.594 | 155        | 158       |
| 140       | 753 961 716 | 1  | 1  | 2.250 | 175        | 170       |
| * 160     | 753 961 717 | 1  | 1  | 2.712 | 197        | 180       |

table continued next page



| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|----|-------|------------|-----------|
| 180       | <b>753 961 718</b> | 1  | 1  | 4.136 | 220        | 194       |
| * 200     | <b>753 961 719</b> | 1  | 1  | 4.906 | 245        | 208       |
| * 225     | <b>753 961 720</b> | 1  | 1  | 6.500 | 296        | 224       |

20 92 07

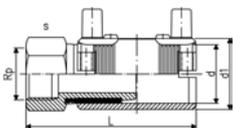


## Transition Coupler PE/brass (Ms 58) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>720 920 756</b> | 1  | 6  | 0.217 | 31         | 110       | 30        |
| 20        | 1           | <b>720 920 754</b> | 1  | 6  | 0.344 | 44         | 124       | 40        |
| 25        | ¾           | <b>720 920 757</b> | 1  | 6  | 0.280 | 36         | 111       | 35        |
| 25        | 1           | <b>720 920 763</b> | 1  | 6  | 0.364 | 44         | 124       | 40        |
| 32        | ½           | <b>720 920 764</b> | 1  | 6  | 0.235 | 44         | 121       | 30        |
| 32        | ¾           | <b>720 920 765</b> | 1  | 6  | 0.287 | 44         | 122       | 35        |
| 32        | 1           | <b>720 920 758</b> | 1  | 6  | 0.355 | 44         | 117       | 40        |
| 32        | 1 ¼         | <b>720 920 766</b> | 1  | 6  | 0.543 | 54         | 135       | 50        |
| 32        | 1 ½         | <b>720 920 767</b> | 1  | 6  | 0.685 | 60         | 143       | 60        |
| 32        | 2           | <b>720 920 768</b> | 1  | 3  | 1.000 | 81         | 157       | 70        |
| 40        | 1           | <b>720 920 771</b> | 1  | 6  | 0.387 | 54         | 133       | 40        |
| 40        | 1 ¼         | <b>720 920 759</b> | 1  | 6  | 0.541 | 54         | 127       | 50        |
| 40        | 1 ½         | <b>720 920 772</b> | 1  | 6  | 0.694 | 66         | 143       | 60        |
| 40        | 2           | <b>720 920 773</b> | 1  | 3  | 0.992 | 81         | 157       | 70        |
| 50        | 1           | <b>720 920 776</b> | 1  | 6  | 0.416 | 66         | 141       | 40        |
| 50        | 1 ¼         | <b>720 920 777</b> | 1  | 3  | 0.578 | 66         | 143       | 50        |
| 50        | 1 ½         | <b>720 920 760</b> | 1  | 6  | 0.670 | 66         | 135       | 60        |
| 50        | 2           | <b>720 920 778</b> | 1  | 3  | 0.994 | 81         | 157       | 70        |
| 63        | 1           | <b>720 920 781</b> | 1  | 3  | 0.460 | 81         | 151       | 40        |
| 63        | 1 ¼         | <b>720 920 782</b> | 1  | 3  | 0.626 | 81         | 153       | 40        |
| 63        | 1 ½         | <b>720 920 783</b> | 1  | 3  | 0.741 | 81         | 153       | 60        |
| 63        | 2           | <b>720 920 761</b> | 1  | 4  | 1.005 | 81         | 147       | 70        |

20 92 02

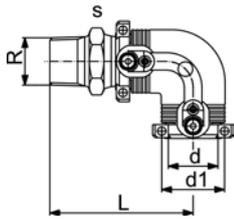


## Transition Coupler PE/brass (Ms 58) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|-----------|-----------|
| 32        | 1            | <b>720 920 258</b> | 1  | 6  | 0.338 | 44         | 108       | 40        |
| 40        | 1 ¼          | <b>720 920 259</b> | 1  | 6  | 0.511 | 54         | 118       | 50        |
| 50        | 1 ½          | <b>720 920 260</b> | 1  | 6  | 0.744 | 66         | 126       | 60        |
| 63        | 1            | <b>720 920 281</b> | 1  | 3  | 1.280 | 81         | 138       | 70        |
| 63        | 1 ¼          | <b>720 920 282</b> | 1  | 3  | 1.230 | 81         | 138       | 70        |
| 63        | 1 ½          | <b>720 920 283</b> | 1  | 3  | 1.115 | 81         | 138       | 70        |
| 63        | 2            | <b>720 920 261</b> | 1  | 3  | 1.016 | 81         | 138       | 70        |

20 10 07

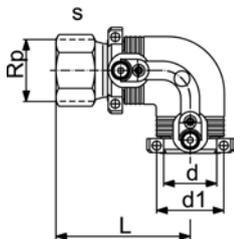


## Transition Elbow 90° PE/brass (Ms 58) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | R<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|-------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | 720 100 756 | 1  | 6  | 0.240 | 31         | 96        | 30        |
| 25        | ¾           | 720 100 757 | 1  | 6  | 0.260 | 36         | 97        | 35        |
| 32        | 1           | 720 100 758 | 1  | 6  | 0.383 | 44         | 98        | 40        |
| 32        | 1 ¼         | 720 100 766 | 1  | 6  | 0.500 | 44         | 100       | 50        |
| 32        | 1 ½         | 720 100 767 | 1  | 6  | 0.562 | 44         | 100       | 60        |
| 40        | 1           | 720 100 771 | 1  | 6  | 0.528 | 54         | 107       | 50        |
| 40        | 1 ¼         | 720 100 759 | 1  | 6  | 0.584 | 54         | 109       | 50        |
| 40        | 1 ½         | 720 100 772 | 1  | 6  | 0.642 | 54         | 109       | 60        |
| 50        | 1           | 720 100 776 | 1  | 6  | 0.710 | 66         | 116       | 60        |
| 50        | 1 ¼         | 720 100 777 | 1  | 6  | 0.771 | 66         | 118       | 60        |
| 50        | 1 ½         | 720 100 760 | 1  | 6  | 0.757 | 66         | 118       | 60        |
| 63        | 1 ¼         | 720 100 782 | 1  | 3  | 1.040 | 81         | 128       | 70        |
| 63        | 1 ½         | 720 100 783 | 1  | 3  | 1.045 | 81         | 128       | 70        |
| 63        | 2           | 720 100 761 | 1  | 3  | 1.115 | 81         | 132       | 70        |

20 10 02

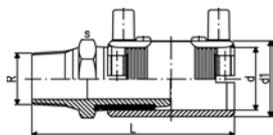


## Transition Elbow 90° PE/brass (Ms 58) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | Rp<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|-------------|----|----|-------|------------|-----------|-----------|
| 32        | 1            | 720 100 258 | 1  | 6  | 0.365 | 44         | 89        | 40        |
| 40        | 1 ¼          | 720 100 259 | 1  | 6  | 0.556 | 54         | 100       | 50        |
| 50        | 1 ½          | 720 100 260 | 1  | 6  | 0.819 | 66         | 109       | 60        |
| 63        | 1            | 720 100 281 | 1  | 3  | 1.420 | 81         | 123       | 70        |
| 63        | 1 ¼          | 720 100 282 | 1  | 3  | 1.380 | 81         | 123       | 70        |
| 63        | 1 ½          | 720 100 283 | 1  | 3  | 1.305 | 81         | 123       | 70        |
| 63        | 2            | 720 100 261 | 1  | 3  | 1.165 | 81         | 123       | 70        |

24 92 07

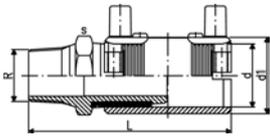


## Transition Coupler PE/steel (stainless 1.4305) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions

| d<br>[mm] | R<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|-------------|----|----|-------|------------|-----------|-----------|
| 20        | ½           | 724 920 756 | 6  | 6  | 0.210 | 31         | 110       | 30        |
| 25        | ¾           | 724 920 757 | 6  | 6  | 0.260 | 36         | 111       | 35        |
| 32        | 1           | 724 920 758 | 6  | 6  | 0.347 | 44         | 117       | 40        |
| 32        | 1 ½         | 724 920 767 | 6  | 6  | 0.330 | 44         | 125       | 60        |
| 40        | 1 ¼         | 724 920 759 | 6  | 6  | 0.519 | 54         | 127       | 50        |
| 40        | 1 ½         | 724 920 772 | 6  | 6  | 0.690 | 66         | 143       | 60        |

table continued next page



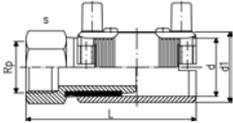
| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|------------|-----------|-----------|
| 50        | 1 ½         | <b>724 920 760</b> | 1  | 6  | 0.657 | 66         | 135       | 60        |
| 63        | 1 ½         | <b>724 920 771</b> | 3  | 3  | 0.904 | 81         | 147       | 70        |
| 63        | 2           | <b>724 920 761</b> | 3  | 3  | 0.963 | 81         | 147       | 70        |

24 92 02

## Transition Coupler PE/steel (stainless 1.4305) Female Thread



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit



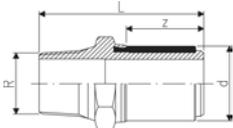
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | ½            | <b>724 920 256</b> | 6  | 6  | 0.197 | 31         | 100       | 30        |
| 25        | ¾            | <b>724 920 257</b> | 6  | 6  | 0.253 | 36         | 101       | 35        |
| 32        | 1            | <b>724 920 258</b> | 1  | 6  | 0.340 | 44         | 108       | 40        |
| 40        | 1 ¼          | <b>724 920 259</b> | 1  | 6  | 0.505 | 54         | 118       | 50        |
| 50        | 1 ½          | <b>724 920 260</b> | 6  | 6  | 0.725 | 66         | 126       | 60        |
| 63        | 2            | <b>724 920 261</b> | 3  | 3  | 0.995 | 81         | 138       | 70        |

24 92 07

## Transition Adaptor PE/steel (stainless 1.4305) Male thread



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings



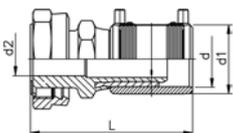
| d<br>[mm] | R<br>[inch] | Code               | kg    | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|-------|-----------|-----------|
| 20        | ½           | <b>724 920 706</b> | 0.139 | 75        | 33        |
| 25        | ¾           | <b>724 920 707</b> | 0.189 | 76        | 33        |
| 32        | 1           | <b>724 920 708</b> | 0.256 | 80        | 35        |
| 32        | 1 ½         | <b>724 920 718</b> | 0.400 | 80        | 35        |
| 40        | 1 ¼         | <b>724 920 709</b> | 0.404 | 86        | 39        |
| 40        | 1 ½         | <b>724 920 719</b> | 0.572 | 86        | 39        |
| 50        | 1 ½         | <b>724 920 710</b> | 0.502 | 90        | 43        |
| 63        | 1 ½         | <b>724 920 721</b> | 0.690 | 98        | 47        |
| 63        | 2           | <b>724 920 711</b> | 0.756 | 98        | 47        |

20 91 00

## Transition Coupler PE/brass (Ms 58) with loose Nut

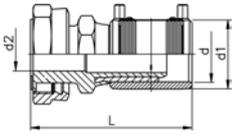


- PE 100 SDR 11 (ISO S5)
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions
- Incl. flat gasket for water applications (KTW / WRAS approved)



| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] | L<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|------------|------------|-----------|
| 25        | ¾            | <b>720 910 007</b> | 1  | 8  | 0.240 | 36         | 15         | 104       |
| 25        | 1            | <b>720 910 017</b> | 1  | 8  | 0.315 | 36         | 16         | 106       |
| 32        | 1            | <b>720 910 008</b> | 1  | 6  | 0.342 | 44         | 20         | 110       |
| 32        | 1 ¼          | <b>720 910 018</b> | 1  | 6  | 0.460 | 44         | 22         | 114       |
| 32        | 1 ½          | <b>720 910 028</b> | 1  | 6  | 0.480 | 44         | 22         | 114       |
| 40        | 1            | <b>720 910 009</b> | 1  | 6  | 0.465 | 54         | 21         | 119       |
| 40        | 1 ¼          | <b>720 910 019</b> | 1  | 6  | 0.520 | 54         | 25         | 123       |
| 40        | 1 ½          | <b>720 910 029</b> | 1  | 6  | 0.595 | 54         | 28         | 123       |
| 50        | 1            | <b>720 910 020</b> | 1  | 6  | 0.685 | 66         | 20         | 128       |
| 50        | 1 ¼          | <b>720 910 030</b> | 1  | 6  | 0.730 | 66         | 25         | 133       |
| 50        | 1 ½          | <b>720 910 010</b> | 1  | 6  | 0.774 | 66         | 29         | 133       |

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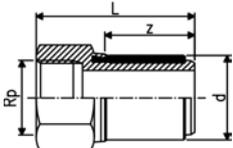
| d<br>[mm] | Rp<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] | L<br>[mm] |
|-----------|--------------|-------------|----|----|-------|------------|------------|-----------|
| 50        | 2            | 720 910 040 | 1  | 3  | 0.980 | 66         | 36         | 137       |
| 63        | 1            | 720 910 021 | 1  | 3  | 1.025 | 81         | 20         | 137       |
| 63        | 1 ¼          | 720 910 031 | 1  | 3  | 1.060 | 81         | 25         | 141       |
| 63        | 1 ½          | 720 910 041 | 1  | 3  | 1.070 | 81         | 29         | 141       |
| 63        | 2            | 720 910 011 | 1  | 3  | 1.235 | 81         | 36         | 145       |

24 92 02



### Transition Adaptor PE/steel (stainless 1.4305) Female thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF® Plus Couplers and Fittings



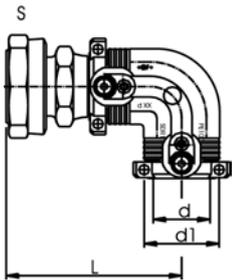
| d<br>[mm] | Rp<br>[inch] | Code        | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------|-------------|-------|-----------|-----------|
| 20        | ½            | 724 920 206 | 0.153 | 65        | 33        |
| 25        | ¾            | 724 920 207 | 0.195 | 66        | 33        |
| 32        | 1            | 724 920 208 | 0.250 | 71        | 35        |
| 40        | 1 ¼          | 724 920 209 | 0.388 | 77        | 39        |
| 50        | 1 ½          | 724 920 210 | 0.575 | 81        | 43        |
| 63        | 2            | 724 920 211 | 0.785 | 89        | 47        |

20 10 00



### Transition Elbow 90° PE/brass (Ms 58) with loose Nut

- PE 100 SDR 11 (ISO S5)
- Gas on request / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)



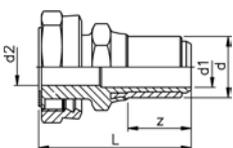
| d<br>[mm] | Rp<br>[inch] | Code        | SP | GP | kg    | d1<br>[mm] | L<br>[mm] |
|-----------|--------------|-------------|----|----|-------|------------|-----------|
| 25        | ¾            | 720 100 007 | 1  | 8  | 0.260 | 36         | 90        |
| 25        | 1            | 720 100 017 | 1  | 8  | 0.335 | 36         | 92        |
| 32        | 1            | 720 100 008 | 1  | 6  | 0.370 | 44         | 91        |
| 32        | 1 ¼          | 720 100 018 | 1  | 6  | 0.490 | 44         | 95        |
| 40        | 1            | 720 100 009 | 1  | 6  | 0.505 | 54         | 101       |
| 40        | 1 ¼          | 720 100 019 | 1  | 6  | 0.565 | 54         | 105       |
| 40        | 1 ½          | 720 100 029 | 1  | 6  | 0.635 | 54         | 105       |
| 50        | 1            | 720 100 020 | 1  | 6  | 0.760 | 66         | 111       |
| 50        | 1 ½          | 720 100 010 | 1  | 6  | 0.850 | 66         | 116       |
| 50        | 2            | 720 100 040 | 1  | 3  | 1.060 | 66         | 120       |
| 63        | 1            | 720 100 021 | 1  | 3  | 1.171 | 81         | 121       |
| 63        | 1 ½          | 720 100 041 | 1  | 6  | 1.210 | 81         | 125       |
| 63        | 2            | 720 100 011 | 1  | 3  | 1.375 | 81         | 129       |

20 92 00



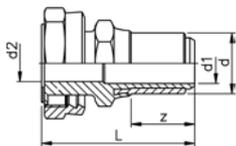
### Transition Adaptor PE/brass Loose nut (Ms 58)

- PE 100 SDR 11 (ISO S5)
- For ELGEF® Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)



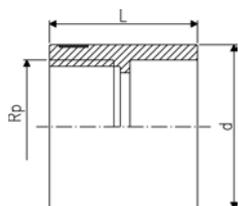
| d<br>[mm] | Rp<br>[inch] | Code        | kg    | d2<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|-------------|-------|------------|-----------|-----------|
| 25        | ¾            | 720 920 007 | 0.165 | 15         | 68        | 32        |
| 25        | 1            | 720 920 017 | 0.240 | 16         | 70        | 32        |
| 32        | 1            | 720 920 008 | 0.255 | 20         | 72        | 34        |
| 32        | 1 ¼          | 720 920 018 | 0.374 | 22         | 76        | 34        |
| 32        | 1 ½          | 720 920 028 | 0.393 | 22         | 76        | 34        |
| 40        | 1            | 720 920 009 | 0.349 | 21         | 77        | 38        |
| 40        | 1 ¼          | 720 920 019 | 0.406 | 25         | 81        | 38        |
| 40        | 1 ½          | 720 920 029 | 0.480 | 28         | 81        | 38        |

table continued next page



| d<br>[mm] | Rp<br>[inch] | Code               | kg    | d2<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|-------|------------|-----------|-----------|
| 50        | 1            | <b>720 920 020</b> | 0.532 | 20         | 82        | 42        |
| 50        | 1 ¼          | <b>720 920 030</b> | 0.577 | 25         | 87        | 42        |
| 50        | 1 ½          | <b>720 920 010</b> | 0.621 | 29         | 87        | 42        |
| 50        | 2            | <b>720 920 040</b> | 0.831 | 36         | 91        | 42        |
| 63        | 1            | <b>720 920 021</b> | 0.816 | 20         | 87        | 46        |
| 63        | 1 ¼          | <b>720 920 031</b> | 0.850 | 25         | 91        | 46        |
| 63        | 1 ½          | <b>720 920 041</b> | 0.862 | 29         | 91        | 46        |
| 63        | 2            | <b>720 920 011</b> | 1.025 | 36         | 95        | 46        |

73 28 19

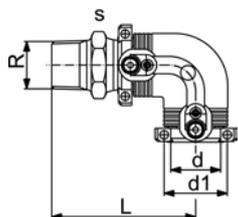


## PE Adaptor Female thread

- PE 80 SDR 11 (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (753 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread
- \*PE 100 SDR 11 (ISO S5)

| d<br>[mm] | Rp<br>[inch] | Code               | GP | kg    | L<br>[mm] |
|-----------|--------------|--------------------|----|-------|-----------|
| 63        | 1 ½          | <b>173 281 925</b> | 30 | 0.096 | 54        |

24 10 07

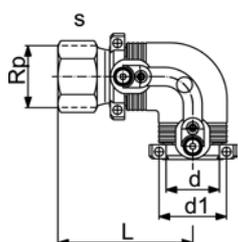


## Transition Elbow 90° PE/steel (stainless 1.4305) Male Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

| d<br>[mm] | R<br>[inch] | Code               | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|--------------------|----|-------|------------|-----------|-----------|
| 20        | ½           | <b>724 100 756</b> | 6  | 0.211 | 31         | 96        | 30        |
| 25        | ¾           | <b>724 100 757</b> | 6  | 0.230 | 36         | 97        | 35        |
| 32        | 1           | <b>724 100 758</b> | 6  | 0.370 | 44         | 98        | 40        |
| 40        | 1 ¼         | <b>724 100 759</b> | 6  | 0.560 | 54         | 109       | 50        |
| 40        | 1 ½         | <b>724 100 772</b> | 6  | 0.730 | 54         | 109       | 60        |
| 50        | 1 ½         | <b>724 100 760</b> | 6  | 0.730 | 66         | 118       | 60        |
| 63        | 1 ½         | <b>724 100 771</b> | 3  | 1.040 | 81         | 132       | 70        |
| 63        | 2           | <b>724 100 761</b> | 3  | 1.105 | 81         | 132       | 70        |

24 10 02



## Transition Elbow 90° PE/steel (stainless 1.4305) Female Thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

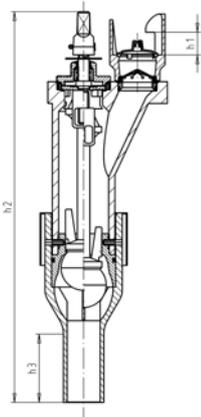
| d<br>[mm] | Rp<br>[inch] | Code               | GP | kg    | d1<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|--------------------|----|-------|------------|-----------|-----------|
| 20        | ½            | <b>724 100 256</b> | 6  | 0.211 | 31         | 86        | 30        |
| 25        | ¾            | <b>724 100 257</b> | 6  | 0.237 | 36         | 87        | 35        |
| 32        | 1            | <b>724 100 258</b> | 6  | 0.360 | 44         | 89        | 40        |
| 40        | 1 ¼          | <b>724 100 259</b> | 6  | 0.545 | 54         | 100       | 50        |
| 50        | 1 ½          | <b>724 100 260</b> | 6  | 0.805 | 66         | 109       | 60        |
| 63        | 2            | <b>724 100 261</b> | 3  | 1.135 | 81         | 123       | 70        |



## Hydrant



- PE-Hydrant
- PE 100 SDR 11 (ISO S5)
- Underground hydrant
- 16 bar Water
- PE spigot d90 mm SDR11
- For pipe covers according to DIN 3221
- Polystyrene drainage element available under 193.281.465

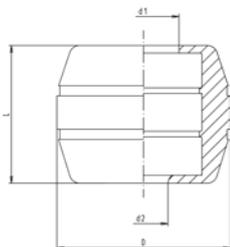


| d<br>[mm] | Code               | SP | GP | kg     | RD<br>[m] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] |
|-----------|--------------------|----|----|--------|-----------|------------|------------|------------|
| 90        | <b>193 281 200</b> | 1  | 1  | 18.500 | 1.00      | 50         | 881        | 150        |
| 90        | <b>193 281 201</b> | 1  | 1  | 19.800 | 1.25      | 50         | 1131       | 150        |
| 90        | <b>193 281 202</b> | 1  | 1  | 21.000 | 1.50      | 50         | 1381       | 150        |



## Drainage stone for PE-Hydrant

- Suitable for spigot and flange edition
- Consists of 2 polystyrene half-shells
- Fits exactly onto hydrants' shape
- Self-locking feature
- Groves for tape fit
- Volumetric capacity 8.5 l
- Drain away slots underside

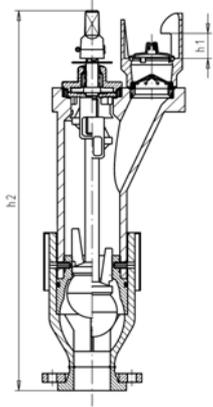


| L<br>[mm] | D<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] |
|-----------|-----------|--------------------|----|----|-------|------------|------------|
| 275       | 342       | <b>193 281 465</b> | 1  | -  | 0.175 | 140        | 96         |



## Hydrant

- Underground hydrant
- **PE-Hydrant**
- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- PP/steel loose flange acc. DIN 2501
- For pipe covers according to DIN 3221
- Polystyrene drainage element available under 193.281.465

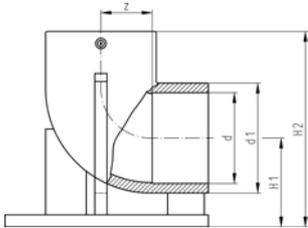


| DN<br>[mm] | Code               | SP | GP | kg     | RD<br>[m] | H1<br>[mm] | H2<br>[mm] |
|------------|--------------------|----|----|--------|-----------|------------|------------|
| 80         | <b>193 281 300</b> | 1  | 1  | 20.500 | 1.00      | 50         | 774        |
| 80         | <b>193 281 301</b> | 1  | 1  | 21.800 | 1.25      | 50         | 1024       |
| 80         | <b>193 281 302</b> | 1  | 1  | 23.100 | 1.50      | 50         | 1274       |



## Duckfoot Bend MMN - Piece

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Fitted with welded base plate for a better stability
- 4 mm pin connectors
- Limited path fusion indicators
- For pipe covers according to DIN 3221

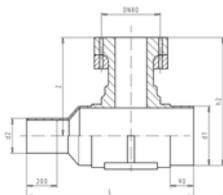


| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | H1<br>[mm] | H2<br>[mm] |
|-----------|--------------------|----|----|-------|------------|------------|------------|
| 90        | <b>193 281 102</b> | 1  | 1  | 1.610 | 113        | 95         | 205        |
| 110       | <b>193 281 103</b> | 1  | 1  | 2.490 | 136        | 109        | 240        |



## Duckfoot Bend (Kit) EN - piece

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With flange outlet DN 80 and integrated service outlet d63
- Delivered with ELGEF® Plus Coupler
- For pipe covers according to DIN 3221
- Flange dimensions according to DIN 2501/BS 4504
- O-ring seal at flange front side
- Backing flange material GGG40



| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | DN<br>[mm] |
|-----------|--------------------|----|----|-------|------------|------------|------------|-----------|------------|
| 90        | <b>193 281 147</b> | 1  | 1  | 7.330 | 63         | 205        | 275        | 690       | 80         |
| 110       | <b>193 281 148</b> | 1  | 1  | 6.450 | 63         | 205        | 275        | 690       | 80         |



## Hydrant Kit for lateral shifted connection

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Flange dimensions according to DIN 2501/BS 4504
- For pipe covers according to DIN 3221
- Kit consists of:
  - ELGEF Plus Branch Fitting
  - ELGEF Plus MMN-Duckfoot Bend d90
  - PE-Flange adaptor d90 SDR 11
  - PP-V Backing flange d90 DN 80
  - Flange seal NBR DN 80

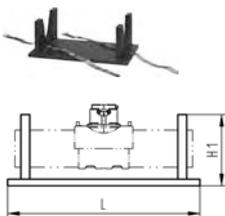
| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    |
|-----------|------------|--------------------|----|----|-------|
| 110       | 80         | <b>193 281 214</b> | 1  | 1  | 3.751 |
| 125       | 80         | <b>193 281 215</b> | 1  | 1  | 3.811 |
| 160       | 80         | <b>193 281 217</b> | 1  | 1  | 4.121 |
| 180       | 80         | <b>193 281 218</b> | 1  | 1  | 4.391 |



## Hydrant Kit for direct connection

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- For pipe covers according to DIN 3221
- Flange dimensions according to DIN 2501/BS 4504
- Kit consists of:
  - ELGEF Plus Branch Fitting
  - PE-flange adaptor d90 SDR 11
  - PP-V Backing flange d90 DN 80
  - Flange seal NBR DN 80

| d<br>[mm] | DN<br>[mm] | Code               | SP | GP | kg    |
|-----------|------------|--------------------|----|----|-------|
| 110       | 80         | <b>193 281 204</b> | 1  | 1  | 2.141 |
| 125       | 80         | <b>193 281 205</b> | 1  | 1  | 2.201 |
| 160       | 80         | <b>193 281 207</b> | 1  | 1  | 2.511 |
| 180       | 80         | <b>193 281 208</b> | 1  | 1  | 2.781 |



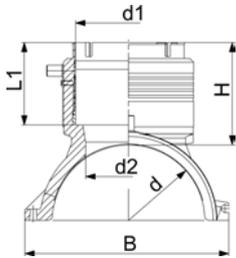
## Pipe Support

- PE
- For mainlines d 90 up to d 160
- Rubber coated bearing surface
- Delivered with fixation belts

| d<br>[mm] | Code               | SP | GP | kg    | L<br>[mm] | H1<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|------------|
| 90 - 160  | <b>193 281 105</b> | 1  | 1  | 2.480 | 435       | 160        |

# ELGEF Plus Branch Fitting

51 336 001

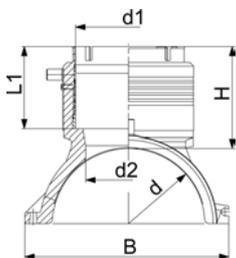


## Branch Fitting

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- \* Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193 281 027

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | H<br>[mm] | L<br>[mm] | L1<br>[mm] | B<br>[mm] | d2<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|-----------|------------|-----------|------------|
| 110       | 90         | <b>193 135 009</b> | 1  | 4  | 1.074 | 101       | 220       | 82         | 164       | 65         |
| 110       | 110        | <b>193 135 010</b> | 1  | 4  | 1.152 | 107       | 220       | 88         | 164       | 65         |
| 125       | 90         | <b>193 135 019</b> | 1  | 4  | 1.134 | 101       | 220       | 82         | 179       | 65         |
| 125       | 110        | <b>193 135 020</b> | 1  | 4  | 1.258 | 107       | 220       | 88         | 179       | 65         |
| * 140     | 90         | <b>193 135 029</b> | 1  | 4  | 1.134 | 101       | 220       | 81         | 195       | 65         |
| * 140     | 110        | <b>193 135 030</b> | 1  | 4  | 1.258 | 107       | 220       | 87         | 195       | 65         |
| 160       | 90         | <b>193 135 039</b> | 1  | 4  | 1.444 | 102       | 240       | 82         | 215       | 65         |
| 160       | 110        | <b>193 135 040</b> | 1  | 4  | 1.523 | 108       | 240       | 88         | 215       | 86         |
| 160       | 125        | <b>193 135 041</b> | 1  | 4  | 1.738 | 129       | 240       | 99         | 215       | 86         |
| 180       | 90         | <b>193 135 049</b> | 1  | 1  | 1.714 | 102       | 260       | 82         | 237       | 65         |
| 180       | 110        | <b>193 135 050</b> | 1  | 1  | 1.782 | 108       | 260       | 88         | 237       | 86         |
| 180       | 125        | <b>193 135 051</b> | 1  | 1  | 1.972 | 129       | 260       | 99         | 237       | 86         |
| 200       | 90         | <b>193 135 059</b> | 1  | 1  | 1.811 | 102       | 260       | 82         | 253       | 65         |
| 200       | 110        | <b>193 135 060</b> | 1  | 1  | 1.879 | 108       | 260       | 88         | 253       | 86         |
| 200       | 125        | <b>193 135 061</b> | 1  | 1  | 2.069 | 129       | 260       | 99         | 253       | 86         |
| 225       | 90         | <b>193 135 069</b> | 1  | 1  | 1.959 | 102       | 260       | 82         | 287       | 65         |
| 225       | 110        | <b>193 135 070</b> | 1  | 1  | 2.027 | 108       | 260       | 88         | 287       | 86         |
| 225       | 125        | <b>193 135 071</b> | 1  | 1  | 2.217 | 129       | 260       | 99         | 287       | 86         |
| 250       | 90         | <b>193 135 079</b> | 1  | 1  | 2.116 | 102       | 260       | 82         | 312       | 65         |
| 250       | 110        | <b>193 135 080</b> | 1  | 2  | 2.184 | 108       | 260       | 88         | 312       | 86         |
| 250       | 125        | <b>193 135 081</b> | 1  | 1  | 2.374 | 129       | 260       | 99         | 312       | 86         |

51 336 001



## Branch Fitting Topload

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP | kg    | H<br>[mm] | L<br>[mm] | L1<br>[mm] | B<br>[mm] | d2<br>[mm] |
|-----------|------------|--------------------|----|----|-------|-----------|-----------|------------|-----------|------------|
| 280       | 90         | <b>193 135 289</b> | 1  | 5  | 1.180 | 102       | 260       | 82         | 243       | 65         |
| 280       | 110        | <b>193 135 290</b> | 1  | 5  | 1.280 | 108       | 260       | 88         | 243       | 86         |
| 280       | 125        | <b>193 135 291</b> | 1  | 5  | 1.480 | 129       | 260       | 99         | 243       | 86         |
| 315 - 355 | 90         | <b>193 135 309</b> | 1  | 5  | 1.180 | 102       | 260       | 82         | 249       | 65         |
| 315 - 355 | 110        | <b>193 135 310</b> | 1  | 4  | 1.280 | 108       | 260       | 88         | 249       | 86         |
| 315 - 355 | 125        | <b>193 135 311</b> | 1  | 5  | 1.480 | 129       | 260       | 99         | 249       | 86         |
| 400 - 450 | 90         | <b>193 135 329</b> | 1  | 5  | 1.180 | 102       | 260       | 82         | 256       | 65         |
| 400 - 450 | 110        | <b>193 135 330</b> | 1  | 4  | 1.280 | 108       | 260       | 88         | 256       | 86         |
| 400 - 450 | 125        | <b>193 135 331</b> | 1  | 4  | 1.280 | 129       | 260       | 99         | 256       | 86         |
| 500 - 630 | 90         | <b>193 135 159</b> | 1  | 5  | 1.060 | 102       | 260       | 82         | 263       | 65         |
| 500 - 630 | 110        | <b>193 135 160</b> | 1  | 5  | 1.160 | 108       | 260       | 88         | 263       | 86         |
| 500 - 630 | 125        | <b>193 135 161</b> | 1  | 4  | 1.360 | 129       | 260       | 99         | 263       | 86         |



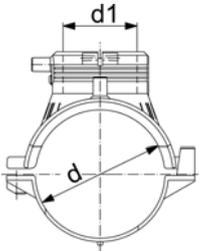
## Cross Connection Branch Fitting

- Enables the connection of two branch fittings as a cross
- Complete with screws, flat washers and nuts

| d<br>[mm] | d<br>[mm] | d1<br>[mm] | Code               | SP | kg    |  |
|-----------|-----------|------------|--------------------|----|-------|--|
| 110       |           | 160        | <b>193 280 880</b> | -  | 0.250 |  |
| 180       |           | 250        | <b>193 280 881</b> | -  | 0.250 |  |

# ELGEF Plus Saddles and Valves

53 131 000



L = length / Länge

## Electrofusion Saddle

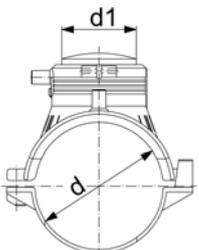
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- \*\*\*Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators

\*not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems

\*\* = not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems / delivery without lower part for assembling as Top load with tool 799.350.475

| d<br>[mm]    | d1<br>[mm] | Code               | SP | GP | kg    | L<br>[mm] |
|--------------|------------|--------------------|----|----|-------|-----------|
| 63           | 63         | <b>193 131 037</b> | 1  | 5  | 0.335 | 165       |
| 75           | 63         | <b>193 131 047</b> | 1  | 5  | 0.465 | 165       |
| 90           | 63         | <b>193 131 057</b> | 1  | 5  | 0.425 | 165       |
| 110          | 63         | <b>193 131 067</b> | 1  | 3  | 0.493 | 165       |
| *** 110      | 63         | <b>193 133 067</b> | 1  | 10 | 0.404 | 182       |
| 125          | 63         | <b>193 131 077</b> | 1  | 3  | 0.523 | 165       |
| 140          | 63         | <b>193 131 087</b> | 1  | 3  | 0.523 | 165       |
| 160          | 63         | <b>193 131 097</b> | 1  | 4  | 0.526 | 165       |
| *** 160      | 63         | <b>193 133 097</b> | 1  | 7  | 0.595 | 182       |
| 180          | 63         | <b>193 131 107</b> | 1  | 5  | 0.632 | 165       |
| 200          | 63         | <b>193 131 117</b> | 1  | 5  | 0.651 | 165       |
| 225          | 63         | <b>193 131 127</b> | 1  | 4  | 0.653 | 165       |
| * 250        | 63         | <b>193 131 137</b> | 1  | 4  | 0.665 | 165       |
| ** 280       | 63         | <b>193 131 147</b> | 1  | 8  | 0.370 | 165       |
| ** 315 - 400 | 63         | <b>193 131 157</b> | 1  | 8  | 0.370 | 165       |

53 130 000



L = length / Länge

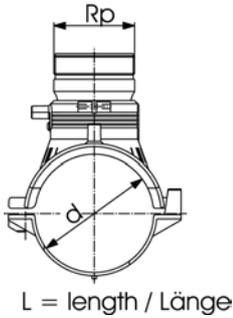
## Repair Saddle

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Spigot Cap (753.961.011)
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

| d<br>[mm]   | d1<br>[mm] | Code               | SP | GP | kg    | L<br>[mm] |
|-------------|------------|--------------------|----|----|-------|-----------|
| 63          | 63         | <b>193 130 037</b> | 1  | 5  | 0.433 | 165       |
| 75          | 63         | <b>193 130 047</b> | 3  | 3  | 0.574 | 165       |
| 90          | 63         | <b>193 130 057</b> | 1  | 5  | 0.538 | 165       |
| 110         | 63         | <b>193 130 067</b> | 1  | 3  | 0.592 | 165       |
| 125         | 63         | <b>193 130 077</b> | 1  | 3  | 0.622 | 165       |
| 140         | 63         | <b>193 130 087</b> | 1  | 3  | 0.660 | 165       |
| 160         | 63         | <b>193 130 097</b> | 1  | 3  | 0.627 | 165       |
| 180         | 63         | <b>193 130 107</b> | 1  | 5  | 0.733 | 165       |
| 200         | 63         | <b>193 130 117</b> | 1  | 5  | 0.751 | 165       |
| 225         | 63         | <b>193 130 127</b> | 1  | 5  | 0.768 | 165       |
| 250         | 63         | <b>193 130 137</b> | 1  | 3  | 0.758 | 165       |
| * 280       | 63         | <b>193 130 147</b> | 6  | 6  | 0.450 | 165       |
| * 315 - 400 | 63         | <b>193 130 157</b> | 1  | 6  | 0.450 | 165       |

53 149 000

## Stop-Off Saddle (Kit) maximum passage 56 mm

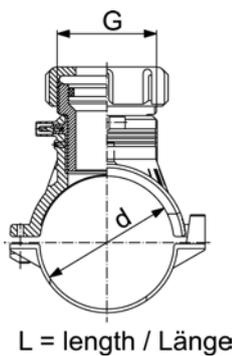


- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- Stop-Off insert (brass 58) and plug
- 4 mm pin connectors
- Limited path fusion indicators
- Stop-Off insert with outside thread Rp 2 1/2" and internal thread Rp 2" suited for common tapping devices permitting "gas-tight" installation
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required
- For main dimension d63 and d75mm we recommend a maximum cutting diameter of d = 39mm

| d<br>[mm]   | Rp<br>[inch] | Code               | SP | GP | kg    | L<br>[mm] |
|-------------|--------------|--------------------|----|----|-------|-----------|
| 63          | 2 ½          | <b>193 149 437</b> | 3  | 3  | 1.744 | 165       |
| 75          | 2 ½          | <b>193 149 447</b> | 3  | 3  | 1.900 | 165       |
| 90          | 2 ½          | <b>193 149 457</b> | 3  | 3  | 1.865 | 165       |
| 110         | 2 ½          | <b>193 149 467</b> | 1  | 3  | 1.916 | 165       |
| 125         | 2 ½          | <b>193 149 477</b> | 1  | 3  | 1.945 | 165       |
| 140         | 2 ½          | <b>193 149 487</b> | 1  | 3  | 1.945 | 165       |
| 160         | 2 ½          | <b>193 149 497</b> | 1  | 5  | 1.954 | 165       |
| 180         | 2 ½          | <b>193 149 507</b> | 5  | 5  | 2.055 | 165       |
| 200         | 2 ½          | <b>193 149 517</b> | 5  | 5  | 2.074 | 165       |
| 225         | 2 ½          | <b>193 149 527</b> | 1  | 5  | 2.062 | 165       |
| 250         | 2 ½          | <b>193 149 537</b> | 1  | 5  | 2.080 | 165       |
| * 280       | 2 ½          | <b>193 149 547</b> | 1  | 5  | 1.550 | 165       |
| * 315 - 400 | 2 ½          | <b>193 149 557</b> | 1  | 5  | 1.550 | 165       |

53 149 200

## Stop-off Saddle with PE-Adaptor maximum passage 50 mm



- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- Supplied as Kit with PE-Stop-Off Adaptor
- PE Stop-Off insert (for use with by-pass unit 799150376)
- 4 mm pin connectors
- Limited path fusion indicators
- \*Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

| d<br>[mm]   | G<br>[inch] | Code               | SP | GP | kg    | L<br>[mm] |
|-------------|-------------|--------------------|----|----|-------|-----------|
| 63          | 2 ¾         | <b>193 149 237</b> | 1  | 5  | 0.630 | 165       |
| 75          | 2 ¾         | <b>193 149 247</b> | 1  | 5  | 0.765 | 165       |
| 90          | 2 ¾         | <b>193 149 257</b> | 1  | 5  | 0.734 | 165       |
| 110         | 2 ¾         | <b>193 149 267</b> | 1  | 5  | 0.782 | 165       |
| 125         | 2 ¾         | <b>193 149 277</b> | 1  | 5  | 0.820 | 165       |
| 140         | 2 ¾         | <b>193 149 287</b> | 1  | 3  | 0.820 | 165       |
| 160         | 2 ¾         | <b>193 149 297</b> | 1  | 5  | 0.816 | 165       |
| 180         | 2 ¾         | <b>193 149 307</b> | 1  | 5  | 0.920 | 165       |
| 200         | 2 ¾         | <b>193 149 317</b> | 1  | 5  | 0.944 | 165       |
| 225         | 2 ¾         | <b>193 149 327</b> | 1  | 5  | 0.943 | 165       |
| 250         | 2 ¾         | <b>193 149 337</b> | 1  | 5  | 0.950 | 165       |
| * 280       | 2 ¾         | <b>193 149 347</b> | 1  | 6  | 0.920 | 165       |
| * 315 - 400 | 2 ¾         | <b>193 149 357</b> | 1  | 5  | 0.920 | 165       |



# PROGEF Standard metric

|   |                                     | Page |
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|   | Pressure/temperature diagram for PP | 214  |
|    | PP pipes                            | 215  |
|    | Socket fusion fittings              | 216  |
|    | Adaptor fittings for socket fusion  | 221  |
|    | Adaptor fittings for butt fusion    | 223  |
|   | Butt Fusion Fittings                | 225  |
|  | Unions for socket fusion            | 231  |
|  | Adaptor unions                      | 232  |

## Pressure/temperature diagram for PP

### PROGEF Standard and Plus

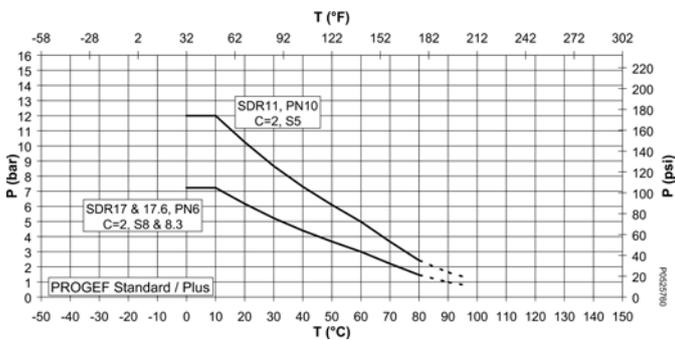
The following pressure/temperature diagrams for PP pipes and fittings are valid for a lifetime of 25 years.

The design factor of 2 recommended by GF is incorporated.

They can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

**Remark:** Please take into account the pressure/temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

### Pressure/temperature diagram for PP pipes and injection-moulded fittings



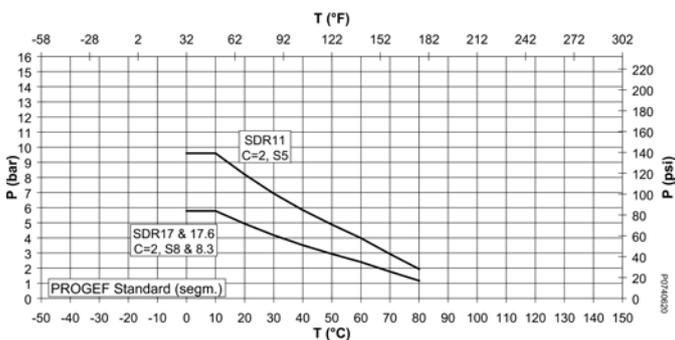
P Permissible pressure in bar, psi

T Temperature in °C, °F

In case of applications with temperatures in the range of the dotted lines please contact your GF representative.

### Pressure/temperature diagram for PP segment-welded fittings

Segment-welded fittings have a reduction factor of 0.8 on the allowable operating pressure:

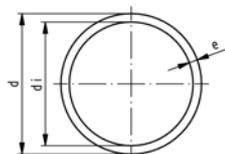


P Permissible pressure in bar, psi

T Temperature in °C, °F

# PP pipes

67 48 07



## PROGEF Standard pipe S5/SDR11 (PN10)

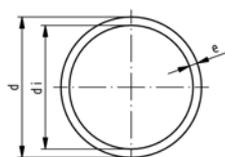
### Model:

- Material: PP-H
- Dimension: DIN 8077
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m

\* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1,9) ad 727 900 007 (25 x 2,3) must be used with socket fusion joints.

| d<br>[mm] | PN | Code               | kg/m   | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|--------|-----------|------------|
| * 16      | 10 | <b>167 480 710</b> | 0.080  | 1.8       | 12.4       |
| * 20      | 10 | <b>167 480 711</b> | 0.107  | 1.9       | 16.2       |
| * 25      | 10 | <b>167 480 712</b> | 0.164  | 2.3       | 20.4       |
| 32        | 10 | <b>167 480 713</b> | 0.261  | 2.9       | 26.2       |
| 40        | 10 | <b>167 480 714</b> | 0.412  | 3.7       | 32.6       |
| 50        | 10 | <b>167 480 715</b> | 0.638  | 4.6       | 40.8       |
| 63        | 10 | <b>167 480 716</b> | 1.010  | 5.8       | 51.4       |
| 75        | 10 | <b>167 480 717</b> | 1.410  | 6.8       | 61.4       |
| 90        | 10 | <b>167 480 718</b> | 2.030  | 8.2       | 73.6       |
| 110       | 10 | <b>167 480 719</b> | 3.010  | 10.0      | 90.0       |
| 125       | 10 | <b>167 480 720</b> | 3.910  | 11.4      | 102.2      |
| 140       | 10 | <b>167 480 721</b> | 4.870  | 12.7      | 114.6      |
| 160       | 10 | <b>167 480 722</b> | 6.380  | 14.6      | 130.8      |
| 180       | 10 | <b>167 480 723</b> | 8.070  | 16.4      | 147.2      |
| 200       | 10 | <b>167 480 724</b> | 9.950  | 18.2      | 163.6      |
| 225       | 10 | <b>167 480 725</b> | 12.600 | 20.5      | 184.0      |
| 250       | 10 | <b>167 480 726</b> | 15.500 | 22.7      | 224.6      |
| 280       | 10 | <b>167 480 727</b> | 19.400 | 25.4      | 229.2      |
| 315       | 10 | <b>167 480 728</b> | 24.600 | 28.6      | 257.8      |
| 355       | 10 | <b>167 480 729</b> | 31.200 | 32.2      | 290.6      |
| 400       | 10 | <b>167 480 730</b> | 39.600 | 36.3      | 327.4      |

67 48 10



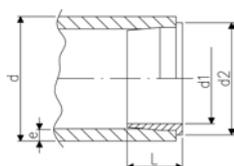
## PROGEF Standard pipe S3.2/SDR7.4 (PN16)

### Model:

- Material: Polypropylene (PP-H) DIN 8078
- Dimension: DIN 8077
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m
- for socket fusion without stiffeners

| d<br>[mm] | PN | Code               | kg/m  | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|-------|-----------|------------|
| 16        | 16 | <b>167 481 027</b> | 0.095 | 2.2       | 11.6       |
| 20        | 16 | <b>167 481 028</b> | 0.148 | 2.8       | 14.4       |
| 25        | 16 | <b>167 481 029</b> | 0.230 | 3.5       | 18.0       |

27 90 00



## PROGEF Standard stiffener

### Model:

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

| d<br>[mm] | e<br>[mm] | Code               | L<br>[mm] | d1<br>[mm] | d2<br>[mm] |
|-----------|-----------|--------------------|-----------|------------|------------|
| 20        | 1,9       | <b>727 900 006</b> | 10        | 14         | 18         |
| 25        | 2,3       | <b>727 900 007</b> | 11        | 18         | 23         |

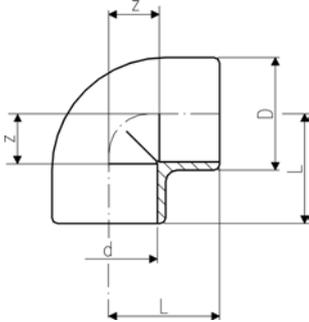
# Socket fusion fittings

27 10 01

## PROGEF Standard elbow 90°

Model:

- Material: PP-H



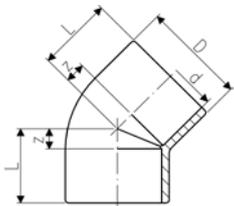
| d [mm] | PN | Code        | SP | GP  | kg    | D [mm] | L [mm] | z [mm] |
|--------|----|-------------|----|-----|-------|--------|--------|--------|
| 16     | 10 | 727 100 105 | 10 | 200 | 0.015 | 26     | 25     | 12     |
| 20     | 10 | 727 100 106 | 10 | 120 | 0.020 | 31     | 28     | 14     |
| 25     | 10 | 727 100 107 | 10 | 80  | 0.029 | 36     | 32     | 16     |
| 32     | 10 | 727 100 108 | 10 | 40  | 0.044 | 44     | 38     | 20     |
| 40     | 10 | 727 100 109 | 10 | 60  | 0.074 | 54     | 44     | 24     |
| 50     | 10 | 727 100 110 | 10 | 100 | 0.128 | 66     | 51     | 28     |
| 63     | 10 | 727 100 111 | 10 | -   | 0.230 | 82     | 62     | 35     |
| 75     | 10 | 727 100 112 | 5  | -   | 0.317 | 93     | 76     | 45     |
| 90     | 10 | 727 100 113 | 5  | -   | 0.512 | 110    | 88     | 53     |
| 110    | 10 | 727 100 114 | 4  | -   | 0.874 | 134    | 106    | 65     |

27 15 01

## PROGEF Standard elbow 45°

Model:

- Material: PP-H



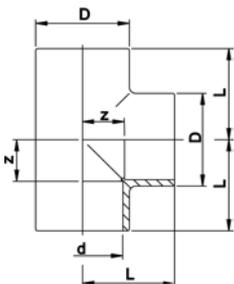
| d [mm] | PN | Code        | SP | GP  | kg    | D [mm] | L [mm] | z [mm] |
|--------|----|-------------|----|-----|-------|--------|--------|--------|
| 16     | 10 | 727 150 105 | 10 | 260 | 0.008 | 23     | 20     | 7      |
| 20     | 10 | 727 150 106 | 10 | 120 | 0.016 | 31     | 21     | 7      |
| 25     | 10 | 727 150 107 | 10 | 70  | 0.024 | 36     | 24     | 8      |
| 32     | 10 | 727 150 108 | 10 | 100 | 0.036 | 44     | 28     | 10     |
| 40     | 10 | 727 150 109 | 5  | 50  | 0.059 | 53     | 33     | 13     |
| 50     | 10 | 727 150 110 | 5  | 35  | 0.084 | 64     | 36     | 13     |
| 63     | 10 | 727 150 111 | 10 | -   | 0.185 | 82     | 43     | 16     |
| 75     | 10 | 727 150 112 | 5  | -   | 0.234 | 93     | 51     | 20     |
| 90     | 10 | 727 150 113 | 5  | -   | 0.405 | 114    | 58     | 23     |
| 110    | 10 | 727 150 114 | 5  | -   | 0.657 | 134    | 68     | 27     |

27 20 01

## PROGEF Standard tee 90° equal

Model:

- Material: PP-H

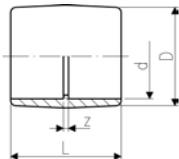


| d [mm] | PN | Code        | SP | GP  | kg    | D [mm] | L [mm] | z [mm] |
|--------|----|-------------|----|-----|-------|--------|--------|--------|
| 16     | 10 | 727 200 105 | 10 | 100 | 0.019 | 26     | 25     | 12     |
| 20     | 10 | 727 200 106 | 10 | 80  | 0.027 | 31     | 28     | 14     |
| 25     | 10 | 727 200 107 | 10 | 50  | 0.038 | 36     | 32     | 16     |
| 32     | 10 | 727 200 108 | 10 | 50  | 0.058 | 44     | 38     | 20     |
| 40     | 10 | 727 200 109 | 10 | 100 | 0.099 | 54     | 44     | 24     |
| 50     | 10 | 727 200 110 | 5  | 20  | 0.158 | 66     | 51     | 28     |
| 63     | 10 | 727 200 111 | 10 | -   | 0.288 | 82     | 62     | 35     |
| 75     | 10 | 727 200 112 | 5  | -   | 0.380 | 93     | 76     | 45     |
| 90     | 10 | 727 200 113 | 5  | -   | 0.739 | 114    | 88     | 53     |
| 110    | 10 | 727 200 114 | 5  | -   | 1.070 | 134    | 106    | 65     |

27 91 01

**PROGEF Standard socket equal****Model:**

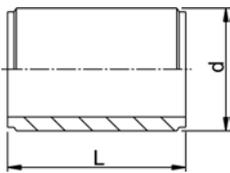
• Material: PP-H



| d<br>[mm] | PN | Code               | SP  | GP  | kg    | D<br>[mm] | L<br>[mm] | z<br>[mm] |  |
|-----------|----|--------------------|-----|-----|-------|-----------|-----------|-----------|--|
| 16        | 10 | <b>727 910 105</b> | 250 | -   | 0.010 | 26        | 33        | 7         |  |
| 20        | 10 | <b>727 910 106</b> | 10  | 200 | 0.013 | 31        | 35        | 7         |  |
| 25        | 10 | <b>727 910 107</b> | 10  | 120 | 0.019 | 36        | 39        | 7         |  |
| 32        | 10 | <b>727 910 108</b> | 10  | 100 | 0.026 | 44        | 43        | 7         |  |
| 40        | 10 | <b>727 910 109</b> | 10  | 100 | 0.042 | 54        | 48        | 8         |  |
| 50        | 10 | <b>727 910 110</b> | 10  | 60  | 0.075 | 66        | 54        | 8         |  |
| 63        | 10 | <b>727 910 111</b> | 5   | 20  | 0.129 | 82        | 62        | 8         |  |
| 75        | 10 | <b>727 910 112</b> | 10  | -   | 0.144 | 93        | 70        | 8         |  |
| 90        | 10 | <b>727 910 113</b> | 10  | -   | 0.257 | 112       | 81        | 11        |  |
| 110       | 10 | <b>727 910 114</b> | 5   | -   | 0.405 | 134       | 96        | 14        |  |

## 27 91 09

## PROGEF Standard barrel nipple



### Model:

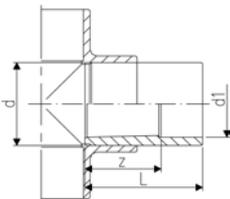
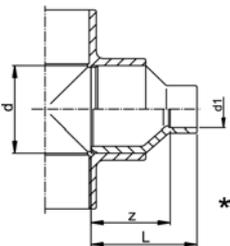
- Material: PP-H
- With fusion sockets on both sides
- For the shortest possible distance between fittings
- Overall length  $L = 2 \times$  fusion length

\* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1,9) ad 727 900 007 (25 x 2,3) must be used with socket fusion joints.

| d<br>[mm] | PN | Code               | SP | GP  | kg    | L<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|-----|-------|-----------|-----------|
| * 20      | 10 | <b>727 910 906</b> | 10 | 500 | 0.005 | 37        | 1.9       |
| * 25      | 10 | <b>727 910 907</b> | 10 | 200 | 0.006 | 41        | 2.3       |
| 32        | 10 | <b>727 910 908</b> | 10 | 100 | 0.010 | 45        | 2.9       |
| 40        | 10 | <b>727 910 909</b> | 10 | 100 | 0.017 | 50        | 3.7       |
| 50        | 10 | <b>727 910 910</b> | 10 | 100 | 0.029 | 55        | 4.6       |
| 63        | 10 | <b>727 910 911</b> | 5  | 50  | 0.058 | 64        | 5.8       |
| 75        | 10 | <b>727 910 912</b> | 5  | -   | 0.096 | 76        | 6.8       |
| 90        | 10 | <b>727 910 913</b> | 10 | -   | 0.167 | 90        | 8.2       |
| 110       | 10 | <b>727 910 914</b> | 2  | 10  | 0.305 | 108       | 10.0      |

## 27 91 03

## PROGEF Standard reducer



### Model:

- Material: PP-H

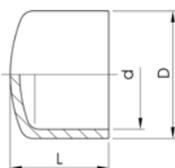
### Note:

\* Fusion spigot and socket

| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP  | kg    | L<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-----|-------|-----------|-----------|
| 20        | 16         | 10 | <b>727 910 334</b> | 10 | 250 | 0.009 | 35        | 22        |
| 25        | 16         | 10 | <b>727 910 338</b> | 10 | 180 | 0.010 | 38        | 25        |
| 25        | 20         | 10 | <b>727 910 337</b> | 10 | 180 | 0.014 | 37        | 23        |
| 32        | 20         | 10 | <b>727 910 342</b> | 10 | 140 | 0.016 | 43        | 29        |
| 32        | 25         | 10 | <b>727 910 341</b> | 10 | 100 | 0.020 | 43        | 27        |
| * 40      | 20         | 10 | <b>727 910 348</b> | 10 | 100 | 0.022 | 48        | 34        |
| * 40      | 25         | 10 | <b>727 910 347</b> | 10 | 100 | 0.026 | 48        | 32        |
| 40        | 32         | 10 | <b>727 910 346</b> | 10 | 100 | 0.031 | 48        | 30        |
| * 50      | 20         | 10 | <b>727 910 355</b> | 10 | 150 | 0.034 | 54        | 40        |
| * 50      | 25         | 10 | <b>727 910 354</b> | 10 | 100 | 0.035 | 54        | 38        |
| * 50      | 32         | 10 | <b>727 910 353</b> | 10 | 100 | 0.040 | 54        | 36        |
| 50        | 40         | 10 | <b>727 910 352</b> | 10 | 100 | 0.047 | 54        | 34        |
| * 63      | 25         | 10 | <b>727 910 361</b> | 5  | 60  | 0.058 | 64        | 46        |
| * 63      | 32         | 10 | <b>727 910 360</b> | 10 | 150 | 0.061 | 64        | 46        |
| * 63      | 40         | 10 | <b>727 910 359</b> | 5  | 60  | 0.068 | 64        | 44        |
| 63        | 50         | 10 | <b>727 910 358</b> | 5  | 50  | 0.082 | 64        | 41        |
| 75        | 63         | 10 | <b>727 910 364</b> | 10 | -   | 0.098 | 62        | 35        |
| * 90      | 63         | 10 | <b>727 910 371</b> | 10 | -   | 0.181 | 88        | 61        |
| 90        | 75         | 10 | <b>727 910 370</b> | 10 | -   | 0.134 | 70        | 39        |
| 110       | 90         | 10 | <b>727 910 376</b> | 5  | -   | 0.247 | 81        | 46        |

## 27 96 01

## PROGEF Standard end cap



### Model:

- Material: PP-H

| d<br>[mm] | PN | Code               | SP | GP  | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-----|-------|-----------|-----------|
| 16        | 10 | <b>727 960 105</b> | 10 | 400 | 0.006 | 25        | 20        |
| 20        | 10 | <b>727 960 106</b> | 10 | 240 | 0.010 | 30        | 27        |
| 25        | 10 | <b>727 960 107</b> | 10 | 150 | 0.015 | 36        | 30        |
| 32        | 10 | <b>727 960 108</b> | 10 | 100 | 0.024 | 44        | 34        |
| 40        | 10 | <b>727 960 109</b> | 10 | 100 | 0.036 | 53        | 38        |
| 50        | 10 | <b>727 960 110</b> | 10 | 80  | 0.061 | 65        | 44        |
| 63        | 10 | <b>727 960 111</b> | 5  | 50  | 0.098 | 80        | 51        |
| 75        | 10 | <b>727 960 112</b> | 10 | -   | 0.146 | 91        | 65        |
| 90        | 10 | <b>727 960 113</b> | 5  | -   | 0.273 | 111       | 77        |
| 110       | 10 | <b>727 960 114</b> | 5  | -   | 0.417 | 137       | 93        |

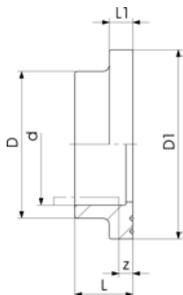
27 79 02

## PROGEF Standard flange adaptor Jointing face flat/serrated



### Model:

- Material: PP-H
- Counterpart: Flange Adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-1
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Flanges: PP with steel core, No. 27 70 02, PP-V, No. 27 70 04



| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | GP  | kg    | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|------------|-----------|
| 20        | 15         | 10 | <b>727 790 206</b> | 10 | 200 | 0.011 | 27        | 45         | 19        | 7          | 5         |
| 25        | 20         | 10 | <b>727 790 207</b> | 10 | 100 | 0.022 | 33        | 58         | 21        | 9          | 5         |
| 32        | 25         | 10 | <b>727 790 208</b> | 10 | 100 | 0.033 | 41        | 68         | 23        | 10         | 5         |
| 40        | 32         | 10 | <b>727 790 209</b> | 10 | 100 | 0.046 | 50        | 78         | 25        | 11         | 5         |
| 50        | 40         | 10 | <b>727 790 210</b> | 5  | 50  | 0.062 | 61        | 88         | 28        | 12         | 5         |
| 63        | 50         | 10 | <b>727 790 211</b> | 5  | 50  | 0.090 | 76        | 102        | 32        | 14         | 5         |
| 75        | 65         | 10 | <b>727 790 212</b> | 10 | -   | 0.163 | 90        | 122        | 36        | 16         | 5         |
| 90        | 80         | 10 | <b>727 790 213</b> | 10 | -   | 0.233 | 108       | 138        | 42        | 17         | 7         |
| 110       | 100        | 10 | <b>727 790 214</b> | 10 | -   | 0.319 | 131       | 158        | 48        | 18         | 7         |

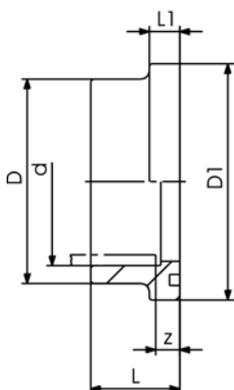
27 81 01

## PROGEF Standard flange adaptor Jointing face with o-ring groove



### Model:

- Material: PP-H
- Counterpart: Flange adaptor flat/serrated, No. 27 79 02
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01
- Flanges: PP with steel core, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04



| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | GP  | kg    | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|-----|-------|-----------|------------|-----------|------------|-----------|
| 20        | 15         | 10 | <b>727 810 106</b> | 10 | 300 | 0.007 | 27        | 34         | 22        | 9          | 8         |
| 25        | 20         | 10 | <b>727 810 107</b> | 10 | 180 | 0.012 | 33        | 41         | 24        | 10         | 8         |
| 32        | 25         | 10 | <b>727 810 108</b> | 10 | 120 | 0.018 | 41        | 50         | 26        | 10         | 8         |
| 40        | 32         | 10 | <b>727 810 109</b> | 10 | 120 | 0.027 | 50        | 61         | 30        | 13         | 10        |
| 50        | 40         | 10 | <b>727 810 110</b> | 10 | 90  | 0.040 | 61        | 73         | 33        | 13         | 10        |
| 63        | 50         | 10 | <b>727 810 111</b> | 5  | 50  | 0.070 | 76        | 90         | 37        | 14         | 10        |
| 75        | 65         | 10 | <b>727 810 112</b> | 10 | -   | 0.105 | 90        | 106        | 40        | 15         | 10        |
| 90        | 80         | 10 | <b>727 810 113</b> | 10 | -   | 0.170 | 108       | 125        | 47        | 16         | 12        |
| 110       | 100        | 10 | <b>727 810 114</b> | 2  | 10  | 0.263 | 131       | 150        | 55        | 18         | 13        |

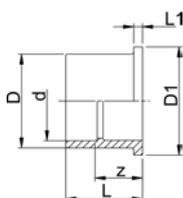
27 80 00

## PROGEF Standard outlet flange adaptor Jointing face flat



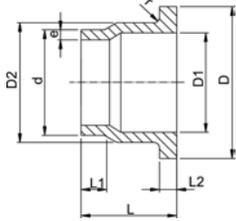
### Model:

- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04



| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|-----------|------------|-----------|
| 40        | 32         | 6  | <b>727 800 009</b> | -  | -  | 0.060 | 50        | 78         | 55        | 11         | 35        |
| 50        | 40         | 6  | <b>727 800 010</b> | -  | -  | 0.080 | 61        | 88         | 61        | 12         | 38        |
| 63        | 50         | 6  | <b>727 800 011</b> | -  | -  | 0.130 | 76        | 102        | 69        | 14         | 41        |
| 75        | 65         | 6  | <b>727 800 012</b> | -  | -  | 0.160 | 90        | 122        | 79        | 16         | 49        |
| 90        | 80         | 6  | <b>727 800 013</b> | -  | -  | 0.270 | 107       | 138        | 100       | 17         | 65        |
| 110       | 100        | 6  | <b>727 800 014</b> | -  | -  | 0.480 | 130       | 158        | 105       | 18         | 62        |

27 80 80

**PROGEF Standard outlet flange adaptor S5/SDR11****Model:**

- Material: PP-R
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369

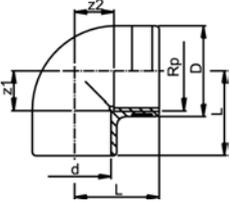
**Attention:**

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

| d<br>[mm] | DN<br>[mm] | Code               | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | r<br>[mm] |  |
|-----------|------------|--------------------|----|-------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|--|
| 40        | 32         | <b>727 808 034</b> | -  | 0.064 | 80        | 37         | 50         | 64        | 30         | 11         | 3,7       | 3         |  |
| 50        | 40         | <b>727 808 035</b> | -  | 0.088 | 90        | 43         | 61         | 67        | 30         | 12         | 4,6       | 3         |  |
| 63        | 50         | <b>727 808 036</b> | -  | 0.126 | 105       | 54         | 76         | 74        | 30         | 14         | 5,8       | 4         |  |
| 75        | 65         | <b>727 808 037</b> | -  | 0.187 | 125       | 70         | 90         | 78        | 30         | 16         | 6,8       | 4         |  |
| 90        | 80         | <b>727 808 038</b> | -  | 0.346 | 140       | 82         | 108        | 87        | 35         | 17         | 8,2       | 4         |  |
| 110       | 100        | <b>727 808 039</b> | -  | 0.500 | 160       | 105        | 131        | 102       | 41         | 18         | 10,0      | 4         |  |
| 140       | 125        | <b>727 808 041</b> | -  | 0.710 | 190       | 130        | 165        | 124       | 47         | 25         | 12,7      | 4         |  |
| 160       | 150        | <b>727 808 042</b> | -  | 0.910 | 215       | 158        | 188        | 149       | 52         | 25         | 14,6      | 4         |  |
| 225       | 200        | <b>727 808 045</b> | -  | 1.830 | 270       | 206        | 248        | 180       | 55         | 32         | 20,5      | 4         |  |
| 280       | 250        | <b>727 808 047</b> | -  | 3.550 | 325       | 259        | 308        | 240       | 63         | 35         | 25,4      | 4         |  |
| 315       | 300        | <b>727 808 048</b> | -  | 4.960 | 375       | 308        | 346        | 272       | 66         | 35         | 28,6      | 4         |  |

# Adaptor fittings for socket fusion

27 10 02



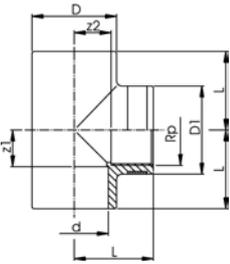
## PROGEF Standard elbow 90° metric Rp

### Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | D<br>[mm] | L<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|------------|------------|
| 20        | ½            | 10 | <b>727 100 206</b> | 10 | 120 | 0.022 | 30        | 28        | 14         | 14         |
| 25        | ¾            | 10 | <b>727 100 207</b> | 10 | 80  | 0.029 | 35        | 32        | 16         | 16         |
| 32        | 1            | 10 | <b>727 100 208</b> | 10 | 50  | 0.054 | 44        | 38        | 20         | 20         |
| 40        | 1 ¼          | 10 | <b>727 100 209</b> | 10 | 60  | 0.087 | 54        | 44        | 24         | 24         |

27 20 02



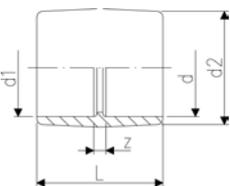
## PROGEF Standard tee 90° metric Rp

### Model:

- Material: PP-H
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | L<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-----------|------------|-----------|------------|------------|
| 20        | ½            | 10 | <b>727 200 206</b> | 10 | 90 | 0.030 | 31        | 30         | 28        | 14         | 14         |
| 25        | ¾            | 10 | <b>727 200 207</b> | 10 | 50 | 0.042 | 36        | 35         | 32        | 16         | 16         |
| 32        | 1            | 10 | <b>727 200 208</b> | 10 | 30 | 0.069 | 44        | 45         | 38        | 20         | 20         |
| 40        | 1 ¼          | 10 | <b>727 200 209</b> | 10 | 30 | 0.107 | 54        | 55         | 44        | 24         | 24         |

27 91 30



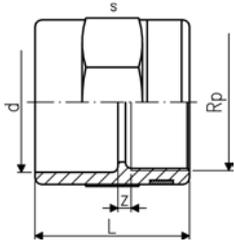
## PROGEF Standard adaptor socket Metric Inch BS

### Model:

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

| d<br>[mm] | PN | Code               | SP | GP | kg    | d2<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|----|--------------------|----|----|-------|------------|-----------|-----------|
| 20        | 10 | <b>727 913 006</b> | -  | -  | 0.013 | 31         | 35        | 7         |
| 25        | 10 | <b>727 913 007</b> | -  | -  | 0.010 | 36         | 39        | 7         |
| 32        | 10 | <b>727 913 008</b> | -  | -  | 0.025 | 44         | 43        | 7         |
| 40        | 10 | <b>727 913 009</b> | -  | -  | 0.040 | 54         | 48        | 8         |
| 50        | 10 | <b>727 913 010</b> | -  | -  | 0.100 | 66         | 54        | 8         |
| 63        | 10 | <b>727 913 011</b> | -  | -  | 0.130 | 82         | 62        | 8         |
| 90        | 10 | <b>727 913 013</b> | -  | -  | 0.260 | 112        | 81        | 10        |
| 110       | 10 | <b>727 913 014</b> | -  | -  | 0.389 | 134        | 96        | 12        |

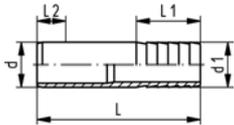
27 91 02

**PROGEF Standard adaptor socket metric Rp****Model:**

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | L<br>[mm] | s<br>[mm] | z<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 20        | 3/8          | 10 | <b>727 910 205</b> | 10 | 180 | 0.017 | 35        | 32        | 7         |
| 20        | 1/2          | 10 | <b>727 910 206</b> | 10 | 180 | 0.017 | 40        | 32        | 7         |
| 25        | 3/4          | 10 | <b>727 910 207</b> | 10 | 100 | 0.023 | 42        | 36        | 7         |
| 32        | 1            | 10 | <b>727 910 208</b> | 10 | 70  | 0.038 | 48        | 46        | 7         |
| 40        | 1 1/4        | 10 | <b>727 910 209</b> | 10 | 100 | 0.056 | 53        | 55        | 7         |
| 50        | 1 1/2        | 10 | <b>727 910 210</b> | 10 | 60  | 0.089 | 54        | 65        | 9         |
| 63        | 2            | 10 | <b>727 910 211</b> | 5  | 20  | 0.137 | 62        | 80        | 9         |

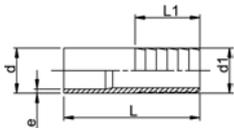
27 96 04

**PROGEF Standard hose connector metric****Model:**

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|------------|------------|
| 20        | 20         | 10 | <b>727 960 406</b> | 10 | -  | 0.009 | 78        | 27         | 14         |
| 25        | 25         | 10 | <b>727 960 407</b> | 10 | -  | 0.015 | 91        | 36         | 16         |
| 32        | 32         | 10 | <b>727 960 408</b> | 10 | -  | 0.026 | 100       | 36         | 18         |
| 40        | 40         | 10 | <b>727 960 409</b> | 10 | -  | 0.040 | 104       | 42         | 20         |
| 50        | 50         | 10 | <b>727 960 410</b> | 10 | -  | 0.061 | 90        | 48         | 23         |
| 63        | 60         | 10 | <b>727 960 411</b> | 5  | -  | 0.096 | 100       | 50         | 27         |

27 96 86

**PROGEF Standard hose connector metric****Model:**

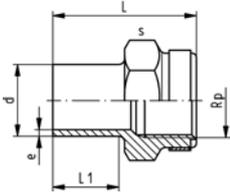
- Material: PP-H
- With butt fusion spigot **SDR11** and parallel hose connection

| d<br>[mm] | d1<br>[mm] | PN | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|------------|----|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | 20         | 10 | IR | <b>727 968 606</b> | 10 | -  | 0.008 | 64        | 27         | 1,9       |
| 25        | 25         | 10 | IR | <b>727 968 607</b> | 10 | -  | 0.012 | 75        | 36         | 2,3       |
| 32        | 32         | 10 | IR | <b>727 968 608</b> | 10 | -  | 0.022 | 82        | 36         | 2,9       |
| 40        | 40         | 10 | IR | <b>727 968 609</b> | 10 | -  | 0.030 | 84        | 42         | 3,7       |
| 50        | 50         | 10 | IR | <b>727 968 610</b> | 10 | -  | 0.060 | 90        | 48         | 4,6       |
| 63        | 60         | 10 | IR | <b>727 968 611</b> | 5  | -  | 0.095 | 100       | 50         | 5,8       |

# Adaptor fittings for butt fusion

27 91 02

## PROGEF Standard adaptor socket metric Rp



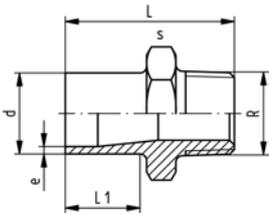
### Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|--------------|----|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | ½            | 10 | IR | <b>727 910 266</b> | 10 | 180 | 0.017 | 49        | 23         | 32        | 1,9       |
| 25        | ¾            | 10 | IR | <b>727 910 267</b> | 10 | 100 | 0.022 | 50        | 23         | 36        | 2,3       |
| 32        | 1            | 10 | IR | <b>727 910 268</b> | 10 | 100 | 0.038 | 54        | 23         | 46        | 2,9       |
| 40        | 1 ¼          | 10 | IR | <b>727 910 269</b> | 10 | 100 | 0.066 | 56        | 23         | 55        | 3,7       |
| 50        | 1 ½          | 10 | IR | <b>727 910 270</b> | 10 | 60  | 0.090 | 60        | 23         | 65        | 4,6       |
| 63        | 2            | 10 | IR | <b>727 910 271</b> | 5  | 20  | 0.140 | 62        | 23         | 80        | 5,8       |

27 91 05

## PROGEF Standard adaptor nipple metric R



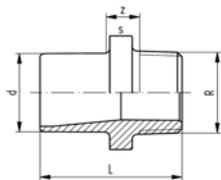
### Model:

- Material: PP-H
- With butt fusion spigot and BSP tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | FM | Code               | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | s<br>[mm] | e<br>[mm] |
|-----------|-------------|----|----|--------------------|----|-----|-------|-----------|------------|-----------|-----------|
| 20        | ½           | 10 | IR | <b>727 910 556</b> | 10 | 150 | 0.013 | 51        | 23         | 32        | 1,9       |
| 25        | ¾           | 10 | IR | <b>727 910 557</b> | 10 | 100 | 0.026 | 52        | 23         | 36        | 2,3       |
| 32        | 1           | 10 | IR | <b>727 910 558</b> | 10 | 100 | 0.028 | 55        | 23         | 46        | 2,9       |
| 40        | 1 ¼         | 10 | IR | <b>727 910 559</b> | 10 | 50  | 0.041 | 58        | 23         | 55        | 3,7       |
| 50        | 1 ½         | 10 | IR | <b>727 910 560</b> | 10 | 60  | 0.062 | 60        | 23         | 65        | 4,6       |
| 63        | 2           | 10 | IR | <b>727 910 561</b> | 5  | -   | 0.096 | 67        | 26         | 80        | 5,8       |

27 91 05

## PROGEF Standard adaptor nipple metric R

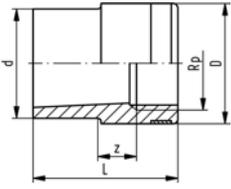


### Model:

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP  | kg    | L<br>[mm] | s<br>[mm] | z<br>[mm] |
|-----------|-------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 16        | ¾           | 10 | <b>727 910 505</b> | 10 | 230 | 0.008 | 37        | 27        | 13        |
| 20        | ½           | 10 | <b>727 910 506</b> | 10 | 160 | 0.012 | 42        | 32        | 13        |
| 25        | ¾           | 10 | <b>727 910 507</b> | 10 | 100 | 0.016 | 46        | 36        | 13        |
| 32        | 1           | 10 | <b>727 910 508</b> | 10 | 100 | 0.027 | 52        | 46        | 12        |
| 40        | 1 ¼         | 10 | <b>727 910 509</b> | 10 | 70  | 0.041 | 56        | 55        | 14        |
| 50        | 1 ½         | 10 | <b>727 910 510</b> | 10 | 60  | 0.062 | 60        | 65        | 15        |
| 63        | 2           | 10 | <b>727 910 511</b> | 5  | 60  | 0.100 | 69        | 80        | 16        |

27 91 04



## PROGEF Standard reducing bush metric Rp

### Model:

- Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | L<br>[mm] | z<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|
| 20        | ¾            | 10 | <b>727 910 433</b> | 10 | 300 | 0.008 | 36        | 7         |
| 20        | ⅝            | 10 | <b>727 910 434</b> | 10 | 300 | 0.011 | 36        | 7         |
| 25        | ½            | 10 | <b>727 910 437</b> | 10 | 170 | 0.015 | 45        | 6         |
| 32        | ¾            | 10 | <b>727 910 441</b> | 10 | 120 | 0.023 | 47        | 8         |
| 40        | 1            | 10 | <b>727 910 446</b> | 10 | 60  | 0.039 | 53        | 9         |
| 50        | 1 ¼          | 10 | <b>727 910 452</b> | 10 | 60  | 0.061 | 55        | 10        |

# Butt Fusion Fittings

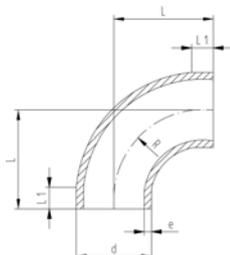
27 01 86

## PROGEF Standard bend 90° S5/SDR11

### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

<sup>1</sup> Material: PP-R



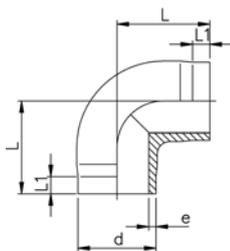
| d<br>[mm] | FM | Code        | SP | GP  | kg     | L<br>[mm] | L1<br>[mm] | R<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|-----|--------|-----------|------------|-----------|-----------|
| 20        | IR | 727 018 606 | 10 | 100 | 0.007  | 38        | 23         | 15        | 1.9       |
| 25        | IR | 727 018 607 | 10 | 100 | 0.012  | 42        | 23         | 19        | 2.3       |
| 32        | IR | 727 018 608 | 10 | 60  | 0.021  | 46        | 22         | 24        | 2.9       |
| 40        | IR | 727 018 609 | 40 | -   | 0.072  | 51        | 21         | 30        | 3.7       |
| 50        | IR | 727 018 610 | 10 | 50  | 0.063  | 58        | 21         | 37        | 4.6       |
| 63        | IR | 727 018 611 | 10 | 10  | 0.113  | 66        | 21         | 45        | 5.8       |
| 75        | IR | 727 018 612 | 10 | -   | 0.229  | 100       | 20         | 90        | 6.8       |
| 90        | IR | 727 018 613 | 4  | -   | 0.335  | 100       | 20         | 90        | 8.2       |
| 110       | IR | 727 018 614 | 4  | -   | 0.607  | 141       | 25         | 130       | 10.0      |
| 125       | IR | 727 018 490 | -  | -   | 0.790  | 140       | 15         | 125       | 11.4      |
| 140       | IR | 727 018 491 | -  | -   | 1.080  | 155       | 15         | 140       | 12.7      |
| 160       | IR | 727 018 492 | -  | -   | 1.600  | 175       | 15         | 160       | 14.6      |
| 180       | IR | 727 018 493 | -  | -   | 2.600  | 195       | 15         | 180       | 16.4      |
| 200       | IR | 727 018 494 | -  | -   | 3.130  | 215       | 15         | 200       | 18.2      |
| 225       | IR | 727 018 495 | 1  | -   | 4.230  | 262       | 20         | 225       | 20.5      |
| 250       | -- | 727 018 521 | 1  | -   | 6.450  | 256       | 48         | 232       | 22.7      |
| 280       | -- | 727 018 522 | 1  | -   | 9.500  | 286       | 48         | 262       | 25.4      |
| 315       | -- | 727 018 523 | 1  | -   | 12.800 | 321       | 48         | 297       | 28.6      |
| 355       | -- | 727 018 574 | 1  | -   | 19.400 | 380       | 15         | 355       | 32.2      |
| 400       | -- | 727 018 575 | 1  | -   | 28.500 | 435       | 25         | 400       | 36.3      |

27 10 85

## PROGEF Standard elbow 90° S5/SDR11

### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

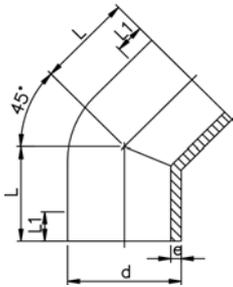


| d<br>[mm] | FM | Code        | SP | GP  | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|-----|-------|-----------|------------|-----------|
| 20        | IR | 727 108 506 | 10 | 100 | 0.007 | 38        | 25         | 1,9       |
| 25        | IR | 727 108 507 | 10 | 100 | 0.012 | 42        | 26         | 2,3       |
| 32        | IR | 727 108 508 | 10 | 60  | 0.022 | 46        | 27         | 2,9       |
| 40        | IR | 727 108 509 | 10 | 40  | 0.044 | 51        | 22         | 3,7       |
| 50        | IR | 727 108 510 | 10 | 50  | 0.077 | 58        | 23         | 4,6       |
| 63        | IR | 727 108 511 | 10 | -   | 0.138 | 66        | 21         | 5,8       |

27 15 85

**PROGEF Standard elbow 45° S5/SDR11****Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Long version for d250, d280 and d315

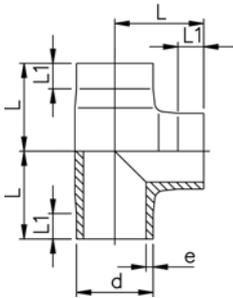
<sup>1</sup> Material: PP-R

| d<br>[mm] | FM | Code               | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|--------------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | <b>727 158 506</b> | 10 | -  | 0.006 | 32        | 24         | 1,9       |
| 25        | IR | <b>727 158 507</b> | 10 | 10 | 0.010 | 34        | 25         | 2,3       |
| 32        | IR | <b>727 158 508</b> | 10 | -  | 0.020 | 36        | 25         | 2,9       |
| 40        | IR | <b>727 158 509</b> | 10 | 50 | 0.037 | 39        | 25         | 3,7       |
| 50        | IR | <b>727 158 510</b> | 10 | 20 | 0.054 | 42        | 26         | 4,6       |
| 63        | IR | <b>727 158 511</b> | 10 | 10 | 0.097 | 47        | 29         | 5,8       |
| 75        | IR | <b>727 158 512</b> | 10 | -  | 0.135 | 49        | 29         | 6,8       |
| 90        | IR | <b>727 158 513</b> | 6  | -  | 0.224 | 57        | 34         | 8,2       |
| 110       | IR | <b>727 158 514</b> | 5  | -  | 0.415 | 70        | 43         | 10,0      |
| 125       | IR | <b>727 158 515</b> | 4  | -  | 0.607 | 79        | 48         | 11,4      |
| 140       | IR | <b>727 158 516</b> | 1  | -  | 0.860 | 88        | 55         | 12,7      |
| 160       | IR | <b>727 158 517</b> | 2  | -  | 1.260 | 100       | 60         | 14,6      |
| 200       | IR | <b>727 158 519</b> | 1  | -  | 2.460 | 124       | 75         | 18,2      |
| 225       | IR | <b>727 158 520</b> | 1  | -  | 3.400 | 140       | 85         | 20,5      |

27 20 85

**PROGEF Standard tee 90° equal S5/SDR11****Model:**

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

<sup>1</sup> Material: PP-R

| d<br>[mm]        | FM | Code               | SP | GP | kg     | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|------------------|----|--------------------|----|----|--------|-----------|------------|-----------|
| 20               | IR | <b>727 208 506</b> | 10 | -  | 0.011  | 38        | 24         | 1,9       |
| 25               | IR | <b>727 208 507</b> | 10 | -  | 0.018  | 42        | 26         | 2,3       |
| 32               | IR | <b>727 208 508</b> | 10 | -  | 0.030  | 46        | 26         | 2,9       |
| 40               | IR | <b>727 208 509</b> | 10 | 20 | 0.059  | 51        | 22         | 3,7       |
| 50               | IR | <b>727 208 510</b> | 10 | 10 | 0.103  | 58        | 22         | 4,6       |
| 63               | IR | <b>727 208 511</b> | 10 | -  | 0.200  | 66        | 21         | 5,8       |
| 75               | IR | <b>727 208 512</b> | 5  | -  | 0.300  | 75        | 20         | 6,8       |
| 90               | IR | <b>727 208 513</b> | 5  | -  | 0.530  | 90        | 20         | 8,2       |
| 110              | IR | <b>727 208 514</b> | 10 | -  | 0.950  | 110       | 20         | 10,0      |
| 125              | IR | <b>727 208 515</b> | 1  | -  | 1.400  | 125       | 25         | 11,4      |
| 140              | IR | <b>727 208 516</b> | 1  | -  | 1.980  | 140       | 28         | 12,7      |
| 160              | IR | <b>727 208 517</b> | 1  | -  | 2.900  | 160       | 28         | 14,6      |
| 180              | IR | <b>727 208 568</b> | 1  | -  | 4.430  | 194       | 74         | 16,4      |
| 200              | IR | <b>727 208 519</b> | 1  | -  | 5.570  | 200       | 35         | 18,2      |
| 225              | IR | <b>727 208 520</b> | 1  | 1  | 7.820  | 220       | 35         | 20,5      |
| 250              | -- | <b>727 208 571</b> | 1  | -  | 12.480 | 276       | 92         | 22,7      |
| 280              | -- | <b>727 208 572</b> | -  | -  | 17.250 | 318       | 110        | 25,4      |
| 315              | -- | <b>727 208 573</b> | -  | -  | 24.060 | 353       | 118        | 28,6      |
| <sup>1</sup> 355 | -- | <b>727 208 574</b> | -  | -  | 31.100 | 345       | 103        | 32,2      |
| <sup>1</sup> 400 | -- | <b>727 208 575</b> | -  | -  | 38.000 | 360       | 105        | 36,3      |

27 20 83

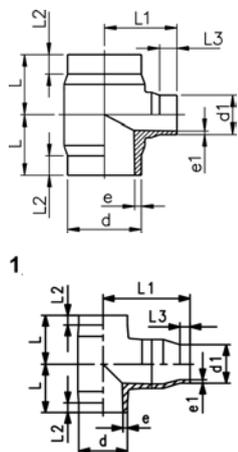
## PROGEF Standard tee 90° reduced S5/SDR11



### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

<sup>1</sup>Production process: segment welded



| d    | d1   | FM | Code               | SP | GP | kg    | L    | L1   | L2   | L3   | e    | e1   |
|------|------|----|--------------------|----|----|-------|------|------|------|------|------|------|
| [mm] | [mm] |    |                    |    |    |       | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] |
| 63   | 32   | IR | <b>727 208 351</b> | 10 | -  | 0.160 | 65   | 70   | 25   | 25   | 5,8  | 2,9  |
| 63   | 50   | IR | <b>727 208 352</b> | 10 | -  | 0.170 | 65   | 70   | 25   | 25   | 5,8  | 4,6  |
| 75   | 32   | IR | <b>727 208 353</b> | 5  | -  | 0.240 | 70   | 75   | 25   | 25   | 6,8  | 2,9  |
| 75   | 50   | IR | <b>727 208 354</b> | 5  | -  | 0.250 | 70   | 75   | 25   | 25   | 6,8  | 4,6  |
| 75   | 63   | IR | <b>727 208 355</b> | 5  | -  | 0.260 | 70   | 75   | 25   | 25   | 6,8  | 5,8  |
| 90   | 50   | IR | <b>727 208 357</b> | 5  | -  | 0.410 | 80   | 85   | 25   | 25   | 8,2  | 4,6  |
| 90   | 63   | IR | <b>727 208 358</b> | 5  | -  | 0.420 | 80   | 85   | 25   | 25   | 8,2  | 5,8  |
| 90   | 75   | IR | <b>727 208 359</b> | 5  | -  | 0.440 | 80   | 85   | 25   | 25   | 8,2  | 6,8  |
| 110  | 32   | IR | <b>727 208 360</b> | 5  | -  | 0.650 | 90   | 95   | 30   | 25   | 10   | 2,9  |
| 110  | 50   | IR | <b>727 208 361</b> | 5  | -  | 0.670 | 90   | 95   | 30   | 25   | 10,0 | 4,6  |
| 110  | 63   | IR | <b>727 208 362</b> | 5  | -  | 0.680 | 90   | 95   | 30   | 25   | 10,0 | 5,8  |
| 110  | 75   | IR | <b>727 208 363</b> | 5  | -  | 0.690 | 90   | 95   | 30   | 25   | 10,0 | 6,8  |
| 110  | 90   | IR | <b>727 208 364</b> | 5  | -  | 0.700 | 90   | 95   | 30   | 25   | 10,0 | 8,2  |
| 160  | 63   | IR | <b>727 208 371</b> | 1  | -  | 2.125 | 142  | 135  | 50   | 30   | 14,6 | 5,8  |
| 160  | 75   | IR | <b>727 208 372</b> | 1  | -  | 2.140 | 142  | 135  | 50   | 30   | 14,6 | 6,8  |
| 160  | 90   | IR | <b>727 208 373</b> | 1  | -  | 2.160 | 142  | 135  | 50   | 30   | 14,6 | 8,2  |
| 160  | 110  | IR | <b>727 208 374</b> | 1  | -  | 2.200 | 142  | 135  | 50   | 30   | 14,6 | 10,0 |
| 225  | 90   | IR | <b>727 208 388</b> | 1  | -  | 4.530 | 155  | 165  | 40   | 30   | 20,5 | 8,2  |
| 225  | 110  | IR | <b>727 208 389</b> | 1  | -  | 4.520 | 155  | 165  | 40   | 30   | 20,5 | 10,0 |
| 225  | 160  | IR | <b>727 208 391</b> | 1  | -  | 4.530 | 155  | 165  | 40   | 30   | 20,5 | 14,6 |

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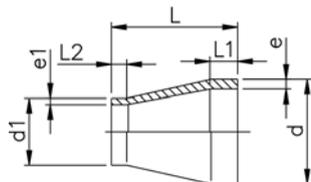
## PROGEF Standard reducer S5/SDR11



### Model:

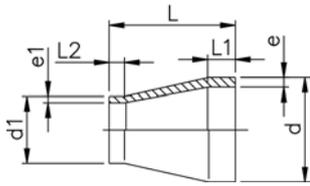
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

<sup>1</sup> Material: PP-R



| d    | d1   | FM | Code               | SP | GP  | kg    | L    | L1   | L2   | e    | e1   |
|------|------|----|--------------------|----|-----|-------|------|------|------|------|------|
| [mm] | [mm] |    |                    |    |     |       | [mm] | [mm] | [mm] | [mm] | [mm] |
| 25   | 20   | IR | <b>727 908 537</b> | 10 | 200 | 0.007 | 50   | 20   | 20   | 2,3  | 1,9  |
| 32   | 20   | IR | <b>727 908 542</b> | 10 | 140 | 0.010 | 50   | 20   | 20   | 2,9  | 1,9  |
| 32   | 25   | IR | <b>727 908 541</b> | 10 | 120 | 0.011 | 50   | 20   | 20   | 2,9  | 2,3  |
| 40   | 20   | IR | <b>727 908 548</b> | 10 | 80  | 0.015 | 58   | 20   | 23   | 3,7  | 1,9  |
| 40   | 25   | IR | <b>727 908 547</b> | 10 | 70  | 0.016 | 55   | 20   | 20   | 3,7  | 2,3  |
| 40   | 32   | IR | <b>727 908 546</b> | 10 | 60  | 0.019 | 55   | 20   | 20   | 3,7  | 2,9  |
| 50   | 25   | IR | <b>727 908 554</b> | 10 | 50  | 0.025 | 60   | 20   | 20   | 4,6  | 2,3  |
| 50   | 32   | IR | <b>727 908 553</b> | 10 | 40  | 0.027 | 60   | 20   | 20   | 4,6  | 2,9  |
| 50   | 40   | IR | <b>727 908 552</b> | 10 | 40  | 0.030 | 60   | 20   | 20   | 4,6  | 3,7  |
| 63   | 32   | IR | <b>727 908 560</b> | 10 | 30  | 0.043 | 65   | 20   | 20   | 5,8  | 2,9  |
| 63   | 40   | IR | <b>727 908 559</b> | 10 | 30  | 0.047 | 65   | 20   | 20   | 5,8  | 3,7  |
| 63   | 50   | IR | <b>727 908 558</b> | 10 | 30  | 0.052 | 65   | 20   | 20   | 5,8  | 4,6  |
| 75   | 40   | IR | <b>727 908 566</b> | 10 | 20  | 0.058 | 68   | 20   | 20   | 6,8  | 3,7  |
| 75   | 50   | IR | <b>727 908 565</b> | 10 | 20  | 0.065 | 65   | 20   | 20   | 6,8  | 4,6  |
| 75   | 63   | IR | <b>727 908 564</b> | 10 | 40  | 0.074 | 65   | 20   | 20   | 6,8  | 5,8  |
| 90   | 63   | IR | <b>727 908 571</b> | 10 | -   | 0.107 | 75   | 22   | 19   | 8,2  | 5,8  |
| 90   | 75   | IR | <b>727 908 570</b> | 12 | -   | 0.117 | 75   | 22   | 19   | 8,2  | 6,8  |
| 110  | 75   | IR | <b>727 908 577</b> | 8  | -   | 0.193 | 90   | 28   | 18   | 10,0 | 6,8  |
| 110  | 90   | IR | <b>727 908 576</b> | 10 | -   | 0.216 | 90   | 28   | 30   | 10,0 | 8,2  |
| 125  | 110  | IR | <b>727 908 580</b> | 12 | -   | 0.325 | 100  | 32   | 30   | 11,4 | 10,0 |
| 140  | 110  | IR | <b>727 908 585</b> | 2  | -   | 0.405 | 110  | 33   | 29   | 12,7 | 10,0 |
| 140  | 125  | IR | <b>727 908 584</b> | 8  | -   | 0.447 | 110  | 34   | 30   | 12,7 | 11,4 |
| 160  | 110  | IR | <b>727 908 590</b> | 6  | -   | 0.550 | 120  | 39   | 27   | 14,6 | 10,0 |
| 160  | 140  | IR | <b>727 908 588</b> | 2  | -   | 0.625 | 120  | 40   | 35   | 14,6 | 12,7 |
| 180  | 90   | IR | <b>727 908 978</b> | 2  | -   | 0.670 | 157  | 45   | 22   | 16,4 | 8,2  |
| 180  | 110  | IR | <b>727 908 977</b> | 2  | -   | 0.550 | 157  | 45   | 28   | 16,4 | 10,0 |
| 180  | 125  | IR | <b>727 908 976</b> | 2  | -   | 0.520 | 136  | 45   | 32   | 16,4 | 11,4 |
| 180  | 140  | IR | <b>727 908 975</b> | 2  | -   | 0.520 | 136  | 45   | 35   | 16,4 | 12,7 |

table continued next page



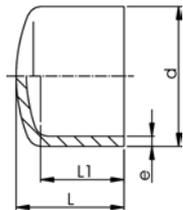
| d<br>[mm] | d1<br>[mm] | FM | Code        | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | e1<br>[mm] |
|-----------|------------|----|-------------|----|----|-------|-----------|------------|------------|-----------|------------|
| 180       | 160        | IR | 727 908 974 | 2  | -  | 0.530 | 136       | 45         | 35         | 16,4      | 14,6       |
| 200       | 160        | IR | 727 908 592 | 2  | -  | 1.120 | 145       | 50         | 40         | 18,2      | 14,6       |
| 200       | 180        | IR | 727 908 979 | 2  | -  | 0.710 | 151       | 50         | 45         | 18,2      | 16,4       |
| 225       | 110        | IR | 727 908 595 | 2  | -  | 1.330 | 160       | 55         | 35         | 20,5      | 10,0       |
| 225       | 160        | IR | 727 908 596 | 2  | -  | 1.470 | 160       | 55         | 40         | 20,5      | 14,6       |
| 225       | 180        | IR | 727 908 983 | 1  | -  | 0.941 | 171       | 55         | 45         | 20,5      | 16,4       |
| 225       | 200        | IR | 727 908 597 | 4  | -  | 1.650 | 160       | 55         | 50         | 20,5      | 18,2       |
| 250       | 160        | -- | 727 908 990 | 1  | 1  | 1.483 | 194       | 60         | 55         | 22,7      | 14,6       |
| 250       | 225        | -- | 727 908 987 | 1  | 1  | 1.041 | 182       | 60         | 55         | 22,7      | 20,5       |
| 280       | 225        | -- | 727 908 992 | 1  | 1  | 1.804 | 105       | 30         | 20         | 25,4      | 20,5       |
| 280       | 250        | -- | 727 908 991 | 1  | 1  | 1.311 | 70        | 30         | 18         | 25,4      | 22,7       |
| 315       | 225        | -- | 727 908 997 | 1  | 1  | 2.615 | 130       | 30         | 20         | 28,6      | 20,5       |
| 315       | 250        | -- | 727 908 996 | 1  | 1  | 3.500 | 100       | 30         | 20         | 28,6      | 22,7       |
| 315       | 280        | -- | 727 908 995 | 1  | -  | 1.590 | 63        | 30         | 18         | 28,6      | 25,4       |
| 355       | 250        | -- | 727 908 963 | 2  | -  | 4.400 | 245       | 90         | 60         | 32,3      | 22,7       |
| 355       | 280        | -- | 727 908 962 | 2  | -  | 4.100 | 245       | 90         | 70         | 32,2      | 25,4       |
| 355       | 315        | -- | 727 908 961 | -  | -  | 3.700 | 245       | 90         | 80         | 32,2      | 28,6       |
| 400       | 315        | -- | 727 908 966 | 2  | -  | 5.300 | 260       | 95         | 80         | 36,3      | 28,6       |
| 400       | 355        | -- | 727 908 965 | -  | -  | 4.800 | 260       | 95         | 90         | 36,3      | 32,2       |

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## PROGEF Standard end cap S5/SDR11

### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H



| d<br>[mm] | FM | Code        | SP | GP | kg    | L<br>[mm] | L1<br>[mm] | e<br>[mm] |
|-----------|----|-------------|----|----|-------|-----------|------------|-----------|
| 20        | IR | 727 968 931 | 50 | -  | 0.004 | 42        | 30         | 1,9       |
| 25        | IR | 727 968 932 | 10 | -  | 0.005 | 50        | 35         | 2,3       |
| 32        | IR | 727 968 933 | 30 | -  | 0.010 | 55        | 40         | 2,9       |
| 40        | IR | 727 968 934 | 8  | -  | 0.018 | 65        | 45         | 3,7       |
| 50        | IR | 727 968 935 | 8  | -  | 0.029 | 70        | 50         | 4,6       |
| 63        | IR | 727 968 936 | 5  | -  | 0.049 | 80        | 55         | 5,8       |
| 75        | IR | 727 968 937 | 5  | -  | 0.065 | 90        | 60         | 6,8       |
| 90        | IR | 727 968 938 | 3  | -  | 0.107 | 105       | 70         | 8,2       |
| 110       | IR | 727 968 939 | 2  | -  | 0.174 | 120       | 80         | 10,0      |
| 125       | IR | 727 968 940 | 1  | -  | 0.210 | 50        | 25         | 11,4      |
| 140       | IR | 727 968 941 | 1  | -  | 0.323 | 60        | 30         | 12,7      |
| 160       | IR | 727 968 942 | 1  | -  | 0.570 | 76        | 40         | 14,6      |
| 180       | IR | 727 968 943 | -  | -  | 1.580 | 125       | 88         | 16,4      |
| 200       | IR | 727 968 944 | 1  | -  | 1.060 | 100       | 50         | 18,2      |
| 225       | IR | 727 968 945 | 1  | -  | 1.710 | 103       | 60         | 20,5      |

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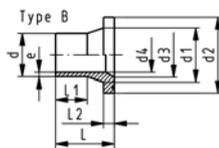
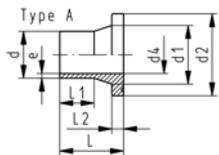
## PROGEF Standard flange adaptor S5/SDR11 Combined jointing face: flat and serrated

### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg     |
|-----------|------------|----|--------------------|----|----|--------|
| 20        | 15         | IR | <b>727 798 706</b> | 10 | 10 | 0.015  |
| 25        | 20         | IR | <b>727 798 707</b> | 10 | 10 | 0.028  |
| 32        | 25         | IR | <b>727 798 708</b> | 10 | 10 | 0.042  |
| 40        | 32         | IR | <b>727 798 709</b> | 10 | 3  | 0.064  |
| 50        | 40         | IR | <b>727 798 710</b> | 20 | -  | 0.088  |
| 63        | 50         | IR | <b>727 798 711</b> | 10 | -  | 0.144  |
| * 75      | 65         | IR | <b>727 798 712</b> | 10 | -  | 0.243  |
| * 90      | 80         | IR | <b>727 798 713</b> | 12 | -  | 0.326  |
| * 110     | 100        | IR | <b>727 798 714</b> | 8  | -  | 0.441  |
| * 125     | 100        | IR | <b>727 798 715</b> | 8  | -  | 0.520  |
| * 140     | 125        | IR | <b>727 798 716</b> | 10 | -  | 0.800  |
| * 160     | 150        | IR | <b>727 798 717</b> | 4  | -  | 0.920  |
| * 180     | 150        | IR | <b>727 798 718</b> | 2  | -  | 0.900  |
| * 200     | 200        | IR | <b>727 798 719</b> | 2  | -  | 1.670  |
| * 225     | 200        | IR | <b>727 798 720</b> | 2  | -  | 1.700  |
| * 250     | 250        |    | <b>727 798 721</b> | 1  | 1  | 2.790  |
| * 280     | 250        |    | <b>727 798 722</b> | 1  | 1  | 2.610  |
| * 315     | 300        |    | <b>727 798 723</b> | 1  | 1  | 3.410  |
| * 355     | 350        |    | <b>727 798 724</b> | 4  | -  | 5.600  |
| * 400     | 400        |    | <b>727 798 725</b> | 2  | 1  | 8.300  |
| * 450     | 500        |    | <b>727 798 726</b> | -  | -  | 13.000 |
| * 500     | 500        |    | <b>727 798 727</b> | -  | -  | 13.000 |



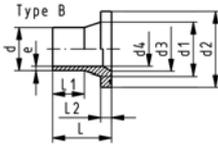
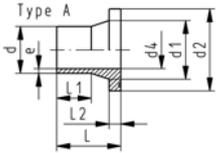
| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | 26         | 45         |            | 16         | 50        | 29         | 7          | 1.9       |
| 25        | 20         | 32         | 58         |            | 20         | 52        | 27         | 9          | 2.3       |
| 32        | 25         | 40         | 68         |            | 26         | 54        | 28         | 10         | 2.9       |
| 40        | 32         | 49         | 78         |            | 32         | 56        | 25         | 11         | 3.7       |
| 50        | 40         | 60         | 88         |            | 40         | 62        | 32         | 12         | 4.6       |
| 63        | 50         | 75         | 102        |            | 51         | 68        | 38         | 14         | 5.8       |
| * 75      | 65         | 89         | 122        | 66         | 61         | 80        | 43         | 16         | 6.9       |
| * 90      | 80         | 105        | 138        | 78         | 73         | 80        | 41         | 17         | 8.2       |
| * 110     | 100        | 125        | 158        | 100        | 90         | 80        | 40         | 18         | 10.0      |
| * 125     | 100        | 132        | 158        | 114        | 102        | 82        | 35         | 25         | 11.4      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 89        | 39         | 25         | 12.8      |
| * 160     | 150        | 175        | 212        | 151        | 131        | 92        | 45         | 25         | 14.6      |
| * 180     | 150        | 180        | 212        | 154        | 147        | 80        | 45         | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 100       | 30         | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 100       | 35         | 32         | 20.5      |
| * 250     | 250        | 285        | 320        | 250        | 204        | 100       | 25         | 35         | 22.7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 100       | 35         | 35         | 25.4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 100       | 25         | 35         | 28.6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 180       | 40         | 40         | 32.2      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 187       | 46         | 46         | 36.3      |
| * 450     | 500        | 514        | 585        | 400        | 368        | 141       | 64         | 60         | 40.9      |
| * 500     | 500        | 530        | 587        | 440        | 409        | 138       | 62         | 61         | 45.4      |

# PROGEF Standard flange adaptor S5/SDR11 Combined jointing face: flat and serrated

## Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to **ANSI/ASME B 16.5**
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

## \* Type B with chamfer



| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    |
|-----------|------------|----|--------------------|----|----|-------|
| 20        | 15         | IR | <b>727 798 706</b> | 10 | 10 | 0.015 |
| 25        | 20         | IR | <b>727 798 757</b> | 10 | 10 | 0.025 |
| 32        | 25         | IR | <b>727 798 758</b> | 10 | 10 | 0.039 |
| 40        | 32         | IR | <b>727 798 759</b> | 10 | 10 | 0.058 |
| 50        | 40         | IR | <b>727 798 760</b> | 10 | -  | 0.082 |
| 63        | 50         | IR | <b>727 798 711</b> | 10 | -  | 0.144 |
| * 75      | 65         | IR | <b>727 798 712</b> | 10 | -  | 0.243 |
| * 90      | 80         | IR | <b>727 798 763</b> | 12 | -  | 0.297 |
| * 110     | 100        | IR | <b>727 798 714</b> | 8  | -  | 0.441 |
| * 125     | 100        | IR | <b>727 798 715</b> | 8  | -  | 0.520 |
| * 140     | 125        | IR | <b>727 798 716</b> | 10 | -  | 0.800 |
| * 160     | 150        | IR | <b>727 798 717</b> | 4  | -  | 0.920 |
| * 180     | 150        | IR | <b>727 798 718</b> | 2  | -  | 0.900 |
| * 200     | 200        | IR | <b>727 798 719</b> | 2  | -  | 1.670 |
| * 225     | 200        | IR | <b>727 798 720</b> | 2  | -  | 1.700 |
| * 250     | 250        |    | <b>727 798 721</b> | 1  | 1  | 2.790 |
| * 280     | 250        |    | <b>727 798 722</b> | 1  | 1  | 2.610 |
| * 315     | 300        |    | <b>727 798 723</b> | 1  | 1  | 3.410 |
| * 355     | 350        |    | <b>727 798 724</b> | 4  | -  | 5.600 |
| * 400     | 400        |    | <b>727 798 725</b> | 2  | 1  | 8.300 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 20        | 15         | 26         | 45         |            | 16         | 50        | 29         | 7          | 1.9       |
| 25        | 20         | 33         | 54         |            | 20         | 52        | 41         | 9          | 2.3       |
| 32        | 25         | 40         | 63         |            | 26         | 54        | 44         | 10         | 3.0       |
| 40        | 32         | 50         | 73         |            | 32         | 56        | 49         | 11         | 3.7       |
| 50        | 40         | 61         | 82         |            | 40         | 62        | 55         | 12         | 4.6       |
| 63        | 50         | 75         | 102        |            | 51         | 68        | 38         | 14         | 5.8       |
| * 75      | 65         | 89         | 122        | 66         | 61         | 80        | 43         | 16         | 6.9       |
| * 90      | 80         | 105        | 133        | 78         | 73         | 80        | 85         | 17         | 8.2       |
| * 110     | 100        | 125        | 158        | 100        | 90         | 80        | 40         | 18         | 10.0      |
| * 125     | 100        | 132        | 158        | 114        | 102        | 82        | 35         | 25         | 11.4      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 89        | 39         | 25         | 12.8      |
| * 160     | 150        | 175        | 212        | 151        | 131        | 92        | 45         | 25         | 14.6      |
| * 180     | 150        | 180        | 212        | 154        | 147        | 80        | 45         | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 100       | 30         | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 100       | 35         | 32         | 20.5      |
| * 250     | 250        | 285        | 320        | 250        | 204        | 100       | 25         | 35         | 22.7      |
| * 280     | 250        | 291        | 320        | 265        | 229        | 100       | 35         | 35         | 25.4      |
| * 315     | 300        | 335        | 370        | 300        | 257        | 100       | 25         | 35         | 28.6      |
| * 355     | 350        | 373        | 430        | 340        | 290        | 180       | 40         | 40         | 32.2      |
| * 400     | 400        | 427        | 482        | 385        | 327        | 187       | 46         | 46         | 36.3      |

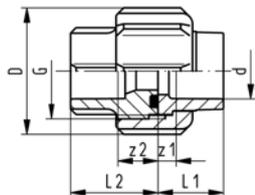
# Unions for socket fusion

EPDM 27 51 01  
FPM 27 52 01

## PROGEF Standard union metric

### Model:

- Material: PP-H
- Fusion socket metric
- D75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

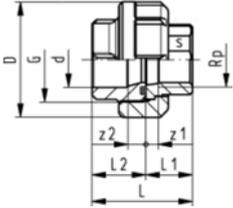


| d<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | SP | GP  | kg    |
|-----------|----|--------------------|--------------------|----|-----|-------|
| 16        | 10 | <b>727 510 155</b> | <b>727 520 155</b> | 10 | 100 | 0.020 |
| 20        | 10 | <b>727 510 156</b> | <b>727 520 156</b> | 10 | 100 | 0.038 |
| 25        | 10 | <b>727 510 157</b> | <b>727 520 157</b> | 10 | 100 | 0.062 |
| 32        | 10 | <b>727 510 158</b> | <b>727 520 158</b> | 10 | 50  | 0.079 |
| 40        | 10 | <b>727 510 159</b> | <b>727 520 159</b> | 10 | 100 | 0.137 |
| 50        | 10 | <b>727 510 160</b> | <b>727 520 160</b> | 10 | 50  | 0.180 |
| 63        | 10 | <b>727 510 161</b> | <b>727 520 161</b> | 5  | -   | 0.312 |
| 75        | 10 | <b>727 510 172</b> | <b>727 520 172</b> | -  | -   | 0.450 |
| 90        | 10 | <b>727 510 173</b> | <b>727 520 173</b> | -  | -   | 0.645 |
| 110       | 10 | <b>727 510 174</b> | <b>727 520 174</b> | -  | -   | 1.020 |

| d<br>[mm] | D<br>[mm] | G<br>[inch] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] | z1<br>[mm] |
|-----------|-----------|-------------|------------|------------|-----------|------------|
| 16        | 35        | 3/4         | 18         | 24         | 5         | 11         |
| 20        | 48        | 1           | 19         | 26         | 5         | 12         |
| 25        | 58        | 1 1/4       | 21         | 28         | 5         | 12         |
| 32        | 65        | 1 1/2       | 23         | 30         | 5         | 12         |
| 40        | 79        | 2           | 25         | 34         | 5         | 14         |
| 50        | 91        | 2 1/4       | 28         | 39         | 5         | 16         |
| 63        | 111       | 2 3/4       | 32         | 47         | 5         | 20         |
| 75        | 135       | S107,5x3,6  | 36         | 51         | 5         | 20         |
| 90        | 158       | S127,5x3,6  | 42         | 55         | 7         | 20         |
| 110       | 188       | S152,5x3,6  | 49         | 54         | 7         | 12         |

# Adaptor unions

27 55 05



## PROGEF Standard adaptor union PP-H/ brass Metric Rp



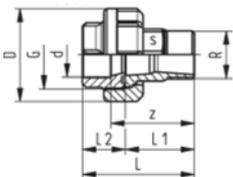
**Model:**

- Union Nut: PP-H
- Union Bush: fusion socket PP-H metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    |
|-----------|--------------|----|--------------------|----|-----|-------|
| 20        | 1/2          | 10 | <b>727 550 506</b> | 10 | 100 | 0.091 |
| 25        | 3/4          | 10 | <b>727 550 507</b> | 5  | 50  | 0.152 |
| 32        | 1            | 10 | <b>727 550 508</b> | 5  | 30  | 0.194 |
| 40        | 1 1/4        | 10 | <b>727 550 509</b> | 1  | 18  | 0.317 |
| 50        | 1 1/2        | 10 | <b>727 550 510</b> | 2  | 14  | 0.436 |
| 63        | 2            | 10 | <b>727 550 511</b> | 5  | -   | 0.774 |

| d<br>[mm] | Rp<br>[inch] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|--------------|-----------|-----------|------------|------------|------------|------------|-------------|-----------|
| 20        | 1/2          | 48        | 48        | 22         | 26         | 7          | 10         | 1           | 25        |
| 25        | 3/4          | 58        | 53        | 25         | 28         | 9          | 10         | 1 1/4       | 30        |
| 32        | 1            | 65        | 57        | 27         | 30         | 8          | 10         | 1 1/2       | 36        |
| 40        | 1 1/4        | 79        | 65        | 31         | 34         | 10         | 12         | 2           | 46        |
| 50        | 1 1/2        | 91        | 74        | 35         | 39         | 13         | 14         | 2 1/4       | 55        |
| 63        | 2            | 105       | 87        | 40         | 47         | 14         | 18         | 2 3/4       | 65        |

27 55 09



## PROGEF Standard adaptor union PP-H/ brass Metric R



**Model:**

- Union Nut: PP-H
- Union Bush: fusion socket PP-H metric
- Union End: Brass with taper male thread R
- Gasket: O-Ring EPDM No. 48 41 00

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP | kg    | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|-------------|----|--------------------|----|----|-------|-----------|-----------|------------|------------|-----------|-------------|-----------|
| 20        | 1/2         | 10 | <b>727 550 906</b> | 10 | 50 | 0.130 | 48        | 63        | 37         | 26         | 47        | 1           | 25        |
| 25        | 3/4         | 10 | <b>727 550 907</b> | 5  | 40 | 0.203 | 58        | 70        | 42         | 28         | 52        | 1 1/4       | 30        |
| 32        | 1           | 10 | <b>727 550 908</b> | 5  | 25 | 0.389 | 65        | 76        | 46         | 30         | 56        | 1 1/2       | 36        |
| 40        | 1 1/4       | 10 | <b>727 550 909</b> | 5  | 16 | 0.493 | 79        | 86        | 52         | 34         | 64        | 2           | 46        |
| 50        | 1 1/2       | 10 | <b>727 550 910</b> | 2  | 10 | 0.650 | 91        | 95        | 56         | 39         | 70        | 2 1/4       | 55        |
| 63        | 2           | 10 | <b>727 550 911</b> | 8  | -  | 1.123 | 105       | 114       | 67         | 47         | 85        | 2 3/4       | 65        |

# Tools PE 100 / PP-H

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# Program overview

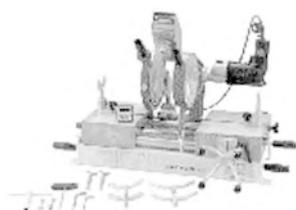
| Welding technique       | Types                       | Application range d |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|-------------------------|-----------------------------|---------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|                         |                             | 16                  | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 710 | 800 | 900 | 1000 | 1200 |
| Socket fusion           | MSE 63                      |                     |    |    |    |    |    | █  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | MSG 140                     |                     |    |    |    |    |    | █  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | MSE 110                     |                     |    |    |    |    |    |    |    |    | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | SG 110                      |                     |    | █  |    |    |    |    |    | █  |     |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | SG 160                      |                     |    |    |    |    |    |    |    |    | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| Butt fusion             | manual workshop             | SSE 120/200/300     | █  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | MC 110              |    |    | █  |    |    |    |    |    | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | WELD 160/250        |    |    |    |    | █  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | ASM 160             |    |    |    |    | █  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | SG 160              |    |    |    | █  |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | SG 315              |    |    |    |    |    |    | █  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | workshop                    | WM 315              |    |    |    |    |    |    | █  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | WM 500              |    |    |    |    |    |    |    |    |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | WM 63               |    |    |    |    |    |    |    |    |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | conventional/hydraulic site | TM 160 TOP          |    |    |    |    | █  |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | TM 250 TOP          |    |    |    |    |    |    | █  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | TM 315 TOP          |    |    |    |    |    |    |    |    | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         |                             | GF 500              |    |    |    |    |    |    |    |    |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| GF 630                  |                             |                     |    |    |    |    |    |    |    |    |     |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| GF 800                  |                             |                     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |      |      |
| GF 1000                 |                             |                     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |      |      |
| GF 1200                 |                             |                     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     | █   |     |     |     |     |     |     |     |     |     |      |      |
| New fusion technologies |                             | KRA 63/110/160      | █  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | KRT 250                     |                     |    |    |    |    |    |    |    |    | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| Plastic pipe cutters    | KS 355/1600                 |                     |    |    |    |    |    |    |    |    |     |     |     | █   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|                         | KRG 225/315                 |                     |    |    |    |    |    | █  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| Electro fusion tools    | BS 315/450/630              |                     |    |    |    |    |    | █  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |

\* Please ask your local GF sales contact for details

# Conventional Butt and Socket Fusion Machines

## SG160

for fusion jointing PP, PE and PVDF pipes and fittings size range for butt fusion d 32 - 160



Mobile, very compact and universal plastic fusion machine for use in the workshop and on job sites.

Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21.

Socket fusion d 16 - 110 mm

### Base machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices.

### Planer

- planing device made of light cast aluminium
- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends 620 W
- integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion

### Heater

- high-performance and precision heater with electronic temperature control 1500 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE fabric (Teflon)

### Additional standard equipment on the basic model

- V-shaped pipe supports d 16 - 160 mm for fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

| d-d<br>[mm] | Performance | Code               | kg     |
|-------------|-------------|--------------------|--------|
| 16 - 160    | 230 V       | <b>790 103 031</b> | 44.900 |
| 16 - 160    | 115 V       | <b>790 103 033</b> | 45.000 |

## Heating spigots and bushes



| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 16        | <b>790 101 086</b> | -  | -  | 0.310 |
| 20        | <b>790 101 087</b> | -  | -  | 0.315 |
| 25        | <b>790 101 088</b> | -  | -  | 0.313 |
| 32        | <b>790 101 089</b> | -  | -  | 0.316 |
| 40        | <b>790 101 090</b> | -  | -  | 0.329 |
| 50        | <b>790 101 091</b> | -  | -  | 0.475 |
| 63        | <b>790 101 092</b> | -  | -  | 0.858 |

table continued next page

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 75        | <b>790 101 093</b> | -  | -  | 1.157 |
| 90        | <b>790 101 094</b> | -  | -  | 1.697 |
| 110       | <b>790 101 095</b> | -  | -  | 2.200 |



## Special transport crate

| Code               | SP | GP | kg      |
|--------------------|----|----|---------|
| <b>790 103 099</b> | -  | -  | 108.000 |



## Base clamping plates

- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the maximum number of clamping devices.
- For welding of long pipes we recommend to use the outer left and outer right base clamping plates as well.
- L = left
- R = right

| d<br>[mm] | Type | Code               | SP | GP | kg    |
|-----------|------|--------------------|----|----|-------|
| 160       | L    | <b>790 103 010</b> | -  | -  | 2.503 |
| 160       | R    | <b>790 103 011</b> | -  | -  | 2.510 |



## Inserts, left/right

- For base clamping plate or bracket
- Left or right

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 32        | <b>790 103 019</b> | -  | -  | 0.315 |
| 40        | <b>790 103 020</b> | -  | -  | 0.310 |
| 50        | <b>790 103 021</b> | -  | -  | 0.302 |
| 63        | <b>790 103 022</b> | -  | -  | 0.277 |
| 75        | <b>790 103 023</b> | -  | -  | 0.250 |
| 90        | <b>790 103 024</b> | -  | -  | 0.224 |
| 110       | <b>790 103 025</b> | -  | -  | 0.178 |
| 125       | <b>790 103 026</b> | -  | -  | 0.132 |
| 140       | <b>790 103 027</b> | -  | -  | 0.079 |



## Clamping bracket, left/right

- For base clamping plate or bracket
- L = left
- R = right

\* Threaded clamping bracket, for mounting inserts d 32 - 140 mm. An additional insert must be used instead of clamping brackets d 32 - 140 mm, i.e. twice the number of inserts listed must be ordered.

| d<br>[mm] | Type | Code               | SP | GP | kg    |
|-----------|------|--------------------|----|----|-------|
| 32        | L    | <b>790 103 039</b> | -  | -  | 0.530 |
| 40        | L    | <b>790 103 040</b> | -  | -  | 0.530 |
| 50        | L    | <b>790 103 041</b> | -  | -  | 0.530 |
| 63        | L    | <b>790 103 042</b> | -  | -  | 0.530 |
| 75        | L    | <b>790 103 043</b> | -  | -  | 0.530 |
| 90        | L    | <b>790 103 044</b> | -  | -  | 0.580 |
| 110       | L    | <b>790 103 045</b> | -  | -  | 0.580 |
| 125       | L    | <b>790 103 046</b> | -  | -  | 0.606 |
| 140       | L    | <b>790 103 047</b> | -  | -  | 0.650 |
| * 160     | L    | <b>790 103 048</b> | -  | -  | 0.669 |

table continued next page

| d<br>[mm] | Type | Code               | SP | GP | kg    |
|-----------|------|--------------------|----|----|-------|
| 32        | R    | <b>790 103 059</b> | -  | -  | 0.530 |
| 40        | R    | <b>790 103 060</b> | -  | -  | 0.530 |
| 50        | R    | <b>790 103 061</b> | -  | -  | 0.530 |
| 63        | R    | <b>790 103 062</b> | -  | -  | 0.530 |
| 75        | R    | <b>790 103 063</b> | -  | -  | 0.530 |
| 90        | R    | <b>790 103 064</b> | -  | -  | 0.580 |
| 110       | R    | <b>790 103 065</b> | -  | -  | 0.590 |
| 125       | R    | <b>790 103 066</b> | -  | -  | 0.605 |
| 140       | R    | <b>790 103 067</b> | -  | -  | 0.530 |
| * 160     | R    | <b>790 103 068</b> | -  | -  | 0.650 |

## Prismatic clamping device



- Prismatic clamping device for pick up of clamping jaws for exact alignment of fusion components

- L = left
- R = right

\*Horizontal adjustable

| Type | Code               | SP | GP | kg    |
|------|--------------------|----|----|-------|
| L    | <b>790 103 080</b> | -  | -  | 6.112 |
| R    | <b>790 103 081</b> | -  | -  | 6.118 |

## Clamping jaws



| d              | Code               | SP | GP | kg    |
|----------------|--------------------|----|----|-------|
| 16-32 / 90-110 | <b>790 103 085</b> | -  | -  | 0.310 |
| 30-50 / 50-90  | <b>790 103 086</b> | -  | -  | 0.330 |

## Depth stop, complete



| Code               | SP | GP | kg    |
|--------------------|----|----|-------|
| <b>790 103 090</b> | -  | -  | 0.610 |

## Stiffener plate



| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 110       | <b>790 101 098</b> | -  | -  | 0.264 |

## Calibration tool



- For mechanical, standardised calibration of pipe ends in PE, PP and PVDF (to be used with planer)
- easy and time-saving removal of oxide film
- Consistent peeling quality over the entire pipe circumference

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 20        | <b>790 103 160</b> | -  | -  | 0.950 |
| 25        | <b>790 103 161</b> | -  | -  | 0.950 |
| 32        | <b>790 103 162</b> | -  | -  | 0.950 |
| 40        | <b>790 103 163</b> | -  | -  | 0.930 |
| 50        | <b>790 103 164</b> | -  | -  | 0.950 |
| 63        | <b>790 103 165</b> | -  | -  | 1.000 |

table continued next page

| d<br>[mm] | Code        | SP | GP | kg    |
|-----------|-------------|----|----|-------|
| 75        | 790 103 166 | -  | -  | 1.150 |
| 90        | 790 103 167 | -  | -  | 1.250 |
| 110       | 790 103 168 | -  | -  | 1.344 |

## SG 160 1 Set planer blades

| Code        | SP | GP | kg    |
|-------------|----|----|-------|
| 790 103 548 | -  | -  | 0.026 |



## Timer with 2 stop times

| Code        | SP | GP | kg    |
|-------------|----|----|-------|
| 790 114 028 | 1  | -  | 0.100 |



## SG 110 Socket fusion machine for fusion jointing of PP, PE, PB and PVDF pipes and fittings

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- Dimension d 20 - 110 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- **Heater**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **Additional standard equipment on the basic model**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- Depth stop
- V-shaped pipe support d 20 - 110 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times

| d-d<br>[mm] | Performance  | Code        | SP | GP | kg     |
|-------------|--------------|-------------|----|----|--------|
| 20 - 110    | 230 V/1200 W | 790 310 001 | -  | -  | 65.000 |
| 20 - 110    | 115 V/1200 W | 790 310 003 | -  | -  | 64.000 |



## Heating spigots and bushes

- Aluminium, PTFE coated
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)

| d<br>[mm] | Code        | SP | GP | kg    |
|-----------|-------------|----|----|-------|
| 20        | 799 300 156 | -  | -  | 0.080 |
| 25        | 799 300 157 | -  | -  | 0.110 |
| 32        | 799 300 158 | -  | -  | 0.140 |
| 40        | 799 300 159 | -  | -  | 0.230 |
| 50        | 799 300 160 | -  | -  | 0.335 |
| 63        | 799 300 161 | 1  | -  | 0.600 |
| 75        | 799 300 162 | -  | -  | 0.965 |
| 90        | 799 300 163 | -  | -  | 1.440 |
| 110       | 799 300 164 | -  | -  | 2.210 |



## Universal prismatic clamping device, complete

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 20 - 110    | <b>790 310 011</b> | -  | -  | 3.300 |



## Special transport crate

| Code               | SP | GP | kg     |
|--------------------|----|----|--------|
| <b>790 310 099</b> | -  | -  | 45.000 |



## Manual pipe peeling and chamfering tools

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 20        | <b>799 300 260</b> | -  | -  | 0.059 |
| 25        | <b>799 300 270</b> | -  | -  | 0.074 |
| 32        | <b>799 300 280</b> | -  | -  | 0.100 |
| 40        | <b>799 300 290</b> | -  | -  | 0.259 |
| 50        | <b>799 300 300</b> | -  | -  | 0.299 |
| 63        | <b>799 300 310</b> | -  | -  | 0.513 |
| 75        | <b>799 300 320</b> | -  | -  | 0.750 |
| 90        | <b>799 300 330</b> | -  | -  | 1.070 |
| 110       | <b>799 300 340</b> | -  | -  | 1.350 |

## Chamfering tool

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 40 - 200    | <b>790 309 001</b> | 1  | -  | 1.600 |
| 50 - 315    | <b>790 309 002</b> | 1  | -  | 3.170 |



## Backstop, complete

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 20 - 110    | <b>790 310 012</b> | -  | -  | 0.600 |



## V-shaped pipe support, complete

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 20 - 110    | <b>790 310 013</b> | -  | -  | 0.700 |



## Heating element

| d-d<br>[mm] | Performance  | description  | Code               | SP | GP | kg    |
|-------------|--------------|--------------|--------------------|----|----|-------|
| 20 - 110    | 230 V/1200 W | electronic   | <b>790 310 014</b> | -  | -  | 2.400 |
| 20 - 110    | 230 V/1200 W | thermostatic | <b>790 310 015</b> | -  | -  | 2.400 |
| 20 - 110    | 115 V/1200 W | electronic   | <b>790 310 016</b> | -  | -  | 2.400 |
| 20 - 110    | 115 V/1200 W | thermostatic | <b>790 310 017</b> | -  | -  | 2.400 |



## 1 set face chucks

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 20 - 110    | <b>790 310 018</b> | -  | -  | 1.100 |



## SG 315

### for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.

Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

#### Base machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- optional outer, horizontally removeable clamping devices available

#### Planer

- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

#### Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

#### Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

| d-d<br>[mm] | Performance | Code               | kg      |
|-------------|-------------|--------------------|---------|
| 90 - 315    | 230 V       | <b>790 130 001</b> | 128.000 |
| 90 - 315    | 115 V       | <b>790 130 002</b> | 128.000 |



## MSG 140/63 Socket fusion tool

- For the fusion jointing of PP, PE, PB and PVDF pipes and fittings size range d 16 - 63 mm
- device is equipped with on/off switch, mains control and control lamp for heating intervals
- Thermostatic temperature control
- support of heating spigots and bushes from d16 - 63 mm
- Pick up for floor stand or table clamp
- high quality PTFE non-stick coating with long service life
- monitoring and setting of heating element temperature according to DVS 2208
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating bushes and spigots diameter 16 - 63 mm
- Allen screws and key

| d-d<br>[mm] | Performance | Code               | kg     |
|-------------|-------------|--------------------|--------|
| 16 - 63     | 230 V/1400  | <b>799 350 015</b> | 11.700 |
| 16 - 63     | 115 V/1400  | <b>799 350 019</b> | 11.650 |



## Manual pipe peeling and chamfering tools

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 20        | <b>799 300 260</b> | -  | -  | 0.059 |
| 25        | <b>799 300 270</b> | -  | -  | 0.074 |
| 32        | <b>799 300 280</b> | -  | -  | 0.100 |
| 40        | <b>799 300 290</b> | -  | -  | 0.259 |
| 50        | <b>799 300 300</b> | -  | -  | 0.299 |
| 63        | <b>799 300 310</b> | -  | -  | 0.513 |
| 75        | <b>799 300 320</b> | -  | -  | 0.750 |
| 90        | <b>799 300 330</b> | -  | -  | 1.070 |
| 110       | <b>799 300 340</b> | -  | -  | 1.350 |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    |
|-------------|--------------------------|--------------------|-------|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |
| 110 - 160   | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |



## MSE 63/MSE 110 - Set - Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- Size range d 16-110 mm
- All devices are equipped with on/off switch, mains control and control lamp for heating intervals
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Allen screws and key
- T = thermostatic temperature control / E = electronic temperature control

| d-d<br>[mm] | Type      | Performance | Code               | SP | GP | kg     |
|-------------|-----------|-------------|--------------------|----|----|--------|
| 16 - 63     | MSE 63 T  | 230 V/800   | <b>790 105 085</b> | -  | -  | 8.600  |
| 16 - 63     | MSE 63 E  | 230 V/800   | <b>790 105 086</b> | -  | -  | 10.180 |
| 16 - 63     | MSE 63 T  | 115 V/800   | <b>790 105 098</b> | -  | -  | 8.600  |
| 16 - 63     | MSE 63 E  | 115 V/800   | <b>790 105 099</b> | -  | -  | 8.600  |
| 16 - 110    | MSE 110 T | 230 V/1500  | <b>790 105 087</b> | -  | -  | 17.700 |
| 16 - 110    | MSE 110 E | 230 V/1500  | <b>790 105 088</b> | -  | -  | 17.680 |
| 16 - 110    | MSE 110 T | 115 V/1500  | <b>790 105 128</b> | -  | -  | 14.880 |
| 16 - 110    | MSE 110 E | 115 V/1500  | <b>790 105 129</b> | -  | -  | 15.600 |

# TM 160 - 315 TOP Machines and Accessoires

## TM 160 - 250 - 315 TOP Machine complete



- High quality, flexible and user-friendly heating element Butt Fusion machine for fusion jointing PE, PP, PB and PVDF pipes and fittings on building sites and in trenches
- Scope of delivery includes: innovative TOP hydraulic unit, flexible base machine, powerful planer, WR 100, high performance heating element, storage case for the planer and heater
- Including transport packaging (wooden crate), without accessories and without reduction inserts

| Type       | d-d<br>[mm] | Performance | Code               | SP | GP | kg      |  |
|------------|-------------|-------------|--------------------|----|----|---------|--|
| TM 160 TOP | 40 - 160    | 230V/1900W  | <b>790 150 011</b> | 1  | -  | 125.000 |  |
| TM 250 TOP | 75 - 250    | 230V/3270W  | <b>790 151 011</b> | 1  | -  | 195.000 |  |
| TM 315 TOP | 90 - 315    | 230V/3870W  | <b>790 152 026</b> | 1  | -  | 210.000 |  |

## TM 160 TOP Accessoires

### Special clamping bracket tapered



- For clamping of fittings d 160 mm
- For left-sided mounting (stationary side) with shell adapter
- Version for right-sided mounting (slide)
- L = left
- R = right

| d<br>[mm] | Type | Code               | SP | GP | kg    |
|-----------|------|--------------------|----|----|-------|
| 160       | L    | <b>790 114 025</b> | -  | -  | 0.820 |
| 160       | R    | <b>790 114 026</b> | -  | -  | 0.680 |

### Reduction clamping inserts, wide



- d 40 - 140 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 40        | <b>790 114 023</b> | -  | -  | 0.300 |
| 50        | <b>790 114 009</b> | -  | -  | 0.320 |
| 63        | <b>790 114 010</b> | -  | -  | 0.300 |
| 75        | <b>790 114 011</b> | -  | -  | 0.300 |
| 90        | <b>790 114 012</b> | -  | -  | 0.280 |
| 110       | <b>790 114 013</b> | -  | -  | 0.245 |
| 125       | <b>790 114 014</b> | -  | -  | 0.265 |
| 140       | <b>790 114 015</b> | -  | -  | 0.180 |

### Reduction clamping inserts, narrow



- d 40 - 140 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 40        | <b>790 114 027</b> | -  | -  | 0.300 |
| 50        | <b>790 114 016</b> | -  | -  | 0.310 |
| 63        | <b>790 114 017</b> | -  | -  | 0.310 |
| 75        | <b>790 114 018</b> | -  | -  | 0.280 |
| 90        | <b>790 114 019</b> | -  | -  | 0.255 |
| 110       | <b>790 114 020</b> | -  | -  | 0.225 |
| 125       | <b>790 114 021</b> | -  | -  | 0.200 |
| 140       | <b>790 114 022</b> | -  | -  | 0.140 |

### Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension



| d-d<br>[mm] | Code               | SP | GP | kg     |
|-------------|--------------------|----|----|--------|
| 40 - 140    | <b>790 114 156</b> | -  | -  | 17.000 |

# TM 250 TOP Accessoires

## Flange adapter clamping unit



- For correct clamping and fusion jointing of short-ended fittings

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 75 - 250    | <b>790 115 045</b> | -  | -  | 9.600 |

## Reduction clamping inserts, wide



- d 75 - 225 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 75        | <b>790 115 028</b> | -  | -  | 0.815 |
| 90        | <b>790 115 008</b> | -  | -  | 0.835 |
| 110       | <b>790 115 009</b> | -  | -  | 0.825 |
| 125       | <b>790 115 010</b> | -  | -  | 0.785 |
| 140       | <b>790 115 011</b> | -  | -  | 0.735 |
| 160       | <b>790 115 012</b> | -  | -  | 0.695 |
| 180       | <b>790 115 013</b> | -  | -  | 0.660 |
| 200       | <b>790 115 014</b> | -  | -  | 0.715 |
| 225       | <b>790 115 015</b> | -  | -  | 0.465 |

## Reduction clamping inserts, narrow



- d 75 - 225 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 75        | <b>790 115 029</b> | -  | -  | 0.740 |
| 90        | <b>790 115 016</b> | -  | -  | 0.715 |
| 110       | <b>790 115 017</b> | -  | -  | 0.690 |
| 125       | <b>790 115 018</b> | -  | -  | 0.680 |
| 140       | <b>790 115 019</b> | -  | -  | 0.625 |
| 160       | <b>790 115 020</b> | -  | -  | 0.595 |
| 180       | <b>790 115 021</b> | -  | -  | 0.520 |
| 200       | <b>790 115 022</b> | -  | -  | 0.455 |
| 225       | <b>790 115 023</b> | -  | -  | 0.390 |

## Reduction clamping inserts-set



- 4 wide and 4 narrow clamping inserts of each dimension

| d-d<br>[mm] | Code               | SP | GP | kg     |
|-------------|--------------------|----|----|--------|
| 75 - 225    | <b>790 115 156</b> | -  | -  | 48.000 |

## Flange adapter clamping unit



- For correct clamping and fusion jointing of short-ended fittings

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 40 - 160    | <b>790 319 007</b> | -  | -  | 5.400 |



## Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended fittings

| d-d<br>[mm] | Code               | SP | GP | kg    |  |
|-------------|--------------------|----|----|-------|--|
| 75 - 250    | <b>790 115 044</b> | -  | -  | 7.900 |  |



## Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended fittings

| d-d<br>[mm] | Code               | SP | GP | kg     |  |
|-------------|--------------------|----|----|--------|--|
| 90 - 315    | <b>790 112 073</b> | -  | -  | 10.100 |  |

# TM 315 TOP Accessoires

## Reduction clamping inserts, wide



- d 90 - 280 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 90        | <b>790 112 088</b> | -  | -  | 1.000 |
| 110       | <b>790 112 089</b> | -  | -  | 1.050 |
| 125       | <b>790 112 090</b> | -  | -  | 0.988 |
| 140       | <b>790 112 091</b> | -  | -  | 0.975 |
| 160       | <b>790 112 092</b> | -  | -  | 1.062 |
| 180       | <b>790 112 093</b> | -  | -  | 0.988 |
| 200       | <b>790 112 094</b> | -  | -  | 0.937 |
| 225       | <b>790 112 095</b> | -  | -  | 0.975 |
| 250       | <b>790 112 096</b> | -  | -  | 0.937 |
| 280       | <b>790 112 097</b> | -  | -  | 0.800 |

## Reduction clamping inserts, narrow



- d 90 - 280 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

| d<br>[mm] | Code               | SP | GP | kg    |
|-----------|--------------------|----|----|-------|
| 90        | <b>790 112 098</b> | -  | -  | 0.995 |
| 110       | <b>790 112 099</b> | -  | -  | 1.285 |
| 125       | <b>790 112 100</b> | -  | -  | 1.245 |
| 140       | <b>790 112 101</b> | -  | -  | 1.205 |
| 160       | <b>790 112 102</b> | -  | -  | 1.135 |
| 180       | <b>790 112 103</b> | -  | -  | 1.010 |
| 200       | <b>790 112 104</b> | -  | -  | 0.950 |
| 225       | <b>790 112 105</b> | -  | -  | 0.865 |
| 250       | <b>790 112 106</b> | -  | -  | 0.770 |
| 280       | <b>790 112 107</b> | -  | -  | 0.560 |

## Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension



| d-d<br>[mm] | Code               | SP | GP | kg     |
|-------------|--------------------|----|----|--------|
| 90 - 280    | <b>790 112 156</b> | -  | -  | 78.000 |

# Tools and control units for electro fusion

## MSA Plus 250 EX Multi Automatic Electrofusion Unit



**NEW, environmental friendly manufactured electrofusion unit according EU directive 2002/95/EU (RoHS).**

Monovalent automatic electrofusion unit with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Inclusive transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

For PE  $\varnothing$  20-400, INSTAFLEX PB  $\varnothing$  125, 160, 225, Fuseal Sea Drain  $\varnothing$  1 1/2"-12".  
Only for GF products like ELGEF Plus.

### Technical Data

|                     |   |
|---------------------|---|
| Ambient temperature | -10 °C - +45 °C                             |
| Mains voltage       | 180 V - 264 V AC                            |
| Mains frequency     | 45Hz - 65 Hz                                |
| Fusion voltage      | 8 - 42 (48) V AC                            |
| Fusion current      | max. 80 A                                   |
| Power               | max. 3500 W                                 |
| Protection          | 1 / IP 65                                   |
| Mains cable         | 3 m   |
| Fusion cable        | 3 m   |
| Dimensions (WxHxD)  | 284 x 440 x 195 mm                          |
| Weight incl. cables | ca. 11,5 kg, light-weight aluminium housing |
| Display             | LED 1 x 4 N, 7 Segments                     |
| Size display (WxH)  | 50 x 18 mm                                  |
| Type size           | 14 mm                                       |
| Warranty            | 24 months                                   |

| Type                  | Code               | kg     | Description                     |
|-----------------------|--------------------|--------|---------------------------------|
| MSA Plus 250 EX Multi | <b>799 350 520</b> | 16.800 | barcode scanner, transport case |



## MSA Plus 300 Automatic Electrofusion Unit with USB interfaces

**NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).**

Automatic Electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions and configuration card.

To load software updates the USB memory stick (799 350 622) is required.

### Technical Data

|                     |  |
|---------------------|--|
| Ambient temperature | -10 °C to +45 °C   |
| Mains voltage       | 180 V - 264 V AC   |
| Mains frequency     | 45Hz - 65 Hz   |
| Fusion voltage      | 8 - 42 (48) V AC   |
| Fusion current      | max. 80 A  |
| Power               | max. 3500 W  |
| Protection          | 1 / IP 65  |
| Interfaces          | USB (type A) to load software updates<br>USB (type B) for PC communication   |
| Mains cable         | 3 m  |
| Fusion cable        | 3 m  |
| Dimensions (WxHxD)  | 284 x 440 x 195 mm   |
| Weight incl. cables | ca. 11,5 kg, light-weight aluminium housing  |
| Display             | LCD graphic, background light, contrast adjustment   |
| Size display (WxH)  | 132 x 39 mm  |
| Type size           | 8 mm   |
| Languages           | Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish |
| Warranty            | 24 months  |

| Type         | Code               | kg     | Description                        |
|--------------|--------------------|--------|------------------------------------|
| MSA Plus 300 | <b>799 350 560</b> | 16.800 | barcode reader pen, transport case |
| MSA Plus 300 | <b>799 350 561</b> | 16.800 | barcode scanner, transport case    |



## MSA Plus 400 Traceability Electrofusion Unit with USB interfaces

**NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).**

Professional Electrofusion unit for traceability of piping system components from raw material to completed Electrofusion joint (in accordance with ISO 12176). The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with compact flash memory card (exchangeable data carrier) and either a barcode reader pen or barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: 1 transport case, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

For printer or PC communication, the USB cable (799350619) is required.

### Technical Data

|                     |   |
|---------------------|---|
| Ambient temperature | -10 °C to +45 °C  |
| Mains voltage       | 180 V - 264 V AC  |
| Mains frequency     | 45Hz - 65 Hz  |
| Fusion voltage      | 8 - 42 (48) V AC  |
| Fusion current      | max. 80 A   |
| Power               | max. 3500 W   |
| Protection          | 1 / IP 65   |
| Interfaces          | USB (type A) for printer communication and to load software updates<br>USB (type B) for PC communication  |
| Mains cable         | 3 m   |
| Fusion cable        | 3 m   |
| Dimensions (WxHxD)  | 284 x 440 x 195 mm  |
| Weight incl. cables | ca. 11,5 kg, light-weight aluminium housing   |
| Display             | LCD graphic, background light, contrast adjustment  |
| Size display (WxH)  | 132 x 39 mm   |
| Type size           | 8 mm  |
| Languages           | Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysians, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish |
| Warranty            | 24 months   |

| Type         | Code               | kg     | Description                        |
|--------------|--------------------|--------|------------------------------------|
| MSA Plus 400 | <b>799 350 580</b> | 16.800 | barcode reader pen, transport case |
| MSA Plus 400 | <b>799 350 581</b> | 16.800 | barcode scanner, transport case    |



## Barcode Readers and Adapters Barcode Scanner MSA

- Robust, handy barcode scanner with a high reading performance made for the construction site. Quick, safe and professional!  
Compatible with MSA 500, MSA 3000, MSA 250-400 and MSA Plus 250-400 Electrofusion control units.

| Code               | GP | kg    | Description                                 |
|--------------------|----|-------|---|
| <b>799 350 419</b> | -  | 0.350 | Barcode scanner with pouch and instructions |



## Adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 210-230, MSA 250-400 and MSA Plus 250-400.

| Type   | Code               | kg    | Description          |
|--------|--------------------|-------|----------------------|
| 4,0 mm | <b>799 350 340</b> | 0.055 | Angle adapter, black |
| 4,7 mm | <b>799 350 341</b> | 0.055 | Angle adapter, grey  |
| 4,0 mm | <b>799 350 461</b> | 0.055 | Adapter, black       |
| 4,7 mm | <b>799 350 462</b> | 0.055 | Adapter, white       |



## Rotary Peeler RS

This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

### Features and your advantage:

**Spring loaded peeling blade:**Peeling quality independent of pipe ovality or tolerances

**Pivoted mounted peeling blade:**To compensate the shape of coiled pipe

**Optimized cutting geometry:**Defined chip thickness with cutting width overlap

**One tool per dimension:**Minimized swivel radius for peeling in narrow locations

**Peeling length:**No limitation of peeling length

**Guidance rolls:**3-point-support for dimensional optimized cutting feed

**Time saving:**Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

**Your advantage:**Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension

**Included:**1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

| Article | d<br>[mm] | Code               | kg    |
|---------|-----------|--------------------|-------|
| RS 40   | 40        | <b>790 136 001</b> | 2.096 |
| RS 50   | 50        | <b>790 136 002</b> | 1.250 |
| RS 63   | 63        | <b>790 136 003</b> | 2.038 |
| RS 75   | 75        | <b>790 136 004</b> | 1.450 |
| RS 90   | 90        | <b>790 136 005</b> | 1.450 |
| RS 110  | 110       | <b>790 136 006</b> | 1.450 |
| RS 125  | 125       | <b>790 136 007</b> | 1.650 |
| RS 140  | 140       | <b>790 136 008</b> | 1.650 |
| RS 160  | 160       | <b>790 136 009</b> | 1.650 |
| RS 180  | 180       | <b>790 136 010</b> | 1.850 |
| RS 200  | 200       | <b>790 136 011</b> | 1.850 |
| RS 225  | 225       | <b>790 136 012</b> | 1.850 |
| RS 250  | 250       | <b>790 136 013</b> | 2.150 |
| RS 280  | 280       | <b>790 136 014</b> | 2.150 |
| RS 315  | 315       | <b>790 136 015</b> | 2.150 |

9 301 475

## Double Clamp



- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.



| d-d<br>[mm] | Code               | kg     |  |
|-------------|--------------------|--------|--|
| 63 - 125    | <b>799 301 484</b> | 2.795  |  |
| 110 - 225   | <b>799 301 486</b> | 10.000 |  |
| 225 - 500   | <b>799 301 488</b> | 15.000 |  |

## Manual pipe peeling and chamfering tools



| d<br>[mm] | Code               | SP | GP | kg    |  |
|-----------|--------------------|----|----|-------|--|
| 20        | <b>799 300 260</b> | -  | -  | 0.059 |  |
| 25        | <b>799 300 270</b> | -  | -  | 0.074 |  |
| 32        | <b>799 300 280</b> | -  | -  | 0.100 |  |
| 40        | <b>799 300 290</b> | -  | -  | 0.259 |  |
| 50        | <b>799 300 300</b> | -  | -  | 0.299 |  |
| 63        | <b>799 300 310</b> | -  | -  | 0.513 |  |
| 75        | <b>799 300 320</b> | -  | -  | 0.750 |  |
| 90        | <b>799 300 330</b> | -  | -  | 1.070 |  |
| 110       | <b>799 300 340</b> | -  | -  | 1.350 |  |

9 300 725

## Peeling Tool PT 1 E



- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX.
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

| d-d<br>[mm] | Code               | SP | GP | kg    | Description       |  |
|-------------|--------------------|----|----|-------|-------------------|--|
| 20 - 90     | <b>799 150 382</b> | -  | -  | 3.400 | Basic Tool PT 1 E |  |

9 300 725

## Pipe Inserts for Peeling Tool PT 1 E



| d<br>[mm] | e<br>[mm] | Code               | kg    | Description        |  |
|-----------|-----------|--------------------|-------|--------------------|--|
| 20        | 1.9       | <b>799 300 739</b> | 0.220 | Pipe Insert SDR 11 |  |
| 20        | 3.0       | <b>799 300 741</b> | 0.220 | Pipe Insert SDR 7  |  |
| 25        | 2.3       | <b>799 300 740</b> | 0.230 | Pipe Insert SDR 11 |  |
| 25        | 3.0       | <b>799 300 742</b> | 0.230 | Pipe Insert SDR 9  |  |
| 32        | 3.0       | <b>799 300 743</b> | 0.230 | Pipe Insert SDR 11 |  |
| 40        | 3.7       | <b>799 300 744</b> | 0.230 | Pipe Insert SDR 11 |  |
| 50        | 4.6       | <b>799 300 745</b> | 0.350 | Pipe Insert SDR 11 |  |
| 63        | 3.8       | <b>799 300 725</b> | 0.475 | Pipe Insert SDR 17 |  |
| 63        | 5.8       | <b>799 300 746</b> | 0.475 | Pipe Insert SDR 11 |  |
| 75        | 4.5       | <b>799 300 727</b> | 0.601 | Pipe Insert SDR 17 |  |
| 75        | 6.9       | <b>799 300 747</b> | 0.601 | Pipe Insert SDR 11 |  |
| 90        | 5.4       | <b>799 300 748</b> | 0.834 | Pipe Insert SDR 17 |  |
| 90        | 8.2       | <b>799 300 749</b> | 0.220 | Pipe Insert SDR 11 |  |

## Replacement blade for Peeling Tool PT 1 E



PT 1 E

| d-d<br>[mm] | Piece | Code               | kg    | Description                |
|-------------|-------|--------------------|-------|----------------------------|
| 20 - 90     | 1     | <b>799 150 383</b> | 0.150 | Replacement blade, 1 piece |

9 300 750



## Peeling Tool PT 2

- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.
- Scope of delivery: 1 tool (size 1, 2 or 3) in a case (size 1 in aluminium, size 2 and 3 in plastic).

| d-d<br>[mm] | Code               | kg     | Description                   |
|-------------|--------------------|--------|-------------------------------|
| 90 - 250    | <b>799 300 753</b> | 5.100  | Size 1, peeling length 140 mm |
| 110 - 400   | <b>799 300 755</b> | 7.320  | Size 2, peeling length 150 mm |
| 110 - 500   | <b>799 300 756</b> | 11.000 | Size 3, peeling length 175 mm |

9 300 750

## Replacement blade for Peeling Tool PT 2



PT 2

| d-d<br>[mm] | Code               | SP | GP | kg    |
|-------------|--------------------|----|----|-------|
| 90 - 500    | <b>799 150 355</b> | 1  | -  | 0.008 |

# Cleaning Fluid

## KS Tangit Cleaner



- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

| Code        | SP | GP | kg    |
|-------------|----|----|-------|
| 799 298 023 | 1  | 8  | 0.868 |

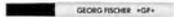
## Tangit KS Cleaning Tissues



- Plastic container with 100 tissues
- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.
- Fluffless cloth

| Article           | Code        | SP | GP | kg    |
|-------------------|-------------|----|----|-------|
| plastic container | 700 648 759 | 8  | -  | 0.341 |

## Marker



| Type   | Code        | kg    |
|--------|-------------|-------|
| silver | 799 350 364 | 0.012 |

# ABS metric

|   |   | Page |
|---|---|------|
|   | Pressure/temperature diagram for ABS      | 256  |
|    | Metric pipe                               | 257  |
|    | Pipe fittings for solvent cement jointing | 258  |
|    | Adaptor fittings                          | 264  |
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|  | Union spare parts                         | 271  |
|  | Flange adaptor                            | 272  |
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## Pressure/temperature diagram for ABS

The following pressure/temperature diagram for ABS pipes and fittings is valid for a lifetime of 25 years.

The design factor of 2.1 for inch-based systems and 1.8 for metric systems recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

**Remark:** Please take into account the pressure/temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

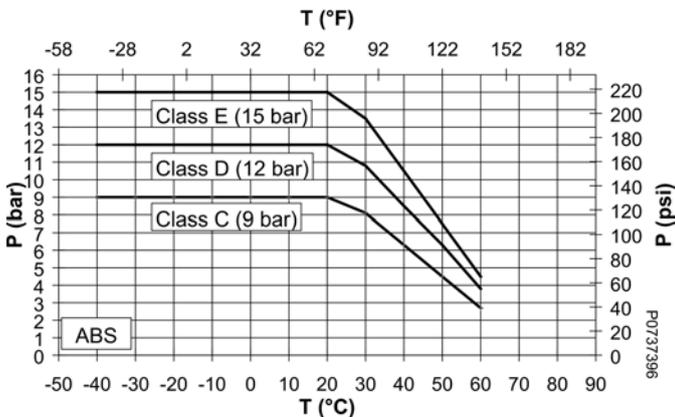
The influence of the anti-freeze compound has to be taken into account when calculating the allowable operating pressure. Please contact your GF representative for further information.

Attention: According to the 10 °C curve in the long-term diagram for ABS, the permissible pressure in the temperature range -40 ° to +10 °C can be

- 7.5 bar for the PN6 system.
- 11.8 bar for the PN10 system.

The maximum pressure for the PN16 system has been limited to 16 bar.

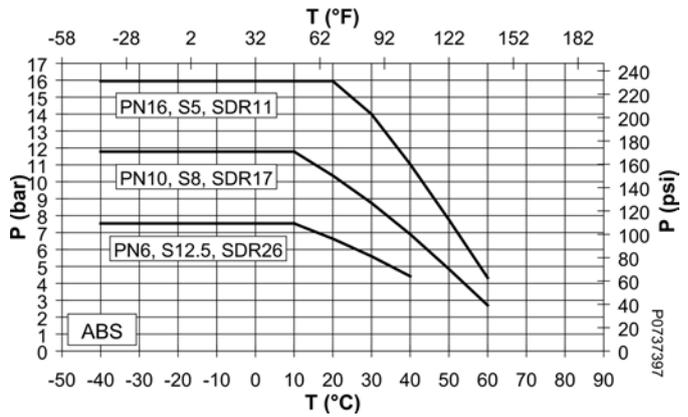
## Inch-based systems



P Permissible pressure in bar, psi

T Temperature in °C, °F

## Metric-based systems

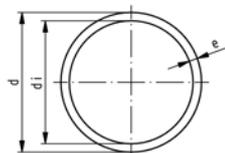


P Permissible pressure in bar, psi

T Temperature in °C, °F

## Metric pipe

69 01 70



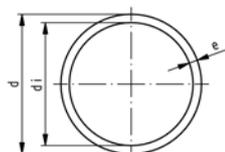
### Pipe ABS metric Nominal pressure PN16 (at 20°C)

#### Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code               | kg/m  | e<br>[mm] | di<br>[mm] | Copper size |
|-----------|----|--------------------|-------|-----------|------------|-------------|
| 16        | 16 | <b>169 017 080</b> | 0.095 | 1.8       | 12.4       | ½           |
| 20        | 16 | <b>169 017 081</b> | 0.148 | 2.3       | 15.4       | 5/8         |
| 25        | 16 | <b>169 017 082</b> | 0.191 | 2.3       | 20.4       | ¾           |

69 01 70



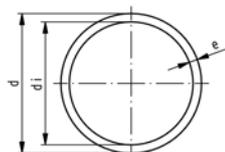
### Pipe ABS metric Nominal pressure PN10 (at 20°C)

#### Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code               | kg/m   | e<br>[mm] | di<br>[mm] | Copper size |
|-----------|----|--------------------|--------|-----------|------------|-------------|
| 32        | 10 | <b>169 017 083</b> | 0.213  | 1.9       | 28.2       | 1 ½         |
| 40        | 10 | <b>169 017 084</b> | 0.336  | 2.4       | 35.2       | 1 ¾         |
| 50        | 10 | <b>169 017 085</b> | 0.516  | 3.0       | 44.0       | 1 5/8       |
| 63        | 10 | <b>169 017 086</b> | 0.819  | 3.8       | 55.4       | 2 ½         |
| 75        | 10 | <b>169 017 087</b> | 1.154  | 4.5       | 66.0       | 2 ¾         |
| 90        | 10 | <b>169 017 088</b> | 1.657  | 5.4       | 79.2       | 3 ½         |
| 110       | 10 | <b>169 017 089</b> | 2.495  | 6.6       | 96.8       | 4 ½         |
| 140       | 10 | <b>169 017 091</b> | 4.083  | 8.6       | 122.8      |             |
| 160       | 10 | <b>169 017 092</b> | 5.397  | 9.9       | 140.2      | 6           |
| 200       | 10 | <b>169 017 093</b> | 8.307  | 12.3      | 175.4      |             |
| 225       | 10 | <b>169 017 094</b> | 10.522 | 13.9      | 197.2      |             |

69 01 70



### Pipe ABS metric Nominal pressure PN6 (at 20°C)

#### Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code               | kg/m   | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|--------|-----------|------------|
| 250       | 6  | <b>169 017 095</b> | 8.299  | 9.6       | 230.8      |
| 280       | 6  | <b>169 017 096</b> | 10.346 | 10.7      | 258.6      |
| 315       | 6  | <b>169 017 097</b> | 13.173 | 12.1      | 290.8      |

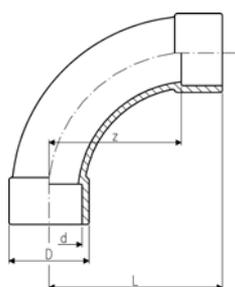
# Pipe fittings for solvent cement jointing

29 00 01

## Bend 90° ABS metric

• Radius = 2 d

\* Available as long as our stock will last

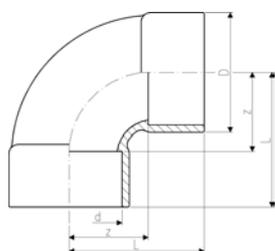


| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 20        | 16 | <b>729 000 106</b> | 10 | 0.027 | 40        | 27        | 58        |
| 25        | 16 | <b>729 000 107</b> | 10 | 0.038 | 50        | 35        | 69        |
| 32        | 10 | <b>729 000 108</b> | 10 | 0.051 | 64        | 38        | 86        |
| 40        | 10 | <b>729 000 109</b> | 30 | 0.102 | 80        | 54        | 109       |
| 50        | 10 | <b>729 000 110</b> | 10 | 0.206 | 100       | 61        | 131       |
| 63        | 10 | <b>729 000 111</b> | 5  | 0.387 | 126       | 76        | 164       |
| 75        | 10 | <b>729 000 112</b> | 5  | 0.585 | 150       | 90        | 194       |
| 90        | 10 | <b>729 000 113</b> | 5  | 0.750 | 180       | 113       | 231       |
| 110       | 10 | <b>729 000 114</b> | 5  | 2.030 | 220       | 137       | 281       |
| 140       | 10 | <b>729 000 116</b> | 1  | 4.100 | 280       | 168       | 356       |
| * 160     | 10 | <b>729 000 117</b> | 1  | 5.600 | 320       | 191       | 406       |

29 01 01

## Bend 90° short pattern ABS metric

• >d225 - maximum operating temperature: +40°C

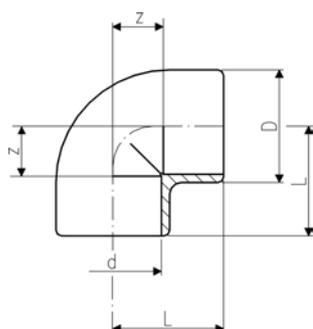


| d<br>[mm] | PN | Code               | SP | kg     | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|--------|-----------|-----------|-----------|
| 225       | 10 | <b>729 010 120</b> | 1  | 5.650  | 168       | 256       | 287       |
| 280       | 6  | <b>729 010 122</b> | -  | 16.000 | 210       | 318       | 357       |
| 315       | 6  | <b>729 010 123</b> | -  | 21.000 | 237       | 356       | 401       |

29 10 01

## Elbow 90° ABS metric

• >d225 - maximum operating temperature: +40°C

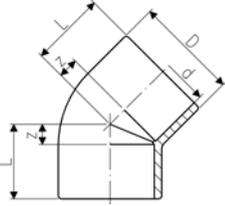


| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 16        | 16 | <b>729 100 105</b> | 10 | 0.007 | 9         | 21        | 23        |
| 20        | 16 | <b>729 100 106</b> | 10 | 0.010 | 11        | 26        | 27        |
| 25        | 16 | <b>729 100 107</b> | 10 | 0.017 | 14        | 31        | 33        |
| 32        | 10 | <b>729 100 108</b> | 10 | 0.032 | 17        | 40        | 39        |
| 40        | 10 | <b>729 100 109</b> | 10 | 0.051 | 21        | 49        | 47        |
| 50        | 10 | <b>729 100 110</b> | 10 | 0.103 | 26        | 61        | 57        |
| 63        | 10 | <b>729 100 111</b> | 10 | 0.196 | 33        | 76        | 72        |
| 75        | 10 | <b>729 100 112</b> | 5  | 0.308 | 40        | 90        | 84        |
| 90        | 10 | <b>729 100 113</b> | 5  | 0.429 | 46        | 110       | 97        |
| 110       | 10 | <b>729 100 114</b> | 4  | 0.786 | 61        | 136       | 116       |
| 140       | 10 | <b>729 100 116</b> | 4  | 1.470 | 70        | 162       | 146       |
| 160       | 10 | <b>729 100 117</b> | 1  | 2.150 | 80        | 185       | 166       |
| 200       | 10 | <b>729 100 119</b> | 1  | 3.372 | 101       | 225       | 207       |
| 250       | 6  | <b>729 100 121</b> | -  | 8.200 | 131       | 282       | 263       |

29 15 01

### Elbow 45° ABS metric

• >d225 - maximum operating temperature: +40°C

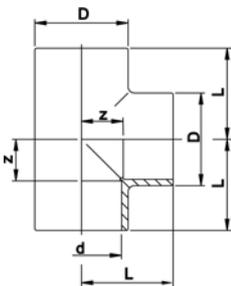


| d<br>[mm] | PN | Code               | SP | kg     | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|--------|-----------|-----------|-----------|
| 20        | 16 | <b>729 150 106</b> | 10 | 0.008  | 5         | 25        | 21        |
| 25        | 16 | <b>729 150 107</b> | 10 | 0.013  | 6         | 31        | 25        |
| 32        | 10 | <b>729 150 108</b> | 10 | 0.046  | 8         | 40        | 30        |
| 40        | 10 | <b>729 150 109</b> | 10 | 0.082  | 10        | 49        | 36        |
| 50        | 10 | <b>729 150 110</b> | 5  | 0.121  | 12        | 61        | 43        |
| 63        | 10 | <b>729 150 111</b> | 10 | 0.144  | 14        | 76        | 52        |
| 75        | 10 | <b>729 150 112</b> | 5  | 0.228  | 17        | 89        | 61        |
| 90        | 10 | <b>729 150 113</b> | 5  | 0.362  | 20        | 107       | 71        |
| 110       | 10 | <b>729 150 114</b> | 10 | 0.775  | 28        | 131       | 89        |
| 140       | 10 | <b>729 150 116</b> | 1  | 1.190  | 32        | 162       | 108       |
| 160       | 10 | <b>729 150 117</b> | 4  | 1.680  | 36        | 185       | 122       |
| 200       | 10 | <b>729 150 119</b> | 1  | 2.506  | 43        | 225       | 149       |
| 225       | 10 | <b>729 150 120</b> | 1  | 3.100  | 49        | 250       | 168       |
| 250       | 6  | <b>729 150 121</b> | -  | 7.200  | 60        | 282       | 192       |
| 280       | 6  | <b>729 150 122</b> | -  | 10.500 | 66        | 318       | 213       |
| 315       | 6  | <b>729 150 123</b> | -  | 14.600 | 74        | 356       | 239       |

29 20 01

### Tee 90° ABS metric

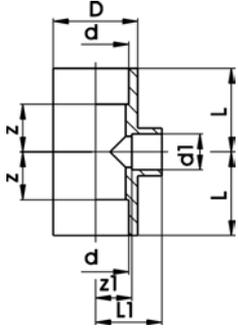
• >d225 - maximum operating temperature: +40°C



| d<br>[mm] | PN | Code               | SP | kg     | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|--------|-----------|-----------|-----------|
| 16        | 16 | <b>729 200 105</b> | 10 | 0.010  | 9         | 21        | 23        |
| 20        | 16 | <b>729 200 106</b> | 10 | 0.014  | 11        | 25        | 27        |
| 25        | 16 | <b>729 200 107</b> | 10 | 0.024  | 14        | 31        | 33        |
| 32        | 10 | <b>729 200 108</b> | 10 | 0.042  | 17        | 40        | 39        |
| 40        | 10 | <b>729 200 109</b> | 10 | 0.074  | 21        | 49        | 47        |
| 50        | 10 | <b>729 200 110</b> | 5  | 0.131  | 26        | 61        | 57        |
| 63        | 10 | <b>729 200 111</b> | 5  | 0.250  | 34        | 76        | 72        |
| 75        | 10 | <b>729 200 112</b> | 5  | 0.421  | 40        | 90        | 84        |
| 90        | 10 | <b>729 200 113</b> | 5  | 0.687  | 47        | 107       | 98        |
| 110       | 10 | <b>729 200 114</b> | 2  | 1.020  | 55        | 133       | 116       |
| 140       | 10 | <b>729 200 116</b> | 1  | 2.500  | 71        | 169       | 147       |
| 160       | 10 | <b>729 200 117</b> | 1  | 3.700  | 81        | 193       | 167       |
| 200       | 10 | <b>729 200 119</b> | 1  | 4.430  | 101       | 225       | 207       |
| 225       | 10 | <b>729 200 120</b> | 1  | 6.850  | 114       | 256       | 233       |
| 250       | 6  | <b>729 200 121</b> | -  | 12.400 | 132       | 282       | 263       |
| 280       | 6  | <b>729 200 122</b> | -  | 17.300 | 152       | 318       | 298       |
| 315       | 6  | <b>729 200 123</b> | -  | 24.100 | 168       | 356       | 332       |

29 20 01

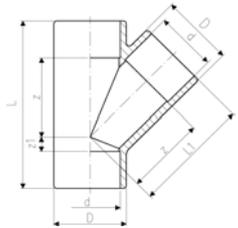
**Tee 90° reducing ABS metric**



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | Closest inch<br>run-branch-<br>run |
|-----------|------------|----|--------------------|----|-------|-----------|------------|-----------|-----------|------------|------------------------------------|
| 25        | 20         | 16 | <b>729 200 134</b> | 10 | 0.029 | 14        | 14         | 33        | 33        | 30         | ¾ - ½ - ¾                          |
| 32        | 25         | 10 | <b>729 200 138</b> | 10 | 0.048 | 17        | 17         | 41        | 39        | 36         | 1 - ¾ - 1                          |
| 40        | 25         | 10 | <b>729 200 151</b> | 10 | 0.081 | 23        | 23         | 50        | 49        | 42         | 1 ¼ - ¾ - 1 ¼                      |
| 40        | 32         | 10 | <b>729 200 147</b> | 10 | 0.085 | 23        | 23         | 50        | 49        | 45         | 1 ¼ - 1 - 1 ¼                      |
| 50        | 25         | 10 | <b>729 200 010</b> | 5  | 0.135 | 28        | 28         | 62        | 59        | 47         | 1 ½ - ¾ - 1 ½                      |
| 50        | 32         | 10 | <b>729 200 164</b> | 5  | 0.200 | 28        | 28         | 62        | 59        | 50         | 1 ½ - 1 - 1 ½                      |
| 63        | 25         | 10 | <b>729 200 011</b> | 10 | 0.245 | 34        | 34         | 77        | 73        | 53         | 2 - ¾ - 2                          |
| 63        | 32         | 10 | <b>729 200 178</b> | 5  | 0.249 | 35        | 34         | 77        | 73        | 56         | 2 - 1 - 2                          |
| 63        | 50         | 10 | <b>729 200 170</b> | 5  | 0.265 | 35        | 34         | 77        | 73        | 65         | 2 - 1 ½ - 2                        |
| 75        | 40         | 10 | <b>729 200 182</b> | 9  | 0.500 | 40        | 41         | 92        | 84        | 66         | 2 ½ - 1 ¼ - 2 ½                    |
| 90        | 32         | 10 | <b>729 200 143</b> | 6  | 1.000 | 46        | 55         | 110       | 97        | 93         | 3 - 1 - 3                          |
| 90        | 63         | 10 | <b>729 200 146</b> | 5  | 0.900 | 46        | 55         | 110       | 97        | 93         | 3 - 2 - 3                          |
| 110       | 32         | 10 | <b>729 200 144</b> | 3  | 2.000 | 56        | 67         | 133       | 117       | 89         | 4 - 1 - 4                          |
| 110       | 50         | 10 | <b>729 200 136</b> | 3  | 1.900 | 56        | 67         | 133       | 117       | 98         | 4 - 1 ½ - 4                        |
| 140       | 50         | 10 | <b>729 200 148</b> | 1  | 1.899 | 72        | 82         | 172       | 148       | 113        | 5 - 1 ½ - 5                        |
| 140       | 75         | 10 | <b>729 200 149</b> | 1  | 2.500 | 72        | 78         | 172       | 148       | 122        | 5 - 2 ½ - 5                        |
| 160       | 90         | 10 | <b>729 200 158</b> | 1  | 2.800 | 81        | 91         | 192       | 167       | 142        | 6 - 3 - 6                          |
| 200       | 110        | 10 | <b>729 200 153</b> | 1  | 6.110 | 106       | 131        | 232       | 213       | 192        | 7 - 4 - 7                          |
| 225       | 110        | 10 | <b>729 200 156</b> | 1  | 7.500 | 119       | 143        | 257       | 239       | 204        | 8 - 4 - 8                          |
| 225       | 160        | 10 | <b>729 200 157</b> | 1  | 7.900 | 119       | 119        | 257       | 239       | 205        | 8 - 6 - 8                          |

29 25 01

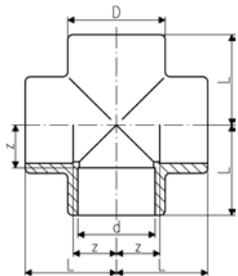
**Tee 45° ABS metric**



| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|------------|-----------|-----------|------------|
| 20        | 10 | <b>729 250 106</b> | 10 | 0.027 | 30        | 6          | 28        | 68        | 46         |
| 25        | 10 | <b>729 250 107</b> | 10 | 0.043 | 36        | 9          | 33        | 83        | 55         |
| 32        | 10 | <b>729 250 108</b> | 10 | 0.073 | 45        | 10         | 41        | 99        | 67         |
| 40        | 10 | <b>729 250 109</b> | -  | 0.119 | 56        | 10         | 50        | 118       | 82         |
| 50        | 10 | <b>729 250 110</b> | 10 | 0.202 | 66        | 12         | 60        | 140       | 97         |
| 63        | 10 | <b>729 250 111</b> | 5  | 0.325 | 85        | 14         | 74        | 175       | 123        |
| 75        | 6  | <b>729 250 112</b> | 5  | 0.637 | 101       | 18         | 91        | 207       | 145        |
| 90        | 6  | <b>729 250 113</b> | 1  | 0.940 | 122       | 20         | 107       | 245       | 173        |
| 110       | 6  | <b>729 250 114</b> | 3  | 1.870 | 149       | 27         | 134       | 298       | 210        |
| 140       | 6  | <b>729 250 116</b> | 1  | 4.315 | 190       | 34         | 168       | 376       | 266        |

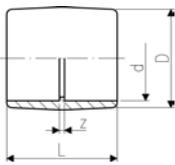
29 30 01

**Cross ABS metric**



| d<br>[mm] | PN | Code               | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|-------|-----------|-----------|-----------|
| 32        | 10 | <b>729 300 108</b> | 0.070 | 17        | 43        | 39        |
| 63        | 10 | <b>729 300 111</b> | 0.361 | 34        | 79        | 72        |

## 29 91 01

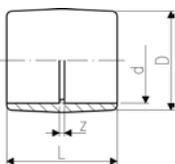


## Socket ABS metric

• >d225 - maximum operating temperature: +40°C

| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 16        | 16 | <b>729 910 105</b> | 10 | 0.005 | 3         | 22        | 31        |
| 20        | 16 | <b>729 910 106</b> | 10 | 0.007 | 3         | 26        | 35        |
| 25        | 16 | <b>729 910 107</b> | 10 | 0.011 | 3         | 32        | 41        |
| 32        | 10 | <b>729 910 108</b> | 10 | 0.020 | 3         | 40        | 47        |
| 40        | 10 | <b>729 910 109</b> | 10 | 0.034 | 3         | 49        | 55        |
| 50        | 10 | <b>729 910 110</b> | 10 | 0.060 | 3         | 61        | 65        |
| 63        | 10 | <b>729 910 111</b> | 10 | 0.107 | 3         | 76        | 79        |
| 75        | 10 | <b>729 910 112</b> | 10 | 0.140 | 4         | 87        | 92        |
| 90        | 10 | <b>729 910 113</b> | 10 | 0.242 | 5         | 104       | 107       |
| 110       | 10 | <b>729 910 114</b> | 5  | 0.570 | 5         | 131       | 132       |
| 140       | 10 | <b>729 910 116</b> | 2  | 0.760 | 7         | 162       | 159       |
| 160       | 10 | <b>729 910 117</b> | 1  | 1.176 | 8         | 183       | 180       |
| 200       | 10 | <b>729 910 119</b> | 1  | 1.480 | 9         | 221       | 221       |
| 225       | 10 | <b>729 910 120</b> | 1  | 2.500 | 10        | 253       | 248       |
| 250       | 6  | <b>729 910 121</b> | -  | 5.400 | 16        | 284       | 272       |
| 280       | 6  | <b>729 910 122</b> | -  | 6.600 | 16        | 321       | 302       |
| 315       | 6  | <b>729 910 123</b> | -  | 8.100 | 16        | 356       | 338       |

## 29 91 31



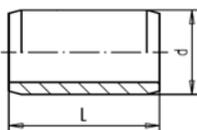
## Adaptor socket ABS metric/Inch BS

**Model:**

• with BS Inch and metric solvent cement sockets

| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] | D<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 16        | 10 | <b>729 913 105</b> | -  | 0.007 | 5         | 35        | 23        |
| 20        | 10 | <b>729 913 106</b> | -  | 0.010 | 5         | 38        | 27        |
| 25        | 10 | <b>729 913 107</b> | -  | 0.016 | 5         | 45        | 33        |
| 32        | 10 | <b>729 913 108</b> | -  | 0.025 | 5         | 51        | 41        |
| 40        | 10 | <b>729 913 109</b> | -  | 0.045 | 5         | 60        | 51        |
| 50        | 10 | <b>729 913 110</b> | -  | 0.070 | 4         | 65        | 59        |
| 63        | 10 | <b>729 913 111</b> | -  | 0.130 | 5         | 79        | 75        |
| 75        | 10 | <b>729 910 112</b> | 10 | 0.140 | 4         | 92        | 87        |
| 90        | 10 | <b>729 913 113</b> | -  | 0.365 | 6         | 108       | 104       |
| 110       | 10 | <b>729 913 115</b> | -  | 0.630 | 7         | 135       | 134       |

## 29 90 09



## Barrel nipple ABS metric

**Model:**

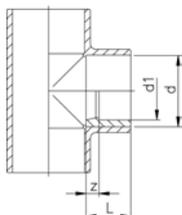
- With solvent cement spigots on both sides
- For quick connections between fittings
- For the shortest possible distance between fittings
- Overall length L = 2 x socket length

| d<br>[mm] | PN | Code               | kg    | L<br>[mm] |
|-----------|----|--------------------|-------|-----------|
| 16        | 16 | <b>729 900 905</b> | 0.003 | 28        |
| 20        | 16 | <b>729 900 906</b> | 0.004 | 32        |
| 25        | 16 | <b>729 900 907</b> | 0.007 | 38        |
| 32        | 10 | <b>729 900 908</b> | 0.009 | 44        |
| 40        | 10 | <b>729 900 909</b> | 0.017 | 52        |
| 50        | 10 | <b>729 900 910</b> | 0.032 | 62        |
| 63        | 10 | <b>729 900 911</b> | 0.063 | 76        |
| 75        | 10 | <b>729 900 912</b> | 0.102 | 88        |
| 90        | 10 | <b>729 900 913</b> | 0.173 | 102       |
| 110       | 10 | <b>729 900 914</b> | 0.309 | 122       |

29 90 03

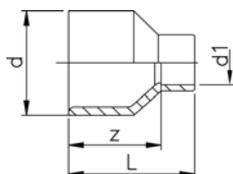
**Reducing bush ABS metric****Model:**

- With solvent cement spigot and socket metric



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 20        | 16         | 16 | <b>729 900 334</b> | 10 | 0.003 | 2         | 16        |
| 25        | 20         | 16 | <b>729 900 337</b> | 10 | 0.005 | 3         | 19        |
| 32        | 20         | 10 | <b>729 900 342</b> | 10 | 0.012 | 6         | 22        |
| 32        | 25         | 10 | <b>729 900 341</b> | 10 | 0.009 | 4         | 22        |
| 40        | 20         | 10 | <b>729 900 348</b> | 10 | 0.016 | 10        | 26        |
| 40        | 25         | 10 | <b>729 900 347</b> | 10 | 0.016 | 7         | 26        |
| 40        | 32         | 10 | <b>729 900 346</b> | 10 | 0.012 | 4         | 26        |
| 50        | 20         | 10 | <b>729 900 355</b> | 10 | 0.024 | 15        | 31        |
| 50        | 25         | 10 | <b>729 900 354</b> | 10 | 0.025 | 12        | 31        |
| 50        | 32         | 10 | <b>729 900 353</b> | 10 | 0.035 | 9         | 31        |
| 50        | 40         | 10 | <b>729 900 352</b> | 10 | 0.038 | 5         | 31        |
| 63        | 32         | 10 | <b>729 900 360</b> | 10 | 0.060 | 16        | 38        |
| 63        | 40         | 10 | <b>729 900 359</b> | 10 | 0.067 | 12        | 38        |
| 63        | 50         | 10 | <b>729 900 358</b> | 10 | 0.044 | 7         | 36        |
| 75        | 50         | 10 | <b>729 900 365</b> | 10 | 0.105 | 13        | 44        |
| 75        | 63         | 10 | <b>729 900 364</b> | 10 | 0.076 | 7         | 44        |
| 90        | 50         | 10 | <b>729 900 372</b> | 10 | 0.136 | 20        | 51        |
| 90        | 63         | 10 | <b>729 900 371</b> | 10 | 0.130 | 14        | 51        |
| 90        | 75         | 10 | <b>729 900 370</b> | 10 | 0.133 | 7         | 51        |
| 110       | 63         | 10 | <b>729 900 378</b> | 5  | 0.238 | 24        | 61        |
| 110       | 90         | 10 | <b>729 900 376</b> | 5  | 0.196 | 10        | 61        |
| 125       | 110        | 10 | <b>700 244 660</b> | -  | 0.356 | 8         | 69        |
| 140       | 110        | 10 | <b>729 900 385</b> | 5  | 0.454 | 15        | 76        |
| 160       | 110        | 10 | <b>729 900 390</b> | 5  | 0.666 | 25        | 86        |
| 160       | 140        | 10 | <b>729 900 388</b> | 5  | 0.416 | 10        | 86        |
| 200       | 160        | 10 | <b>729 900 392</b> | 1  | 0.818 | 20        | 106       |
| 225       | 160        | 10 | <b>729 900 396</b> | 2  | 1.640 | 33        | 119       |
| 225       | 200        | 10 | <b>729 900 181</b> | -  | 1.440 | 13        | 119       |
| 250       | 225        | 6  | <b>729 900 303</b> | -  | 1.000 | 12        | 131       |
| 280       | 250        | 6  | <b>729 900 306</b> | -  | 2.500 | 15        | 146       |
| 315       | 280        | 6  | <b>729 900 312</b> | 1  | 3.350 | 17        | 164       |

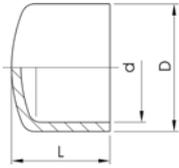
29 91 03

**Reducing bush long ABS metric**

| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 32        | 20         | 10 | <b>729 910 342</b> | 10 | 0.016 | 30        | 46        |
| 40        | 25         | 10 | <b>729 910 347</b> | 10 | 0.026 | 36        | 55        |
| 50        | 25         | 10 | <b>729 910 354</b> | 10 | 0.041 | 44        | 63        |
| 63        | 32         | 10 | <b>729 910 360</b> | 5  | 0.077 | 54        | 76        |
| 75        | 40         | 10 | <b>729 910 366</b> | 5  | 0.115 | 62        | 88        |
| 90        | 63         | 10 | <b>729 910 371</b> | 5  | 0.218 | 74        | 112       |

## 29 96 01

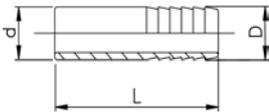
## Cap ABS metric



| d<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|
| 16        | 16 | <b>729 960 105</b> | 10 | 0.006 | 26        | 24        |
| 20        | 16 | <b>729 960 106</b> | 10 | 0.008 | 30        | 25        |
| 25        | 16 | <b>729 960 107</b> | 10 | 0.013 | 37        | 30        |
| 32        | 10 | <b>729 960 108</b> | 10 | 0.020 | 44        | 34        |
| 40        | 10 | <b>729 960 109</b> | 10 | 0.034 | 55        | 41        |
| 50        | 10 | <b>729 960 110</b> | 10 | 0.034 | 64        | 44        |
| 63        | 10 | <b>729 960 111</b> | 5  | 0.086 | 80        | 54        |
| 75        | 10 | <b>729 960 112</b> | 5  | 0.115 | 87        | 65        |
| 90        | 10 | <b>729 960 113</b> | 5  | 0.215 | 112       | 77        |
| 110       | 10 | <b>729 960 114</b> | 5  | 0.480 | 145       | 101       |
| 140       | 10 | <b>729 960 116</b> | 10 | 0.880 | 163       | 114       |
| 160       | 10 | <b>729 960 117</b> | 2  | 1.130 | 188       | 130       |

## 29 96 04

## Hose connector ABS metric



| d<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|
| 16        | 10 | <b>729 960 405</b> | 10 | 0.007 | 16        | 57        |
| 20        | 10 | <b>729 960 406</b> | 10 | 0.011 | 20        | 73        |
| 25        | 10 | <b>729 960 407</b> | 10 | 0.016 | 25        | 79        |
| 32        | 10 | <b>729 960 408</b> | 10 | 0.026 | 30        | 89        |

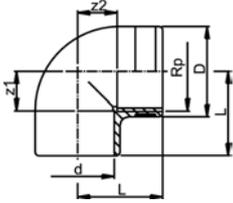
# Adaptor fittings

29 10 02

## Elbow 90° ABS metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes



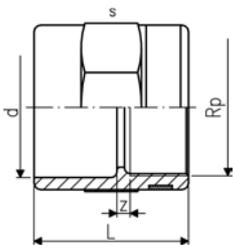
| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|--------------|----|-------------|----|-------|------------|------------|-----------|-----------|
| 20        | 1/2          | 10 | 729 100 206 | 10 | 0.018 | 11         | 14         | 30        | 27        |
| 25        | 3/4          | 10 | 729 100 207 | 10 | 0.028 | 14         | 17         | 35        | 33        |
| 32        | 1            | 10 | 729 100 208 | 10 | 0.047 | 17         | 22         | 45        | 39        |
| 40        | 1 1/4        | 10 | 729 100 209 | 10 | 0.088 | 23         | 27         | 55        | 50        |
| 50        | 1 1/2        | 10 | 729 100 210 | 5  | 0.128 | 27         | 36         | 62        | 58        |
| 63        | 2            | 10 | 729 100 211 | 5  | 0.233 | 33         | 46         | 75        | 73        |

29 91 02

## Socket ABS metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes



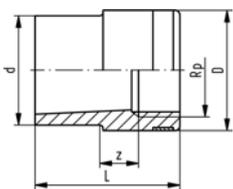
| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|-------------|----|-------|-----------|-----------|-----------|
| 20        | 1/2          | 10 | 729 910 206 | 10 | 0.020 | 4         | 35        | 32        |
| 25        | 3/4          | 10 | 729 910 207 | 10 | 0.030 | 3         | 40        | 36        |
| 32        | 1            | 10 | 729 910 208 | 10 | 0.040 | 3         | 45        | 46        |
| 40        | 1 1/4        | 10 | 729 910 209 | 10 | 0.069 | 5         | 51        | 55        |
| 50        | 1 1/2        | 10 | 729 910 210 | 10 | 0.100 | 7         | 59        | 65        |
| 63        | 2            | 10 | 729 910 211 | 5  | 0.162 | 7         | 69        | 80        |

29 91 04

## Reducing bush ABS metric Rp

**Model:**

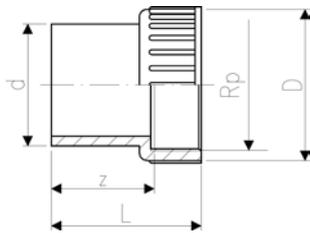
- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes



| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|--------------|----|-------------|----|-------|-----------|-----------|-----------|
| 20        | 3/8          | 10 | 729 910 434 | 10 | 0.012 | 24        | 25        | 35        |
| 25        | 1/2          | 10 | 729 910 437 | 10 | 0.018 | 27        | 30        | 41        |
| 32        | 3/4          | 10 | 729 910 441 | 10 | 0.027 | 32        | 35        | 48        |
| 40        | 1            | 10 | 729 910 446 | 10 | 0.048 | 38        | 45        | 56        |
| 50        | 1 1/4        | 10 | 729 910 452 | 10 | 0.073 | 46        | 55        | 66        |
| 63        | 1 1/2        | 10 | 729 910 458 | 5  | 0.106 | 57        | 62        | 77        |

29 90 04

## Adaptor ABS metric Rp



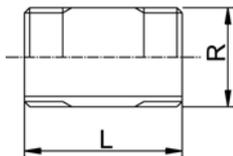
### Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] | D<br>[mm] |
|-----------|--------------|----|--------------------|----|-------|-----------|-----------|-----------|
| 20        | ½            | 10 | <b>729 900 406</b> | 10 | 0.009 | 21        | 37        | 28        |
| 25        | ¾            | 10 | <b>729 900 407</b> | 10 | 0.014 | 23        | 41        | 33        |
| 32        | 1            | 10 | <b>729 900 408</b> | 10 | 0.026 | 27        | 48        | 42        |
| 40        | 1 ¼          | 10 | <b>729 900 409</b> | 10 | 0.046 | 33        | 56        | 52        |
| 50        | 1 ½          | 10 | <b>729 900 410</b> | 10 | 0.073 | 38        | 61        | 62        |
| 63        | 2            | 10 | <b>729 900 411</b> | 5  | 0.127 | 47        | 74        | 77        |

29 91 15

## Barrel nipple ABS R



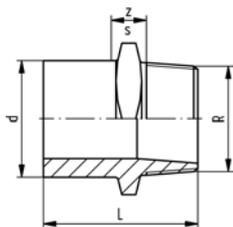
### Model:

- BSP taper male threads (R)
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes

| R<br>[inch] | PN | Code               | kg    | L<br>[mm] |
|-------------|----|--------------------|-------|-----------|
| ⅜           | 10 | <b>729 911 505</b> | 0.014 | 43        |
| ½           | 10 | <b>729 911 506</b> | 0.014 | 50        |
| ¾           | 10 | <b>729 911 507</b> | 0.021 | 56        |
| 1           | 10 | <b>729 911 508</b> | 0.035 | 63        |
| 1 ¼         | 10 | <b>729 911 509</b> | 0.053 | 75        |
| 1 ½         | 10 | <b>729 911 510</b> | 0.031 | 88        |
| 2           | 10 | <b>729 911 511</b> | 0.135 | 88        |
| 3           | 10 | <b>729 911 513</b> | 0.196 | 128       |
| 4           | 10 | <b>729 911 515</b> | 0.357 | 153       |

29 91 05

## Adaptor spigot nipple ABS metric R



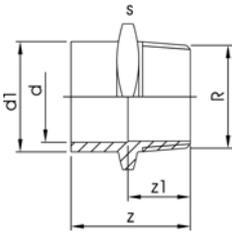
### Model:

- With solvent cement spigot metric and taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | s<br>[mm] |
|-----------|-------------|----|--------------------|----|-------|-----------|-----------|
| 16        | ¾           | 10 | <b>729 910 505</b> | 10 | 0.009 | 35        | 27        |

29 91 05

## Adaptor socket nipple ABS metric R



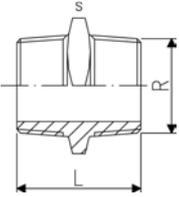
### Model:

- With solvent cement spigot/socket metric and taper male thread R
- Connection for plastic threads
- Do not use thread sealing pastes that are harmful to ABS

| d<br>[mm] | d1<br>[mm] | R<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | s<br>[mm] |
|-----------|------------|-------------|----|--------------------|----|-------|-----------|------------|-----------|
| 16        | 20         | 1/2         | 10 | <b>729 910 556</b> | 10 | 0.012 | 42        | 28         | 32        |
| 20        | 25         | 3/4         | 10 | <b>729 910 557</b> | 10 | 0.020 | 47        | 31         | 36        |
| 25        | 32         | 1           | 10 | <b>729 910 558</b> | 10 | 0.031 | 54        | 35         | 46        |
| 32        | 40         | 1 1/4       | 10 | <b>729 910 559</b> | 10 | 0.050 | 60        | 38         | 55        |
| 40        | 50         | 1 1/2       | 10 | <b>729 910 560</b> | 10 | 0.070 | 66        | 40         | 65        |
| 50        | 63         | 2           | 10 | <b>729 910 561</b> | 5  | 0.123 | 78        | 47         | 80        |

# Threaded fittings

29 91 19



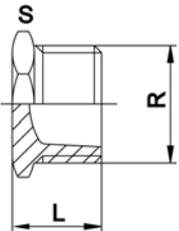
## Hexagon nipple ABS R

**Model:**

- With taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes

| R<br>[inch] | PN | Code               | SP | kg    | L<br>[mm] | s<br>[mm] |
|-------------|----|--------------------|----|-------|-----------|-----------|
| 1/2         | 10 | <b>729 911 906</b> | 10 | 0.009 | 45        | 22        |
| 3/4         | 10 | <b>729 911 907</b> | 10 | 0.014 | 49        | 27        |
| 1           | 10 | <b>729 911 908</b> | 10 | 0.026 | 57        | 36        |

29 96 19



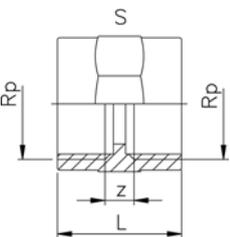
## Plug ABS R

**Model:**

- With taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS

| R<br>[inch] | PN | Code               | SP | kg    | s<br>[mm] | L<br>[mm] |
|-------------|----|--------------------|----|-------|-----------|-----------|
| 1/2         | 10 | <b>729 961 906</b> | 10 | 0.008 | 27        | 25        |
| 3/4         | 10 | <b>729 961 907</b> | 10 | 0.014 | 36        | 29        |
| 1           | 10 | <b>729 961 908</b> | 10 | 0.022 | 41        | 32        |

29 91 06



## Threaded socket ABS Rp

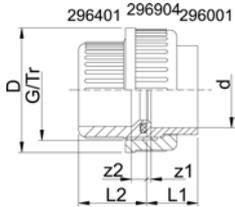
**Model:**

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS
- Install with low mechanical stress and avoid large cyclic temperature changes

| Rp<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|--------------|----|--------------------|----|-------|-----------|-----------|-----------|
| 1/2          | 10 | <b>729 910 606</b> | 10 | 0.019 | 9         | 35        | 32        |
| 3/4          | 10 | <b>729 910 607</b> | 10 | 0.022 | 9         | 39        | 36        |
| 1            | 10 | <b>729 910 608</b> | 10 | 0.041 | 11        | 45        | 46        |

# Unions

29 51 01



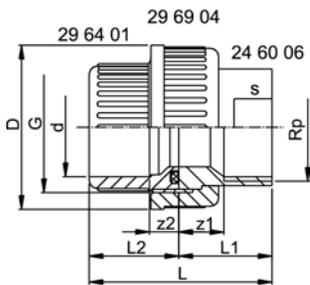
## Union ABS metric

### Model:

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Gasket: O-ring EPDM No. 48 41 00

| d<br>[mm] | PN | Code               | SP | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | G/Tr     |
|-----------|----|--------------------|----|-------|------------|------------|-----------|------------|------------|----------|
| 16        | 10 | <b>729 510 105</b> | 10 | 0.025 | 5          | 10         | 35        | 19         | 24         | 3/4      |
| 20        | 10 | <b>729 510 106</b> | 10 | 0.035 | 4          | 10         | 43        | 21         | 26         | 1        |
| 25        | 10 | <b>729 510 107</b> | 10 | 0.050 | 5          | 10         | 53        | 24         | 29         | 1 1/4    |
| 32        | 10 | <b>729 510 108</b> | 10 | 0.070 | 5          | 10         | 60        | 27         | 33         | 1 1/2    |
| 40        | 10 | <b>729 510 109</b> | 10 | 0.130 | 3          | 12         | 74        | 31         | 39         | 2        |
| 50        | 10 | <b>729 510 110</b> | 5  | 0.170 | 3          | 14         | 83        | 33         | 46         | 2 1/4    |
| 63        | 10 | <b>729 510 111</b> | 10 | 0.340 | 3          | 18         | 103       | 40         | 58         | 2 3/4    |
| 75        | 10 | <b>729 510 112</b> | 2  | 0.461 | 3          | 18         | 135       | 47         | 62         | Tr 108x5 |
| 90        | 10 | <b>729 510 313</b> | 2  | 0.694 | 5          | 18         | 158       | 56         | 69         | Tr 128x5 |
| 110       | 10 | <b>729 510 114</b> | 1  | 1.069 | 5          | 11         | 158       | 66         | 72         | Tr 154x5 |

29 54 02



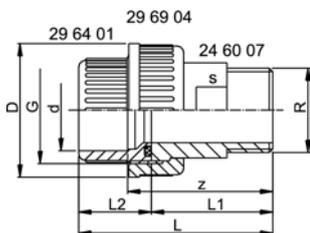
## Adaptor Unions, ABS / Stainless Steel metric - Rp

### Model:

- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Union Bush: Solvent cement socket ABS metric
- Union Nut: ABS
- Gasket: O-ring EPDM No. 48 41 00

| d<br>[mm] | Rp<br>[inch] | PN | EPDM<br>Code       | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|--------------|----|--------------------|-------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| 16        | 3/8          | 10 | <b>729 540 205</b> | 0.053 | 9          | 10         | 35        | 43        | 19         | 24         | 3/4         | 19        |
| 20        | 1/2          | 10 | <b>729 540 206</b> | 0.096 | 11         | 10         | 43        | 50        | 24         | 26         | 1           | 24        |
| 25        | 3/4          | 10 | <b>729 540 207</b> | 0.154 | 11         | 10         | 51        | 55        | 26         | 29         | 1 1/4       | 29        |
| 32        | 1            | 10 | <b>729 540 208</b> | 0.212 | 12         | 10         | 58        | 61        | 29         | 33         | 1 1/2       | 36        |
| 40        | 1 1/4        | 10 | <b>729 540 209</b> | 0.356 | 14         | 12         | 74        | 71        | 33         | 39         | 2           | 45        |
| 50        | 1 1/2        | 10 | <b>729 540 210</b> | 0.455 | 15         | 14         | 83        | 79        | 34         | 46         | 2 1/4       | 54        |
| 63        | 2            | 10 | <b>729 540 211</b> | 0.721 | 15         | 18         | 100       | 95        | 39         | 58         | 2 3/4       | 63        |

29 54 07



## Adaptor union ABS/stainless steel metric R

### Model:

- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Union Bush: Solvent cement socket ABS metric
- Union Nut: ABS
- Gasket: O-ring EPDM No. 48 41 00

| d<br>[mm] | R<br>[inch] | PN | EPDM<br>Code       | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|-------------|----|--------------------|-------|-----------|-----------|-----------|------------|------------|-------------|-----------|
| 16        | 3/8         | 10 | <b>729 540 705</b> | 0.073 | 40        | 35        | 54        | 30         | 24         | 3/4         | 19        |
| 20        | 1/2         | 10 | <b>729 540 706</b> | 0.126 | 44        | 43        | 60        | 34         | 26         | 1           | 24        |
| 25        | 3/4         | 10 | <b>729 540 707</b> | 0.174 | 46        | 51        | 65        | 36         | 29         | 1 1/4       | 32        |
| 32        | 1           | 10 | <b>729 540 708</b> | 0.262 | 50        | 58        | 72        | 40         | 33         | 1 1/2       | 37        |
| 40        | 1 1/4       | 10 | <b>729 540 709</b> | 0.476 | 58        | 74        | 84        | 46         | 39         | 2           | 48        |
| 50        | 1 1/2       | 10 | <b>729 540 710</b> | 0.535 | 62        | 83        | 93        | 48         | 46         | 2 1/4       | 54        |
| 63        | 2           | 10 | <b>729 540 711</b> | 0.931 | 73        | 100       | 111       | 55         | 58         | 2 3/4       | 69        |

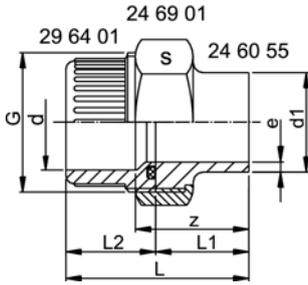
29 54 55



## Adaptor union ABS/stainless steel metric Welding end

### Model:

- Union End: Stainless Steel WN 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket ABS metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-Ring EPDM No. 48 41 00



| d<br>[mm] | d1<br>[mm] | PN | EPDM<br>Code | kg    | z<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|------------|----|--------------|-------|-----------|-----------|------------|------------|-----------|-------------|-----------|
| 16        | 17         | 10 | 729 545 505  | 0.101 | 28        | 42        | 18         | 24         | 1.6       | 3/4         | 32        |
| 20        | 21         | 10 | 729 545 506  | 0.176 | 32        | 48        | 22         | 26         | 2.0       | 1           | 41        |
| 25        | 27         | 10 | 729 545 507  | 0.204 | 33        | 52        | 23         | 29         | 2.0       | 1 1/4       | 46        |
| 32        | 34         | 10 | 729 545 508  | 0.313 | 36        | 58        | 26         | 33         | 2.0       | 1 1/2       | 55        |
| 40        | 42         | 10 | 729 545 509  | 0.493 | 38        | 64        | 26         | 39         | 2.0       | 2           | 68        |
| 50        | 48         | 10 | 729 545 510  | 0.566 | 42        | 73        | 28         | 46         | 2.0       | 2 1/4       | 74        |
| 63        | 60         | 10 | 729 545 511  | 0.902 | 50        | 88        | 32         | 58         | 2.6       | 2 3/4       | 88        |

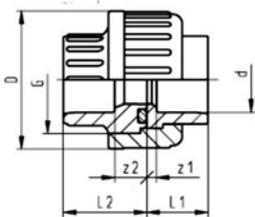
29 55 05



## Adaptor union ABS/brass metric Rp

### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00



| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | kg    | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|--------------|----|-------------|----|-------|-----------|-----------|------------|------------|------------|------------|-------------|-----------|
| 20        | 1/2          | 10 | 729 550 506 | 10 | 0.084 | 43        | 48        | 22         | 26         | 7          | 10         | 1           | 25        |
| 25        | 3/4          | 10 | 729 550 507 | 5  | 0.134 | 51        | 54        | 25         | 29         | 9          | 11         | 1 1/4       | 30        |
| 32        | 1            | 10 | 729 550 508 | 5  | 0.179 | 58        | 60        | 27         | 33         | 8          | 11         | 1 1/2       | 36        |
| 40        | 1 1/4        | 10 | 729 550 509 | 2  | 0.327 | 72        | 70        | 31         | 39         | 10         | 13         | 2           | 48        |
| 50        | 1 1/2        | 10 | 729 550 510 | 2  | 0.452 | 83        | 81        | 35         | 46         | 14         | 21         | 2 1/4       | 55        |
| 63        | 2            | 10 | 729 550 511 | 5  | 0.722 | 100       | 98        | 40         | 58         | 14         | 21         | 2 3/4       | 65        |

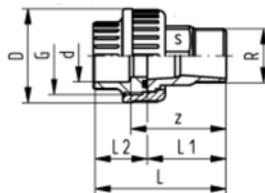
29 55 09



## Adaptor union ABS/brass metric R

### Model:

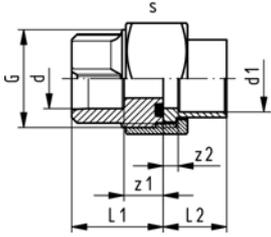
- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with taper male thread R
- Gasket: O-Ring EPDM No. 48 41 00



| d<br>[mm] | R<br>[inch] | PN | Code        | SP | kg    | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | z<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|-------------|----|-------------|----|-------|-----------|-----------|------------|------------|-----------|-------------|-----------|
| 20        | 1/2         | 10 | 729 550 906 | 10 | 0.123 | 43        | 63        | 37         | 26         | 47        | 1           | 25        |
| 25        | 1/2         | 10 | 729 550 957 | 5  | 0.185 | 51        | 66        | 37         | 29         | 48        | 1 1/4       | 30        |
| 25        | 3/4         | 10 | 729 550 907 | 5  | 0.293 | 51        | 71        | 42         | 29         | 52        | 1 1/4       | 30        |
| 25        | 1           | 10 | 729 550 967 | 5  | 0.293 | 51        | 75        | 46         | 29         | 57        | 1 1/4       | 30        |
| 32        | 1/2         | 10 | 729 550 958 | 5  | 0.283 | 58        | 70        | 37         | 33         | 48        | 1 1/2       | 36        |
| 32        | 3/4         | 10 | 729 550 968 | 5  | 0.283 | 58        | 75        | 42         | 33         | 53        | 1 1/2       | 36        |
| 32        | 1           | 10 | 729 550 908 | 5  | 0.374 | 58        | 79        | 46         | 33         | 57        | 1 1/2       | 36        |
| 40        | 1 1/4       | 10 | 729 550 909 | 2  | 0.503 | 72        | 91        | 52         | 39         | 65        | 2           | 46        |
| 50        | 2 1/2       | 10 | 729 550 910 | 2  | 0.666 | 83        | 102       | 56         | 46         | 71        | 2 1/4       | 55        |
| 63        | 2           | 10 | 729 550 911 | 8  | 1.071 | 100       | 125       | 67         | 58         | 87        | 2 3/4       | 65        |

20 51 01

## Adaptor union ABS/copper for soldering metric



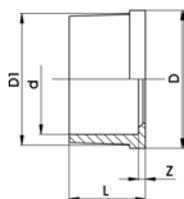
### Model:

- Union End: Copper
- Union Bush: Solvent cement socket ABS metric
- Union Nut: brass
- Gasket: O-ring EPDM No. 48 41 00

| d<br>[mm] | d1<br>[mm] | PN | Code               | kg    | L1<br>[mm] | L2<br>[mm] | z1<br>[mm] | z2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|------------|----|--------------------|-------|------------|------------|------------|------------|-------------|-----------|
| 16        | 18         | 10 | <b>720 510 105</b> | 0.079 | 25         | 17         | 11         | 4          | 3/4         | 32        |
| 20        | 22         | 10 | <b>720 510 106</b> | 0.140 | 26         | 19         | 9          | 3          | 1           | 40        |
| 25        | 28         | 10 | <b>720 510 107</b> | 0.269 | 29         | 28         | 9          | 6          | 1 1/4       | 50        |
| 32        | 35         | 10 | <b>720 510 108</b> | 0.198 | 33         | 27         | 10         | 5          | 1 1/2       | 52        |
| 40        | 42         | 10 | <b>720 510 109</b> | 0.350 | 39         | 35         | 12         | 6          | 2           | 66        |
| 50        | 54         | 10 | <b>720 510 110</b> | 0.438 | 46         | 46         | 14         | 3          | 2 1/4       | 72        |

# Union spare parts

29 60 01



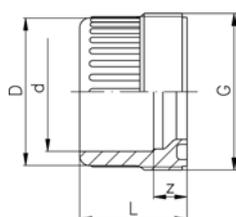
## Union end ABS metric

### Model:

- Solvent cement socket metric
- For adaptor unions 29 53 02, 29 53 07, 29 55 02, 29 55 07
- For union 29 51 01

| d<br>[mm] | PN | Code               | kg    | z<br>[mm] | L<br>[mm] | D<br>[mm] | D1<br>[mm] |
|-----------|----|--------------------|-------|-----------|-----------|-----------|------------|
| 16        | 10 | <b>729 600 105</b> | 0.004 | 5         | 19        | 24        | 22         |
| 20        | 10 | <b>729 600 106</b> | 0.007 | 4         | 21        | 30        | 28         |
| 25        | 10 | <b>729 600 107</b> | 0.012 | 5         | 24        | 39        | 36         |
| 32        | 10 | <b>729 600 108</b> | 0.016 | 5         | 27        | 44        | 41         |
| 40        | 10 | <b>729 600 109</b> | 0.042 | 3         | 31        | 57        | 53         |
| 50        | 10 | <b>729 600 110</b> | 0.045 | 3         | 34        | 63        | 59         |
| 63        | 10 | <b>729 600 111</b> | 0.084 | 3         | 41        | 78        | 74         |
| 75        | 10 | <b>729 600 162</b> | 0.109 | 3         | 47        | 101       | 91         |
| 90        | 10 | <b>729 600 163</b> | 0.178 | 5         | 56        | 121       | 108        |
| 110       | 10 | <b>729 600 164</b> | 0.295 | 5         | 66        | 146       | 131        |

29 64 01



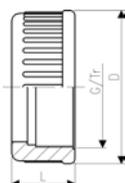
## Union bush ABS metric

### Model:

- Solvent cement socket metric
- For union 29 51 01
- Jointing face: With O-Ring groove

| d<br>[mm] | PN | Code               | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] | G/Tr    |
|-----------|----|--------------------|-------|-----------|-----------|-----------|---------|
| 16        | 10 | <b>729 640 105</b> | 0.008 | 10        | 24        | 24        | 3/4     |
| 20        | 10 | <b>729 640 106</b> | 0.011 | 10        | 28        | 26        | 1       |
| 25        | 10 | <b>729 640 107</b> | 0.016 | 10        | 33        | 29        | 1 1/4   |
| 32        | 10 | <b>729 640 108</b> | 0.027 | 10        | 41        | 33        | 1 1/2   |
| 40        | 10 | <b>729 640 109</b> | 0.046 | 12        | 50        | 39        | 2       |
| 50        | 10 | <b>729 640 110</b> | 0.058 | 14        | 62        | 46        | 2 1/4   |
| 63        | 10 | <b>729 640 111</b> | 0.111 | 18        | 77        | 58        | 2 3/4   |
| 75        | 10 | <b>729 640 112</b> | 0.160 | 18        | 93        | 62        | Tr108x5 |
| 90        | 10 | <b>729 640 123</b> | 0.274 | 18        | 110       | 69        | Tr128x5 |
| 110       | 10 | <b>729 640 114</b> | 0.330 | 11        | 133       | 72        | Tr154x6 |

29 69 04



## Union nut ABS

### Model:

- For union 23 51 01

| d<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | L<br>[mm] | d<br>[mm] | G/Tr    |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|---------|
| 16        | 10 | <b>729 690 405</b> | -  | 0.009 | 35        | 21        |           | 3/4     |
| 20        | 10 | <b>729 690 406</b> | -  | 0.014 | 43        | 23        |           | 1       |
| 25        | 10 | <b>729 690 407</b> | -  | 0.018 | 53        | 25        |           | 1 1/4   |
| 32        | 10 | <b>729 690 408</b> | -  | 0.024 | 60        | 27        |           | 1 1/2   |
| 40        | 10 | <b>729 690 409</b> | -  | 0.049 | 74        | 30        |           | 2       |
| 50        | 10 | <b>729 690 410</b> | -  | 0.070 | 83        | 34        |           | 2 1/4   |
| 63        | 10 | <b>729 690 411</b> | -  | 0.101 | 103       | 38        |           | 2 3/4   |
| 75        | 10 | <b>729 690 012</b> | -  | 0.188 | 135       | 40        |           | Tr108x5 |
| 90        | 10 | <b>729 690 013</b> | -  | 0.267 | 158       | 43        |           | Tr128x5 |
| 110       | 10 | <b>729 690 014</b> | -  | 0.423 | 188       | 48        |           | Tr154x6 |

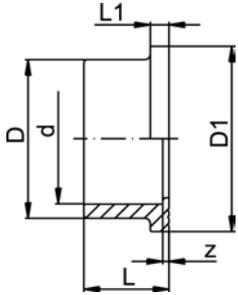
# Flange adaptor

29 79 01

## Flange adaptor ABS metric

**Model:**

- Flat sealing faces/serrated
- Counter part: Same flange adaptor
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Gasket: Flat gasket EPDM No. 48 40 03
- >d225 - maximum operating temperature: +40°C



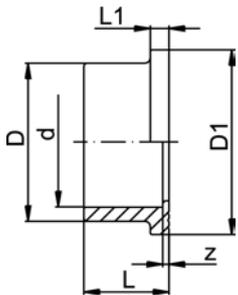
| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|------------|-----------|------------|
| 20        | 15         | 10 | <b>729 790 106</b> | 10 | 0.008 | 3         | 27        | 34         | 21        | 6          |
| 25        | 20         | 10 | <b>729 790 107</b> | 10 | 0.012 | 3         | 33        | 41         | 24        | 7          |
| 32        | 25         | 10 | <b>729 790 108</b> | 10 | 0.020 | 3         | 41        | 50         | 27        | 7          |
| 40        | 32         | 10 | <b>729 790 109</b> | 10 | 0.058 | 3         | 50        | 61         | 30        | 8          |
| 50        | 40         | 10 | <b>729 790 110</b> | 10 | 0.058 | 3         | 61        | 73         | 34        | 8          |
| 63        | 50         | 10 | <b>729 790 111</b> | 10 | 0.074 | 3         | 76        | 90         | 41        | 9          |
| 75        | 65         | 10 | <b>729 790 112</b> | 10 | 0.118 | 3         | 91        | 106        | 47        | 10         |
| 90        | 80         | 10 | <b>729 790 113</b> | 10 | 0.187 | 5         | 108       | 125        | 56        | 11         |
| 110       | 100        | 10 | <b>729 790 114</b> | 10 | 0.300 | 5         | 131       | 150        | 66        | 12         |
| 140       | 125        | 10 | <b>729 790 116</b> | 6  | 0.567 | 5         | 165       | 188        | 81        | 14         |
| 160       | 150        | 10 | <b>729 790 117</b> | 2  | 0.800 | 5         | 188       | 213        | 91        | 16         |
| 200       | 200        | 10 | <b>729 790 119</b> | 2  | 1.120 | 6         | 224       | 250        | 112       | 24         |
| 225       | 200        | 10 | <b>729 790 120</b> | 2  | 1.300 | 6         | 248       | 274        | 125       | 25         |
| 250       | 250        | 6  | <b>729 790 121</b> | -  | 1.000 | 9         | 274       | 303        | 140       | 23         |
| 280       | 250        | 6  | <b>729 790 122</b> | 1  | 2.161 | 5         | 307       | 329        | 151       | 23         |
| 315       | 300        | 6  | <b>729 790 123</b> | 1  | 3.321 | 8         | 346       | 379        | 172       | 27         |

29 79 11

## Flange adaptor ABS Combined jointing face flat and serrated Inch BS

**Model:**

- Gasket: Flange Gasket EPDM No. 48 40 01, FPM No. 49 40 01



| PN | Code               | SP | kg    | D1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|----|--------------------|----|-------|------------|-----------|-----------|------------|-----------|
| 15 | <b>729 791 106</b> | 10 | 0.007 | 34         | 27        | 21        | 6          | 3         |
| 15 | <b>729 791 107</b> | -  | 0.011 | 41         | 33        | 24        | 7          | 3         |
| 15 | <b>729 791 108</b> | -  | 0.018 | 27         | 41        | 27        | 7          | 3         |
| 15 | <b>729 791 109</b> | 10 | 0.027 | 32         | 50        | 32        | 8          | 3         |
| 15 | <b>729 791 110</b> | 10 | 0.050 | 33         | 61        | 33        | 8          | 3         |
| 15 | <b>729 791 111</b> | 5  | 0.078 | 40         | 77        | 40        | 9          | 3         |
| 10 | <b>729 790 112</b> | 10 | 0.118 | 106        | 91        | 47        | 10         | 3         |
| 15 | <b>729 791 113</b> | 10 | 0.187 | 56         | 108       | 56        | 11         | 5         |
| 15 | <b>729 791 115</b> | 10 | 0.309 | 69         | 136       | 69        | 12         | 5         |
| 10 | <b>729 790 116</b> | 6  | 0.567 | 188        | 165       | 81        | 14         | 5         |
| 12 | <b>729 791 117</b> | 2  | 0.912 | 96         | 198       | 96        | 16         | 5         |

# Branch saddles

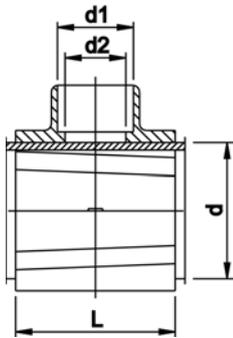
69 11 00



## Branch saddle ABS metric

### Model:

- For ABS-pipes
- Top saddle (ABS) for solvent cementing
- Bottom part and wedges made from PVC-U
- Outlet with solvent cement socket metric
- PN 10



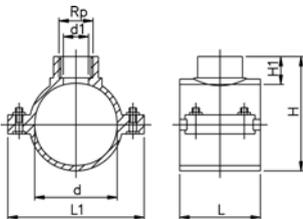
| d<br>[mm] | PN*<br>[bar] | Code               | kg    | d1<br>[mm] | d2<br>[mm] | Tapping-Ø<br>[mm] | L<br>[mm] |
|-----------|--------------|--------------------|-------|------------|------------|-------------------|-----------|
| 90        | 10           | <b>169 110 056</b> | 0.786 | 50         | 40         | 39                | 105       |
| 110       | 10           | <b>169 110 066</b> | 0.864 | 50         | 40         | 39                | 105       |
| 160       | 10           | <b>169 110 097</b> | 1.185 | 63         | 49         | 48                | 120       |
| 225       | 10           | <b>169 110 117</b> | 1.483 | 63         | 49         | 48                | 120       |

27 62 70



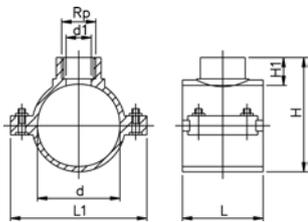
## 654X - Blue clamp saddles with stainless steel reinforcement ring, flat gasket and stainless steel bolts and nuts (PN16-PN10)

- water PN16-10
- suitable for PE and PVC pipes
- material: PP
- female thread: ISO 7 (parallel)
- gasket: O-ring with flat lip (NBR)
- reinforcement ring: stainless steel AISI430
- bolts and nuts : stainless steel (bolts:AISI304-A2; nuts:AISI316-A4)
- colour: blue
- B= N° of bolts
- M= bolt type
- (\*) with O-ring gasket



| d<br>[mm] | Rp<br>[inch] | PN | B | M     | Code               | SP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | H1<br>[mm] |
|-----------|--------------|----|---|-------|--------------------|----|-------|------------|-----------|------------|-----------|------------|
| * 20      | ½            | 16 | 2 | M8X40 | <b>727 627 001</b> | 1  | 0.121 | 12         | 46        | 77         | 59        | 26         |
| * 25      | ½            | 16 | 2 | M8X30 | <b>727 627 011</b> | 1  | 0.110 | 13         | 49        | 79         | 58        | 15         |
| * 25      | ¾            | 16 | 2 | M8X30 | <b>727 627 012</b> | 1  | 0.123 | 13         | 49        | 79         | 58        | 15         |
| * 32      | ½            | 16 | 2 | M8X30 | <b>727 627 021</b> | 1  | 0.103 | 14         | 49        | 79         | 62        | 20         |
| * 32      | ¾            | 16 | 2 | M8X30 | <b>727 627 022</b> | 1  | 0.115 | 14         | 49        | 79         | 62        | 20         |
| * 32      | 1            | 16 | 2 | M8X40 | <b>727 627 023</b> | 1  | 0.164 | 14         | 62        | 87         | 70        | 20         |
| 40        | ½            | 16 | 2 | M8X40 | <b>727 627 031</b> | 1  | 0.137 | 21         | 62        | 86         | 71        | 20         |
| 40        | ¾            | 16 | 2 | M8X40 | <b>727 627 032</b> | 1  | 0.148 | 21         | 62        | 86         | 71        | 20         |
| 40        | 1            | 16 | 2 | M8X40 | <b>727 627 033</b> | 1  | 0.155 | 21         | 62        | 86         | 70        | 19         |
| 50        | ½            | 16 | 4 | M8X40 | <b>727 627 041</b> | 1  | 0.200 | 21         | 62        | 86         | 82        | 20         |
| 50        | ¾            | 16 | 4 | M8X40 | <b>727 627 042</b> | 1  | 0.213 | 21         | 62        | 86         | 82        | 20         |
| 50        | 1            | 16 | 4 | M8X40 | <b>727 627 043</b> | 1  | 0.221 | 21         | 62        | 86         | 82        | 20         |
| 50        | 1 ¼          | 16 | 4 | M8X40 | <b>727 627 044</b> | 1  | 0.225 | 21         | 62        | 86         | 82        | 20         |
| 63        | ½            | 16 | 4 | M8X40 | <b>727 627 051</b> | 1  | 0.216 | 18         | 62        | 101        | 96        | 21         |
| 63        | ¾            | 16 | 4 | M8X40 | <b>727 627 052</b> | 1  | 0.226 | 24         | 62        | 101        | 96        | 21         |
| 63        | 1            | 16 | 4 | M8X40 | <b>727 627 053</b> | 1  | 0.232 | 31         | 62        | 101        | 96        | 21         |
| 63        | 1 ¼          | 16 | 4 | M8X40 | <b>727 627 054</b> | 1  | 0.272 | 31         | 62        | 101        | 96        | 21         |
| 63        | 1 ½          | 16 | 4 | M8X40 | <b>727 627 055</b> | 1  | 0.279 | 31         | 62        | 101        | 96        | 21         |
| 75        | ½            | 16 | 4 | M8X60 | <b>727 627 061</b> | 1  | 0.364 | 16         | 79        | 123        | 102       | 14         |
| 75        | ¾            | 16 | 4 | M8X60 | <b>727 627 062</b> | 1  | 0.376 | 21         | 79        | 123        | 104       | 16         |
| 75        | 1            | 16 | 4 | M8X60 | <b>727 627 063</b> | 1  | 0.384 | 27         | 79        | 123        | 107       | 19         |
| 75        | 1 ¼          | 16 | 4 | M8X60 | <b>727 627 064</b> | 1  | 0.421 | 35         | 79        | 123        | 109       | 21         |
| 75        | 1 ½          | 16 | 4 | M8X60 | <b>727 627 065</b> | 1  | 0.428 | 42         | 79        | 123        | 109       | 21         |
| 75        | 2            | 16 | 4 | M8X60 | <b>727 627 066</b> | 1  | 0.437 | 53         | 79        | 123        | 112       | 24         |
| 90        | ½            | 16 | 4 | M8X60 | <b>727 627 071</b> | 1  | 0.412 | 16         | 87        | 138        | 116       | 14         |

table continued next page



| d<br>[mm] | Rp<br>[inch] | PN | B | M       | Code               | SP | kg    | d1<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | H1<br>[mm] |
|-----------|--------------|----|---|---------|--------------------|----|-------|------------|-----------|------------|-----------|------------|
| 90        | ¾            | 16 | 4 | M8X60   | <b>727 627 072</b> | 1  | 0.421 | 21         | 87        | 138        | 118       | 16         |
| 90        | 1            | 16 | 4 | M8X60   | <b>727 627 073</b> | 1  | 0.432 | 27         | 87        | 138        | 121       | 19         |
| 90        | 1 ¼          | 16 | 4 | M8X60   | <b>727 627 074</b> | 1  | 0.472 | 35         | 87        | 138        | 123       | 21         |
| 90        | 1 ½          | 16 | 4 | M8X60   | <b>727 627 075</b> | 1  | 0.474 | 42         | 87        | 138        | 123       | 21         |
| 90        | 2            | 16 | 4 | M8X60   | <b>727 627 076</b> | 1  | 0.481 | 53         | 87        | 138        | 126       | 24         |
| 110       | ½            | 16 | 6 | M8X50   | <b>727 627 081</b> | 1  | 0.511 | 15         | 99        | 152        | 150       | 23         |
| 110       | ¾            | 16 | 6 | M8X50   | <b>727 627 082</b> | 1  | 0.523 | 20         | 99        | 152        | 150       | 23         |
| 110       | 1            | 16 | 6 | M8X50   | <b>727 627 083</b> | 1  | 0.533 | 26         | 99        | 152        | 150       | 23         |
| 110       | 1 ¼          | 16 | 6 | M8X50   | <b>727 627 084</b> | 1  | 0.565 | 35         | 99        | 152        | 150       | 23         |
| 110       | 1 ½          | 16 | 6 | M8X50   | <b>727 627 085</b> | 1  | 0.566 | 41         | 99        | 152        | 150       | 23         |
| 110       | 2            | 16 | 6 | M8X50   | <b>727 627 086</b> | 1  | 0.570 | 51         | 99        | 152        | 150       | 23         |
| * 110     | 3            | 6  | 6 | M8X70   | <b>727 627 087</b> | 12 | 1.108 | 85         | 99        | 152        | 150       | 23         |
| 125       | ½            | 16 | 6 | M8X50   | <b>727 627 091</b> | 1  | 0.578 | 15         | 101       | 166        | 169       | 24         |
| 125       | ¾            | 16 | 6 | M8X50   | <b>727 627 092</b> | 1  | 0.590 | 20         | 101       | 166        | 169       | 24         |
| 125       | 1            | 16 | 6 | M8X50   | <b>727 627 093</b> | 1  | 0.592 | 26         | 101       | 166        | 169       | 24         |
| 125       | 1 ¼          | 16 | 6 | M8X50   | <b>727 627 094</b> | 1  | 0.629 | 35         | 101       | 166        | 168       | 23         |
| 125       | 1 ½          | 16 | 6 | M8X50   | <b>727 627 095</b> | 1  | 0.627 | 41         | 101       | 166        | 168       | 23         |
| 125       | 2            | 16 | 6 | M8X50   | <b>727 627 096</b> | 1  | 0.640 | 50         | 101       | 166        | 168       | 23         |
| * 125     | 3            | 6  | 6 | M8X70   | <b>727 627 097</b> | 12 | 1.009 | 85         | 139       | 178        | 180       | 37         |
| * 125     | 4            | 6  | 6 | M8X70   | <b>727 627 098</b> | 12 | 1.051 | 90         | 139       | 178        | 181       | 38         |
| 140       | ½            | 16 | 6 | M8X70   | <b>727 627 101</b> | 20 | 0.830 | 18         | 114       | 207        | 191       | 25         |
| 140       | ¾            | 16 | 6 | M8X70   | <b>727 627 102</b> | 20 | 0.843 | 24         | 114       | 207        | 191       | 25         |
| 140       | 1            | 16 | 6 | M8X70   | <b>727 627 103</b> | 20 | 0.849 | 30         | 114       | 207        | 191       | 25         |
| 140       | 1 ¼          | 16 | 6 | M8X70   | <b>727 627 104</b> | 20 | 0.880 | 38         | 114       | 207        | 191       | 25         |
| 140       | 1 ½          | 16 | 6 | M8X70   | <b>727 627 105</b> | 20 | 0.892 | 45         | 114       | 207        | 191       | 24         |
| 140       | 2            | 16 | 6 | M8X70   | <b>727 627 106</b> | 20 | 0.898 | 50         | 114       | 207        | 191       | 24         |
| * 140     | 3            | 10 | 6 | M8X70   | <b>727 627 107</b> | 10 | 1.132 | 85         | 142       | 208        | 201       | 38         |
| * 140     | 4            | 10 | 6 | M8X70   | <b>727 627 108</b> | 10 | 1.196 | 90         | 142       | 208        | 201       | 38         |
| 160       | ½            | 16 | 6 | M8X70   | <b>727 627 111</b> | 20 | 0.899 | 18         | 114       | 226        | 215       | 24         |
| 160       | ¾            | 16 | 6 | M8X70   | <b>727 627 112</b> | 20 | 0.908 | 24         | 114       | 226        | 215       | 24         |
| 160       | 1            | 16 | 6 | M8X70   | <b>727 627 113</b> | 20 | 0.917 | 30         | 114       | 226        | 215       | 24         |
| 160       | 1 ¼          | 16 | 6 | M8X70   | <b>727 627 114</b> | 20 | 0.950 | 37         | 114       | 226        | 215       | 24         |
| 160       | 1 ½          | 16 | 6 | M8X70   | <b>727 627 115</b> | 20 | 0.954 | 45         | 114       | 226        | 215       | 24         |
| 160       | 2            | 16 | 6 | M8X70   | <b>727 627 116</b> | 20 | 0.956 | 51         | 114       | 226        | 215       | 24         |
| * 160     | 3            | 10 | 6 | M8X70   | <b>727 627 117</b> | 10 | 1.185 | 84         | 142       | 228        | 222       | 24         |
| * 160     | 4            | 10 | 6 | M8X70   | <b>727 627 118</b> | 10 | 1.262 | 90         | 142       | 228        | 222       | 24         |
| * 180     | 1            | 10 | 6 | M10x80  | <b>727 627 123</b> | 7  | 1.980 | 30         | 169       | 262        | 265       | 38         |
| * 180     | 1 ¼          | 10 | 6 | M10x80  | <b>727 627 124</b> | 7  | 2.013 | 36         | 169       | 262        | 265       | 38         |
| * 180     | 1 ½          | 10 | 6 | M10x80  | <b>727 627 125</b> | 7  | 2.007 | 42         | 169       | 262        | 265       | 38         |
| * 180     | 2            | 10 | 6 | M10x80  | <b>727 627 126</b> | 7  | 2.018 | 54         | 169       | 262        | 265       | 38         |
| * 180     | 3            | 10 | 6 | M10x80  | <b>727 627 127</b> | 7  | 2.043 | 84         | 169       | 262        | 265       | 38         |
| * 180     | 4            | 10 | 6 | M10x80  | <b>727 627 128</b> | 7  | 2.092 | 108        | 169       | 262        | 265       | 38         |
| * 200     | 1 ½          | 10 | 6 | M10x80  | <b>727 627 135</b> | 8  | 1.966 | 45         | 169       | 262        | 265       | 38         |
| * 200     | 2            | 10 | 6 | M10x80  | <b>727 627 136</b> | 7  | 1.946 | 54         | 169       | 262        | 265       | 38         |
| * 200     | 3            | 10 | 6 | M10x80  | <b>727 627 137</b> | 7  | 1.980 | 85         | 169       | 262        | 265       | 38         |
| * 200     | 4            | 10 | 6 | M10x80  | <b>727 627 138</b> | 7  | 2.020 | 103        | 169       | 262        | 267       | 40         |
| * 225     | 1 ½          | 10 | 6 | M10x80  | <b>727 627 145</b> | 5  | 2.049 | 45         | 145       | 287        | 287       | 26         |
| * 225     | 2            | 10 | 6 | M10x80  | <b>727 627 146</b> | 5  | 2.050 | 51         | 145       | 287        | 287       | 26         |
| * 225     | 3            | 10 | 6 | M10x80  | <b>727 627 147</b> | 5  | 2.150 | 85         | 174       | 287        | 295       | 37         |
| * 225     | 4            | 10 | 6 | M10x80  | <b>727 627 148</b> | 5  | 2.184 | 103        | 174       | 287        | 295       | 38         |
| * 250     | 2            | 10 | 6 | M10x80  | <b>727 627 156</b> | 5  | 2.472 | 55         | 178       | 310        | 314       | 38         |
| * 250     | 3            | 10 | 6 | M10x80  | <b>727 627 157</b> | 5  | 2.466 | 85         | 178       | 310        | 314       | 38         |
| * 250     | 4            | 10 | 6 | M10x80  | <b>727 627 158</b> | 5  | 2.478 | 103        | 178       | 310        | 314       | 38         |
| 280       | 2            | 10 | 6 | M10x160 | <b>727 627 166</b> | 3  | 3.440 | 51         | 179       | 335        | 326       | 31         |
| * 280     | 3            | 10 | 6 | M10x160 | <b>727 627 167</b> | 3  | 3.543 | 78         | 179       | 335        | 338       | 41         |
| * 280     | 4            | 10 | 6 | M10x160 | <b>727 627 168</b> | 3  | 3.585 | 98         | 179       | 335        | 338       | 46         |
| 315       | 2            | 10 | 6 | M10x110 | <b>727 627 176</b> | 3  | 4.156 | 51         | 246       | 390        | 350       | 31         |
| * 315     | 3            | 10 | 6 | M10x110 | <b>727 627 177</b> | 3  | 4.267 | 78         | 246       | 390        | 363       | 41         |
| * 315     | 4            | 10 | 6 | M10x110 | <b>727 627 178</b> | 3  | 4.279 | 98         | 246       | 390        | 363       | 46         |

# Solvent Cements and Tools

99 29 80



## Tangit ABS solvent cement

- 0,65 kg can (net)

| Code        | kg    | Description  |
|-------------|-------|--------------|
| 799 298 022 | 0.751 | tin: 0.65 kg |

99 29 80



## Tangit cleaner

**Model:**

- For PVC-U, PVC-C, ABS
- 1 litre tin

| Code        | kg    |
|-------------|-------|
| 799 298 010 | 0.868 |

99 29 80



## Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

| Code        | kg    |
|-------------|-------|
| 799 298 028 | 0.030 |

99 29 90



## Round brush

| d-d [mm] |                             | Code        | kg    |
|----------|-----------------------------|-------------|-------|
| 6 - 10   | 4 mm (for Fittings 6-10mm)  | 799 299 001 | 0.005 |
| 12 - 32  | 8 mm (for Fittings 12-32mm) | 799 299 002 | 0.009 |

99 29 90



## Flat brush

| d-d [mm]  |                                  | Code        | kg    |
|-----------|----------------------------------|-------------|-------|
| 40 - 63   | 25x3 mm (for Fittings 40-63mm)   | 799 299 003 | 0.015 |
| 75 - 225  | 50x5 mm (for Fittings 75-225mm)  | 799 299 004 | 0.026 |
| 250 - 400 | 75x6 mm (for Fittings 250-400mm) | 799 299 005 | 0.045 |

90 30 90



## Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

| d-d [mm] | Code        | SP | kg    |
|----------|-------------|----|-------|
| 16 - 200 | 790 309 003 | 1  | 1.100 |
| 63 - 400 | 790 309 004 | 1  | 2.500 |

90 10 90

**PPC Plastic pipe cutter**

- For cutting plastic pipes d10 - d160



| d-d<br>[mm] | Article                  | Code               | kg    |  |
|-------------|--------------------------|--------------------|-------|--|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |  |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |  |
| 110 - 160   | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |  |

90 10 90

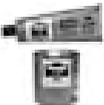
**Replacement cutting wheels**

- for plastic pipe cutter



| d-d<br>[mm] | Article                   | Code               | kg    |  |
|-------------|---------------------------|--------------------|-------|--|
| 10 - 63     | SR 63 max. s=7,2 mm       | <b>790 109 011</b> | 0.004 |  |
| 50 - 110    | SR 110/160 max. s=12,7 mm | <b>790 109 012</b> | 0.015 |  |
| 110 - 160   | SR 160 max. s=19,0 mm     | <b>790 109 013</b> | 0.023 |  |

# PVC-U metric

|   |   | Page |
|---|---|------|
|   | Pressure/temperature diagram for PVC-U    | 278  |
|    | Pipes                                     | 279  |
|    | Pipe fittings for solvent cement jointing | 280  |
|    | Adaptor fittings                          | 287  |
|    | PRO-FIT Fittings                          | 292  |
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|  | Flange adaptors                           | 300  |
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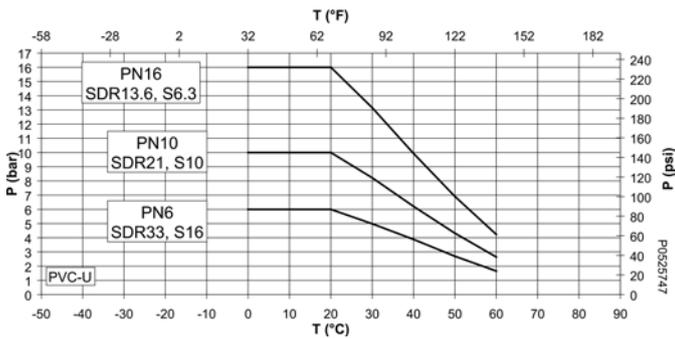
## Pressure/temperature diagram for PVC-U

The following pressure/temperature diagram for PVC-U pipes and fittings is valid for a lifetime of 25 years.

The design factor of 2.5 recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

**Remark:** Please take into account the pressure/temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.



P Permissible pressure in bar, psi

T Temperature in °C, °F

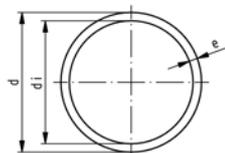
**Attention:** PVC-U solvent cement jointing fittings d200 to 280 from Georg Fischer are designed and tested to a nominal pressure of PN10. Sizes d315 to d400 are designed and tested to a nominal pressure of PN6.

Our experience and tests show that pipes equal or greater than d315 can be slightly oval, which could produce a cementing gap of more than 0.6 mm. A maximum gap of 0.6 mm is allowed in accordance with DIN 16970.

Georg Fischer therefore recommends, that pipes equal or greater than d315 should be operated at a maximum working pressure of 6 bar. Please observe also the special information for these dimensions in the solvent cementing instruction for PVC-U.

# Pipes

61 01 70



## Pipe PVC-U grey Series S10 SDR21 nominal pressure PN10

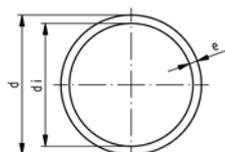
### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

\* See comments regarding PN in +GF+ planning fundamentals

| d<br>[mm] | PN | Code        | e<br>[mm] | di<br>[mm] | Weight<br>[kg/m] |
|-----------|----|-------------|-----------|------------|------------------|
| 25        | 10 | 161 017 082 | 1.5       | 22.0       | 0.174            |
| 32        | 10 | 161 017 083 | 1.8       | 28.4       | 0.264            |
| 40        | 10 | 161 017 084 | 1.9       | 36.2       | 0.350            |
| 50        | 10 | 161 017 085 | 2.4       | 45.2       | 0.552            |
| 63        | 10 | 161 017 086 | 3.0       | 57.0       | 0.854            |
| 75        | 10 | 161 017 087 | 3.6       | 67.8       | 1.220            |
| 90        | 10 | 161 017 088 | 4.3       | 81.4       | 1.750            |
| 110       | 10 | 161 017 089 | 5.3       | 99.4       | 2.610            |
| 125       | 10 | 161 017 090 | 6.0       | 113.0      | 3.340            |
| 140       | 10 | 161 017 091 | 6.7       | 126.6      | 4.180            |
| 160       | 10 | 161 017 092 | 7.7       | 144.6      | 5.470            |
| 180       | 10 | 161 017 093 | 8.6       | 162.8      | 6.880            |
| 200       | 10 | 161 017 094 | 9.6       | 180.8      | 8.510            |
| 225       | 10 | 161 017 095 | 10.8      | 203.4      | 10.800           |
| 250       | 10 | 161 017 096 | 11.9      | 226.2      | 13.200           |
| 280       | 10 | 161 017 097 | 13.4      | 253.2      | 16.000           |
| * 315     | 6  | 161 017 098 | 15.0      | 285.0      | 20.900           |

61 01 71



## Pipe PVC-U grey Series S6.3 SDR13.6 nominal pressure PN16

### Model:

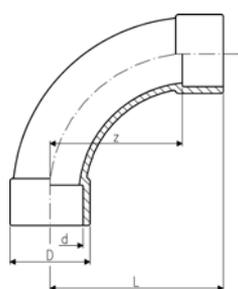
- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code        | e<br>[mm] | di<br>[mm] | Weight<br>[kg/m] |
|-----------|----|-------------|-----------|------------|------------------|
| 12        | 16 | 161 017 104 | 1.0       | 10.0       | 0.055            |
| 16        | 16 | 161 017 105 | 1.2       | 13.6       | 0.090            |
| 20        | 16 | 161 017 106 | 1.5       | 17.0       | 0.137            |
| 25        | 16 | 161 017 107 | 1.9       | 21.2       | 0.212            |
| 32        | 16 | 161 017 108 | 2.4       | 27.2       | 0.342            |
| 40        | 16 | 161 017 109 | 3.0       | 34.0       | 0.525            |
| 50        | 16 | 161 017 110 | 3.7       | 42.6       | 0.809            |
| 63        | 16 | 161 017 111 | 4.7       | 53.6       | 1.290            |
| 75        | 16 | 161 017 112 | 5.6       | 63.8       | 1.820            |
| 90        | 16 | 161 017 113 | 6.7       | 76.6       | 2.610            |
| 110       | 16 | 161 017 114 | 8.1       | 93.8       | 3.900            |
| 125       | 16 | 161 017 115 | 9.2       | 106.6      | 5.010            |
| 140       | 16 | 161 017 116 | 10.8      | 118.4      | 6.270            |
| 160       | 16 | 161 017 117 | 11.8      | 136.4      | 8.170            |

# Pipe fittings for solvent cement jointing

## Bend 90° PVC-U metric

21 00 01

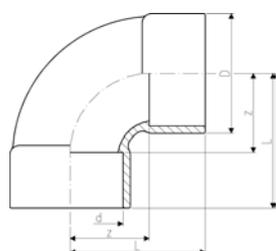


| d [mm] | PN | Code        | SP | GP  | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|-----|-------|--------|--------|--------|
| 20     | 16 | 721 000 106 | 10 | 100 | 0.028 | 40     | 27     | 56     |
| 25     | 16 | 721 000 107 | 10 | 100 | 0.049 | 50     | 33     | 69     |
| 32     | 16 | 721 000 108 | 10 | 50  | 0.067 | 64     | 38     | 86     |
| 40     | 16 | 721 000 109 | 30 | -   | 0.130 | 80     | 47     | 106    |
| 50     | 16 | 721 000 110 | 5  | -   | 0.277 | 100    | 61     | 131    |
| 63     | 16 | 721 000 111 | 5  | -   | 0.515 | 126    | 76     | 164    |
| 75     | 16 | 721 000 112 | 5  | -   | 0.786 | 150    | 90     | 194    |
| 90     | 16 | 721 000 113 | 5  | -   | 1.334 | 180    | 108    | 231    |
| 110    | 16 | 721 000 114 | 5  | -   | 2.960 | 220    | 137    | 281    |
| 140    | 16 | 721 000 116 | 2  | -   | 5.100 | 280    | 168    | 356    |
| 160    | 16 | 721 000 117 | 1  | -   | 7.300 | 320    | 192    | 406    |

21 01 01

## Bend 90° short pattern PVC-U metric

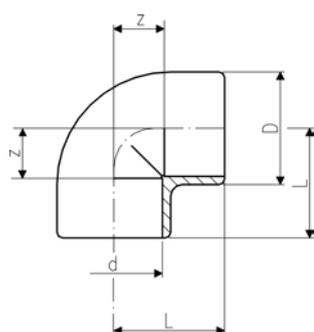
\* See comments regarding PN in +GF+ planning fundamentals



| d [mm] | PN | Code        | SP | GP | kg     | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|----|--------|--------|--------|--------|
| 225    | 10 | 721 010 120 | 1  | 1  | 7.400  | 168    | 256    | 287    |
| 280    | 10 | 721 010 122 | 1  | -  | 16.100 | 210    | 318    | 357    |
| * 315  | 6  | 721 010 123 | 1  | -  | 21.200 | 237    | 356    | 402    |
| 400    | 6  | 721 010 125 | 1  | -  | 30.000 | 300    | 442    | 521    |

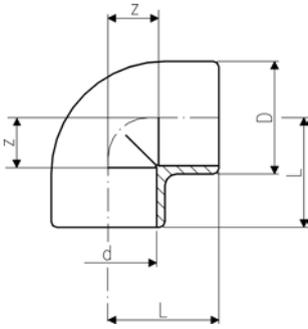
21 10 01

## Elbow 90° PVC-U metric



| d [mm] | PN | Code        | SP | GP  | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|-----|-------|--------|--------|--------|
| 6      | 16 | 721 100 101 | 10 | 700 | 0.004 | 4      | 11     | 16     |
| 8      | 16 | 721 100 102 | 10 | 550 | 0.004 | 5      | 13     | 17     |
| 10     | 16 | 721 100 103 | 10 | 500 | 0.004 | 6      | 14     | 18     |
| 12     | 16 | 721 100 104 | 10 | 150 | 0.006 | 7      | 17     | 19     |
| 16     | 16 | 721 100 105 | 10 | 100 | 0.009 | 9      | 21     | 23     |
| 20     | 16 | 721 100 106 | 10 | 100 | 0.013 | 11     | 25     | 27     |
| 25     | 16 | 721 100 107 | 10 | 100 | 0.025 | 14     | 32     | 33     |
| 32     | 16 | 721 100 108 | 10 | 100 | 0.041 | 17     | 40     | 39     |
| 40     | 16 | 721 100 109 | 10 | 50  | 0.064 | 23     | 47     | 49     |
| 50     | 16 | 721 100 110 | 10 | 100 | 0.109 | 26     | 59     | 57     |
| 63     | 16 | 721 100 111 | 10 | -   | 0.204 | 33     | 73     | 71     |
| 75     | 16 | 721 100 112 | 5  | -   | 0.329 | 40     | 87     | 83     |
| 90     | 16 | 721 100 113 | 5  | -   | 0.573 | 46     | 105    | 97     |
| 110    | 16 | 721 100 114 | 4  | -   | 1.036 | 55     | 128    | 116    |
| 125    | 16 | 721 100 115 | 1  | -   | 1.460 | 63     | 146    | 131    |
| 140    | 16 | 721 100 116 | 4  | -   | 2.340 | 70     | 162    | 146    |
| 160    | 16 | 721 100 117 | 2  | -   | 3.475 | 80     | 185    | 166    |

table continued next page



| d [mm] | PN | Code               | SP | GP | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|--------------------|----|----|-------|--------|--------|--------|
| 200    | 10 | <b>721 100 119</b> | 1  | -  | 4.700 | 101    | 225    | 207    |
| 225    | 10 | <b>721 100 120</b> | 1  | 1  | 6.950 | 114    | 252    | 233    |
| 250    | 10 | <b>721 100 121</b> | 1  | -  | 9.500 | 131    | 282    | 263    |

## 21 15 01

### Elbow 45° PVC-U metric

\* See comments regarding PN in +GF+ planning fundamentals

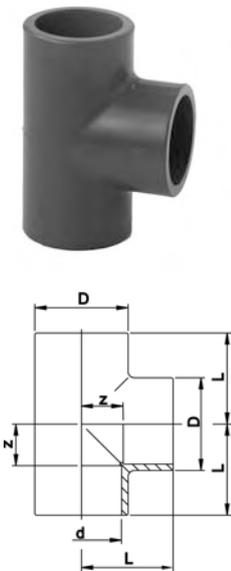


| d [mm] | PN | Code               | SP | GP  | kg     | z [mm] | D [mm] | L [mm] |
|--------|----|--------------------|----|-----|--------|--------|--------|--------|
| 16     | 16 | <b>721 150 105</b> | 10 | 100 | 0.008  | 5      | 21     | 19     |
| 20     | 16 | <b>721 150 106</b> | 10 | 100 | 0.011  | 5      | 25     | 21     |
| 25     | 16 | <b>721 150 107</b> | 10 | 100 | 0.018  | 6      | 31     | 25     |
| 32     | 16 | <b>721 150 108</b> | 10 | 100 | 0.029  | 8      | 38     | 30     |
| 40     | 16 | <b>721 150 109</b> | 10 | 50  | 0.049  | 10     | 47     | 36     |
| 50     | 16 | <b>721 150 110</b> | 5  | 50  | 0.089  | 12     | 59     | 43     |
| 63     | 16 | <b>721 150 111</b> | 5  | 50  | 0.161  | 14     | 73     | 52     |
| 75     | 16 | <b>721 150 112</b> | 5  | -   | 0.250  | 17     | 87     | 61     |
| 90     | 16 | <b>721 150 113</b> | 5  | -   | 0.431  | 20     | 105    | 71     |
| 110    | 16 | <b>721 150 114</b> | 5  | -   | 0.733  | 25     | 127    | 86     |
| 125    | 16 | <b>721 150 115</b> | 1  | -   | 1.162  | 28     | 146    | 97     |
| 140    | 16 | <b>721 150 116</b> | 1  | -   | 1.639  | 32     | 162    | 108    |
| 160    | 16 | <b>721 150 117</b> | 4  | -   | 2.520  | 36     | 185    | 122    |
| 200    | 10 | <b>721 150 119</b> | 2  | -   | 3.300  | 43     | 225    | 149    |
| 225    | 10 | <b>721 150 120</b> | 1  | -   | 4.900  | 49     | 250    | 168    |
| 250    | 10 | <b>721 150 121</b> | 1  | -   | 7.150  | 60     | 282    | 192    |
| 280    | 10 | <b>721 150 122</b> | 1  | -   | 10.800 | 66     | 318    | 213    |
| * 315  | 10 | <b>721 150 123</b> | 1  | -   | 14.900 | 74     | 356    | 239    |
| 400    | 6  | <b>721 150 125</b> | 1  | -   | 24.000 | 94     | 442    | 302    |

## 21 20 01

### Tee 90° equal PVC-U metric

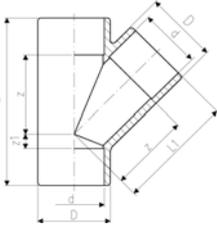
\* See comments regarding PN in +GF+ planning fundamentals



| d [mm] | PN | Code               | SP | GP  | kg     | z [mm] | D [mm] | L [mm] |
|--------|----|--------------------|----|-----|--------|--------|--------|--------|
| 6      | 16 | <b>721 200 101</b> | 10 | 550 | 0.004  | 4      | 11     | 16     |
| 8      | 16 | <b>721 200 102</b> | 10 | 500 | 0.008  | 5      | 13     | 17     |
| 10     | 16 | <b>721 200 103</b> | 10 | 350 | 0.008  | 6      | 16     | 18     |
| 12     | 16 | <b>721 200 104</b> | 10 | 280 | 0.016  | 7      | 19     | 19     |
| 16     | 16 | <b>721 200 105</b> | 10 | 100 | 0.012  | 9      | 21     | 23     |
| 20     | 16 | <b>721 200 106</b> | 10 | 100 | 0.017  | 11     | 25     | 27     |
| 25     | 16 | <b>721 200 107</b> | 10 | 100 | 0.029  | 14     | 31     | 33     |
| 32     | 16 | <b>721 200 108</b> | 10 | 100 | 0.055  | 17     | 38     | 39     |
| 40     | 16 | <b>721 200 109</b> | 10 | 50  | 0.100  | 23     | 48     | 49     |
| 50     | 16 | <b>721 200 110</b> | 10 | -   | 0.153  | 26     | 58     | 57     |
| 63     | 16 | <b>721 200 111</b> | 10 | -   | 0.334  | 33     | 73     | 71     |
| 75     | 16 | <b>721 200 112</b> | 5  | -   | 0.473  | 39     | 87     | 83     |
| 90     | 16 | <b>721 200 113</b> | 5  | -   | 0.822  | 46     | 105    | 97     |
| 110    | 16 | <b>721 200 114</b> | 6  | -   | 1.392  | 55     | 127    | 116    |
| 125    | 16 | <b>721 200 115</b> | 2  | -   | 2.400  | 66     | 151    | 135    |
| 140    | 16 | <b>721 200 116</b> | 1  | 1   | 3.546  | 71     | 169    | 147    |
| 160    | 16 | <b>721 200 117</b> | 1  | 1   | 4.963  | 81     | 193    | 167    |
| 200    | 10 | <b>721 200 119</b> | 1  | -   | 5.763  | 101    | 225    | 207    |
| 225    | 10 | <b>721 200 120</b> | 1  | -   | 9.067  | 114    | 256    | 233    |
| 250    | 10 | <b>721 200 121</b> | 1  | -   | 12.500 | 132    | 282    | 263    |
| 280    | 10 | <b>721 200 122</b> | 1  | -   | 17.480 | 152    | 318    | 298    |
| * 315  | 10 | <b>721 200 123</b> | 1  | -   | 24.350 | 168    | 356    | 332    |
| 400    | 6  | <b>721 200 125</b> | 1  | -   | 39.500 | 214    | 442    | 420    |

21 25 01

**Tee 45° PVC-U metric**

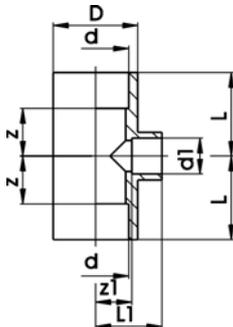


| d<br>[mm] | PN | Code        | SP  | GP | kg     | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|----|-------------|-----|----|--------|-----------|------------|-----------|-----------|------------|
| 10        | 10 | 721 250 103 | 100 | -  | 0.013  | 18        | 4          | 16        | 46        | 30         |
| 12        | 10 | 721 250 104 | 100 | -  | 0.014  | 21        | 4          | 18        | 49        | 33         |
| 16        | 10 | 721 250 105 | 100 | -  | 0.023  | 25        | 5          | 23        | 58        | 39         |
| 20        | 10 | 721 250 106 | 10  | 50 | 0.037  | 30        | 6          | 28        | 68        | 46         |
| 25        | 10 | 721 250 107 | 10  | 50 | 0.057  | 36        | 9          | 33        | 83        | 55         |
| 32        | 10 | 721 250 108 | 10  | 50 | 0.096  | 45        | 10         | 41        | 99        | 67         |
| 40        | 10 | 721 250 109 | 10  | -  | 0.157  | 56        | 10         | 50        | 118       | 82         |
| 50        | 10 | 721 250 110 | 10  | -  | 0.266  | 66        | 12         | 60        | 140       | 97         |
| 63        | 10 | 721 250 111 | 5   | -  | 0.435  | 85        | 14         | 74        | 175       | 123        |
| 75        | 6  | 721 250 112 | 5   | -  | 0.810  | 101       | 18         | 91        | 207       | 145        |
| 90        | 6  | 721 250 113 | 1   | -  | 1.290  | 122       | 20         | 107       | 245       | 173        |
| 110       | 6  | 721 250 114 | 3   | -  | 2.540  | 149       | 27         | 134       | 298       | 210        |
| 125       | 6  | 721 250 115 | 2   | -  | 3.605  | 167       | 30         | 147       | 335       | 236        |
| 140       | 6  | 721 250 116 | 1   | -  | 3.800  | 190       | 34         | 168       | 376       | 266        |
| 160       | 6  | 721 250 117 | 1   | -  | 6.600  | 213       | 41         | 190       | 428       | 300        |
| 200       | 6  | 721 250 119 | 1   | -  | 11.650 | 265       | 48         | 232       | 527       | 372        |
| 225       | 6  | 721 250 120 | 1   | -  | 15.800 | 296       | 54         | 260       | 590       | 416        |
| 250       | 6  | 721 250 121 | 1   | -  | 20.350 | 330       | 60         | 286       | 654       | 462        |

21 20 01

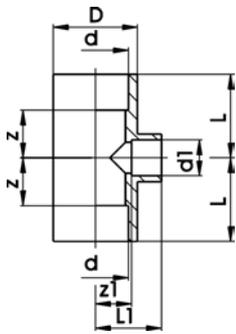
**Tee 90° reducing PVC-U metric**

\* See comments regarding PN in +GF+ planning fundamentals



| d<br>[mm] | d1<br>[mm] | PN | Code        | SP | GP  | kg     | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|----|-----|--------|-----------|------------|-----------|-----------|------------|
| 25        | 20         | 16 | 721 200 134 | 10 | 100 | 0.055  | 14        | 14         | 33        | 33        | 30         |
| 32        | 20         | 16 | 721 200 141 | 10 | 100 | 0.089  | 17        | 17         | 41        | 39        | 33         |
| 32        | 25         | 16 | 721 200 138 | 10 | 100 | 0.092  | 17        | 17         | 41        | 39        | 36         |
| 40        | 20         | 16 | 721 200 155 | 10 | 20  | 0.105  | 23        | 23         | 50        | 49        | 39         |
| 40        | 25         | 16 | 721 200 151 | 10 | 50  | 0.107  | 23        | 23         | 50        | 49        | 42         |
| 40        | 32         | 16 | 721 200 147 | 10 | 20  | 0.161  | 23        | 23         | 50        | 49        | 45         |
| 50        | 20         | 16 | 721 200 009 | 5  | 50  | 0.180  | 28        | 28         | 62        | 59        | 44         |
| 50        | 25         | 16 | 721 200 010 | 5  | 50  | 0.184  | 28        | 28         | 62        | 59        | 47         |
| 50        | 32         | 16 | 721 200 164 | 5  | 20  | 0.189  | 28        | 28         | 62        | 59        | 50         |
| 50        | 40         | 16 | 721 200 161 | 5  | 20  | 0.198  | 28        | 28         | 62        | 59        | 54         |
| 63        | 25         | 16 | 721 200 011 | 10 | -   | 0.330  | 35        | 34         | 77        | 73        | 53         |
| 63        | 32         | 16 | 721 200 178 | 5  | -   | 0.335  | 35        | 34         | 77        | 73        | 56         |
| 63        | 40         | 16 | 721 200 174 | 5  | -   | 0.340  | 35        | 34         | 77        | 73        | 60         |
| 63        | 50         | 16 | 721 200 170 | 5  | -   | 0.360  | 35        | 34         | 77        | 73        | 65         |
| 75        | 32         | 16 | 721 200 181 | 9  | -   | 0.520  | 40        | 41         | 92        | 84        | 63         |
| 75        | 40         | 16 | 721 200 182 | 9  | -   | 0.515  | 40        | 41         | 92        | 84        | 67         |
| 75        | 50         | 16 | 721 200 183 | 8  | -   | 0.510  | 40        | 41         | 92        | 84        | 72         |
| 75        | 63         | 16 | 721 200 184 | 8  | -   | 0.560  | 40        | 41         | 92        | 84        | 79         |
| 90        | 32         | 16 | 721 200 142 | 6  | -   | 0.830  | 46        | 55         | 110       | 97        | 77         |
| 90        | 50         | 16 | 721 200 144 | 6  | -   | 0.860  | 46        | 55         | 110       | 97        | 86         |
| 90        | 63         | 16 | 721 200 145 | 5  | -   | 0.890  | 46        | 55         | 110       | 97        | 93         |
| 90        | 75         | 16 | 721 200 146 | 5  | -   | 0.950  | 46        | 55         | 110       | 97        | 99         |
| 110       | 32         | 16 | 721 200 135 | 3  | -   | 1.400  | 56        | 67         | 133       | 117       | 89         |
| 110       | 50         | 16 | 721 200 136 | 3  | -   | 1.425  | 56        | 67         | 133       | 117       | 98         |
| 110       | 63         | 16 | 721 200 132 | 3  | -   | 1.490  | 56        | 65         | 133       | 117       | 103        |
| 110       | 75         | 16 | 721 200 133 | 3  | -   | 1.520  | 56        | 65         | 133       | 117       | 109        |
| 110       | 90         | 16 | 721 200 137 | 3  | -   | 1.500  | 56        | 65         | 133       | 117       | 116        |
| 125       | 50         | 16 | 721 200 139 | 4  | -   | 1.970  | 64        | 75         | 151       | 133       | 106        |
| 125       | 90         | 16 | 721 200 140 | 4  | -   | 2.200  | 64        | 75         | 151       | 133       | 126        |
| 140       | 50         | 16 | 721 200 148 | 1  | -   | 3.000  | 72        | 82         | 172       | 148       | 113        |
| 140       | 75         | 16 | 721 200 149 | 1  | -   | 3.000  | 72        | 78         | 172       | 148       | 122        |
| 140       | 110        | 16 | 721 200 150 | 1  | -   | 3.200  | 72        | 74         | 172       | 148       | 135        |
| 160       | 110        | 16 | 721 200 152 | 1  | -   | 4.100  | 81        | 81         | 192       | 167       | 142        |
| 200       | 110        | 10 | 721 200 153 | 1  | -   | 7.450  | 107       | 131        | 232       | 213       | 192        |
| 200       | 160        | 10 | 721 200 154 | 1  | -   | 8.230  | 107       | 106        | 232       | 213       | 192        |
| 225       | 110        | 10 | 721 200 156 | 1  | -   | 9.200  | 120       | 143        | 257       | 239       | 204        |
| 225       | 160        | 10 | 721 200 157 | 1  | -   | 10.000 | 120       | 119        | 257       | 239       | 205        |
| 250       | 160        | 10 | 721 200 159 | 1  | -   | 11.500 | 132       | 151        | 282       | 263       | 237        |
| 250       | 200        | 10 | 721 200 162 | 1  | -   | 12.300 | 132       | 131        | 282       | 263       | 237        |
| 280       | 160        | 10 | 721 200 165 | 1  | -   | 18.200 | 120       | 180        | 318       | 266       | 266        |

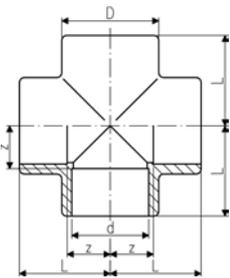
table continued next page



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg     | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|----|--------|-----------|------------|-----------|-----------|------------|
| 280       | 225        | 10 | <b>721 200 167</b> | 1  | -  | 16.200 | 120       | 148        | 318       | 266       | 268        |
| * 315     | 160        | 10 | <b>721 200 169</b> | 1  | -  | 22.300 | 120       | 197        | 356       | 284       | 283        |
| * 315     | 225        | 10 | <b>721 200 172</b> | 1  | -  | 20.300 | 120       | 165        | 356       | 284       | 284        |
| 400       | 225        | 6  | <b>721 200 176</b> | 1  | -  | 36.500 | 163       | 258        | 442       | 369       | 377        |
| 400       | 315        | 6  | <b>721 200 180</b> | 1  | -  | 32.000 | 163       | 213        | 442       | 369       | 377        |

## 21 30 01

### Cross PVC-U metric



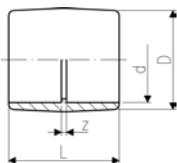
| d<br>[mm] | PN | Code               | SP  | GP  | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|-----|-----|-------|-----------|-----------|-----------|
| 10        | 16 | <b>721 300 103</b> | 100 | -   | 0.009 | 7         | 16        | 19        |
| 12        | 16 | <b>721 300 104</b> | 100 | -   | 0.011 | 8         | 18        | 20        |
| 16        | 16 | <b>721 300 105</b> | 100 | -   | 0.020 | 10        | 23        | 24        |
| 20        | 16 | <b>721 300 106</b> | 10  | 100 | 0.037 | 11        | 29        | 27        |
| 25        | 16 | <b>721 300 107</b> | 10  | 100 | 0.058 | 14        | 35        | 33        |
| 32        | 16 | <b>721 300 108</b> | 10  | 50  | 0.092 | 17        | 43        | 39        |
| 40        | 16 | <b>721 300 109</b> | 5   | 50  | 0.155 | 23        | 52        | 49        |
| 50        | 16 | <b>721 300 110</b> | 5   | 30  | 0.265 | 28        | 63        | 59        |
| 63        | 16 | <b>721 300 111</b> | 5   | -   | 0.480 | 34        | 79        | 72        |
| 75        | 10 | <b>721 300 112</b> | 3   | -   | 0.660 | 40        | 92        | 83        |
| 90        | 10 | <b>721 300 113</b> | 4   | -   | 0.960 | 48        | 106       | 97        |
| 110       | 10 | <b>721 300 114</b> | 4   | -   | 1.600 | 58        | 128       | 117       |

## 21 91 01

### Socket equal PVC-U metric

\* See comments regarding PN in +GF+ planning fundamentals

<sup>1</sup> Socket d355 and d400 fabricated from pipe



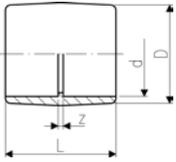
| d<br>[mm]        | PN | Code               | SP  | GP   | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|------------------|----|--------------------|-----|------|-------|-----------|-----------|-----------|
| 6                | 16 | <b>721 910 101</b> | 10  | 1000 | 0.004 | 3         | 12        | 27        |
| 8                | 16 | <b>721 910 102</b> | 10  | 600  | 0.005 | 3         | 14        | 27        |
| 10               | 16 | <b>721 910 103</b> | 10  | 500  | 0.005 | 3         | 16        | 27        |
| 12               | 16 | <b>721 910 104</b> | 400 | -    | 0.006 | 3         | 19        | 27        |
| 16               | 16 | <b>721 910 105</b> | 10  | 100  | 0.007 | 3         | 22        | 31        |
| 20               | 16 | <b>721 910 106</b> | 10  | 100  | 0.011 | 3         | 26        | 35        |
| 25               | 16 | <b>721 910 107</b> | 10  | 100  | 0.015 | 3         | 32        | 41        |
| 32               | 16 | <b>721 910 108</b> | 10  | 100  | 0.026 | 3         | 39        | 47        |
| 40               | 16 | <b>721 910 109</b> | 10  | 100  | 0.046 | 3         | 48        | 55        |
| 50               | 16 | <b>721 910 110</b> | 10  | 50   | 0.065 | 3         | 58        | 65        |
| 63               | 16 | <b>721 910 111</b> | 10  | 50   | 0.119 | 3         | 73        | 79        |
| 75               | 16 | <b>721 910 112</b> | 10  | -    | 0.191 | 4         | 87        | 92        |
| 90               | 16 | <b>721 910 113</b> | 10  | -    | 0.328 | 5         | 105       | 107       |
| 110              | 16 | <b>721 910 114</b> | 5   | -    | 0.560 | 6         | 128       | 128       |
| 125              | 16 | <b>721 910 115</b> | 4   | -    | 0.740 | 7         | 142       | 145       |
| 140              | 16 | <b>721 910 116</b> | 2   | -    | 1.200 | 7         | 162       | 159       |
| 160              | 16 | <b>721 910 117</b> | 1   | -    | 1.542 | 8         | 183       | 180       |
| 200              | 10 | <b>721 910 119</b> | 4   | -    | 2.031 | 9         | 221       | 221       |
| 225              | 10 | <b>721 910 120</b> | 2   | -    | 3.790 | 10        | 253       | 248       |
| 250              | 10 | <b>721 910 121</b> | 1   | -    | 5.600 | 16        | 284       | 284       |
| 280              | 10 | <b>721 910 122</b> | 1   | -    | 6.680 | 16        | 321       | 314       |
| * 315            | 10 | <b>721 910 123</b> | 1   | -    | 8.300 | 16        | 356       | 348       |
| <sup>1</sup> 355 | 6  | <b>721 910 124</b> | -   | -    | 8.000 | 68        | 377       | 454       |
| <sup>1</sup> 400 | 6  | <b>721 910 125</b> | -   | -    | 8.300 | 73        | 425       | 505       |

21 91 31

## Adaptor socket PVC-U metric Inch/BS

Model:

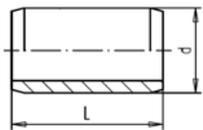
- With solvent cement sockets metric and BS inch



| d<br>[mm] | PN | Code        | SP | GP  | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|-------------|----|-----|-------|-----------|-----------|-----------|
| 16        | 16 | 721 913 105 | 10 | 800 | 0.010 | 5         | 23        | 35        |
| 20        | 16 | 721 913 106 | 10 | 500 | 0.013 | 5         | 27        | 38        |
| 25        | 16 | 721 913 107 | 10 | 200 | 0.020 | 5         | 33        | 45        |
| 32        | 16 | 721 913 108 | 10 | 100 | 0.031 | 5         | 41        | 51        |
| 40        | 16 | 721 913 109 | 10 | 50  | 0.054 | 5         | 51        | 60        |
| 50        | 16 | 721 913 110 | 10 | 60  | 0.076 | 4         | 59        | 65        |
| 63        | 16 | 721 913 111 | 5  | 10  | 0.154 | 5         | 75        | 79        |
| 90        | 16 | 721 913 113 | 10 | -   | 0.340 | 6         | 104       | 108       |
| 110       | 16 | 721 913 115 | 5  | -   | 0.485 | 4         | 128       | 128       |

21 90 09

## Barrel nipple PVC-U metric



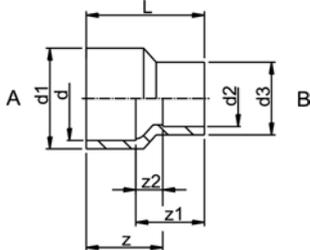
| d<br>[mm] | PN | Code        | SP | GP | kg    | L<br>[mm] |
|-----------|----|-------------|----|----|-------|-----------|
| 16        | 16 | 721 900 905 | -  | -  | 0.002 | 28        |
| 20        | 16 | 721 900 906 | -  | -  | 0.004 | 32        |
| 25        | 16 | 721 900 907 | -  | -  | 0.008 | 38        |
| 32        | 16 | 721 900 908 | -  | -  | 0.015 | 44        |
| 40        | 16 | 721 900 909 | -  | -  | 0.027 | 52        |
| 50        | 16 | 721 900 910 | -  | -  | 0.050 | 62        |
| 63        | 16 | 721 900 911 | -  | -  | 0.098 | 76        |
| 75        | 16 | 721 900 912 | -  | -  | 0.160 | 88        |
| 90        | 16 | 721 900 913 | -  | -  | 0.266 | 102       |
| 110       | 16 | 721 900 914 | -  | -  | 0.476 | 122       |
| 125       | 16 | 721 900 915 | -  | -  | 0.691 | 138       |
| 140       | 16 | 721 900 916 | -  | -  | 0.953 | 152       |
| 160       | 16 | 721 900 917 | -  | -  | 1.569 | 192       |
| 200       | 10 | 721 900 919 | -  | -  | 1.804 | 212       |
| 225       | 10 | 721 900 920 | -  | -  | 2.570 | 238       |

21 91 09

## PRO-FIT reducing bush PVC-U metric

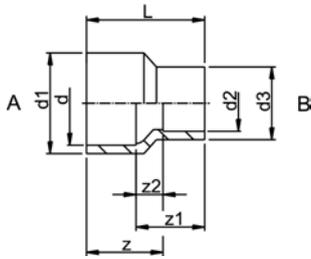
Model:

- Outlet: A and B = Solvent cemented spigot in combination with reducing socket metric



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | PN | Code        | SP  | GP  | kg    | z<br>[mm] | z1<br>[mm] | z2<br>[mm] | L<br>[mm] |
|-----------|------------|------------|------------|----|-------------|-----|-----|-------|-----------|------------|------------|-----------|
| 10        | 14         | 8          | 12         | 16 | 721 910 903 | 10  | 700 | 0.003 | 15        | 15         | 3          | 27        |
| 12        | 16         | 8          | 12         | 16 | 721 910 905 | 10  | 100 | 0.003 | 18        | 18         | 6          | 30        |
| 12        | 16         | 10         | 16         | 16 | 721 910 906 | 10  | 600 | 0.006 | 18        | 18         | 6          | 30        |
| 16        | 20         | 10         | 16         | 16 | 721 910 908 | 10  | 500 | 0.005 | 21        | 19         | 7          | 33        |
| 16        | 20         | 12         | 16         | 16 | 721 910 909 | 10  | 400 | 0.005 | 21        | 19         | 7          | 33        |
| 20        | 25         | 12         | 16         | 16 | 721 910 910 | 10  | 300 | 0.008 | 25        | 21         | 9          | 37        |
| 20        | 25         | 16         | 20         | 16 | 721 910 911 | 10  | 100 | 0.008 | 25        | 23         | 9          | 39        |
| 25        | 32         | 12         | 16         | 16 | 721 910 912 | 10  | 100 | 0.014 | 30        | 23         | 11         | 42        |
| 25        | 32         | 16         | 20         | 16 | 721 910 913 | 10  | 100 | 0.015 | 30        | 26         | 12         | 44        |
| 25        | 32         | 20         | 25         | 16 | 721 910 914 | 10  | 100 | 0.017 | 30        | 27         | 11         | 46        |
| 32        | 40         | 16         | 20         | 16 | 721 910 915 | 100 | -   | 0.025 | 36        | 28         | 14         | 50        |
| 32        | 40         | 20         | 25         | 16 | 721 910 916 | 10  | 100 | 0.027 | 36        | 30         | 14         | 52        |
| 32        | 40         | 25         | 32         | 16 | 721 910 917 | 10  | 100 | 0.032 | 36        | 33         | 14         | 55        |
| 40        | 50         | 20         | 25         | 16 | 721 910 918 | 10  | 100 | 0.046 | 44        | 34         | 18         | 60        |
| 40        | 50         | 25         | 32         | 16 | 721 910 919 | 10  | 100 | 0.052 | 44        | 37         | 18         | 63        |
| 40        | 50         | 32         | 40         | 16 | 721 910 920 | 10  | 100 | 0.059 | 44        | 40         | 18         | 66        |
| 50        | 63         | 25         | 32         | 16 | 721 910 921 | 5   | 50  | 0.092 | 54        | 42         | 23         | 73        |
| 50        | 63         | 32         | 40         | 16 | 721 910 922 | 5   | 50  | 0.099 | 54        | 45         | 23         | 76        |
| 50        | 63         | 40         | 50         | 16 | 721 910 923 | 5   | 50  | 0.112 | 54        | 49         | 23         | 80        |
| 63        | 75         | 32         | 40         | 16 | 721 910 924 | 5   | 50  | 0.128 | 62        | 46         | 24         | 84        |
| 63        | 75         | 40         | 50         | 16 | 721 910 925 | 5   | 50  | 0.139 | 62        | 50         | 24         | 88        |
| 63        | 75         | 50         | 63         | 16 | 721 910 926 | 5   | 50  | 0.169 | 62        | 55         | 24         | 93        |

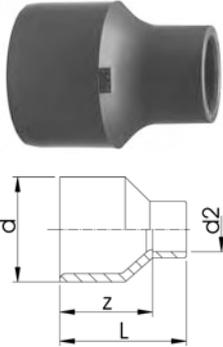
table continued next page



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | PN | Code               | SP | GP | kg    | z<br>[mm] | z1<br>[mm] | z2<br>[mm] | L<br>[mm] |
|-----------|------------|------------|------------|----|--------------------|----|----|-------|-----------|------------|------------|-----------|
| 75        | 90         | 40         | 50         | 16 | <b>721 910 927</b> | 10 | -  | 0.232 | 74        | 56         | 30         | 100       |
| 75        | 90         | 50         | 63         | 16 | <b>721 910 928</b> | 10 | -  | 0.260 | 74        | 61         | 30         | 105       |
| 75        | 90         | 63         | 75         | 16 | <b>721 910 929</b> | 10 | -  | 0.275 | 74        | 68         | 30         | 112       |

## 21 91 03

### Reducing bush long PVC-U metric



| d<br>[mm] | d2<br>[mm] | PN | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|-----|-------|-----------|-----------|
| 8         | 6          | 16 | <b>721 910 323</b> | 10 | 800 | 0.003 | 15        | 27        |
| 10        | 6          | 16 | <b>721 910 326</b> | 10 | 700 | 0.003 | 15        | 27        |
| 10        | 8          | 16 | <b>721 910 325</b> | 10 | 700 | 0.003 | 15        | 27        |
| 20        | 16         | 16 | <b>721 910 334</b> | 10 | 320 | 0.010 | 21        | 35        |
| 25        | 20         | 16 | <b>721 910 337</b> | 10 | 220 | 0.015 | 25        | 41        |
| 32        | 25         | 16 | <b>721 910 341</b> | 10 | 120 | 0.025 | 30        | 49        |
| 40        | 32         | 16 | <b>721 910 346</b> | 10 | 100 | 0.044 | 36        | 58        |
| 50        | 40         | 16 | <b>721 910 352</b> | 10 | 50  | 0.075 | 44        | 70        |
| 63        | 50         | 16 | <b>721 910 358</b> | 5  | 50  | 0.146 | 54        | 85        |
| 75        | 63         | 16 | <b>721 910 364</b> | 5  | 50  | 0.220 | 62        | 100       |
| 90        | 75         | 16 | <b>721 910 370</b> | 5  | -   | 0.335 | 74        | 118       |
| 140       | 110        | 16 | <b>721 910 385</b> | 2  | -   | 0.814 | 111       | 172       |

## 21 90 03

### Reducing bush short PVC-U metric

#### Model:

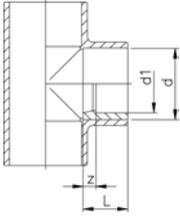
- With solvent cement spigot and socket metric

\* See comments regarding PN in +GF+ planning fundamentals



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP  | GP   | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|-----|------|-------|-----------|-----------|
| * 12      | 8          | 16 | <b>721 900 329</b> | 10  | 1200 | 0.002 | 2         | 14        |
| * 16      | 12         | 16 | <b>721 900 331</b> | 10  | 1000 | 0.002 | 2         | 14        |
| * 20      | 16         | 16 | <b>721 900 334</b> | 10  | 500  | 0.003 | 2         | 16        |
| * 25      | 20         | 16 | <b>721 900 337</b> | 10  | 450  | 0.005 | 3         | 19        |
| * 32      | 20         | 16 | <b>721 900 342</b> | 10  | 100  | 0.014 | 6         | 22        |
| * 32      | 25         | 16 | <b>721 900 341</b> | 10  | 100  | 0.009 | 3         | 22        |
| 40        | 20         | 16 | <b>721 900 348</b> | 10  | 100  | 0.021 | 10        | 26        |
| 40        | 25         | 16 | <b>721 900 347</b> | 10  | 100  | 0.021 | 7         | 26        |
| * 40      | 32         | 16 | <b>721 900 346</b> | 10  | 100  | 0.016 | 4         | 26        |
| 50        | 20         | 16 | <b>721 900 355</b> | 10  | 100  | 0.033 | 15        | 31        |
| 50        | 25         | 16 | <b>721 900 354</b> | 10  | 100  | 0.034 | 12        | 31        |
| 50        | 32         | 16 | <b>721 900 353</b> | 10  | 100  | 0.037 | 9         | 31        |
| * 50      | 40         | 16 | <b>721 900 352</b> | 100 | -    | 0.030 | 5         | 31        |
| 63        | 32         | 16 | <b>721 900 360</b> | 10  | 100  | 0.061 | 16        | 38        |
| 63        | 40         | 16 | <b>721 900 359</b> | 10  | 100  | 0.068 | 12        | 38        |
| * 63      | 50         | 16 | <b>721 900 358</b> | 10  | 100  | 0.058 | 7         | 38        |
| 75        | 50         | 16 | <b>721 900 365</b> | 10  | 50   | 0.106 | 13        | 44        |
| * 75      | 63         | 16 | <b>721 900 364</b> | 10  | 50   | 0.077 | 6         | 44        |
| 90        | 50         | 16 | <b>721 900 372</b> | 10  | -    | 0.179 | 20        | 51        |
| 90        | 63         | 16 | <b>721 900 371</b> | 10  | -    | 0.183 | 13        | 51        |
| * 90      | 75         | 16 | <b>721 900 370</b> | 10  | -    | 0.136 | 7         | 51        |
| 110       | 50         | 16 | <b>721 900 379</b> | 5   | -    | 0.309 | 30        | 61        |
| 110       | 63         | 16 | <b>721 900 378</b> | 5   | -    | 0.313 | 23        | 61        |
| 110       | 75         | 16 | <b>721 900 377</b> | 20  | -    | 0.255 | 17        | 61        |
| * 110     | 90         | 16 | <b>721 900 376</b> | 5   | -    | 0.259 | 10        | 61        |
| 125       | 90         | 16 | <b>721 900 381</b> | 5   | -    | 0.442 | 18        | 69        |
| * 125     | 110        | 16 | <b>721 900 380</b> | 5   | -    | 0.266 | 8         | 69        |
| 140       | 90         | 16 | <b>721 900 386</b> | 5   | -    | 0.560 | 25        | 76        |
| * 140     | 110        | 16 | <b>721 900 385</b> | 5   | -    | 0.599 | 15        | 76        |
| * 140     | 125        | 16 | <b>721 900 384</b> | 5   | -    | 0.420 | 7         | 76        |
| 160       | 90         | 16 | <b>721 900 391</b> | 5   | -    | 0.750 | 35        | 86        |
| 160       | 110        | 16 | <b>721 900 390</b> | 5   | -    | 0.868 | 25        | 86        |
| * 160     | 140        | 16 | <b>721 900 388</b> | 5   | -    | 0.547 | 10        | 86        |

table continued next page



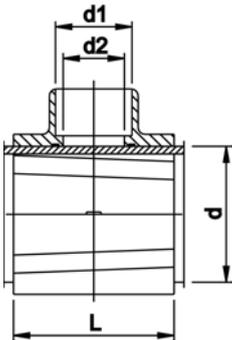
| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | GP | kg     | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|----|--------|-----------|-----------|
| 200       | 110        | 10 | <b>721 900 393</b> | 3  | -  | 1.900  | 45        | 106       |
| 200       | 125        | 10 | <b>721 900 325</b> | 3  | -  | 1.940  | 37        | 106       |
| 200       | 140        | 10 | <b>721 900 394</b> | 3  | -  | 1.850  | 30        | 106       |
| 200       | 160        | 10 | <b>721 900 392</b> | 2  | -  | 1.070  | 20        | 106       |
| 225       | 110        | 10 | <b>721 900 397</b> | 4  | -  | 2.450  | 58        | 119       |
| 225       | 125        | 10 | <b>721 900 399</b> | 4  | -  | 2.500  | 50        | 119       |
| 225       | 140        | 10 | <b>721 900 398</b> | 4  | -  | 2.500  | 43        | 119       |
| 225       | 160        | 10 | <b>721 900 396</b> | 2  | -  | 2.200  | 33        | 119       |
| * 225     | 200        | 10 | <b>721 900 181</b> | 4  | -  | 1.360  | 13        | 119       |
| 250       | 125        | 10 | <b>721 900 326</b> | 4  | -  | 3.150  | 62        | 131       |
| 250       | 140        | 10 | <b>721 900 300</b> | 4  | -  | 3.200  | 55        | 131       |
| 250       | 160        | 10 | <b>721 900 301</b> | 4  | -  | 3.080  | 45        | 131       |
| * 250     | 200        | 10 | <b>721 900 302</b> | 4  | -  | 3.150  | 25        | 131       |
| * 250     | 225        | 10 | <b>721 900 303</b> | 4  | -  | 1.700  | 12        | 131       |
| 280       | 140        | 10 | <b>721 900 307</b> | 1  | -  | 4.000  | 69        | 148       |
| 280       | 160        | 10 | <b>721 900 308</b> | 1  | -  | 4.100  | 59        | 148       |
| 280       | 200        | 10 | <b>721 900 304</b> | 1  | -  | 4.250  | 40        | 146       |
| * 280     | 225        | 10 | <b>721 900 305</b> | 1  | -  | 4.300  | 27        | 146       |
| * 280     | 250        | 10 | <b>721 900 306</b> | 1  | -  | 2.500  | 15        | 146       |
| 315       | 160        | 10 | <b>721 900 313</b> | 1  | -  | 2.050  | 77        | 166       |
| 315       | 200        | 10 | <b>721 900 309</b> | 1  | -  | 5.300  | 57        | 166       |
| 315       | 225        | 10 | <b>721 900 310</b> | 1  | -  | 5.500  | 45        | 164       |
| * 315     | 250        | 10 | <b>721 900 311</b> | 1  | -  | 6.300  | 33        | 164       |
| * 315     | 280        | 10 | <b>721 900 312</b> | 1  | -  | 3.550  | 17        | 164       |
| 355       | 315        | 6  | <b>721 900 315</b> | 1  | -  | 5.300  | 20        | 184       |
| 400       | 250        | 6  | <b>721 900 319</b> | 1  | -  | 9.000  | 75        | 206       |
| 400       | 280        | 6  | <b>721 900 320</b> | 1  | -  | 9.200  | 60        | 206       |
| 400       | 315        | 6  | <b>721 900 321</b> | 1  | -  | 13.100 | 42        | 206       |
| * 400     | 355        | 6  | <b>721 900 322</b> | 1  | -  | 7.600  | 22        | 206       |

## 21 111

## Branch Saddle



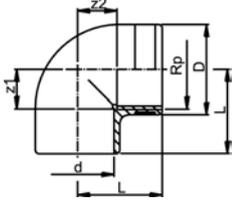
- Outlet with solvent cement socket metric
- For operating pressure up to 10 bar water
- Top saddle with rubber seal
- Seal: NBR (Nitrile-Rubber) shore hardness: 60 ±5 Shore A



| d<br>[mm] | Code               | SP | GP | kg    | d1<br>[mm] | d2<br>[mm] | L<br>[mm] |
|-----------|--------------------|----|----|-------|------------|------------|-----------|
| 63        | <b>161 111 035</b> | 1  | 1  | 0.699 | 40         | 22         | 105       |
| 63        | <b>161 111 036</b> | 1  | 1  | 0.730 | 50         | 22         | 105       |
| 75        | <b>161 111 046</b> | 1  | 4  | 0.797 | 50         | 31         | 105       |
| 90        | <b>161 111 055</b> | 1  | 12 | 0.826 | 40         | 31         | 105       |
| 90        | <b>161 111 056</b> | 1  | 1  | 0.856 | 50         | 31         | 105       |
| 110       | <b>161 111 065</b> | 1  | 12 | 0.935 | 40         | 31         | 105       |
| 110       | <b>161 111 066</b> | 1  | 1  | 0.949 | 50         | 40         | 105       |
| 110       | <b>161 111 067</b> | 1  | 12 | 0.995 | 63         | 40         | 105       |
| 160       | <b>161 111 095</b> | 1  | 8  | 1.430 | 40         | 31         | 120       |
| 160       | <b>161 111 096</b> | 1  | 8  | 1.260 | 50         | 40         | 120       |
| 160       | <b>161 111 097</b> | 1  | 8  | 1.300 | 63         | 40         | 120       |
| 225       | <b>161 111 116</b> | 1  | 1  | 1.587 | 50         | 40         | 120       |
| 225       | <b>161 111 117</b> | 1  | -  | 1.624 | 63         | 40         | 120       |

# Adaptor fittings

21 10 02



## Elbow 90° PVC-U metric Rp

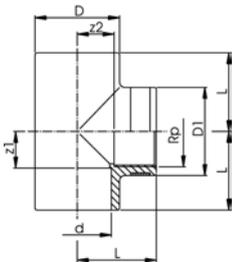
### Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

\* without reinforcement, connection for plastic threads only

| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | GP  | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|--------------|----|-------------|----|-----|-------|------------|------------|-----------|-----------|
| 12        | ¼            | 16 | 721 100 204 | 10 | 100 | 0.011 | 7          | 7          | 20        | 19        |
| 16        | ⅜            | 16 | 721 100 205 | 10 | 100 | 0.015 | 9          | 9          | 25        | 23        |
| 20        | ½            | 16 | 721 100 206 | 10 | 100 | 0.025 | 13         | 11         | 30        | 27        |
| 25        | ¾            | 16 | 721 100 207 | 10 | 80  | 0.034 | 16         | 15         | 35        | 33        |
| 32        | 1            | 16 | 721 100 208 | 10 | 40  | 0.060 | 19         | 19         | 45        | 39        |
| 40        | 1 ¼          | 16 | 721 100 209 | 10 | 100 | 0.123 | 23         | 27         | 55        | 50        |
| 50        | 1 ½          | 16 | 721 100 210 | 5  | 30  | 0.185 | 27         | 36         | 62        | 58        |
| 63        | 2            | 16 | 721 100 211 | 10 | -   | 0.326 | 33         | 46         | 75        | 73        |
| * 75      | 2 ½          | 10 | 721 100 212 | 5  | -   | 0.438 | 40         | 56         | 90        | 84        |
| * 90      | 3            | 10 | 721 100 213 | 5  | -   | 0.800 | 48         | 68         | 108       | 99        |
| * 110     | 4            | 10 | 721 100 214 | 1  | -   | 1.245 | 58         | 82         | 132       | 119       |

21 20 02



## Tee 90° PVC-U metric Rp

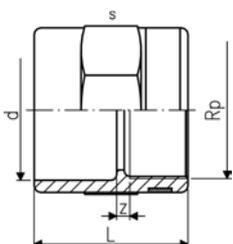
### Model:

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

\* without reinforcement, connection for plastic threads only

| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | GP  | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] |
|-----------|--------------|----|-------------|----|-----|-------|------------|------------|-----------|------------|-----------|
| 12        | ¼            | 16 | 721 200 204 | 10 | 280 | 0.015 | 7          | 7          | 17        | 20         | 19        |
| 16        | ⅜            | 16 | 721 200 205 | 10 | 100 | 0.027 | 9          | 9          | 21        | 25         | 23        |
| 20        | ½            | 16 | 721 200 206 | 10 | 100 | 0.025 | 11         | 13         | 26        | 30         | 29        |
| 25        | ¾            | 16 | 721 200 207 | 10 | 100 | 0.039 | 14         | 15         | 32        | 35         | 33        |
| 32        | 1            | 16 | 721 200 208 | 10 | 30  | 0.071 | 17         | 19         | 40        | 45         | 39        |
| 40        | 1 ¼          | 16 | 721 200 209 | 10 | 50  | 0.140 | 23         | 26         | 47        | 55         | 49        |
| 50        | 1 ½          | 16 | 721 200 210 | 5  | 10  | 0.190 | 27         | 36         | 59        | 59         | 59        |
| 63        | 2            | 16 | 721 200 211 | 5  | -   | 0.360 | 33         | 46         | 74        | 75         | 71        |
| * 75      | 2 ½          | 10 | 721 200 212 | 5  | -   | 0.609 | 40         | 56         | 92        | 92         | 84        |
| * 90      | 3            | 10 | 721 200 213 | 5  | -   | 1.076 | 48         | 68         | 110       | 110        | 99        |
| * 110     | 4            | 10 | 721 200 214 | 1  | 1   | 1.686 | 58         | 82         | 133       | 132        | 119       |

21 91 02



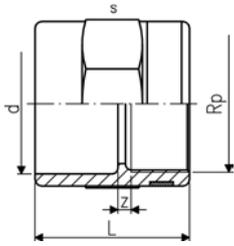
## Adaptor socket PVC-U metric Rp

### Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code        | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|-------------|----|-----|-------|-----------|-----------|-----------|
| 12        | ¼            | 16 | 721 910 204 | 10 | 100 | 0.010 | 4         | 27        | 22        |
| 16        | ⅜            | 16 | 721 910 205 | 10 | 100 | 0.017 | 5         | 31        | 27        |
| 20        | ½            | 16 | 721 910 206 | 10 | 100 | 0.025 | 5         | 36        | 32        |
| 25        | ¾            | 16 | 721 910 207 | 10 | 100 | 0.032 | 5         | 40        | 36        |
| 32        | 1            | 16 | 721 910 208 | 10 | 100 | 0.070 | 5         | 45        | 46        |

table continued next page



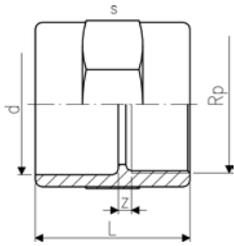
| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-----------|-----------|-----------|
| 40        | 1 ¼          | 16 | <b>721 910 209</b> | 10 | 50 | 0.085 | 5         | 51        | 55        |
| 50        | 1 ½          | 16 | <b>721 910 210</b> | 10 | 50 | 0.125 | 7         | 59        | 65        |
| 63        | 2            | 16 | <b>721 910 211</b> | 5  | 50 | 0.170 | 7         | 69        | 80        |

## 21 91 60

### Adaptor socket PVC-U metric Rp

#### Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



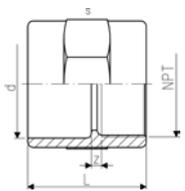
| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-----------|-----------|-----------|
| 75        | 2 ½          | 10 | <b>721 916 012</b> | 10 | -  | 0.223 | 7         | 82        | 90        |
| 90        | 3            | 10 | <b>721 916 013</b> | 5  | -  | 0.374 | 9         | 94        | 110       |
| 110       | 4            | 10 | <b>721 916 014</b> | 5  | -  | 0.542 | 9         | 110       | 130       |

## 21 91 42

### Adaptor socket PVC-U metric NPT

#### Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



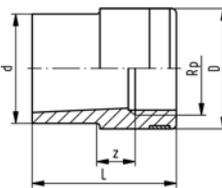
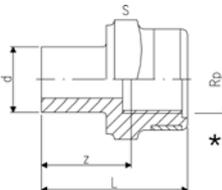
| d<br>[mm] | NPT<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|---------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 20        | ½             | 10 | <b>721 914 206</b> | 10 | 100 | 0.022 | 5         | 35        | 32        |
| 25        | ¾             | 10 | <b>721 914 207</b> | 10 | 100 | 0.027 | 6         | 40        | 36        |
| 32        | 1             | 10 | <b>721 914 208</b> | 10 | 100 | 0.050 | 6         | 45        | 46        |
| 40        | 1 ¼           | 10 | <b>721 914 209</b> | 10 | 100 | 0.075 | 6         | 51        | 55        |
| 50        | 1 ½           | 10 | <b>721 914 210</b> | 10 | 50  | 0.109 | 10        | 59        | 65        |
| 63        | 2             | 10 | <b>721 914 211</b> | 5  | 50  | 0.176 | 10        | 69        | 80        |
| 75        | 2 ½           | 10 | <b>721 914 212</b> | 10 | -   | 0.247 | 11        | 82        | 90        |
| 90        | 3             | 10 | <b>721 914 213</b> | 5  | -   | 0.381 | 14        | 94        | 110       |
| 110       | 4             | 10 | <b>721 914 214</b> | 5  | -   | 0.557 | 18        | 110       | 130       |

21 91 04

## Reducing bush PVC-U metric Rp

### Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



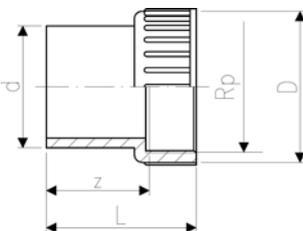
| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|-----------|
| * 12      | 1/4          | 16 | <b>721 910 404</b> | 10 | 250 | 0.007 | 17        | 20        | 27        | 22        |
| 20        | 3/8          | 16 | <b>721 910 434</b> | 10 | 100 | 0.014 | 24        | 25        | 35        |           |
| 25        | 1/2          | 16 | <b>721 910 437</b> | 10 | 100 | 0.021 | 27        | 30        | 41        |           |
| 32        | 3/4          | 16 | <b>721 910 441</b> | 10 | 100 | 0.032 | 32        | 35        | 48        |           |
| 40        | 1            | 16 | <b>721 910 446</b> | 10 | 100 | 0.060 | 38        | 45        | 56        |           |
| 50        | 1 1/4        | 16 | <b>721 910 452</b> | 10 | 60  | 0.097 | 46        | 55        | 66        |           |
| 63        | 1 1/2        | 16 | <b>721 910 458</b> | 5  | 45  | 0.148 | 57        | 62        | 77        |           |

21 90 04

## Adaptor bush equal PVC-U metric Rp

### Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



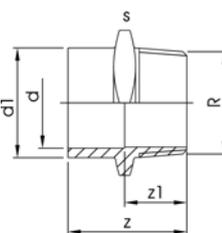
| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|--------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 20        | 1/2          | 10 | <b>721 900 406</b> | 10 | 100 | 0.012 | 22        | 28        | 37        |
| 25        | 3/4          | 10 | <b>721 900 407</b> | 10 | 100 | 0.020 | 25        | 34        | 41        |
| 32        | 1            | 10 | <b>721 900 408</b> | 10 | 100 | 0.037 | 29        | 42        | 48        |
| 40        | 1 1/4        | 10 | <b>721 900 409</b> | 10 | 100 | 0.063 | 34        | 52        | 56        |
| 50        | 1 1/2        | 10 | <b>721 900 410</b> | 10 | 100 | 0.102 | 40        | 62        | 61        |
| 63        | 2            | 10 | <b>721 900 411</b> | 5  | 50  | 0.178 | 49        | 77        | 74        |

21 91 05

## Adaptor socket nipple PVC-U metric R

### Model:

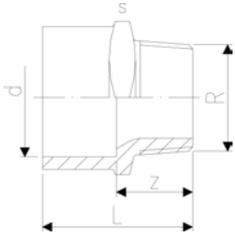
- With solvent cement spigot/socket reducing metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



| d<br>[mm] | d1<br>[mm] | R<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | z1<br>[mm] | s<br>[mm] |
|-----------|------------|-------------|----|--------------------|----|-----|-------|-----------|------------|-----------|
| 12        | 16         | 3/8         | 16 | <b>721 910 555</b> | 10 | 100 | 0.011 | 35        | 23         | 27        |
| 16        | 20         | 1/2         | 16 | <b>721 910 556</b> | 10 | 100 | 0.019 | 42        | 28         | 32        |
| 20        | 25         | 3/4         | 16 | <b>721 910 557</b> | 10 | 100 | 0.025 | 47        | 31         | 36        |
| 25        | 32         | 1           | 16 | <b>721 910 558</b> | 10 | 100 | 0.040 | 54        | 35         | 46        |
| 32        | 40         | 1 1/4       | 16 | <b>721 910 559</b> | 10 | 100 | 0.062 | 60        | 38         | 55        |
| 40        | 50         | 1 1/2       | 16 | <b>721 910 560</b> | 10 | 50  | 0.093 | 66        | 40         | 65        |
| 50        | 63         | 2           | 16 | <b>721 910 561</b> | 5  | 60  | 0.165 | 78        | 47         | 80        |

21 91 07

## Adaptor bush equal PVC-U metric R



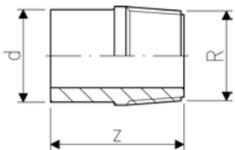
### Model:

- With solvent cement socket metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 16        | 3/8         | 16 | <b>721 910 705</b> | 10 | 100 | 0.012 | 20        | 34        | 27        |
| 20        | 1/2         | 16 | <b>721 910 706</b> | 10 | 100 | 0.018 | 24        | 40        | 32        |
| 25        | 3/4         | 16 | <b>721 910 707</b> | 10 | 100 | 0.024 | 25        | 44        | 36        |
| 32        | 1           | 16 | <b>721 910 708</b> | 10 | 100 | 0.039 | 28        | 50        | 46        |
| 40        | 1 1/4       | 16 | <b>721 910 709</b> | 10 | 100 | 0.063 | 31        | 57        | 55        |
| 50        | 1 1/2       | 16 | <b>721 910 710</b> | 10 | 100 | 0.088 | 32        | 63        | 65        |
| 63        | 2           | 16 | <b>721 910 711</b> | 5  | 50  | 0.158 | 38        | 76        | 80        |
| 75        | 2 1/2       | 10 | <b>721 910 712</b> | 5  | -   | 0.223 | 42        | 86        | 90        |
| 90        | 3           | 10 | <b>721 910 713</b> | 5  | -   | 0.355 | 46        | 97        | 110       |
| 110       | 4           | 10 | <b>721 910 714</b> | 5  | -   | 0.572 | 53        | 114       | 130       |

21 91 35

## Adaptor nipple PVC-U metric R



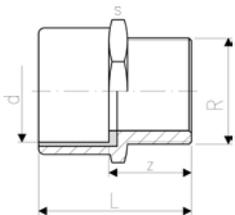
### Model:

- With solvent cement spigot metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] |
|-----------|-------------|----|--------------------|----|-----|-------|-----------|
| 16        | 3/8         | 10 | <b>721 913 505</b> | 10 | 100 | 0.006 | 31        |
| 20        | 1/2         | 10 | <b>721 913 506</b> | 10 | 100 | 0.010 | 35        |
| 25        | 3/4         | 10 | <b>721 913 507</b> | 10 | 100 | 0.015 | 40        |
| 32        | 1           | 10 | <b>721 913 508</b> | 10 | 100 | 0.027 | 46        |

20 91 07

## Adaptor socket brass/PVC-U metric R



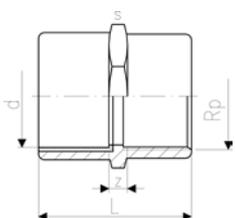
### Model:

- Brass with taper male thread R and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|----|--------------------|----|----|-------|-----------|-----------|-----------|
| 20        | 1/2         | 16 | <b>720 910 706</b> | -  | -  | 0.159 | 27        | 45        | 36        |
| 25        | 3/4         | 16 | <b>720 910 707</b> | -  | -  | 0.193 | 28        | 49        | 40        |
| 32        | 1           | 16 | <b>720 910 708</b> | -  | -  | 0.305 | 33        | 57        | 48        |
| 40        | 1 1/4       | 16 | <b>720 910 709</b> | -  | -  | 0.300 | 36        | 64        | 58        |
| 50        | 1 1/2       | 16 | <b>720 910 710</b> | -  | -  | 0.680 | 38        | 72        | 70        |
| 63        | 2           | 16 | <b>720 910 711</b> | -  | -  | 0.960 | 43        | 84        | 85        |

20 91 02

## Adaptor socket brass/PVC-U metric Rp



### Model:

- Brass with parallel female thread Rp and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | GP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|----|-------|-----------|-----------|-----------|
| 20        | 1/2          | 16 | <b>720 910 206</b> | -  | -  | 0.162 | 14        | 46        | 36        |
| 25        | 3/4          | 16 | <b>720 910 207</b> | -  | -  | 0.204 | 14        | 50        | 40        |
| 32        | 1            | 16 | <b>720 910 208</b> | -  | -  | 0.323 | 16        | 58        | 48        |
| 40        | 1 1/4        | 16 | <b>720 910 209</b> | -  | -  | 0.489 | 17        | 66        | 58        |
| 50        | 1 1/2        | 16 | <b>720 910 210</b> | -  | -  | 0.767 | 19        | 74        | 70        |
| 63        | 2            | 16 | <b>720 910 211</b> | -  | -  | 1.102 | 19        | 86        | 83        |

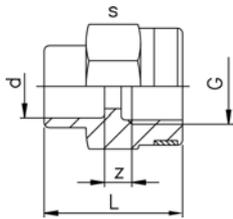
21 91 62

## Manometer adaptor sockets PVC-U metric G



### Model:

- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



| d<br>[mm] | G<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|-------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 12        | ¼           | 16 | <b>721 916 204</b> | 10 | 100 | 0.010 | 4         | 27        | 22        |
| 16        | ½           | 16 | <b>721 916 206</b> | 10 | 100 | 0.028 | 7         | 36        | 32        |

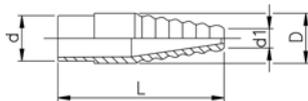
21 96 03

## Hose connector PVC-U metric



### Model:

- With solvent cement spigot metric and tapered hose connection



| d<br>[mm] | PN | Code               | SP | GP  | kg    | d1<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-----|-------|------------|-----------|-----------|
| 10        | 16 | <b>721 960 303</b> | 10 | 650 | 0.004 | 6          | 12        | 51        |
| 12        | 16 | <b>721 960 304</b> | 10 | 650 | 0.004 | 6          | 12        | 51        |
| 16        | 16 | <b>721 960 305</b> | 10 | 400 | 0.007 | 8          | 16        | 57        |
| 20        | 16 | <b>721 960 306</b> | 10 | 230 | 0.016 | 11         | 22        | 73        |

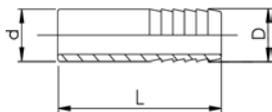
21 96 04

## Hose connector PVC-U metric



### Model:

- With solvent cement spigot metric and parallel hose connection



| d<br>[mm] | PN | Code               | SP | GP  | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-----|-------|-----------|-----------|
| 10        | 16 | <b>721 960 403</b> | 10 | 750 | 0.002 | 8         | 47        |
| 12        | 16 | <b>721 960 404</b> | 10 | 600 | 0.004 | 12        | 51        |
| 16        | 16 | <b>721 960 405</b> | 10 | 350 | 0.009 | 16        | 57        |
| 20        | 16 | <b>721 960 406</b> | 10 | 100 | 0.015 | 20        | 73        |
| 25        | 16 | <b>721 960 407</b> | 10 | 100 | 0.021 | 25        | 79        |
| 32        | 16 | <b>721 960 408</b> | 10 | 100 | 0.036 | 30        | 89        |
| 40        | 16 | <b>721 960 409</b> | 5  | 50  | 0.061 | 40        | 100       |
| 50        | 16 | <b>721 960 410</b> | 5  | 50  | 0.111 | 50        | 105       |
| 63        | 16 | <b>721 960 411</b> | 5  | 50  | 0.178 | 60        | 120       |

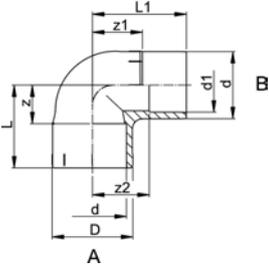
# PRO-FIT Fittings

21 10 03

## PRO-FIT elbow 90° PVC-U metric

**Model:**

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length



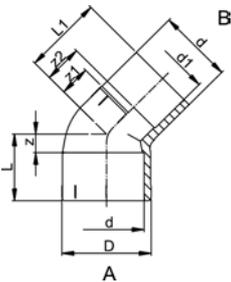
| d<br>[mm] | d1<br>[mm] | PN | Code        | SP | GP  | kg    | z<br>[mm] | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|----|-----|-------|-----------|------------|------------|-----------|-----------|------------|
| 20        | 16         | 16 | 721 100 306 | 10 | 100 | 0.013 | 11        | 16         | 18         | 25        | 27        | 32         |
| 25        | 20         | 16 | 721 100 307 | 10 | 100 | 0.022 | 14        | 18         | 21         | 31        | 33        | 37         |
| 32        | 25         | 16 | 721 100 308 | 10 | 100 | 0.040 | 17        | 22         | 25         | 38        | 39        | 44         |
| 40        | 32         | 16 | 721 100 309 | 10 | 50  | 0.070 | 23        | 30         | 34         | 47        | 49        | 56         |
| 50        | 40         | 16 | 721 100 310 | 10 | 50  | 0.122 | 26        | 36         | 41         | 58        | 57        | 67         |
| 63        | 50         | 16 | 721 100 311 | 10 | -   | 0.237 | 33        | 45         | 52         | 73        | 71        | 83         |

21 15 03

## PRO-FIT elbow 45° PVC-U metric

**Model:**

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

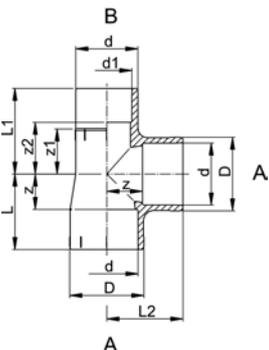


| d<br>[mm] | d1<br>[mm] | PN | Code        | SP | GP  | kg    | z<br>[mm] | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|----|-----|-------|-----------|------------|------------|-----------|-----------|------------|
| 20        | 16         | 16 | 721 150 306 | 10 | 100 | 0.010 | 5         | 9          | 11         | 25        | 21        | 25         |
| 25        | 20         | 16 | 721 150 307 | 10 | 100 | 0.016 | 6         | 11         | 14         | 31        | 25        | 30         |
| 32        | 25         | 16 | 721 150 308 | 10 | 100 | 0.030 | 8         | 13         | 16         | 38        | 30        | 35         |
| 40        | 32         | 16 | 721 150 309 | 5  | 50  | 0.052 | 10        | 17         | 21         | 47        | 36        | 43         |
| 50        | 40         | 16 | 721 150 310 | 5  | 50  | 0.090 | 12        | 18         | 23         | 58        | 43        | 49         |
| 63        | 50         | 16 | 721 150 311 | 5  | 50  | 0.176 | 14        | 23         | 30         | 73        | 52        | 61         |

21 20 03

## PRO-FIT tee 90° equal PVC-U metric

| d<br>[mm] | d1<br>[mm] | PN | Code        | SP | GP  | kg    | z<br>[mm] | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |
|-----------|------------|----|-------------|----|-----|-------|-----------|------------|------------|-----------|-----------|------------|------------|
| 20        | 16         | 16 | 721 200 306 | 10 | 100 | 0.017 | 11        | 17         | 19         | 25        | 27        | 33         | 27         |
| 25        | 20         | 16 | 721 200 307 | 10 | 100 | 0.028 | 14        | 19         | 22         | 31        | 33        | 38         | 33         |
| 32        | 25         | 16 | 721 200 308 | 10 | 100 | 0.052 | 17        | 24         | 27         | 38        | 39        | 46         | 39         |
| 40        | 32         | 16 | 721 200 309 | 10 | 50  | 0.098 | 23        | 30         | 34         | 47        | 47        | 56         | 49         |
| 50        | 40         | 16 | 721 200 310 | 10 | -   | 0.173 | 26        | 36         | 41         | 58        | 57        | 67         | 57         |
| 63        | 50         | 16 | 721 200 311 | 10 | -   | 0.329 | 33        | 45         | 52         | 73        | 71        | 83         | 71         |

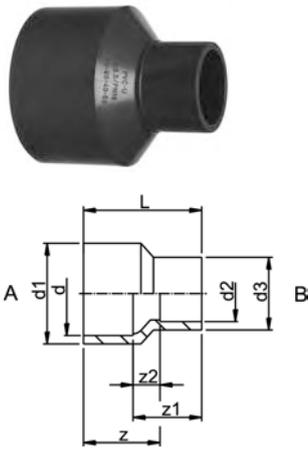


21 91 09

## PRO-FIT reducing bush PVC-U metric

**Model:**

- Outlet: A and B = Solvent cemented spigot in combination with reducing socket metric



| d [mm] | d1 [mm] | d2 [mm] | d3 [mm] | PN | Code        | SP  | GP  | kg    | z [mm] | z1 [mm] | z2 [mm] | L [mm] |
|--------|---------|---------|---------|----|-------------|-----|-----|-------|--------|---------|---------|--------|
| 10     | 14      | 8       | 12      | 16 | 721 910 903 | 10  | 700 | 0.003 | 15     | 15      | 3       | 27     |
| 12     | 16      | 8       | 12      | 16 | 721 910 905 | 10  | 100 | 0.003 | 18     | 18      | 6       | 30     |
| 12     | 16      | 10      | 16      | 16 | 721 910 906 | 10  | 600 | 0.006 | 18     | 18      | 6       | 30     |
| 16     | 20      | 10      | 16      | 16 | 721 910 908 | 10  | 500 | 0.005 | 21     | 19      | 7       | 33     |
| 16     | 20      | 12      | 16      | 16 | 721 910 909 | 10  | 400 | 0.005 | 21     | 19      | 7       | 33     |
| 20     | 25      | 12      | 16      | 16 | 721 910 910 | 10  | 300 | 0.008 | 25     | 21      | 9       | 37     |
| 20     | 25      | 16      | 20      | 16 | 721 910 911 | 10  | 100 | 0.008 | 25     | 23      | 9       | 39     |
| 25     | 32      | 12      | 16      | 16 | 721 910 912 | 10  | 100 | 0.014 | 30     | 23      | 11      | 42     |
| 25     | 32      | 16      | 20      | 16 | 721 910 913 | 10  | 100 | 0.015 | 30     | 26      | 12      | 44     |
| 25     | 32      | 20      | 25      | 16 | 721 910 914 | 10  | 100 | 0.017 | 30     | 27      | 11      | 46     |
| 32     | 40      | 16      | 20      | 16 | 721 910 915 | 100 | -   | 0.025 | 36     | 28      | 14      | 50     |
| 32     | 40      | 20      | 25      | 16 | 721 910 916 | 10  | 100 | 0.027 | 36     | 30      | 14      | 52     |
| 32     | 40      | 25      | 32      | 16 | 721 910 917 | 10  | 100 | 0.032 | 36     | 33      | 14      | 55     |
| 40     | 50      | 20      | 25      | 16 | 721 910 918 | 10  | 100 | 0.046 | 44     | 34      | 18      | 60     |
| 40     | 50      | 25      | 32      | 16 | 721 910 919 | 10  | 100 | 0.052 | 44     | 37      | 18      | 63     |
| 40     | 50      | 32      | 40      | 16 | 721 910 920 | 10  | 100 | 0.059 | 44     | 40      | 18      | 66     |
| 50     | 63      | 25      | 32      | 16 | 721 910 921 | 5   | 50  | 0.092 | 54     | 42      | 23      | 73     |
| 50     | 63      | 32      | 40      | 16 | 721 910 922 | 5   | 50  | 0.099 | 54     | 45      | 23      | 76     |
| 50     | 63      | 40      | 50      | 16 | 721 910 923 | 5   | 50  | 0.112 | 54     | 49      | 23      | 80     |
| 63     | 75      | 32      | 40      | 16 | 721 910 924 | 5   | 50  | 0.128 | 62     | 46      | 24      | 84     |
| 63     | 75      | 40      | 50      | 16 | 721 910 925 | 5   | 50  | 0.139 | 62     | 50      | 24      | 88     |
| 63     | 75      | 50      | 63      | 16 | 721 910 926 | 5   | 50  | 0.169 | 62     | 55      | 24      | 93     |
| 75     | 90      | 40      | 50      | 16 | 721 910 927 | 10  | -   | 0.232 | 74     | 56      | 30      | 100    |
| 75     | 90      | 50      | 63      | 16 | 721 910 928 | 10  | -   | 0.260 | 74     | 61      | 30      | 105    |
| 75     | 90      | 63      | 75      | 16 | 721 910 929 | 10  | -   | 0.275 | 74     | 68      | 30      | 112    |

21 51 04

## PRO-FIT Adaptor Unions, PVC-U metric - Rp

**Model:**

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



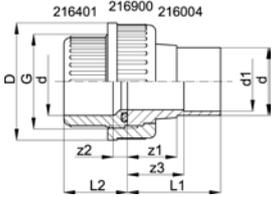
| d [mm] | d1 [mm] | Rp [inch] | PN | EPDM Code   | SP | GP | kg    | z1 [mm] | z2 [mm] | z3 [mm] | D [mm] | L1 [mm] | L2 [mm] | G [inch] |
|--------|---------|-----------|----|-------------|----|----|-------|---------|---------|---------|--------|---------|---------|----------|
| * 16   | 12      | 3/8       | 10 | 721 510 405 | 10 | -  | 0.032 | 22      | 13      | 24      | 35     | 36      | 24      | 3/4      |
| * 20   | 16      | 1/2       | 10 | 721 510 406 | 10 | 10 | 0.046 | 24      | 13      | 26      | 43     | 40      | 26      | 1        |
| * 25   | 20      | 3/4       | 10 | 721 510 407 | 10 | -  | 0.079 | 25      | 14      | 28      | 51     | 44      | 29      | 1 1/4    |
| * 32   | 25      | 1         | 10 | 721 510 408 | 10 | -  | 0.116 | 27      | 15      | 30      | 58     | 49      | 32      | 1 1/2    |
| 40     | 32      | 1 1/4     | 10 | 721 510 409 | 10 | -  | 0.192 | 31      | 19      | 35      | 74     | 57      | 38      | 2        |
| 50     | 40      | 1 1/2     | 10 | 721 510 410 | 10 | -  | 0.301 | 35      | 26      | 40      | 83     | 66      | 45      | 2 1/4    |
| 63     | 50      | 2         | 10 | 721 510 411 | 10 | 10 | 0.496 | 39      | 33      | 46      | 100    | 77      | 56      | 2 3/4    |

21 51 03

## PRO-FIT Unions for solvent cement jointing, PVC-U metric

### Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00



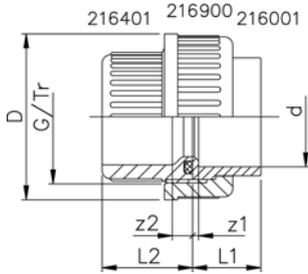
| d<br>[mm] | d1<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | SP | GP | kg    |
|-----------|------------|----|--------------------|--------------------|----|----|-------|
| * 16      | 12         | 16 | <b>721 510 305</b> | <b>721 510 330</b> | 10 | -  | 0.029 |
| * 20      | 16         | 16 | <b>721 510 306</b> | <b>721 510 331</b> | 10 | -  | 0.044 |
| * 25      | 20         | 16 | <b>721 510 307</b> | <b>721 510 332</b> | 10 | -  | 0.073 |
| * 32      | 25         | 16 | <b>721 510 308</b> | <b>721 510 333</b> | 10 | -  | 0.105 |
| 40        | 32         | 16 | <b>721 510 309</b> | <b>721 510 334</b> | 10 | -  | 0.171 |
| 50        | 40         | 16 | <b>721 510 310</b> | <b>721 510 335</b> | 10 | -  | 0.250 |
| 63        | 50         | 16 | <b>721 510 311</b> | <b>721 510 336</b> | 10 | -  | 0.449 |

| d<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] |
|-----------|------------|------------|------------|-----------|------------|------------|-------------|
| * 16      | 22         | 10         | 24         | 35        | 36         | 24         | ¾           |
| * 20      | 24         | 10         | 26         | 43        | 40         | 26         | 1           |
| * 25      | 25         | 10         | 28         | 51        | 44         | 29         | 1 ¼         |
| * 32      | 27         | 10         | 30         | 58        | 49         | 33         | 1 ½         |
| 40        | 31         | 12         | 35         | 74        | 57         | 39         | 2           |
| 50        | 35         | 14         | 40         | 83        | 66         | 46         | 2 ¼         |
| 63        | 39         | 18         | 46         | 100       | 77         | 58         | 2 ¾         |

# Unions for solvent cement jointing

## Union for solvent cement jointing PVC-U metric

21 51 01



**Model:**

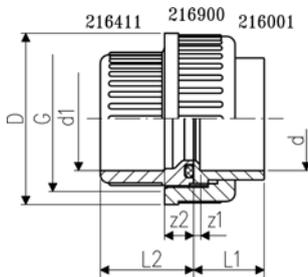
- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

| d [mm] | PN | EPDM Code   | FPM Code    | SP | GP  | kg    |
|--------|----|-------------|-------------|----|-----|-------|
| 10     | 16 | 721 510 103 | 721 510 128 | 10 | 100 | 0.020 |
| 12     | 16 | 721 510 104 | 721 510 129 | 10 | 100 | 0.019 |
| 16     | 16 | 721 510 105 | 721 510 130 | 10 | 100 | 0.025 |
| 20     | 16 | 721 510 106 | 721 510 131 | 10 | 80  | 0.040 |
| 25     | 16 | 721 510 107 | 721 510 132 | 10 | 100 | 0.066 |
| 32     | 16 | 721 510 108 | 721 510 133 | 10 | 60  | 0.090 |
| 40     | 16 | 721 510 109 | 721 510 134 | 10 | 30  | 0.153 |
| 50     | 16 | 721 510 110 | 721 510 135 | 2  | 60  | 0.204 |
| 63     | 16 | 721 510 111 | 721 510 136 | 10 | -   | 0.367 |
| 75     | 10 | 721 510 112 | 721 510 137 | 2  | -   | 0.615 |
| 90     | 10 | 721 510 313 | 721 510 338 | 2  | -   | 0.925 |
| 110    | 10 | 721 510 114 | 721 510 139 | 1  | -   | 1.425 |

| d [mm] | z1 [mm] | z2 [mm] | D [mm] | L1 [mm] | L2 [mm] | G/Tr    |
|--------|---------|---------|--------|---------|---------|---------|
| 10     | 3       | 10      | 31     | 15      | 22      | 5/8     |
| 12     | 3       | 10      | 31     | 15      | 22      | 5/8     |
| 16     | 3       | 10      | 35     | 17      | 24      | 3/4     |
| 20     | 3       | 10      | 43     | 19      | 26      | 1       |
| 25     | 3       | 10      | 51     | 22      | 29      | 1 1/4   |
| 32     | 3       | 10      | 58     | 25      | 33      | 1 1/2   |
| 40     | 3       | 12      | 72     | 29      | 39      | 2       |
| 50     | 3       | 14      | 83     | 34      | 46      | 2 1/4   |
| 63     | 3       | 18      | 100    | 41      | 58      | 2 3/4   |
| 75     | 3       | 18      | 135    | 47      | 62      | Tr108x5 |
| 90     | 5       | 18      | 158    | 56      | 69      | Tr128x5 |
| 110    | 5       | 11      | 188    | 66      | 72      | Tr154x6 |

21 51 31

## Unions for solvent cement jointing, PVC-U metric - BS

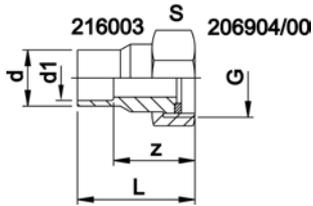


**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00

| d [mm] | PN | Code        | SP | GP  | kg    | z1 [mm] | z2 [mm] | D [mm] | L1 [mm] | L2 [mm] | G [inch] |
|--------|----|-------------|----|-----|-------|---------|---------|--------|---------|---------|----------|
| 16     | 16 | 721 513 105 | 10 | 100 | 0.025 | 3       | 8       | 35     | 17      | 24      | 3/4      |
| 20     | 16 | 721 513 106 | 10 | 100 | 0.040 | 3       | 9       | 43     | 19      | 26      | 1        |
| 25     | 16 | 721 513 107 | 50 | 100 | 0.065 | 3       | 9       | 51     | 22      | 29      | 1 1/4    |
| 32     | 16 | 721 513 108 | 35 | 50  | 0.090 | 3       | 9       | 58     | 25      | 33      | 1 1/2    |
| 40     | 16 | 721 513 109 | 5  | 100 | 0.155 | 3       | 10      | 72     | 29      | 39      | 2        |
| 50     | 16 | 721 513 110 | 15 | 50  | 0.200 | 3       | 10      | 83     | 34      | 46      | 2 1/4    |
| 63     | 16 | 721 513 111 | 10 | -   | 0.355 | 3       | 10      | 100    | 41      | 58      | 2 3/4    |

## 21 55 03



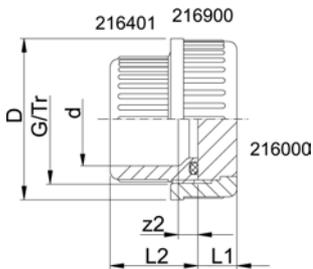
## Tap connectors PVC-U/brass metric G

### Model:

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM No. 48 40 02

| d<br>[mm] | d1<br>[mm] | G<br>[inch] | PN | Code               | SP | GP  | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|------------|-------------|----|--------------------|----|-----|-------|-----------|-----------|-----------|
| 16        | 12         | ½           | 16 | <b>721 550 305</b> | 10 | 280 | 0.031 | 22        | 34        | 24        |
| 20        | 16         | ¾           | 16 | <b>721 550 306</b> | 10 | 160 | 0.049 | 24        | 38        | 30        |
| 25        | 20         | 1           | 16 | <b>721 550 307</b> | 10 | 80  | 0.079 | 27        | 43        | 38        |

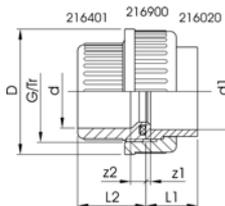
## 21 51 00



## Union with union end blank PVC-U metric

| d<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | SP | GP  | kg    | z2<br>[mm] | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | G/Tr    |
|-----------|----|--------------------|--------------------|----|-----|-------|------------|-----------|------------|------------|---------|
| 10        | 16 | <b>721 510 003</b> | <b>721 510 028</b> | 10 | 100 | 0.020 | 9          | 31        | 10         | 22         | 5/8     |
| 12        | 16 | <b>721 510 004</b> | <b>721 510 029</b> | 10 | 100 | 0.020 | 9          | 31        | 15         | 22         | 5/8     |
| 16        | 16 | <b>721 510 005</b> | <b>721 510 030</b> | 10 | 100 | 0.026 | 10         | 35        | 10         | 24         | 3/4     |
| 20        | 16 | <b>721 510 006</b> | <b>721 510 031</b> | 10 | 80  | 0.041 | 10         | 43        | 11         | 26         | 1       |
| 25        | 16 | <b>721 510 007</b> | <b>721 510 032</b> | 10 | 100 | 0.068 | 10         | 51        | 11         | 29         | 1 1/4   |
| 32        | 16 | <b>721 510 008</b> | <b>721 510 033</b> | 10 | 60  | 0.095 | 10         | 58        | 12         | 33         | 1 1/2   |
| 40        | 16 | <b>721 510 009</b> | <b>721 510 034</b> | 10 | 30  | 0.159 | 12         | 72        | 13         | 39         | 2       |
| 50        | 16 | <b>721 510 010</b> | <b>721 510 035</b> | 5  | 50  | 0.227 | 14         | 83        | 16         | 46         | 2 1/4   |
| 63        | 16 | <b>721 510 011</b> | <b>721 510 036</b> | 10 | -   | 0.405 | 18         | 100       | 18         | 58         | 2 3/4   |
| 75        | 10 | <b>721 510 012</b> | <b>721 510 037</b> | 2  | -   | 0.693 | 18         | 135       | 22         | 62         | Tr108x5 |
| 90        | 10 | <b>721 510 013</b> | <b>721 510 038</b> | 2  | -   | 1.022 | 18         | 158       | 24         | 69         | Tr128x5 |
| 110       | 10 | <b>721 510 014</b> | <b>721 510 039</b> | 1  | -   | 1.573 | 11         | 188       | 26         | 72         | Tr154x6 |

## 21 51 41



## Unions for solvent cement jointing, PVC-U metric - ASTM

### Model:

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00

| d<br>[mm] | PN | Code               | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] |
|-----------|----|--------------------|-------|------------|------------|-----------|------------|------------|-------------|
| 16        | 16 | <b>721 514 105</b> | 0.022 | 3          | 10         | 35        | 22         | 24         | ¾           |
| 20        | 16 | <b>721 514 106</b> | 0.047 | 3          | 10         | 43        | 25         | 26         | 1           |
| 25        | 16 | <b>721 514 107</b> | 0.065 | 3          | 10         | 51        | 28         | 29         | 1 ¼         |
| 32        | 16 | <b>721 514 108</b> | 0.103 | 3          | 10         | 58        | 32         | 33         | 1 ½         |
| 40        | 16 | <b>721 514 109</b> | 0.174 | 3          | 12         | 72        | 35         | 39         | 2           |
| 50        | 16 | <b>721 514 110</b> | 0.239 | 3          | 14         | 83        | 38         | 46         | 2 ¼         |
| 63        | 16 | <b>721 514 111</b> | 0.435 | 3          | 18         | 100       | 41         | 58         | 2 ¾         |

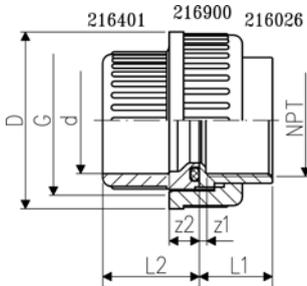
21 51 42

## Adaptor union PVC-U metric NPT



### Model:

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



| d [mm] | NPT [inch] | PN | Code        | kg    | z1 [mm] | z2 [mm] | D [mm] | L1 [mm] | L2 [mm] | G [inch] |
|--------|------------|----|-------------|-------|---------|---------|--------|---------|---------|----------|
| 16     | 3/8        | 10 | 721 514 205 | 0.026 | 4       | 10      | 35     | 17      | 24      | 3/4      |
| 20     | 1/2        | 10 | 721 514 206 | 0.042 | 2       | 10      | 43     | 19      | 26      | 1        |
| 25     | 3/4        | 10 | 721 514 207 | 0.068 | 4       | 10      | 51     | 22      | 29      | 1 1/4    |
| 32     | 1          | 10 | 721 514 208 | 0.093 | 4       | 10      | 58     | 25      | 33      | 1 1/2    |
| 40     | 1 1/4      | 10 | 721 514 209 | 0.163 | 6       | 12      | 72     | 29      | 39      | 2        |
| 50     | 1 1/2      | 10 | 721 514 210 | 0.221 | 11      | 14      | 83     | 34      | 46      | 2 1/4    |
| 63     | 2          | 10 | 721 514 211 | 0.395 | 17      | 18      | 100    | 41      | 58      | 2 3/4    |

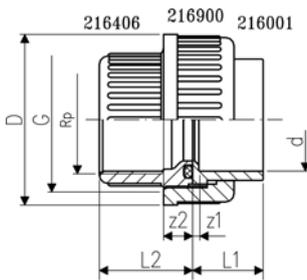
21 51 02

## Adaptor Unions, PVC-U metric - Rp



### Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-Ring No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



| d [mm] | Rp [inch] | PN | Code        | SP | GP  | kg    | z1 [mm] | z2 [mm] | D [mm] | L1 [mm] | L2 [mm] | G [inch] |
|--------|-----------|----|-------------|----|-----|-------|---------|---------|--------|---------|---------|----------|
| 12     | 1/4       | 10 | 721 510 204 | 10 | 200 | 0.019 | 3       | 12      | 31     | 15      | 22      | 3/4      |
| 16     | 3/8       | 10 | 721 510 205 | 10 | 100 | 0.020 | 3       | 13      | 35     | 17      | 24      | 3/4      |
| 20     | 1/2       | 10 | 721 510 206 | 10 | 100 | 0.042 | 3       | 13      | 43     | 19      | 26      | 1        |
| 25     | 3/4       | 10 | 721 510 207 | 10 | 100 | 0.072 | 3       | 14      | 51     | 22      | 29      | 1 1/4    |
| 32     | 1         | 10 | 721 510 208 | 10 | 50  | 0.095 | 3       | 15      | 58     | 25      | 33      | 1 1/2    |
| 40     | 1 1/4     | 10 | 721 510 209 | 10 | 100 | 0.160 | 3       | 19      | 72     | 29      | 39      | 2        |
| 50     | 1 1/2     | 10 | 721 510 210 | 2  | 60  | 0.255 | 3       | 26      | 83     | 34      | 46      | 2 1/4    |
| 63     | 2         | 10 | 721 510 211 | 2  | 30  | 0.400 | 3       | 33      | 100    | 41      | 58      | 2 3/4    |

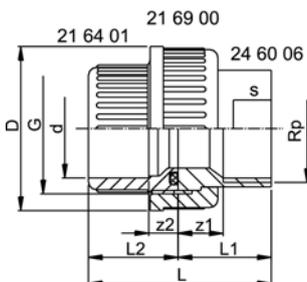
21 54 02

## Adaptor union PVC-U/stainless steel metric Rp



### Model:

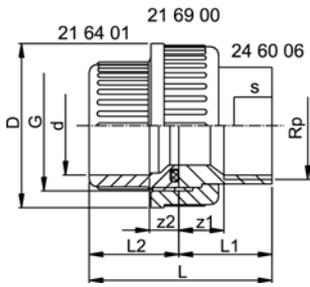
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Union Bush: Solvent cement socket PVC-U metric
- Union nut: PVC-U
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00



| d [mm] | Rp [inch] | PN | EPDM Code   | FPM Code    | SP | kg    |
|--------|-----------|----|-------------|-------------|----|-------|
| 16     | 3/8       | 16 | 721 540 205 | 721 540 230 | -  | 0.053 |
| 20     | 1/2       | 16 | 721 540 206 | 721 540 231 | -  | 0.096 |
| 25     | 3/4       | 16 | 721 540 207 | 721 540 232 | -  | 0.154 |
| 32     | 1         | 16 | 721 540 208 | 721 540 233 | -  | 0.212 |
| 40     | 1 1/4     | 16 | 721 540 209 | 721 540 234 | -  | 0.356 |
| 50     | 1 1/2     | 16 | 721 540 210 | 721 540 235 | -  | 0.455 |
| 63     | 2         | 16 | 721 540 211 | 721 540 236 | -  | 0.721 |

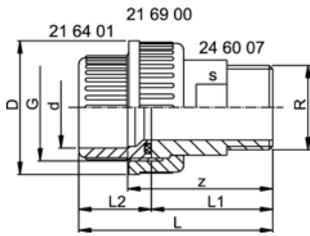
| d [mm] | z1 [mm] | z2 [mm] | D [mm] | L [mm] | L1 [mm] | L2 [mm] | G [inch] | s [mm] |
|--------|---------|---------|--------|--------|---------|---------|----------|--------|
| 16     | 9       | 10      | 35     | 43     | 19      | 24      | 3/4      | 19     |
| 20     | 11      | 10      | 43     | 50     | 24      | 26      | 1        | 24     |
| 25     | 11      | 10      | 51     | 55     | 26      | 29      | 1 1/4    | 29     |
| 32     | 12      | 10      | 58     | 61     | 29      | 33      | 1 1/2    | 36     |

table continued next page



| d<br>[mm] | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| 40        | 14         | 12         | 72        | 71        | 33         | 39         | 2           | 45        |
| 50        | 15         | 14         | 83        | 79        | 34         | 46         | 2 ¼         | 54        |
| 63        | 15         | 18         | 100       | 95        | 39         | 58         | 2 ¾         | 63        |

## 21 54 07



## Adaptor union PVC-U/stainless steel metric R

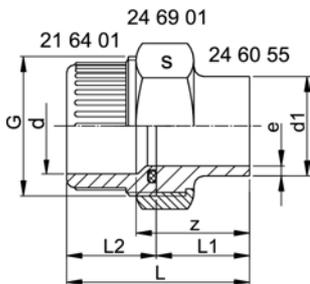
### Model:

- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Union Bush: Solvent cement socket PVC-U metric
- Union nut: PVC-U
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

| d<br>[mm] | R<br>[inch] | PN | EPDM<br>Code | FPM<br>Code | SP | kg    |
|-----------|-------------|----|--------------|-------------|----|-------|
| 16        | ¾           | 16 | 721 540 705  | 721 540 730 | -  | 0.073 |
| 20        | ½           | 16 | 721 540 706  | 721 540 731 | -  | 0.126 |
| 25        | ¾           | 16 | 721 540 707  | 721 540 732 | -  | 0.174 |
| 32        | 1           | 16 | 721 540 708  | 721 540 733 | -  | 0.262 |
| 40        | 1 ¼         | 16 | 721 540 709  | 721 540 734 | -  | 0.476 |
| 50        | 1 ½         | 16 | 721 540 710  | 721 540 735 | -  | 0.535 |
| 63        | 2           | 16 | 721 540 711  | 721 540 736 | -  | 0.931 |

| d<br>[mm] | z<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|-----------|-----------|-----------|------------|------------|-------------|-----------|
| 16        | 40        | 35        | 54        | 30         | 24         | ¾           | 19        |
| 20        | 44        | 43        | 60        | 34         | 26         | 1           | 24        |
| 25        | 46        | 51        | 65        | 36         | 29         | 1 ¼         | 32        |
| 32        | 50        | 58        | 72        | 40         | 33         | 1 ½         | 37        |
| 40        | 58        | 72        | 84        | 46         | 39         | 2           | 48        |
| 50        | 62        | 83        | 93        | 48         | 46         | 2 ¼         | 54        |
| 63        | 73        | 100       | 111       | 55         | 58         | 2 ¾         | 69        |

## 21 54 55



## Adaptor union PVC-U/stainless steel metric

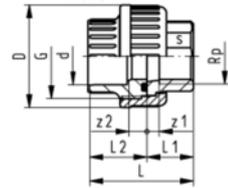
### Model:

- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket PVC-U metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

| d<br>[mm] | d1<br>[mm] | PN | EPDM<br>Code | FPM<br>Code | SP | GP | kg    |
|-----------|------------|----|--------------|-------------|----|----|-------|
| 16        | 17         | 16 | 721 545 505  | 721 545 530 | -  | -  | 0.101 |
| 20        | 21         | 16 | 721 545 506  | 721 545 531 | -  | -  | 0.176 |
| 25        | 27         | 16 | 721 545 507  | 721 545 532 | -  | -  | 0.204 |
| 32        | 34         | 16 | 721 545 508  | 721 545 533 | -  | -  | 0.313 |
| 40        | 42         | 16 | 721 545 509  | 721 545 534 | -  | -  | 0.493 |
| 50        | 48         | 16 | 721 545 510  | 721 545 535 | -  | -  | 0.566 |
| 63        | 60         | 16 | 721 545 511  | 721 545 536 | -  | -  | 0.902 |

| d<br>[mm] | z<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] | G<br>[inch] | s<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|-------------|-----------|
| 16        | 28        | 42        | 18         | 24         | 1.6       | ¾           | 32        |
| 20        | 32        | 48        | 22         | 26         | 2.0       | 1           | 41        |
| 25        | 33        | 52        | 23         | 29         | 2.0       | 1 ¼         | 46        |
| 32        | 36        | 58        | 26         | 33         | 2.0       | 1 ½         | 55        |
| 40        | 38        | 64        | 26         | 39         | 2.0       | 2           | 68        |
| 50        | 42        | 73        | 28         | 46         | 2.0       | 2 ¼         | 74        |
| 63        | 50        | 88        | 32         | 58         | 2.6       | 2 ¾         | 88        |

21 55 05



## Adaptor union PVC-U/brass metric Rp

### Model:

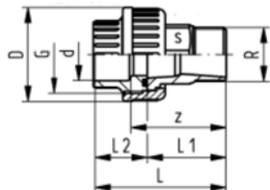
- Union nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM No. 48 41 00



| d    | Rp     | PN*   | Code               | SP | GP  | kg    |
|------|--------|-------|--------------------|----|-----|-------|
| [mm] | [inch] | [bar] |                    |    |     |       |
| 20   | ½      | 16    | <b>721 550 506</b> | 10 | 100 | 0.093 |
| 25   | ¾      | 16    | <b>721 550 507</b> | 5  | 50  | 0.145 |
| 32   | 1      | 16    | <b>721 550 508</b> | 5  | 30  | 0.193 |
| 40   | 1 ¼    | 16    | <b>721 550 509</b> | 2  | 18  | 0.344 |
| 50   | 1 ½    | 16    | <b>721 550 510</b> | 2  | 14  | 0.509 |
| 63   | 2      | 16    | <b>721 550 511</b> | 5  | 5   | 0.776 |
| 75   | 2 ½    | 16    | <b>721 550 512</b> | 2  | -   | 1.407 |
| 90   | 3      | 16    | <b>721 550 513</b> | 2  | -   | 2.120 |

| d    | Rp     | D    | L    | L1   | L2   | z1   | z2   | G        | s    |
|------|--------|------|------|------|------|------|------|----------|------|
| [mm] | [inch] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [inch]   | [mm] |
| 20   | ½      | 43   | 48   | 22   | 26   | 7    | 10   | 1        | 25   |
| 25   | ¾      | 51   | 54   | 25   | 29   | 9    | 10   | 1 1/4    | 30   |
| 32   | 1      | 58   | 60   | 27   | 33   | 8    | 11   | 1 1/2    | 36   |
| 40   | 1 ¼    | 72   | 70   | 31   | 39   | 10   | 13   | 2        | 46   |
| 50   | 1 ½    | 83   | 81   | 35   | 46   | 13   | 15   | 2 1/4    | 55   |
| 63   | 2      | 100  | 98   | 40   | 58   | 14   | 20   | 2 3/4    | 65   |
| 75   | 2 ½    | 127  | 109  | 47   | 62   | 16   | 18   | Tr 108x5 | 85   |
| 90   | 3      | 150  | 121  | 52   | 69   | 18   | 18   | Tr 128x5 | 95   |

21 55 09



## Adaptor union PVC-U/brass metric R

### Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-Ring EPDM No. 48 41 00



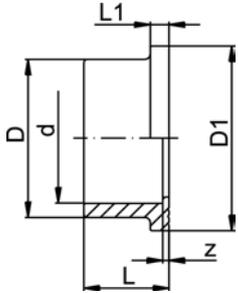
| d    | R      | PN*   | Code               | SP | GP | kg    | D    | L    | L1   | L2   | z    | G        | s    |
|------|--------|-------|--------------------|----|----|-------|------|------|------|------|------|----------|------|
| [mm] | [inch] | [bar] |                    |    |    |       | [mm] | [mm] | [mm] | [mm] | [mm] | [inch]   | [mm] |
| 20   | ½      | 16    | <b>721 550 906</b> | 10 | 50 | 0.132 | 43   | 63   | 37   | 26   | 47   | 1        | 25   |
| 25   | ¾      | 16    | <b>721 550 907</b> | 5  | 40 | 0.196 | 51   | 71   | 42   | 29   | 52   | 1 1/4    | 30   |
| 25   | 1      | 16    | <b>721 550 967</b> | 5  | 40 | 0.307 | 51   | 75   | 46   | 29   | 56   | 1 1/4    | 30   |
| 32   | 1      | 16    | <b>721 550 908</b> | 5  | 25 | 0.297 | 58   | 79   | 46   | 33   | 57   | 1 1/2    | 36   |
| 40   | 1 ¼    | 16    | <b>721 550 909</b> | 2  | 16 | 0.519 | 72   | 91   | 52   | 39   | 65   | 2        | 46   |
| 50   | 1 ½    | 16    | <b>721 550 910</b> | 2  | 10 | 0.723 | 83   | 102  | 56   | 46   | 71   | 2 1/4    | 55   |
| 63   | 2      | 16    | <b>721 550 911</b> | 8  | -  | 1.125 | 100  | 125  | 67   | 58   | 87   | 2 3/4    | 65   |
| 75   | 2 ½    | 16    | <b>721 550 912</b> | 2  | -  | 1.912 | 127  | 139  | 77   | 62   | 95   | Tr 108x5 | 85   |
| 90   | 3      | 16    | <b>721 550 913</b> | 1  | -  | 2.788 | 150  | 155  | 86   | 69   | 104  | Tr 125x8 | 95   |

# Flange adaptors

21 79 01 / 21 80 01

## Flange adaptor PVC-U

### Combined jointing face flat and serrated metric



**Model:**

- Solvent cement socket metric
- d16 - d50: Jointing face flat
- d63 - d400: Combined Jointing face flat and serrated
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07 or Flat gasket EPDM No. 48 40 03  
Only use O-ring EPDM No. 48 41 01, FPM No. 49 41 01 in combination with counterpart Flange Adaptor No. 21 81 01 PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, Backing Flange PP-V for socket systems metric No. 27 70 04
- Flange:

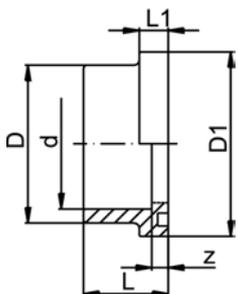
**Note:**The flat gasket affects the maximum allowable operating pressure!

| d<br>[mm] | DN<br>[mm] | PN | Code        | SP | GP  | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|----|-----|-------|-----------|-----------|------------|-----------|------------|
| 16        | 10         | 16 | 721 800 105 | 10 | 100 | 0.007 | 3         | 22        | 29         | 17        | 6          |
| 20        | 15         | 16 | 721 800 106 | 10 | 100 | 0.010 | 3         | 27        | 34         | 19        | 6          |
| 25        | 20         | 16 | 721 800 107 | 10 | 100 | 0.016 | 3         | 33        | 41         | 22        | 7          |
| 32        | 25         | 16 | 721 800 108 | 10 | 100 | 0.024 | 3         | 41        | 50         | 25        | 7          |
| 40        | 32         | 16 | 721 800 109 | 10 | 100 | 0.038 | 3         | 50        | 61         | 29        | 8          |
| 50        | 40         | 16 | 721 800 110 | 10 | 50  | 0.058 | 3         | 61        | 73         | 34        | 8          |
| 63        | 50         | 16 | 721 790 111 | 10 | 50  | 0.103 | 3         | 77        | 90         | 41        | 9          |
| 75        | 65         | 16 | 721 790 112 | 10 | -   | 0.155 | 3         | 91        | 106        | 47        | 10         |
| 90        | 80         | 16 | 721 790 113 | 10 | -   | 0.254 | 5         | 108       | 125        | 56        | 11         |
| 110       | 100        | 16 | 721 790 114 | 10 | -   | 0.418 | 5         | 131       | 150        | 66        | 12         |
| 125       | 100        | 16 | 721 790 115 | 5  | -   | 0.548 | 5         | 148       | 170        | 74        | 13         |
| 140       | 125        | 16 | 721 790 116 | 6  | -   | 0.740 | 5         | 165       | 188        | 81        | 14         |
| 160       | 150        | 16 | 721 790 117 | 2  | -   | 1.077 | 5         | 188       | 213        | 91        | 16         |
| 200       | 200        | 10 | 721 790 119 | 2  | -   | 1.476 | 6         | 224       | 250        | 112       | 24         |
| 225       | 200        | 10 | 721 790 120 | 2  | -   | 1.758 | 6         | 248       | 274        | 125       | 25         |
| 250       | 250        | 10 | 721 790 121 | 1  | -   | 2.150 | 9         | 274       | 303        | 140       | 23         |
| 280       | 250        | 10 | 721 790 122 | 1  | 1   | 2.895 | 5         | 308       | 329        | 151       | 23         |
| 315       | 300        | 6  | 721 790 123 | 1  | 1   | 4.450 | 8         | 346       | 379        | 172       | 27         |
| 355       | 350        | 6  | 721 790 124 | 1  | -   | 5.800 | 10        | 384       | 430        | 194       | 32         |
| 400       | 400        | 6  | 721 790 125 | 1  | -   | 8.900 | 10        | 438       | 482        | 216       | 34         |

21 81 01

## Flange adaptor PVC-U

### Jointing face with O-ring groove metric

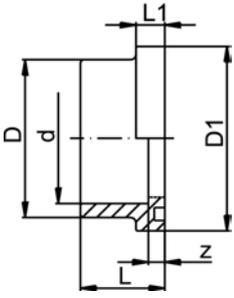


**Model:**

- Solvent cement socket metric
- Counterpart: Flange Adaptor flat No. 21 80 01  
Combined Flange Adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01
- Flange: PVC-U No. 21 70 00, PP/Steel Nr. 27 70 02, PP-V for socket systems metric No. 27 70 04

| d<br>[mm] | DN<br>[mm] | PN | Code        | SP  | GP  | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|-----|-----|-------|-----------|-----------|------------|-----------|------------|
| 16        | 10         | 16 | 721 810 105 | 10  | 100 | 0.008 | 6         | 22        | 29         | 20        | 9          |
| 20        | 15         | 16 | 721 810 106 | 100 | -   | 0.011 | 6         | 27        | 34         | 22        | 9          |
| 25        | 20         | 16 | 721 810 107 | 10  | 100 | 0.018 | 6         | 33        | 41         | 25        | 10         |
| 32        | 25         | 16 | 721 810 108 | 10  | 100 | 0.027 | 6         | 41        | 50         | 28        | 10         |

table continued next page



| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | GP  | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|-----|-------|-----------|-----------|------------|-----------|------------|
| 40        | 32         | 16 | <b>721 810 109</b> | 10 | 100 | 0.045 | 8         | 50        | 61         | 34        | 13         |
| 50        | 40         | 16 | <b>721 810 110</b> | 10 | 50  | 0.068 | 8         | 61        | 73         | 39        | 13         |
| 63        | 50         | 16 | <b>721 810 111</b> | 10 | 50  | 0.120 | 8         | 77        | 90         | 46        | 14         |
| 75        | 65         | 16 | <b>721 810 112</b> | 10 | -   | 0.182 | 8         | 91        | 106        | 52        | 15         |
| 90        | 80         | 16 | <b>721 810 113</b> | 10 | -   | 0.291 | 10        | 108       | 125        | 61        | 16         |
| 110       | 100        | 16 | <b>721 810 114</b> | 10 | -   | 0.468 | 11        | 131       | 150        | 72        | 18         |
| 125       | 100        | 16 | <b>721 810 115</b> | 5  | -   | 0.753 | 11        | 148       | 170        | 80        | 19         |
| 140       | 125        | 16 | <b>721 810 116</b> | 6  | -   | 0.830 | 11        | 165       | 188        | 87        | 20         |
| 160       | 150        | 16 | <b>721 810 117</b> | 2  | -   | 1.180 | 11        | 188       | 213        | 97        | 22         |
| 200       | 200        | 10 | <b>721 810 119</b> | 2  | -   | 1.593 | 12        | 224       | 250        | 118       | 30         |
| 225       | 200        | 10 | <b>721 810 120</b> | 2  | -   | 1.895 | 12        | 248       | 274        | 131       | 31         |
| 250       | 250        | 10 | <b>721 810 121</b> | 1  | -   | 2.150 | 9         | 274       | 303        | 140       | 23         |
| 280       | 250        | 10 | <b>721 810 122</b> | 1  | -   | 3.100 | 13        | 308       | 329        | 158       | 30         |
| 315       | 300        | 6  | <b>721 810 123</b> | 1  | -   | 4.830 | 17        | 346       | 379        | 180       | 35         |

# Solvent Cements and Tools

99 29 80

## Tangit solvent cement for PVC-U



- Tin à 0.25 and 0.5 kg (Net)

| Code        | SP | kg    | Description    |
|-------------|----|-------|----------------|
| 799 298 000 | 12 | 0.125 | tube: 0.125 kg |
| 799 298 001 | 12 | 0.310 | tin: 0.25 kg   |
| 799 298 002 | 12 | 0.590 | tin: 0.50 kg   |
| 799 298 003 | 6  | 1.000 | tin: 1.00 kg   |

99 29 80

## Dytex special solvent cement



### Model:

- Tin à 675g
- Special solving cement, transparent
- For concentrated acids and strong oxidizing agents the use of Dytex is recommended

| Code        | SP | kg    | Description  |
|-------------|----|-------|--------------|
| 799 298 012 | 6  | 1.465 | tin: 1.35 kg |

99 29 80

## Cap for cement



- Cap prevents the evaporation of the solvent whilst using the Tangit cement

| Code        | kg    |
|-------------|-------|
| 799 298 028 | 0.030 |

99 29 80

## Tangit cleaner



### Model:

- For PVC-U, PVC-C, ABS
- 1 litre tin

| Code        | kg    |
|-------------|-------|
| 799 298 010 | 0.868 |

99 29 90

## Round brush



| d-d [mm] |                             | Code        | kg    |
|----------|-----------------------------|-------------|-------|
| 6 - 10   | 4 mm (for Fittings 6-10mm)  | 799 299 001 | 0.005 |
| 12 - 32  | 8 mm (for Fittings 12-32mm) | 799 299 002 | 0.009 |

99 29 90

## Flat brush



| d-d [mm]  |                                  | Code        | kg    |
|-----------|----------------------------------|-------------|-------|
| 40 - 63   | 25x3 mm (for Fittings 40-63mm)   | 799 299 003 | 0.015 |
| 75 - 225  | 50x5 mm (for Fittings 75-225mm)  | 799 299 004 | 0.026 |
| 250 - 400 | 75x6 mm (for Fittings 250-400mm) | 799 299 005 | 0.045 |

90 30 90



## Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

| d-d<br>[mm] | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 16 - 200    | <b>790 309 003</b> | 1  | 1.100 |
| 63 - 400    | <b>790 309 004</b> | 1  | 2.500 |

90 10 90



## Replacement cutting wheels

- for plastic pipe cutter

| d-d<br>[mm] | Article                   | Code               | kg    |
|-------------|---------------------------|--------------------|-------|
| 10 - 63     | SR 63 max. s=7,2 mm       | <b>790 109 011</b> | 0.004 |
| 50 - 110    | SR 110/160 max. s=12,7 mm | <b>790 109 012</b> | 0.015 |
| 110 - 160   | SR 160 max. s=19,0 mm     | <b>790 109 013</b> | 0.023 |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    |
|-------------|--------------------------|--------------------|-------|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |
| 110 - 160   | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |

90 20 20



## Plastic pipe cutter

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary

| d-d<br>[mm] | Code               | SP | kg     |
|-------------|--------------------|----|--------|
| 160 - 355   | <b>790 202 001</b> | -  | 15.400 |



# PVC-C metric

|   |  | Page |
|---|--|------|
|   | Pressure/temperature diagram for PVC-C | 306  |
|    | Pipes                                  | 307  |
|    | Fittings                               | 308  |
|    | Adaptor fittings                       | 313  |
|    | Solvent cement unions                  | 315  |
|   | Adaptor unions                         | 316  |
|  | Flange adaptors                        | 318  |
|  | Solvent Cements and Tools              | 319  |

## Pressure/temperature diagram for PVC-C

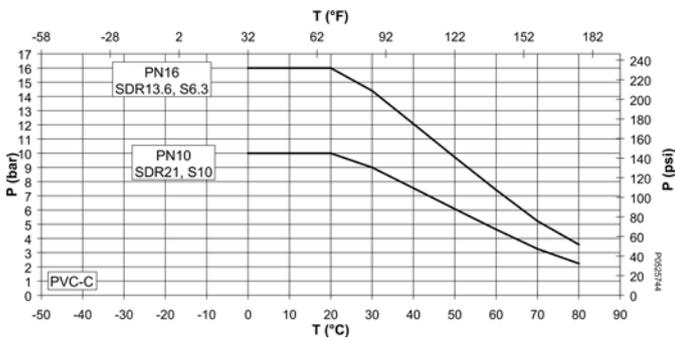
The following pressure/temperature diagram for PVC-C pipes and fittings is valid for a lifetime of 25 years.

The design factor recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

**Remark:** Please take into account the pressure/temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

Under certain conditions working temperatures up to 90 °C are possible for limited times. Please contact your local GF representative for advice on any applications lying outside of our standard guidelines.

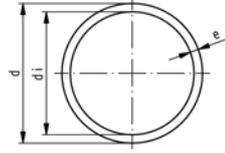


P Permissible pressure in bar, psi

T Temperature in °C, °F

# Pipes

63 01 71



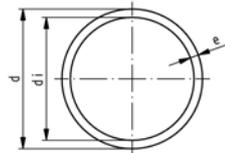
## Pipe PVC-C grey Series S10 SDR21 nominal pressure PN10

### Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code               | kg/m   | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|--------|-----------|------------|
| 75        | 10 | <b>163 017 187</b> | 1.320  | 3,6       | 67.8       |
| 90        | 10 | <b>163 017 188</b> | 1.930  | 4,3       | 81.4       |
| 110       | 10 | <b>163 017 189</b> | 2.890  | 5,3       | 99.4       |
| 160       | 10 | <b>163 017 192</b> | 6.060  | 7,7       | 124.6      |
| 225       | 10 | <b>163 017 195</b> | 11.900 | 10,8      | 203.4      |

63 01 71



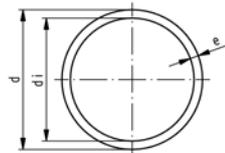
## Pipe PVC-C grey Series S4 SDR9 nominal pressure PN16

### Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

| d<br>[mm] | PN | Code               | kg/m  | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|-------|-----------|------------|
| 16        | 16 | <b>163 017 130</b> | 0.136 | 1,8       | 12.4       |
| 20        | 16 | <b>163 017 131</b> | 0.217 | 2,3       | 15.4       |
| 25        | 16 | <b>163 017 132</b> | 0.326 | 2,8       | 20.2       |

63 01 71



## Pipe PVC-C grey Series S6.3 SDR13.6 nominal pressure PN16

### Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

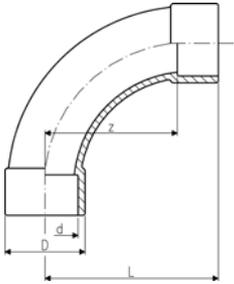
| d<br>[mm] | PN | Code               | kg/m  | e<br>[mm] | di<br>[mm] |
|-----------|----|--------------------|-------|-----------|------------|
| 32        | 16 | <b>163 017 133</b> | 0.379 | 2.4       | 26.0       |
| 40        | 16 | <b>163 017 134</b> | 0.589 | 3.0       | 34.0       |
| 50        | 16 | <b>163 017 135</b> | 0.896 | 3.7       | 42.0       |
| 63        | 16 | <b>163 017 136</b> | 1.420 | 4.7       | 53.0       |
| 75        | 16 | <b>163 017 137</b> | 2.010 | 5.6       | 63.0       |
| 90        | 16 | <b>163 017 138</b> | 2.880 | 6.7       | 76.0       |
| 110       | 16 | <b>163 017 139</b> | 4.270 | 8.2       | 93.0       |
| 160       | 16 | <b>163 017 142</b> | 8.970 | 11.9      | 136.0      |

# Fittings

23 00 01

## Bend 90° PVC-C metric

• Radius = 2 d

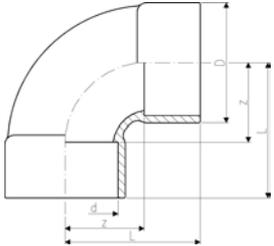


| d [mm] | PN | Code        | SP | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|-------|--------|--------|--------|
| 20     | 16 | 723 000 106 | 10 | 0.030 | 40     | 27     | 58     |
| 25     | 16 | 723 000 107 | 10 | 0.055 | 50     | 35     | 71     |
| 32     | 16 | 723 000 108 | 10 | 0.075 | 64     | 38     | 88     |
| 40     | 16 | 723 000 109 | 30 | 0.147 | 80     | 54     | 109    |
| 50     | 16 | 723 000 110 | 5  | 0.297 | 100    | 61     | 131    |
| 63     | 16 | 723 000 111 | 5  | 0.574 | 126    | 76     | 163    |
| 75     | 16 | 723 000 112 | 1  | 0.830 | 150    | 90     | 194    |
| 90     | 16 | 723 000 113 | 5  | 1.489 | 180    | 113    | 231    |
| 110    | 16 | 723 000 114 | 5  | 2.965 | 220    | 137    | 284    |
| 160    | 16 | 723 000 117 | -  | 7.950 | 320    | 192    | 406    |

23 01 01

## Bend 90° short pattern PVC-C metric

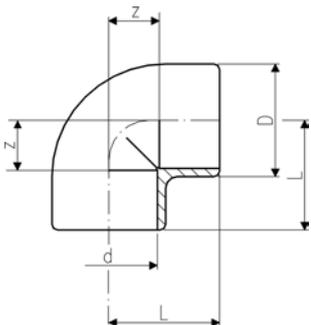
• Radius = 0,75 d



| d [mm] | PN | Code        | SP | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|-------|--------|--------|--------|
| 225    | 10 | 723 010 120 | -  | 7.950 | 168    | 256    | 287    |

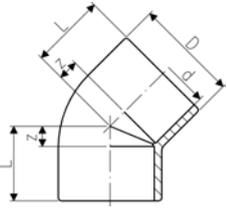
23 10 01

## Elbow 90° PVC-C metric



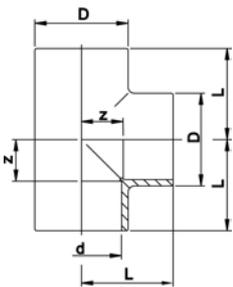
| d [mm] | PN | Code        | SP | kg    | z [mm] | D [mm] | L [mm] |
|--------|----|-------------|----|-------|--------|--------|--------|
| 16     | 16 | 723 100 105 | 10 | 0.010 | 9      | 21     | 23     |
| 20     | 16 | 723 100 106 | 10 | 0.014 | 11     | 25     | 27     |
| 25     | 16 | 723 100 107 | 10 | 0.026 | 14     | 31     | 33     |
| 32     | 16 | 723 100 108 | 10 | 0.046 | 17     | 40     | 39     |
| 40     | 16 | 723 100 109 | 10 | 0.082 | 21     | 49     | 47     |
| 50     | 16 | 723 100 110 | 10 | 0.138 | 26     | 61     | 57     |
| 63     | 16 | 723 100 111 | 10 | 0.310 | 33     | 76     | 72     |
| 75     | 16 | 723 100 112 | 5  | 0.439 | 40     | 90     | 84     |
| 90     | 16 | 723 100 113 | 5  | 0.606 | 46     | 110    | 97     |
| 110    | 16 | 723 100 114 | 4  | 1.120 | 61     | 128    | 116    |
| 160    | 16 | 723 100 117 | 1  | 3.120 | 80     | 185    | 166    |

23 15 01

**Elbow 45° PVC-C metric**

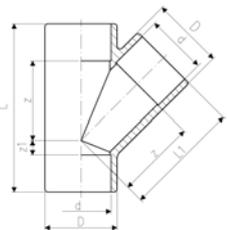
| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |  |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|--|
| 16        | 16 | <b>723 150 105</b> | 10 | 0.008 | 5         | 21        | 19        |  |
| 20        | 16 | <b>723 150 106</b> | 10 | 0.012 | 5         | 25        | 21        |  |
| 25        | 16 | <b>723 150 107</b> | 10 | 0.019 | 6         | 31        | 25        |  |
| 32        | 16 | <b>723 150 108</b> | 10 | 0.037 | 8         | 40        | 30        |  |
| 40        | 16 | <b>723 150 109</b> | 5  | 0.063 | 10        | 49        | 36        |  |
| 50        | 16 | <b>723 150 110</b> | 5  | 0.109 | 12        | 61        | 43        |  |
| 63        | 16 | <b>723 150 111</b> | 10 | 0.208 | 14        | 76        | 52        |  |
| 75        | 16 | <b>723 150 112</b> | 5  | 0.323 | 17        | 88        | 61        |  |
| 90        | 16 | <b>723 150 113</b> | 5  | 0.521 | 20        | 106       | 71        |  |
| 110       | 16 | <b>723 150 114</b> | 10 | 1.151 | 28        | 137       | 89        |  |
| 160       | 16 | <b>723 150 117</b> | 1  | 2.400 | 36        | 185       | 122       |  |
| 225       | 10 | <b>723 150 120</b> | -  | 4.460 | 49        | 250       | 168       |  |

23 20 01

**Tee 90° PVC-C metric**

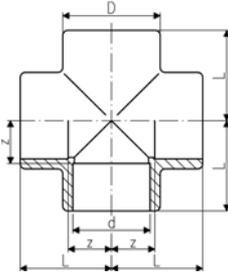
| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |  |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|--|
| 16        | 16 | <b>723 200 105</b> | 10 | 0.014 | 9         | 21        | 23        |  |
| 20        | 16 | <b>723 200 106</b> | 10 | 0.020 | 11        | 25        | 27        |  |
| 25        | 16 | <b>723 200 107</b> | 10 | 0.034 | 14        | 31        | 33        |  |
| 32        | 16 | <b>723 200 108</b> | 10 | 0.060 | 17        | 40        | 39        |  |
| 40        | 16 | <b>723 200 109</b> | 10 | 0.106 | 21        | 49        | 47        |  |
| 50        | 16 | <b>723 200 110</b> | 10 | 0.186 | 26        | 61        | 57        |  |
| 63        | 16 | <b>723 200 111</b> | 10 | 0.360 | 34        | 76        | 72        |  |
| 75        | 16 | <b>723 200 112</b> | 5  | 0.645 | 40        | 90        | 84        |  |
| 90        | 16 | <b>723 200 113</b> | 5  | 0.950 | 47        | 107       | 98        |  |
| 110       | 16 | <b>723 200 114</b> | 3  | 1.446 | 55        | 128       | 116       |  |
| 160       | 16 | <b>723 200 117</b> | -  | 5.280 | 81        | 193       | 167       |  |
| 225       | 10 | <b>723 200 120</b> | 1  | 9.550 | 114       | 256       | 233       |  |

23 25 01

**Tee 45° PVC-C metric**

| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |  |
|-----------|----|--------------------|----|-------|-----------|------------|-----------|-----------|------------|--|
| 20        | 10 | <b>723 250 106</b> | 10 | 0.039 | 30        | 6          | 28        | 68        | 46         |  |
| 25        | 10 | <b>723 250 107</b> | 10 | 0.062 | 36        | 9          | 33        | 83        | 55         |  |
| 32        | 10 | <b>723 250 108</b> | 10 | 0.108 | 45        | 10         | 41        | 99        | 67         |  |
| 40        | 10 | <b>723 250 109</b> | 10 | 0.171 | 56        | 10         | 50        | 118       | 82         |  |
| 50        | 10 | <b>723 250 110</b> | 10 | 0.287 | 66        | 12         | 60        | 140       | 97         |  |
| 63        | 10 | <b>723 250 111</b> | 10 | 0.445 | 85        | 14         | 74        | 175       | 123        |  |
| 75        | 6  | <b>723 250 112</b> | 5  | 0.870 | 101       | 18         | 91        | 207       | 145        |  |
| 90        | 6  | <b>723 250 113</b> | 1  | 1.344 | 122       | 20         | 107       | 245       | 173        |  |
| 110       | 6  | <b>723 250 114</b> | 3  | 2.695 | 149       | 27         | 134       | 298       | 210        |  |

23 30 01

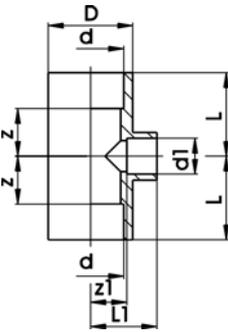
**Cross PVC-C metric**

| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 32        | 16 | <b>723 300 108</b> | -  | 0.101 | 17        | 43        | 39        |
| 63        | 16 | <b>723 300 111</b> | -  | 0.528 | 34        | 79        | 72        |

23 20 01

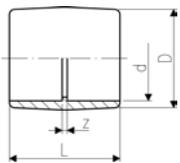
**Tee 90° reducing PVC-C metric**

\*Tee 90° delivered with the required reducing bushes



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|------------|-----------|-----------|------------|
| 25        | 20         | 16 | <b>723 200 134</b> | 10 | 0.042 | 14        | 14         | 33        | 33        | 30         |
| 32        | 25         | 16 | <b>723 200 138</b> | 10 | 0.070 | 17        | 17         | 41        | 39        | 36         |
| 40        | 25         | 16 | <b>723 200 151</b> | 10 | 0.120 | 23        | 23         | 50        | 49        | 42         |
| 40        | 32         | 16 | <b>723 200 147</b> | 10 | 0.120 | 23        | 23         | 50        | 49        | 45         |
| 50        | 20         | 16 | <b>723 200 009</b> | 5  | 0.196 | 28        | 28         | 62        | 59        | 44         |
| 50        | 25         | 16 | <b>723 200 010</b> | 5  | 0.200 | 28        | 28         | 62        | 59        | 47         |
| 50        | 32         | 16 | <b>723 200 164</b> | 5  | 0.200 | 28        | 28         | 62        | 59        | 50         |
| 63        | 25         | 16 | <b>723 200 011</b> | 10 | 0.360 | 34        | 34         | 77        | 73        | 53         |
| 63        | 32         | 16 | <b>723 200 178</b> | 5  | 0.368 | 35        | 34         | 77        | 73        | 56         |
| 63        | 50         | 16 | <b>723 200 170</b> | 5  | 0.386 | 35        | 34         | 77        | 73        | 65         |
| * 75      | 63         | 16 | <b>723 200 184</b> | 8  | 0.766 | 41        | 47         | 92        | 84        | 84         |
| * 90      | 32         | 16 | <b>723 200 142</b> | 6  | 1.436 | 46        | 75         | 111       | 97        | 97         |
| * 90      | 63         | 16 | <b>723 200 145</b> | 5  | 1.348 | 46        | 66         | 111       | 97        | 97         |
| * 110     | 32         | 16 | <b>723 200 135</b> | 3  | 2.796 | 55        | 101        | 128       | 116       | 116        |
| * 110     | 90         | 16 | <b>723 200 137</b> | 3  | 2.677 | 55        | 71         | 128       | 116       | 116        |

23 91 01

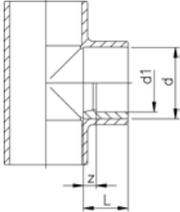
**Socket PVC-C metric**

| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|-----------|
| 16        | 16 | <b>723 910 105</b> | 10 | 0.008 | 3         | 22        | 31        |
| 20        | 16 | <b>723 910 106</b> | 10 | 0.010 | 3         | 26        | 35        |
| 25        | 16 | <b>723 910 107</b> | 10 | 0.015 | 3         | 31        | 41        |
| 32        | 16 | <b>723 910 108</b> | 10 | 0.024 | 3         | 39        | 47        |
| 40        | 16 | <b>723 910 109</b> | 10 | 0.042 | 3         | 49        | 55        |
| 50        | 16 | <b>723 910 110</b> | 10 | 0.078 | 3         | 61        | 65        |
| 63        | 16 | <b>723 910 111</b> | 10 | 0.157 | 3         | 76        | 79        |
| 75        | 16 | <b>723 910 112</b> | 10 | 0.202 | 4         | 87        | 92        |
| 90        | 16 | <b>723 910 113</b> | 10 | 0.347 | 5         | 110       | 107       |
| 110       | 16 | <b>723 910 114</b> | 5  | 0.760 | 5         | 131       | 132       |
| 160       | 16 | <b>723 910 117</b> | 1  | 1.600 | 8         | 183       | 180       |
| 225       | 10 | <b>723 910 120</b> | 1  | 3.750 | 10        | 253       | 248       |

23 90 03

**Reducing bush short pattern PVC-C metric****Model:**

- With solvent cement spigot and socket metric

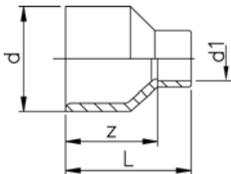


| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 20        | 16         | 16 | <b>723 900 334</b> | 10 | 0.004 | 2         | 16        |
| 25        | 20         | 16 | <b>723 900 337</b> | 10 | 0.004 | 3         | 19        |
| 32        | 20         | 16 | <b>723 900 342</b> | 10 | 0.015 | 6         | 22        |
| 32        | 25         | 16 | <b>723 900 341</b> | 10 | 0.009 | 4         | 22        |
| 40        | 20         | 16 | <b>723 900 348</b> | 10 | 0.023 | 10        | 26        |
| 40        | 25         | 16 | <b>723 900 347</b> | 10 | 0.024 | 7         | 26        |
| 40        | 32         | 16 | <b>723 900 346</b> | 10 | 0.017 | 4         | 26        |
| 50        | 20         | 16 | <b>723 900 355</b> | 10 | 0.036 | 15        | 31        |
| 50        | 25         | 16 | <b>723 900 354</b> | 10 | 0.038 | 12        | 31        |
| 50        | 32         | 16 | <b>723 900 353</b> | 10 | 0.051 | 9         | 31        |
| 50        | 40         | 16 | <b>723 900 352</b> | 10 | 0.031 | 5         | 31        |
| 63        | 32         | 16 | <b>723 900 360</b> | 10 | 0.088 | 16        | 38        |
| 63        | 40         | 16 | <b>723 900 359</b> | 10 | 0.067 | 12        | 38        |
| 63        | 50         | 16 | <b>723 900 358</b> | 10 | 0.065 | 6         | 38        |
| 75        | 50         | 16 | <b>723 900 365</b> | 10 | 0.105 | 13        | 44        |
| 75        | 63         | 16 | <b>723 900 364</b> | 10 | 0.083 | 6         | 44        |
| 90        | 50         | 16 | <b>723 900 372</b> | 10 | 0.196 | 20        | 51        |
| 90        | 63         | 16 | <b>723 900 371</b> | 10 | 0.185 | 14        | 51        |
| 90        | 75         | 16 | <b>723 900 370</b> | 10 | 0.190 | 8         | 51        |
| 110       | 63         | 16 | <b>723 900 378</b> | 5  | 0.334 | 24        | 61        |
| 110       | 90         | 16 | <b>723 900 376</b> | 5  | 0.279 | 10        | 61        |
| 160       | 110        | 16 | <b>723 900 390</b> | 5  | 0.966 | 25        | 86        |
| 225       | 160        | 16 | <b>723 900 396</b> | 2  | 2.380 | 33        | 119       |

23 91 03

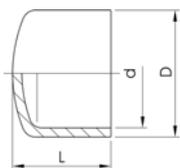
**Reducing bush long pattern PVC-C metric****Model:**

- With solvent cement spigot and socket metric



| d<br>[mm] | d1<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|
| 32        | 20         | 16 | <b>723 910 342</b> | 10 | 0.023 | 30        | 46        |
| 40        | 25         | 16 | <b>723 910 347</b> | 10 | 0.036 | 36        | 55        |
| 50        | 25         | 16 | <b>723 910 354</b> | 10 | 0.059 | 44        | 63        |
| 63        | 32         | 16 | <b>723 910 360</b> | 5  | 0.110 | 54        | 76        |
| 75        | 40         | 16 | <b>723 910 366</b> | 5  | 0.165 | 62        | 88        |
| 90        | 63         | 16 | <b>723 910 371</b> | 5  | 0.313 | 74        | 112       |

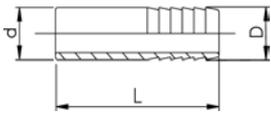
23 96 01

**Cap PVC-C metric**

| d<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|
| 16        | 16 | <b>723 960 105</b> | -  | 0.008 | 26        | 24        |
| 20        | 16 | <b>723 960 106</b> | 10 | 0.011 | 30        | 25        |
| 25        | 16 | <b>723 960 107</b> | 10 | 0.019 | 37        | 30        |
| 32        | 16 | <b>723 960 108</b> | -  | 0.027 | 44        | 34        |
| 40        | 16 | <b>723 960 109</b> | -  | 0.047 | 55        | 41        |
| 50        | 16 | <b>723 960 110</b> | -  | 0.064 | 64        | 44        |
| 63        | 16 | <b>723 960 111</b> | 5  | 0.127 | 80        | 54        |
| 75        | 16 | <b>723 960 112</b> | 5  | 0.162 | 87        | 65        |
| 90        | 16 | <b>723 960 113</b> | 10 | 0.324 | 112       | 77        |
| 110       | 16 | <b>723 960 114</b> | 5  | 0.690 | 145       | 101       |
| 160       | 10 | <b>723 960 117</b> | 2  | 1.550 | 188       | 130       |

23 96 04

## Hose nozzle PVC-C metric



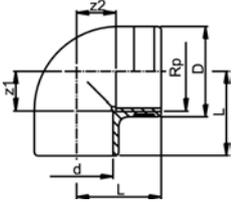
### Model:

- With solvent cement spigot and parallel hose connection

| d<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | L<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|
| 16        | 16 | <b>723 960 405</b> | 10 | 0.009 | 16        | 57        |
| 20        | 16 | <b>723 960 406</b> | 10 | 0.016 | 20        | 73        |
| 25        | 16 | <b>723 960 407</b> | 10 | 0.023 | 25        | 79        |
| 32        | 16 | <b>723 960 408</b> | 10 | 0.038 | 30        | 89        |

# Adaptor fittings

23 10 02



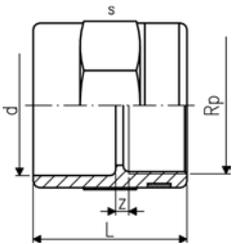
## Elbow 90° PVC-C metric Rp

### Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-C
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP  | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L<br>[mm] |
|-----------|--------------|----|--------------------|-----|-------|------------|------------|-----------|-----------|
| 20        | ½            | 16 | <b>723 100 206</b> | 10  | 0.024 | 11         | 14         | 30        | 27        |
| 25        | ¾            | 16 | <b>723 100 207</b> | 10  | 0.037 | 14         | 17         | 35        | 33        |
| 32        | 1            | 16 | <b>723 100 208</b> | 40  | 0.064 | 17         | 22         | 45        | 39        |
| 40        | 1 ¼          | 16 | <b>723 100 209</b> | 100 | 0.134 | 23         | 27         | 55        | 50        |
| 50        | 1 ½          | 16 | <b>723 100 210</b> | 5   | 0.200 | 27         | 36         | 62        | 58        |
| 63        | 2            | 16 | <b>723 100 211</b> | 10  | 0.376 | 33         | 46         | 75        | 73        |

23 91 02



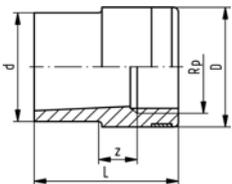
## Socket PVC-C metric Rp

### Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-C
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|-------|-----------|-----------|-----------|
| 20        | ½            | 16 | <b>723 910 206</b> | 10 | 0.027 | 4         | 35        | 32        |
| 25        | ¾            | 16 | <b>723 910 207</b> | 10 | 0.035 | 3         | 40        | 36        |
| 32        | 1            | 16 | <b>723 910 208</b> | 10 | 0.061 | 3         | 45        | 46        |
| 40        | 1 ¼          | 16 | <b>723 910 209</b> | 10 | 0.094 | 5         | 51        | 55        |
| 50        | 1 ½          | 16 | <b>723 910 210</b> | 10 | 0.133 | 7         | 59        | 65        |
| 63        | 2            | 16 | <b>723 910 211</b> | 5  | 0.220 | 7         | 69        | 80        |

23 91 04



## Reducing bush PVC-C metric Rp

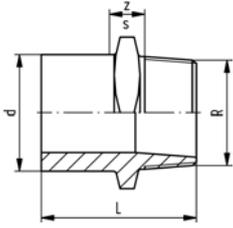
### Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | Rp<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | L<br>[mm] | s<br>[mm] |
|-----------|--------------|----|--------------------|----|-------|-----------|-----------|-----------|-----------|
| 20        | ¾            | 16 | <b>723 910 434</b> | 10 | 0.016 | 24        | 25        | 35        | 15        |
| 25        | ½            | 16 | <b>723 910 437</b> | 10 | 0.023 | 27        | 30        | 41        | 21        |
| 32        | ¾            | 16 | <b>723 910 441</b> | 10 | 0.035 | 32        | 35        | 48        | 33        |
| 40        | 1            | 16 | <b>723 910 446</b> | 10 | 0.064 | 38        | 45        | 56        | 60        |
| 50        | 1 ¼          | 16 | <b>723 910 452</b> | 10 | 0.105 | 46        | 55        | 66        | 99        |
| 63        | 1 ½          | 16 | <b>723 910 458</b> | 5  | 0.153 | 57        | 62        | 77        | 150       |

23 91 05

## Adaptor nipple PVC-C metric R



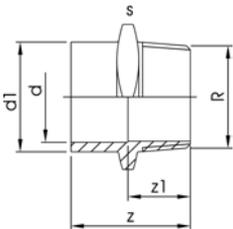
### Model:

- With solvent cement spigot metric and taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-C
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | R<br>[inch] | PN | Code               | SP | kg    | L<br>[mm] | z<br>[mm] | s<br>[mm] |  |
|-----------|-------------|----|--------------------|----|-------|-----------|-----------|-----------|--|
| 16        | 3/8         | 16 | <b>723 910 505</b> | 10 | 0.012 | 35        | 8         | 27        |  |

23 91 05

## Adaptor socket nipple PVC-C metric R



### Model:

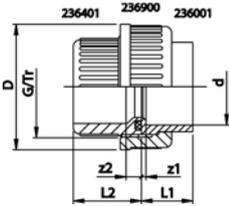
- With solvent cement spigot/socket metric and taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-C
- Install with low mechanical stress and avoid large cyclic temperature changes

| d<br>[mm] | d1<br>[mm] | R<br>[inch] | PN | Code               | SP | kg    | z<br>[mm] | z1<br>[mm] | s<br>[mm] |  |
|-----------|------------|-------------|----|--------------------|----|-------|-----------|------------|-----------|--|
| 16        | 20         | 1/2         | 16 | <b>723 910 556</b> | 10 | 0.018 | 42        | 28         | 32        |  |
| 20        | 25         | 3/4         | 16 | <b>723 910 557</b> | 10 | 0.026 | 47        | 31         | 36        |  |
| 25        | 32         | 1           | 16 | <b>723 910 558</b> | 10 | 0.044 | 54        | 35         | 46        |  |
| 32        | 40         | 1 1/4       | 16 | <b>723 910 559</b> | 10 | 0.072 | 60        | 38         | 55        |  |
| 40        | 50         | 1 1/2       | 16 | <b>723 910 560</b> | 10 | 0.101 | 66        | 40         | 65        |  |
| 50        | 63         | 2           | 16 | <b>723 910 561</b> | 5  | 0.173 | 78        | 47         | 80        |  |

# Solvent cement unions

## Union PVC-C metric

23 51 01



### Model:

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

| d<br>[mm] | PN | EPDM<br>Code       | FPM<br>Code        | SP | kg    | z1<br>[mm] | z2<br>[mm] | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | G/Tr |         |
|-----------|----|--------------------|--------------------|----|-------|------------|------------|-----------|------------|------------|------|---------|
| 16        | 16 | <b>723 510 105</b> | <b>723 510 130</b> | 10 | 0.027 | 3          | 8          | 35        | 19         | 24         |      | 3/4     |
| 20        | 16 | <b>723 510 106</b> | <b>723 510 131</b> | 10 | 0.044 | 3          | 9          | 43        | 21         | 26         |      | 1       |
| 25        | 16 | <b>723 510 107</b> | <b>723 510 132</b> | 10 | 0.072 | 3          | 9          | 53        | 24         | 29         |      | 1 1/4   |
| 32        | 16 | <b>723 510 108</b> | <b>723 510 133</b> | 10 | 0.098 | 3          | 9          | 60        | 27         | 33         |      | 1 1/2   |
| 40        | 16 | <b>723 510 109</b> | <b>723 510 134</b> | 10 | 0.167 | 3          | 10         | 74        | 32         | 39         |      | 2       |
| 50        | 16 | <b>723 510 110</b> | <b>723 510 135</b> | 10 | 0.098 | 3          | 10         | 83        | 33         | 46         |      | 2 1/4   |
| 63        | 16 | <b>723 510 111</b> | <b>723 510 136</b> | 10 | 0.400 | 3          | 10         | 103       | 40         | 58         |      | 2 3/4   |
| 75        | 10 | <b>723 510 112</b> | <b>723 510 137</b> | 2  | 0.670 | 3          | 18         | 135       | 47         | 62         |      | Tr108x5 |
| 90        | 10 | <b>723 510 313</b> | <b>723 510 338</b> | 2  | 1.008 | 5          | 18         | 158       | 56         | 69         |      | Tr128x5 |
| 110       | 10 | <b>723 510 114</b> | <b>723 510 139</b> | 1  | 1.553 | 5          | 11         | 188       | 66         | 72         |      | Tr154x6 |

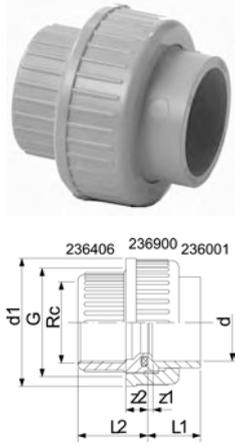
# Adaptor unions

23 51 02

## Adaptor union PVC-C metric Rp

**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-C



| d [mm] | Rp [inch] | PN | EPDM Code   | FPM Code    | SP | kg    | z1 [mm] | z2 [mm] | D [mm] | L1 [mm] | L2 [mm] | G [inch] |
|--------|-----------|----|-------------|-------------|----|-------|---------|---------|--------|---------|---------|----------|
| 16     | 3/8       | 16 | 723 510 205 | 723 510 230 | -  | 0.022 | 3       | 13      | 35     | 17      | 24      | 3/4      |
| 20     | 1/2       | 16 | 723 510 206 | 723 510 231 | -  | 0.040 | 3       | 13      | 43     | 19      | 26      | 1        |
| 25     | 3/4       | 16 | 723 510 207 | 723 510 232 | -  | 0.065 | 3       | 14      | 51     | 22      | 29      | 1 1/4    |
| 32     | 1         | 16 | 723 510 208 | 723 510 233 | -  | 0.103 | 3       | 15      | 58     | 25      | 32      | 1 1/2    |
| 40     | 1 1/4     | 16 | 723 510 209 | 723 510 234 | -  | 0.174 | 3       | 19      | 74     | 31      | 38      | 2        |
| 50     | 1 1/2     | 16 | 723 510 210 | 723 510 235 | -  | 0.239 | 3       | 26      | 83     | 34      | 45      | 2 1/4    |
| 63     | 2         | 16 | 723 510 211 | 723 510 236 | -  | 0.435 | 3       | 33      | 100    | 41      | 56      | 2 3/4    |

23 54 02

## Adaptor union PVC-C/stainless steel metric Rp

**Model:**

- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Union Bush: Solvent cement socket PVC-C metric
- Union Nut: PVC-C
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00



| d [mm] | Rp [inch] | PN | EPDM Code   | FPM Code    | SP | kg    |
|--------|-----------|----|-------------|-------------|----|-------|
| 16     | 3/8       | 16 | 723 540 205 | 723 540 230 | -  | 0.053 |
| 20     | 1/2       | 16 | 723 540 206 | 723 540 231 | -  | 0.096 |
| 25     | 3/4       | 16 | 723 540 207 | 723 540 232 | -  | 0.154 |
| 32     | 1         | 16 | 723 540 208 | 723 540 233 | -  | 0.212 |
| 40     | 1 1/4     | 16 | 723 540 209 | 723 540 234 | -  | 0.356 |
| 50     | 1 1/2     | 16 | 723 540 210 | 723 540 235 | -  | 0.455 |
| 63     | 2         | 16 | 723 540 211 | 723 540 236 | -  | 0.721 |

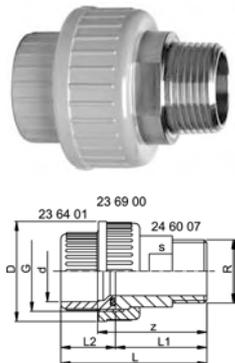
| d [mm] | z1 [mm] | z2 [mm] | D [mm] | L [mm] | L1 [mm] | L2 [mm] | G [inch] | s [mm] |
|--------|---------|---------|--------|--------|---------|---------|----------|--------|
| 16     | 9       | 10      | 35     | 43     | 19      | 24      | 3/4      | 19     |
| 20     | 11      | 10      | 43     | 50     | 24      | 26      | 1        | 24     |
| 25     | 11      | 10      | 51     | 55     | 26      | 29      | 1 1/4    | 29     |
| 32     | 12      | 10      | 58     | 61     | 29      | 33      | 1 1/2    | 36     |
| 40     | 14      | 12      | 74     | 71     | 33      | 39      | 2        | 45     |
| 50     | 15      | 14      | 83     | 79     | 34      | 46      | 2 1/4    | 54     |
| 63     | 15      | 18      | 100    | 95     | 39      | 58      | 2 3/4    | 63     |

23 54 07

## Adaptor union PVC-C/stainless steel metric R

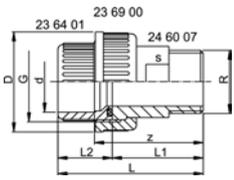
**Model:**

- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Union Bush: Solvent cement socket PVC-C metric
- Union Nut: PVC-C
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00



| d [mm] | R [inch] | PN | EPDM Code   | FPM Code    | SP | kg    |
|--------|----------|----|-------------|-------------|----|-------|
| 16     | 3/8      | 16 | 723 540 705 | 723 540 730 | -  | 0.073 |
| 20     | 1/2      | 16 | 723 540 706 | 723 540 731 | -  | 0.126 |
| 25     | 3/4      | 16 | 723 540 707 | 723 540 732 | -  | 0.174 |
| 32     | 1        | 16 | 723 540 708 | 723 540 733 | -  | 0.262 |
| 40     | 1 1/4    | 16 | 723 540 709 | 723 540 734 | -  | 0.476 |
| 50     | 1 1/2    | 16 | 723 540 710 | 723 540 735 | -  | 0.535 |
| 63     | 2        | 16 | 723 540 711 | 723 540 736 | -  | 0.931 |

table continued next page



| <b>d</b><br>[mm] | <b>z</b><br>[mm] | <b>D</b><br>[mm] | <b>L</b><br>[mm] | <b>L1</b><br>[mm] | <b>L2</b><br>[mm] | <b>G</b><br>[inch] | <b>s</b><br>[mm] |
|------------------|------------------|------------------|------------------|-------------------|-------------------|--------------------|------------------|
| 16               | 40               | 35               | 54               | 30                | 24                | 3/4                | 19               |
| 20               | 44               | 43               | 60               | 34                | 26                | 1                  | 24               |
| 25               | 46               | 51               | 65               | 36                | 29                | 1 1/4              | 32               |
| 32               | 50               | 58               | 72               | 40                | 33                | 1 1/2              | 37               |
| 40               | 58               | 74               | 84               | 46                | 39                | 2                  | 48               |
| 50               | 62               | 83               | 93               | 48                | 46                | 2 1/4              | 54               |
| 63               | 73               | 100              | 111              | 55                | 58                | 2 3/4              | 69               |

## Flange adaptors

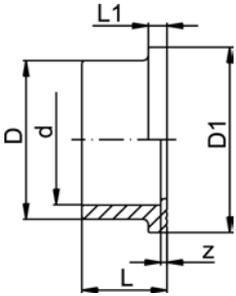
23 79 01

### Flange adaptor PVC-C

#### Combined jointing face flat and serrated metric

**Model:**

- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Gasket: Flat gasket EPDM No. 48 40 03
- Flange: No. 27 70 04, 27 70 02, 21 70 00



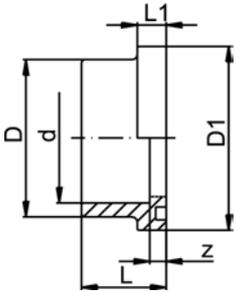
| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|-------|-----------|-----------|------------|-----------|------------|
| 20        | 15         | 16 | <b>723 790 106</b> | 10 | 0.012 | 3         | 27        | 34         | 21        | 6          |
| 25        | 20         | 16 | <b>723 790 107</b> | 10 | 0.018 | 3         | 33        | 41         | 24        | 7          |
| 32        | 25         | 16 | <b>723 790 108</b> | 10 | 0.026 | 3         | 41        | 50         | 27        | 7          |
| 40        | 32         | 16 | <b>723 790 109</b> | -  | 0.044 | 3         | 50        | 61         | 30        | 8          |
| 50        | 40         | 16 | <b>723 790 110</b> | -  | 0.060 | 3         | 61        | 73         | 34        | 8          |
| 63        | 50         | 16 | <b>723 790 111</b> | 10 | 0.106 | 3         | 76        | 90         | 41        | 9          |
| 75        | 65         | 16 | <b>723 790 112</b> | 10 | 0.167 | 3         | 91        | 106        | 47        | 10         |
| 90        | 80         | 16 | <b>723 790 113</b> | 10 | 0.271 | 5         | 108       | 125        | 56        | 11         |
| 110       | 100        | 16 | <b>723 790 114</b> | 10 | 0.432 | 5         | 131       | 150        | 66        | 12         |
| 160       | 150        | 16 | <b>723 790 117</b> | 2  | 1.200 | 5         | 188       | 213        | 91        | 16         |
| 200       | 200        | 10 | <b>723 790 119</b> | 2  | 1.630 | 6         | 224       | 250        | 112       | 24         |
| 225       | 200        | 10 | <b>723 790 120</b> | 2  | 1.900 | 6         | 248       | 274        | 125       | 25         |

23 81 01

### Flange adaptor PVC-C with O-ring groove metric

**Model:**

- Counterpart: Flange Adaptor No. 23 79 01
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01
- Flange: No. 27 70 04, 27 70 02, 21 70 00



| d<br>[mm] | PN | Code               | SP | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|----|--------------------|----|-------|-----------|-----------|------------|-----------|------------|
| 160       | 16 | <b>723 810 117</b> | 2  | 1.300 | 11        | 188       | 213        | 97        | 22         |
| 225       | 10 | <b>723 810 120</b> | 2  | 2.050 | 12        | 248       | 274        | 131       | 31         |

# Solvent Cements and Tools



## Tangit PVC-C Adhesive Can

| Code        | SP | kg    |
|-------------|----|-------|
| 700 648 132 | -  | 0.801 |

99 29 80



## Tangit cleaner

**Model:**

- For PVC-U, PVC-C, ABS
- 1 litre tin

| Code        | kg    |
|-------------|-------|
| 799 298 010 | 0.868 |

99 29 80



## Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

| Code        | kg    |
|-------------|-------|
| 799 298 028 | 0.030 |

99 29 90



## Round brush

| d-d [mm] |                             | Code        | kg    |
|----------|-----------------------------|-------------|-------|
| 6 - 10   | 4 mm (for Fittings 6-10mm)  | 799 299 001 | 0.005 |
| 12 - 32  | 8 mm (for Fittings 12-32mm) | 799 299 002 | 0.009 |

99 29 90



## Flat brush

| d-d [mm]  |                                  | Code        | kg    |
|-----------|----------------------------------|-------------|-------|
| 40 - 63   | 25x3 mm (for Fittings 40-63mm)   | 799 299 003 | 0.015 |
| 75 - 225  | 50x5 mm (for Fittings 75-225mm)  | 799 299 004 | 0.026 |
| 250 - 400 | 75x6 mm (for Fittings 250-400mm) | 799 299 005 | 0.045 |

90 30 90



## Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

| d-d [mm] | Code        | SP | kg    |
|----------|-------------|----|-------|
| 16 - 200 | 790 309 003 | 1  | 1.100 |
| 63 - 400 | 790 309 004 | 1  | 2.500 |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    |  |
|-------------|--------------------------|--------------------|-------|--|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |  |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |  |
| 110 - 160   | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |  |

# Aquasystem PP-R

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## Application Range

The PP-R AQUASYSTEM is particularly suitable for hot and cold water installation residential building, office, hotel, new installation and renovation.

The wide range of pipes and fittings, from 20 to 110 mm, is suitable for any kind of installation.

GF Piping Systems AQUASYSTEM is recommended for the following installations:

- **sanitary & plumbing**
- **heating**
- **air conditioning**
- **food industry**
- **compressed air**

## Outstanding features of the GF Piping Systems AQUASYSTEM

Some of the best advantages offered by the GF Piping Systems AQUASYSTEM®, in comparison with traditional systems, are as illustrated below:

### Reduced installation time

Compared with traditional systems, AQUASYSTEM® can grant a reduction in installation time of at least 30%.

### Resistance to electrolysis

The high resistivity of piping system (10 Ohm cm.) guarantees a very low electrical conductivity. The risk of PP-R pipe or fittings piercing due to stray currents is practically nothing.

Most chemical substances, which might be present in water or concrete, do not attack PP-R; in cases where special substances are being used, please contact Georg Fischer for advice.

### Pipes and fitting pressure losses

The inner surface of pipes and fittings have a very low frictional resistance, in comparison to traditional systems, thus making it possible to reduce the distribution pressure losses (see diagram on the following page).

### No Scaling

The reduction of the water flow normally occurs as a consequence of scaling (calcium carbonate) especially at high temperatures. PP-R pipes of the Georg Fischer system do not have scaling problems.

### Low Thermal Conductivity

The thermal conductivity of PP-R is very low, thus making it possible to reduce heat losses in the hot water supply and traditional heating systems.

This does not remove the statutory requirements for insulation on pipework, but can improve the effect of isolation.

### Long Life

The Georg Fischer piping system for hot and cold water services under pressure, is designed to guarantee over 50 years operation at pressure and temperature conditions listed in the following tables (regression curves).

### Non-toxicity Safety

All materials used in the Georg Fischer supply system, which are in contact with water, are certified as non-toxic and suitable for contact with drinking water (L102).

### Resistance against abrasion

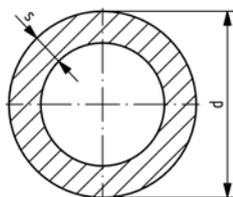
Compared with traditional systems, AQUASYSTEM assures a very high resistance against abrasion granting in this way a long life.

### Noise Reduction

The material used has a high sound reduction index for absorbing sound waves and limiting the spread through pipes.

# Pipes

4001

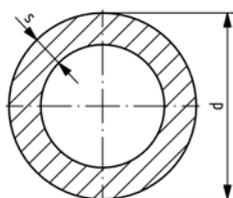


## Pipe PN20

• \* not certified for shipbuilding

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] |
|-----------|-----------|--------------------|----|----|-------|-------|-----------|
| 20        | 3.4       | <b>760 840 002</b> | 90 | -  | 0.176 | 0.176 | 3000      |
| 25        | 4.2       | <b>760 840 003</b> | 60 | -  | 0.270 | 0.270 | 3000      |
| 32        | 5.4       | <b>760 840 004</b> | 45 | -  | 0.444 | 0.444 | 3000      |
| 40        | 6.7       | <b>760 840 005</b> | 30 | -  | 0.690 | 0.690 | 3000      |
| 50        | 8.4       | <b>760 840 006</b> | 15 | -  | 1.037 | 1.037 | 3000      |
| 63        | 10.5      | <b>760 840 007</b> | 9  | -  | 1.688 | 1.688 | 3000      |
| 75        | 12.5      | <b>760 840 008</b> | 9  | -  | 2.409 | 2.409 | 3000      |
| 90        | 15.0      | <b>760 840 009</b> | 6  | -  | 3.450 | 3.450 | 3000      |
| 110       | 18.4      | <b>760 840 010</b> | 6  | -  | 4.910 | 4.910 | 3000      |
| 125       | 20.8      | <b>760 840 011</b> | 3  | -  | 6.490 | 6.490 | 3000      |

4002



## Pipe PN10 For cold water only

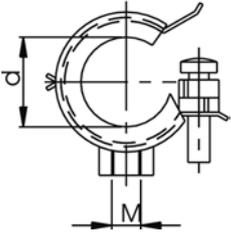
• \* not certified for shipbuilding

| d<br>[mm] | s<br>[mm] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] |
|-----------|-----------|--------------------|----|----|-------|-------|-----------|
| 20        | 1.9       | <b>760 840 012</b> | 90 | -  | 0.107 | 0.107 | 3000      |
| 25        | 2.3       | <b>760 840 013</b> | 60 | -  | 0.164 | 0.164 | 3000      |
| 32        | 3.0       | <b>760 840 014</b> | 45 | -  | 0.267 | 0.267 | 3000      |
| 40        | 3.7       | <b>760 840 015</b> | 30 | -  | 0.412 | 0.412 | 3000      |
| 50        | 4.6       | <b>760 840 016</b> | 15 | -  | 0.636 | 0.636 | 3000      |
| 63        | 5.8       | <b>760 840 017</b> | 9  | -  | 1.005 | 1.005 | 3000      |
| 75        | 6.9       | <b>760 840 018</b> | 9  | -  | 1.418 | 1.418 | 3000      |
| 90        | 8.2       | <b>760 840 019</b> | 6  | -  | 2.030 | 2.030 | 3000      |
| 110       | 10.0      | <b>760 840 020</b> | 6  | -  | 3.000 | 3.000 | 3000      |
| * 125     | 11.4      | <b>760 840 021</b> | 3  | -  | 5.580 | 5.580 | 3000      |

# Accessoires

## Pipe clamp

5091

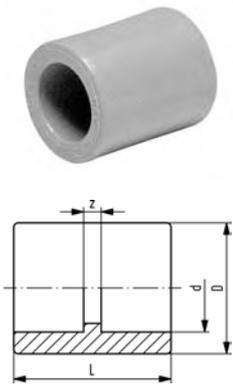


| d<br>[mm] | Code               | SP | GP | kg    | M<br>[mm] |
|-----------|--------------------|----|----|-------|-----------|
| 16        | <b>761 066 296</b> | 50 | -  | 0.040 | 8         |
| 20        | <b>761 066 297</b> | 50 | -  | 0.050 | 8         |
| 25        | <b>761 066 298</b> | 50 | -  | 0.051 | 8         |
| 32        | <b>761 066 299</b> | 50 | -  | 0.060 | 8         |
| 40        | <b>761 066 300</b> | 50 | -  | 0.081 | 8         |
| 50        | <b>761 066 301</b> | 50 | -  | 0.091 | 8         |
| 63        | <b>761 066 302</b> | 50 | -  | 0.132 | 8         |
| 75        | <b>761 066 303</b> | 50 | -  | 0.152 | 8         |
| 90        | <b>761 066 304</b> | 25 | -  | 0.191 | 10        |
| 110       | <b>761 066 305</b> | 25 | -  | 0.232 | 10        |

# Socket fusion fittings

4003

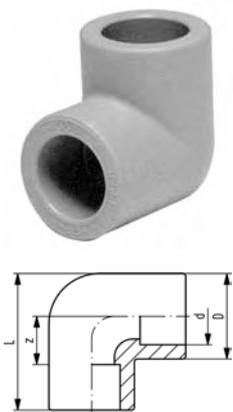
## Socket



| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 022</b> | 20 | 180 | 0.013 | 0.013 | 30        | 36        | 4         |
| 25        | <b>760 840 023</b> | 15 | 135 | 0.017 | 0.017 | 34        | 40        | 4         |
| 32        | <b>760 840 024</b> | 10 | 70  | 0.026 | 0.026 | 42        | 43        | 3         |
| 40        | <b>760 840 025</b> | 10 | 40  | 0.051 | 0.051 | 55        | 47        | 3         |
| 50        | <b>760 840 026</b> | 6  | 24  | 0.091 | 0.091 | 69        | 53        | 3         |
| 63        | <b>760 840 027</b> | 2  | 10  | 0.168 | 0.168 | 86        | 62        | 4         |
| 75        | <b>760 840 028</b> | 2  | 8   | 0.280 | 0.280 | 107       | 67        | 5         |
| 90        | <b>760 840 029</b> | 1  | 6   | 0.425 | 0.425 | 127       | 74        | 6         |
| 110       | <b>760 840 030</b> | 1  | 35  | 0.380 | 0.380 | 148       | 80        | 6         |
| 125       | <b>760 840 031</b> | 1  | 25  | 0.758 | 0.758 | 165       | 90        | 10        |

4005

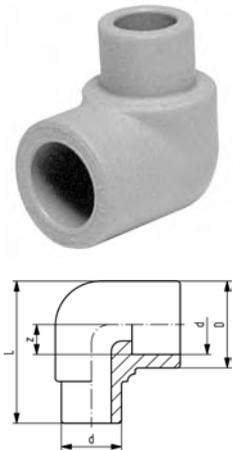
## 90° elbow



| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 032</b> | 20 | 140 | 0.018 | 0.018 | 30        | 42        | 11        |
| 25        | <b>760 840 033</b> | 10 | 80  | 0.030 | 0.030 | 34        | 48        | 13        |
| 32        | <b>760 840 034</b> | 10 | 50  | 0.046 | 0.046 | 42        | 59        | 18        |
| 40        | <b>760 840 035</b> | 5  | 25  | 0.090 | 0.090 | 55        | 71        | 21        |
| 50        | <b>760 840 036</b> | 4  | 12  | 0.167 | 0.167 | 69        | 87        | 27        |
| 63        | <b>760 840 037</b> | 2  | 8   | 0.315 | 0.315 | 86        | 106       | 34        |
| 75        | <b>760 840 038</b> | 1  | 4   | 0.535 | 0.535 | 107       | 124       | 39        |
| 90        | <b>760 840 039</b> | 1  | 2   | 0.860 | 0.860 | 129       | 145       | 46        |
| 110       | <b>760 840 040</b> | 1  | 10  | 1.090 | 1.090 | 148       | 173       | 62        |
| 125       | <b>760 840 041</b> | 1  | 6   | 2.311 | 2.311 | 165       | 206       | 84        |

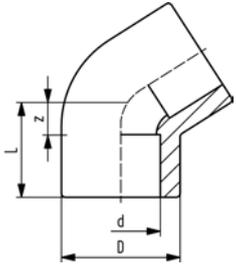
4007

## 90° elbow, male-female



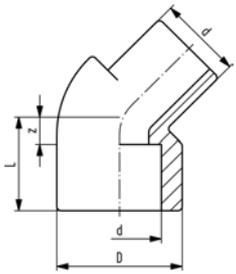
| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 042</b> | 20 | 140 | 0.019 | 0.019 | 29        | 45        | 14        |
| 25        | <b>760 840 047</b> | 10 | 80  | 0.030 | 0.030 | 34        | 51        | 16        |
| 32        | <b>760 840 048</b> | 10 | 50  | 0.047 | 0.047 | 42        | 60        | 19        |

4009

**45° elbow**

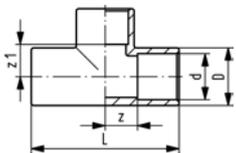
| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 052</b> | 20 | 160 | 0.016 | 0.016 | 30        | 20        | 5         |
| 25        | <b>760 840 053</b> | 20 | 100 | 0.020 | 0.020 | 34        | 22        | 6         |
| 32        | <b>760 840 054</b> | 10 | 60  | 0.031 | 0.031 | 42        | 27        | 8         |
| 40        | <b>760 840 055</b> | 10 | 30  | 0.068 | 0.068 | 55        | 31        | 10        |
| 50        | <b>760 840 056</b> | 5  | 15  | 0.124 | 0.124 | 69        | 36        | 12        |
| 63        | <b>760 840 057</b> | 2  | 8   | 0.237 | 0.237 | 86        | 44        | 14        |
| 75        | <b>760 840 058</b> | 1  | 4   | 0.397 | 0.397 | 107       | 48        | 16        |
| 90        | <b>760 840 059</b> | 1  | 2   | 0.530 | 0.530 | 122       | 55        | 19        |
| 110       | <b>760 840 060</b> | 1  | 15  | 0.700 | 0.700 | 148       | 69        | 32        |
| 125       | <b>760 840 061</b> | 1  | 10  | 1.522 | 1.522 | 165       | 77        | 37        |

4025

**45° elbow, male-female**

| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 172</b> | 20 | 100 | 0.013 | 0.013 | 30        | 20        | 5         |

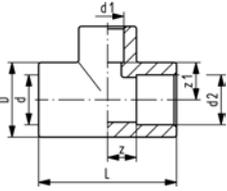
4011

**Tee equal**

| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] | z1<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|------------|
| 20        | <b>760 840 062</b> | 20 | 100 | 0.023 | 0.023 | 30        | 55        | 12        | 12         |
| 25        | <b>760 840 063</b> | 10 | 60  | 0.036 | 0.036 | 34        | 64        | 14        | 14         |
| 32        | <b>760 840 064</b> | 10 | 30  | 0.070 | 0.070 | 42        | 77        | 19        | 19         |
| 40        | <b>760 840 065</b> | 5  | 15  | 0.126 | 0.126 | 55        | 87        | 22        | 22         |
| 50        | <b>760 840 066</b> | 2  | 10  | 0.236 | 0.236 | 69        | 105       | 28        | 28         |
| 63        | <b>760 840 067</b> | 1  | 4   | 0.445 | 0.445 | 86        | 126       | 34        | 34         |
| 75        | <b>760 840 068</b> | 1  | 4   | 0.705 | 0.705 | 107       | 141       | 40        | 40         |
| 90        | <b>760 840 069</b> | 1  | 2   | 0.920 | 0.920 | 122       | 162       | 46        | 46         |
| 110       | <b>760 840 070</b> | 1  | 10  | 1.280 | 1.280 | 148       | 198       | 62        | 62         |
| 125       | <b>760 840 080</b> | 1  | 6   | 2.820 | 2.820 | 165       | 248       | 84        | 84         |

# 4013

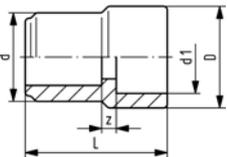
## Reducing Tee



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] | z1<br>[mm] |
|-----------|------------|------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|------------|
| 25        | 20         | 25         | <b>760 840 071</b> | 10 | 60 | 0.038 | 0.038 | 34        | 64        | 14        | 14         |
| 25        | 20         | 20         | <b>760 840 072</b> | 10 | 60 | 0.041 | 0.041 | 34        | 64        | 15        | 14         |
| 25        | 25         | 20         | <b>760 840 073</b> | 10 | 60 | 0.038 | 0.038 | 34        | 64        | 15        | 14         |
| 32        | 20         | 32         | <b>760 840 076</b> | 10 | 30 | 0.064 | 0.064 | 42        | 77        | 19        | 19         |
| 32        | 25         | 32         | <b>760 840 077</b> | 10 | 30 | 0.064 | 0.064 | 42        | 77        | 19        | 19         |
| 32        | 32         | 25         | <b>760 840 078</b> | 10 | 30 | 0.073 | 0.073 | 42        | 77        | 20        | 19         |
| 32        | 25         | 25         | <b>760 840 079</b> | 10 | 30 | 0.068 | 0.068 | 42        | 77        | 20        | 19         |
| 40        | 20         | 40         | <b>760 840 082</b> | 5  | 15 | 0.080 | 0.080 | 52        | 88        | 24        | 24         |
| 40        | 25         | 40         | <b>760 840 083</b> | 5  | 15 | 0.190 | 0.190 | 52        | 88        | 24        | 24         |
| 40        | 32         | 40         | <b>760 840 084</b> | 5  | 15 | 0.135 | 0.135 | 55        | 88        | 25        | 26         |
| 50        | 20         | 50         | <b>760 840 087</b> | 2  | 10 | 0.190 | 0.190 | 65        | 104       | 28        | 31         |
| 50        | 25         | 50         | <b>760 840 088</b> | 2  | 10 | 0.190 | 0.190 | 65        | 104       | 28        | 30         |
| 50        | 32         | 50         | <b>760 840 089</b> | 2  | 10 | 0.190 | 0.190 | 65        | 104       | 27        | 28         |
| 50        | 40         | 50         | <b>760 840 090</b> | 2  | 10 | 0.254 | 0.254 | 69        | 106       | 35        | 32         |
| 63        | 25         | 63         | <b>760 840 092</b> | 1  | 4  | 0.390 | 0.390 | 85        | 124       | 35        | 46         |
| 63        | 32         | 63         | <b>760 840 093</b> | 1  | 4  | 0.400 | 0.400 | 85        | 124       | 35        | 44         |
| 63        | 40         | 63         | <b>760 840 094</b> | 1  | 4  | 0.390 | 0.390 | 85        | 124       | 34        | 35         |
| 63        | 50         | 63         | <b>760 840 095</b> | 1  | 4  | 0.472 | 0.472 | 86        | 128       | 41        | 34         |
| 75        | 25         | 75         | <b>760 840 086</b> | 4  | 4  | 0.550 | 0.550 | 100       | 142       | 41        | 55         |
| 75        | 32         | 75         | <b>760 840 096</b> | 1  | 4  | 0.560 | 0.560 | 100       | 142       | 41        | 53         |
| 75        | 40         | 75         | <b>760 840 097</b> | 1  | 4  | 0.520 | 0.520 | 100       | 142       | 41        | 51         |
| 75        | 50         | 75         | <b>760 840 098</b> | 1  | 4  | 0.550 | 0.550 | 100       | 142       | 42        | 48         |
| 75        | 63         | 75         | <b>760 840 099</b> | 1  | 4  | 0.647 | 0.647 | 107       | 141       | 40        | 35         |
| 90        | 75         | 90         | <b>760 840 100</b> | 1  | 2  | 0.880 | 0.880 | 120       | 166       | 50        | 53         |
| 110       | 90         | 110        | <b>760 840 101</b> | 1  | 2  | 1.280 | 1.280 | 165       | 248       | 84        | 84         |

# 4015

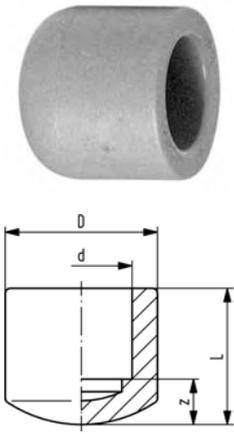
## Reducing bush, male-female



| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|------------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 25        | 20         | <b>760 840 102</b> | 20 | 200 | 0.010 | 0.010 | 28        | 39        | 5         |
| 32        | 20         | <b>760 840 105</b> | 15 | 120 | 0.016 | 0.016 | 28        | 44        | 8         |
| 32        | 25         | <b>760 840 106</b> | 15 | 120 | 0.018 | 0.018 | 33        | 46        | 8         |
| 40        | 20         | <b>760 840 107</b> | 10 | 80  | 0.027 | 0.027 | 29        | 47        | 10        |
| 40        | 25         | <b>760 840 109</b> | 10 | 80  | 0.029 | 0.029 | 35        | 50        | 11        |
| 40        | 32         | <b>760 840 110</b> | 10 | 80  | 0.034 | 0.034 | 44        | 52        | 11        |
| 50        | 20         | <b>760 840 111</b> | 10 | 40  | 0.047 | 0.047 | 27        | 53        | 12        |
| 50        | 25         | <b>760 840 112</b> | 10 | 40  | 0.047 | 0.047 | 34        | 55        | 12        |
| 50        | 32         | <b>760 840 114</b> | 10 | 40  | 0.052 | 0.052 | 44        | 58        | 13        |
| 50        | 40         | <b>760 840 115</b> | 10 | 40  | 0.060 | 0.060 | 55        | 60        | 13        |
| 63        | 20         | <b>760 840 117</b> | 5  | 20  | 0.085 | 0.085 | 27        | 60        | 15        |
| 63        | 25         | <b>760 840 118</b> | 5  | 20  | 0.085 | 0.085 | 32        | 62        | 15        |
| 63        | 32         | <b>760 840 119</b> | 5  | 20  | 0.085 | 0.085 | 42        | 64        | 15        |
| 63        | 40         | <b>760 840 120</b> | 5  | 20  | 0.096 | 0.096 | 55        | 70        | 19        |
| 63        | 50         | <b>760 840 121</b> | 5  | 20  | 0.110 | 0.110 | 59        | 70        | 17        |
| 75        | 25         | <b>760 840 129</b> | 2  | 10  | 0.135 | 0.135 | 32        | 66        | 12        |
| 75        | 32         | <b>760 840 130</b> | 2  | 10  | 0.135 | 0.135 | 42        | 63        | 12        |
| 75        | 40         | <b>760 840 122</b> | 2  | 10  | 0.135 | 0.135 | 55        | 63        | 14        |
| 75        | 50         | <b>760 840 123</b> | 2  | 10  | 0.150 | 0.150 | 70        | 70        | 14        |
| 75        | 63         | <b>760 840 124</b> | 2  | 10  | 0.183 | 0.183 | 87        | 75        | 15        |
| 90        | 50         | <b>760 840 125</b> | 2  | 8   | 0.192 | 0.192 | 71        | 72        | 17        |
| 90        | 63         | <b>760 840 126</b> | 2  | 8   | 0.205 | 0.205 | 86        | 82        | 19        |
| 90        | 75         | <b>760 840 127</b> | 2  | 8   | 0.241 | 0.241 | 100       | 84        | 19        |
| 110       | 63         | <b>760 840 139</b> | 1  | 45  | 0.300 | 0.300 | 130       | 87        | 27        |
| 110       | 75         | <b>760 840 116</b> | 1  | 45  | 0.350 | 0.350 | 130       | 90        | 29        |
| 110       | 90         | <b>760 840 128</b> | 1  | 45  | 0.340 | 0.340 | 130       | 93        | 31        |
| 125       | 110        | <b>760 840 131</b> | 1  | 15  | 1.245 | 1.245 | 130       | 45        | 35        |

4017

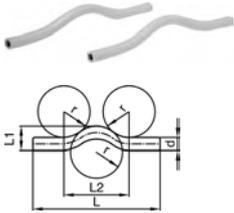
## Cap



| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |  |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|--|
| 20        | <b>760 840 132</b> | 20 | 240 | 0.010 | 0.010 | 30        | 27        | 11        |  |
| 25        | <b>760 840 133</b> | 20 | 200 | 0.013 | 0.013 | 34        | 29        | 11        |  |
| 32        | <b>760 840 134</b> | 10 | 100 | 0.021 | 0.021 | 42        | 33        | 13        |  |
| 40        | <b>760 840 135</b> | 10 | 60  | 0.039 | 0.039 | 55        | 35        | 15        |  |
| 50        | <b>760 840 136</b> | 10 | 30  | 0.073 | 0.073 | 69        | 42        | 20        |  |
| 63        | <b>760 840 137</b> | 5  | 20  | 0.137 | 0.137 | 86        | 50        | 25        |  |
| 75        | <b>760 840 138</b> | 2  | 8   | 0.251 | 0.251 | 107       | 58        | 27        |  |

4019

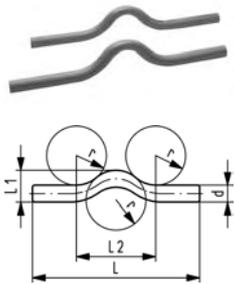
## Swan neck



| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | r<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |  |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|------------|------------|--|
| 20        | <b>760 840 142</b> | 10 | 80 | 0.065 | 0.065 | 80        | 350       | 45         | 200        |  |
| 25        | <b>760 840 143</b> | 10 | 60 | 0.099 | 0.099 | 80        | 350       | 55         | 200        |  |
| 32        | <b>760 840 144</b> | 8  | 32 | 0.156 | 0.156 | 80        | 350       | 67         | 200        |  |

4020

## Narrow swan neck



| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | r<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |  |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|------------|------------|--|
| 20        | <b>760 840 146</b> | 10 | 80 | 0.065 | 0.065 | 70        | 365       | 55         | 180        |  |

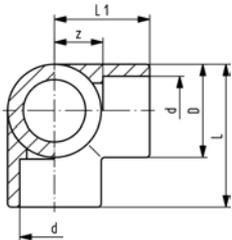
4022

## Narrow swan neck F-F



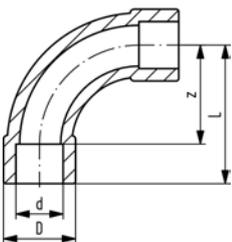
| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | h<br>[mm] | l<br>[mm] |  |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|--|
| 20        | <b>760 840 148</b> | 1  | 50 | 0.042 | 0.042 | 48        | 160       |  |
| 25        | <b>760 840 149</b> | 1  | 30 | 0.068 | 0.068 | 60        | 200       |  |

4021

**Three-ways welding 90° elbow**

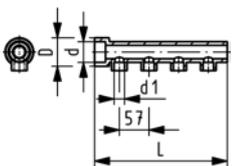
| d<br>[mm] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|-----|-------|-------|-----------|-----------|------------|-----------|
| 20        | <b>760 840 152</b> | 20 | 100 | 0.022 | 0.022 | 30        | 42        | 28         | 10        |

4023

**90° bend**

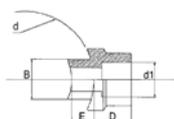
| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | <b>760 840 162</b> | 10 | 50 | 0.031 | 0.031 | 29        | 70        | 40        |
| 25        | <b>760 840 163</b> | 10 | 50 | 0.038 | 0.038 | 34        | 85        | 50        |

4026

**Manifold**

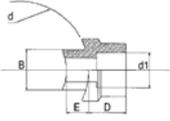
| d<br>[mm] | d1<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|------------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 40        | 20         |              | <b>760 840 182</b> | 1  | 10 | 0.241 | 0.241 | 55        | 255       | 57        |
| 40        |            | ½            | <b>760 840 186</b> | 1  | 10 | 0.490 | 0.490 | 55        | 255       | 57        |

4027

**Saddle with spigot**

| d - d1<br>[mm] | Code               | SP | GP  | kg    | kg/m  | B<br>[mm] | D<br>[mm] | E<br>[mm] |
|----------------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 40 - 20        | <b>760 840 190</b> | 10 | 100 | 0.010 | 0.010 | 22        | 20        | 7         |
| 40 - 25        | <b>760 840 191</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 7         |
| 50 - 20        | <b>760 840 192</b> | 10 | 100 | 1.000 | 1.000 | 22        | 20        | 8         |
| 50 - 25        | <b>760 840 193</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 8         |
| 63 - 20        | <b>760 840 194</b> | 10 | 100 | 0.010 | 0.010 | 22        | 20        | 10        |
| 63 - 25        | <b>760 840 195</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 10        |
| 63 - 32        | <b>760 840 196</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 10        |
| 75 - 20        | <b>760 840 197</b> | 10 | 100 | 0.010 | 0.010 | 22        | 20        | 10        |
| 75 - 25        | <b>760 840 198</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 10        |
| 75 - 32        | <b>760 840 199</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 10        |
| 75 - 40        | <b>760 840 200</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |

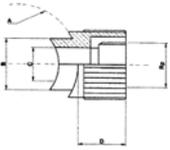
table continued next page



| d - d1<br>[mm] | Code               | SP | GP  | kg    | kg/m  | B<br>[mm] | D<br>[mm] | E<br>[mm] |
|----------------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 90 - 20        | <b>760 840 220</b> | 10 | 100 | 0.010 | 0.010 | 22        | 20        | 15        |
| 90 - 25        | <b>760 840 221</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 15        |
| 90 - 32        | <b>760 840 222</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |
| 90 - 40        | <b>760 840 231</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |
| 110 - 20       | <b>760 840 223</b> | 10 | 100 | 0.010 | 0.010 | 22        | 20        | 15        |
| 110 - 25       | <b>760 840 224</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 15        |
| 110 - 32       | <b>760 840 225</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |
| 110 - 40       | <b>760 840 226</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |
| 125 - 20       | <b>760 840 227</b> | 10 | 100 | 0.010 | 0.010 | 22        | 27        | 15        |
| 125 - 25       | <b>760 840 228</b> | 10 | 100 | 0.010 | 0.010 | 22        | 30        | 15        |
| 125 - 32       | <b>760 840 229</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |
| 125 - 40       | <b>760 840 230</b> | 10 | 100 | 0.010 | 0.010 | 32        | 30        | 15        |

4092

## Threaded female saddle with spigot

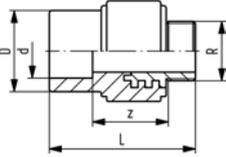


| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP  | kg    | kg/m  | B<br>[mm] | C<br>[mm] | D<br>[mm] |
|-----------|--------------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 40        | ½            | <b>760 840 764</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 50        | ½            | <b>760 840 766</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 50        | ¾            | <b>760 840 767</b> | 10 | 100 | 0.130 | 0.130 | 32        | 21        | 30        |
| 63        | ½            | <b>760 840 768</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 63        | ¾            | <b>760 840 769</b> | 10 | 100 | 0.130 | 0.130 | 32        | 21        | 30        |
| 75        | ½            | <b>760 840 770</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 75        | ¾            | <b>760 840 771</b> | 10 | 100 | 0.130 | 0.130 | 32        | 21        | 30        |
| 75        | 1            | <b>760 840 772</b> | 10 | 100 | 0.240 | 0.240 | 32        | 22        | 34        |
| 90        | ½            | <b>760 840 773</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 90        | ¾            | <b>760 840 774</b> | 10 | 100 | 0.130 | 0.130 | 32        | 21        | 30        |
| 90        | 1            | <b>760 840 775</b> | 10 | 100 | 0.240 | 0.240 | 32        | 22        | 34        |
| 110       | ½            | <b>760 840 776</b> | 10 | 100 | 0.110 | 0.110 | 22        | 13        | 27        |
| 110       | ¾            | <b>760 840 777</b> | 10 | 100 | 0.130 | 0.130 | 32        | 21        | 30        |
| 110       | 1            | <b>760 840 778</b> | 10 | 100 | 0.240 | 0.240 | 32        | 22        | 34        |
| 125       | ½            | <b>760 840 779</b> | 10 | 100 | 0.240 | 0.240 | 22        | 14        | 27        |
| 125       | ¾            | <b>760 840 780</b> | 10 | 100 | 0.240 | 0.240 | 32        | 22        | 30        |
| 125       | 1            | <b>760 840 781</b> | 10 | 100 | 0.240 | 0.240 | 32        | 22        | 34        |

# Transition fittings

4029

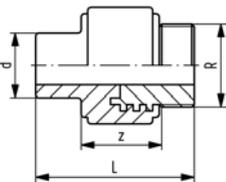
## Threaded male coupling



| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | ½           | <b>760 840 241</b> | 10 | 90 | 0.086 | 0.086 | 30        | 54        | 23        |
| 20        | ¾           | <b>760 840 242</b> | 10 | 60 | 0.137 | 0.137 | 34        | 56        | 24        |
| 25        | ½           | <b>760 840 243</b> | 10 | 60 | 0.088 | 0.088 | 34        | 56        | 25        |
| 25        | ¾           | <b>760 840 244</b> | 10 | 60 | 0.133 | 0.133 | 34        | 56        | 22        |
| 32        | ¾           | <b>760 840 245</b> | 6  | 30 | 0.137 | 0.137 | 42        | 67        | 31        |
| 32        | 1           | <b>760 840 246</b> | 6  | 30 | 0.328 | 0.328 | 42        | 80        | 43        |
| 40        | 1           | <b>760 840 239</b> | 2  | 12 | 0.338 | 0.338 | 54        | 86        | 28        |
| 40        | 1 ¼         | <b>760 840 247</b> | 2  | 12 | 0.463 | 0.463 | 54        | 85        | 43        |
| 50        | 1 ½         | <b>760 840 248</b> | 2  | 12 | 0.529 | 0.529 | 68        | 89        | 44        |
| 63        | 2           | <b>760 840 249</b> | 2  | 8  | 0.776 | 0.776 | 85        | 100       | 46        |
| 75        | 2 ½         | <b>760 840 250</b> | 1  | 5  | 1.170 | 1.170 | 101       | 108       | 50        |
| 90        | 3           | <b>760 840 238</b> | 1  | 2  | 1.450 | 1.450 | 121       | 113       | 50        |

4030

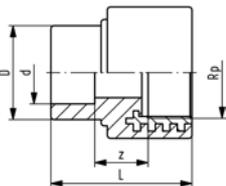
## Threaded male coupling for connection



| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|-----------|
| 20        | ½           | <b>760 840 251</b> | 10 | 90 | 0.083 | 0.083 | 52        | 21        |
| 25        | ½           | <b>760 840 253</b> | 10 | 70 | 0.088 | 0.088 | 52        | 21        |
| 25        | ¾           | <b>760 840 254</b> | 10 | 70 | 0.130 | 0.130 | 55        | 21        |
| 32        | ¾           | <b>760 840 255</b> | 6  | 30 | 0.168 | 0.168 | 65        | 29        |
| 32        | 1           | <b>760 840 256</b> | 6  | 30 | 0.323 | 0.323 | 77        | 40        |
| 40        | 1           | <b>760 840 257</b> | 2  | 12 | 0.235 | 0.235 | 78        | 33        |

4031

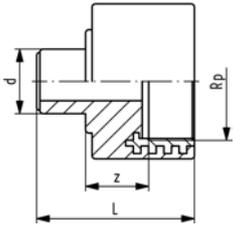
## Threaded female coupling



| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP  | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|-----|-------|-------|-----------|-----------|-----------|
| 20        | ½            | <b>760 840 271</b> | 10 | 100 | 0.076 | 0.076 | 30        | 42        | 13        |
| 20        | ¾            | <b>760 840 272</b> | 10 | 70  | 0.084 | 0.084 | 34        | 42        | 12        |
| 25        | ½            | <b>760 840 273</b> | 10 | 70  | 0.078 | 0.078 | 34        | 42        | 11        |
| 25        | ¾            | <b>760 840 274</b> | 10 | 70  | 0.083 | 0.083 | 34        | 42        | 10        |
| 32        | ¾            | <b>760 840 275</b> | 6  | 30  | 0.089 | 0.089 | 42        | 53        | 19        |
| 32        | 1            | <b>760 840 276</b> | 6  | 30  | 0.240 | 0.240 | 42        | 62        | 25        |
| 40        | 1            | <b>760 840 269</b> | 2  | 12  | 0.249 | 0.249 | 54        | 71        | 28        |
| 40        | 1 ¼          | <b>760 840 277</b> | 2  | 12  | 0.381 | 0.381 | 54        | 68        | 26        |
| 50        | 1 ½          | <b>760 840 278</b> | 2  | 12  | 0.441 | 0.441 | 68        | 71        | 26        |
| 63        | 2            | <b>760 840 279</b> | 2  | 8   | 0.610 | 0.610 | 85        | 80        | 26        |
| 75        | 2 ½          | <b>760 840 280</b> | 1  | 5   | 0.804 | 0.804 | 101       | 83        | 25        |

4032

## Threaded female coupling for connection



| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP  | kg    | kg/m  | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|-----|-------|-------|-----------|-----------|
| 20        | ½            | <b>760 840 281</b> | 10 | 100 | 0.066 | 0.066 | 40        | 13        |
| 25        | ½            | <b>760 840 283</b> | 10 | 80  | 0.075 | 0.075 | 40        | 11        |
| 25        | ¾            | <b>760 840 284</b> | 10 | 80  | 0.080 | 0.080 | 40        | 10        |
| 32        | ¾            | <b>760 840 285</b> | 6  | 30  | 0.117 | 0.117 | 51        | 19        |
| 32        | 1            | <b>760 840 286</b> | 6  | 30  | 0.233 | 0.233 | 61        | 26        |
| 40        | 1            | <b>760 840 287</b> | 2  | 12  | 0.235 | 0.235 | 62        | 24        |



## Transition coupler PPR-iFIT

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    | kg/m  |
|-----------|------------|--------------------|----|-----|-------|-------|
| 20        | 16 / 20    | <b>760 840 741</b> | 10 | 100 | 0.086 | 0.086 |
| 25        | 16 / 20    | <b>760 840 742</b> | 10 | 100 | 0.088 | 0.088 |
| 25        | 25 / 32    | <b>760 840 743</b> | 10 | 100 | 0.134 | 0.134 |
| 32        | 25 / 32    | <b>760 840 744</b> | 6  | 100 | 0.137 | 0.137 |

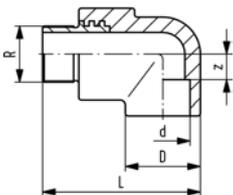


## Transition saddle PPR-iFIT

| d<br>[mm] | d1<br>[mm] | Code               | SP | GP  | kg    | kg/m  |
|-----------|------------|--------------------|----|-----|-------|-------|
| 40        | 16 / 20    | <b>760 840 751</b> | 10 | 100 | 0.110 | 0.110 |
| 50        | 16 / 20    | <b>760 840 753</b> | 10 | 100 | 0.110 | 0.110 |
| 50        | 25 / 32    | <b>760 840 754</b> | 10 | 100 | 0.130 | 0.130 |
| 63        | 16 / 20    | <b>760 840 755</b> | 10 | 100 | 0.110 | 0.110 |
| 63        | 25 / 32    | <b>760 840 756</b> | 10 | 100 | 0.130 | 0.130 |
| 75        | 16 / 20    | <b>760 840 757</b> | 10 | 100 | 0.110 | 0.110 |
| 75        | 25 / 32    | <b>760 840 758</b> | 10 | 100 | 0.130 | 0.130 |
| 90        | 16 / 20    | <b>760 840 759</b> | 10 | 100 | 0.110 | 0.110 |
| 90        | 25 / 32    | <b>760 840 760</b> | 10 | 100 | 0.130 | 0.130 |
| 110       | 16 / 20    | <b>760 840 761</b> | 10 | 100 | 0.110 | 0.110 |
| 110       | 25 / 32    | <b>760 840 762</b> | 10 | 100 | 0.130 | 0.130 |

4033

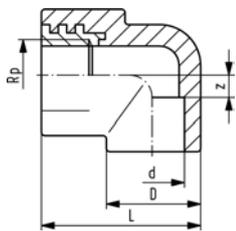
## Threaded male 90° elbow



| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | ½           | <b>760 840 291</b> | 10 | 70 | 0.093 | 0.093 | 29        | 61        | 12        |
| 20        | ¾           | <b>760 840 292</b> | 10 | 50 | 0.141 | 0.141 | 29        | 65        | 12        |
| 25        | ½           | <b>760 840 293</b> | 10 | 40 | 0.109 | 0.109 | 34        | 69        | 15        |
| 25        | ¾           | <b>760 840 294</b> | 10 | 40 | 0.153 | 0.153 | 34        | 71        | 15        |
| 32        | ¾           | <b>760 840 295</b> | 6  | 30 | 0.163 | 0.163 | 42        | 83        | 17        |
| 32        | 1           | <b>760 840 296</b> | 6  | 24 | 0.345 | 0.345 | 43        | 91        | 19        |

4035

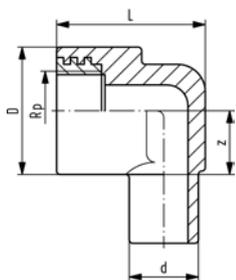
## Threaded female 90° elbow



| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | 1/2          | <b>760 840 301</b> | 10 | 80 | 0.086 | 0.086 | 29        | 49        | 12        |
| 20        | 3/4          | <b>760 840 302</b> | 10 | 50 | 0.091 | 0.091 | 29        | 49        | 12        |
| 25        | 1/2          | <b>760 840 303</b> | 10 | 70 | 0.098 | 0.098 | 34        | 57        | 15        |
| 25        | 3/4          | <b>760 840 304</b> | 10 | 40 | 0.103 | 0.103 | 34        | 57        | 15        |
| 32        | 3/4          | <b>760 840 305</b> | 5  | 40 | 0.113 | 0.113 | 43        | 69        | 17        |
| 32        | 1            | <b>760 840 306</b> | 6  | 24 | 0.256 | 0.256 | 44        | 75        | 19        |

4036

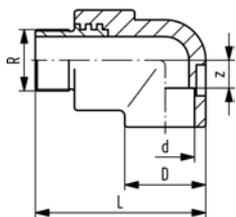
## Threaded female 90° elbow with spigot



| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | 1/2          | <b>760 840 315</b> | 10 | 80 | 0.079 | 0.079 | 37        | 43        | 14        |

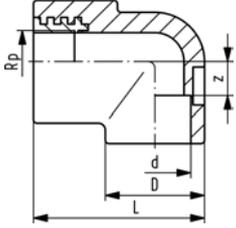
4037

## Threaded male 90° elbow with bracket



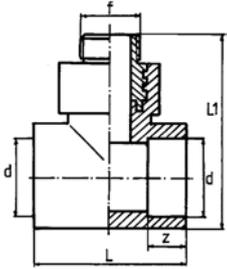
| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | 1/2         | <b>760 840 321</b> | 10 | 60 | 0.096 | 0.096 | 29        | 62        | 12        |

4039

**Threaded female 90° elbow with bracket**

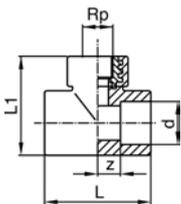
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | ½            | <b>760 840 331</b> | 10 | 70 | 0.088 | 0.088 | 29        | 50        | 12        |

4041

**Threaded male tee**

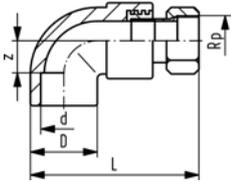
| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|------------|-----------|
| 20        | ½           | <b>760 840 341</b> | 10 | 60 | 0.098 | 0.098 | 55        | 64         | 11        |
| 20        | ¾           | <b>760 840 342</b> | 10 | 50 | 0.144 | 0.144 | 55        | 65         | 11        |
| 25        | ½           | <b>760 840 343</b> | 10 | 40 | 0.111 | 0.111 | 64        | 69         | 14        |
| 25        | ¾           | <b>760 840 344</b> | 10 | 40 | 0.160 | 0.160 | 64        | 72         | 14        |
| 32        | ¾           | <b>760 840 345</b> | 6  | 24 | 0.186 | 0.186 | 77        | 79         | 18        |
| 32        | 1           | <b>760 840 346</b> | 6  | 18 | 0.353 | 0.353 | 77        | 91         | 18        |

4043

**Threaded female tee**

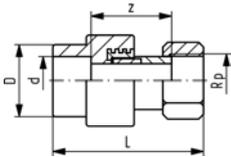
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|------------|-----------|
| 20        | ½            | <b>760 840 351</b> | 10 | 70 | 0.087 | 0.087 | 55        | 50         | 11        |
| 20        | ¾            | <b>760 840 352</b> | 10 | 50 | 0.095 | 0.095 | 55        | 50         | 11        |
| 25        | ½            | <b>760 840 353</b> | 10 | 40 | 0.103 | 0.103 | 64        | 57         | 14        |
| 25        | ¾            | <b>760 840 354</b> | 10 | 40 | 0.109 | 0.109 | 64        | 57         | 14        |
| 32        | ½            | <b>760 840 360</b> | 6  | 24 | 0.126 | 0.126 | 77        | 64         | 18        |
| 32        | ¾            | <b>760 840 355</b> | 6  | 24 | 0.133 | 0.133 | 77        | 64         | 18        |
| 32        | 1            | <b>760 840 356</b> | 6  | 18 | 0.267 | 0.267 | 77        | 75         | 18        |

4045

**90° elbow for metal taper threaded**

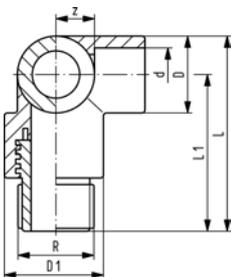
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | ¾            | <b>760 840 362</b> | 10 | 70 | 0.145 | 0.145 | 29        | 69        | 12        |
| 25        | 1            | <b>760 840 365</b> | 10 | 40 | 0.209 | 0.209 | 34        | 91        | 15        |
| 32        | 1 ¼          | <b>760 840 367</b> | 6  | 24 | 0.414 | 0.414 | 43        | 101       | 19        |

4047

**Adaptor union for metal taper threaded**

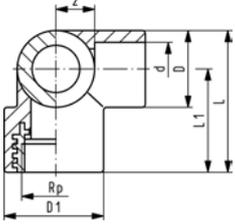
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|-----------|
| 20        | ¾            | <b>760 840 372</b> | 10 | 60 | 0.130 | 0.130 | 30        | 63        | 23        |
| 25        | 1            | <b>760 840 375</b> | 10 | 40 | 0.189 | 0.189 | 34        | 68        | 27        |
| 32        | 1 ¼          | <b>760 840 377</b> | 6  | 18 | 0.315 | 0.315 | 43        | 90        | 30        |
| 40        | 1 ½          | <b>760 840 379</b> | 1  | 10 | 0.647 | 0.647 | 54        | 102       | 68        |
| 50        | 2            | <b>760 840 380</b> | 1  | 10 | 0.810 | 0.810 | 68        | 110       | 72        |

4048

**Three-ways threaded male 90° elbow**

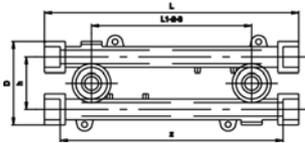
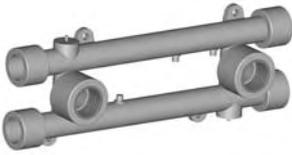
| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] | L1<br>[mm] | D<br>[mm] | D1<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-----------|------------|-----------|------------|-----------|
| 20        | ½           | <b>760 840 382</b> | 10 | 70 | 0.096 | 0.096 | 63        | 35         | 29        | 37         | 12        |

4049

**Three-ways threaded female 90° elbow**

| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | L<br>[mm] | L1<br>[mm] | D<br>[mm] | D1<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|------------|-----------|------------|-----------|
| 20        | ½            | <b>760 840 392</b> | 10 | 80 | 0.087 | 0.087 | 50        | 35         | 29        | 37         | 12        |

4040

**Modular distribution element**

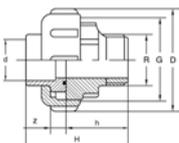
| d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | z<br>[mm] |
|-----------|--------------|--------------------|----|----|-------|-------|-----------|-----------|------------|------------|------------|-----------|
| 20        | ½            | <b>760 840 335</b> | 1  | 8  | 0.255 | 0.255 | 80        | 248       | 100        | 135        | 153        | 220       |

4040

**Distribution element**

| d-d<br>[mm] | Rp<br>[inch] | Code               | SP | GP | kg    | kg/m  |
|-------------|--------------|--------------------|----|----|-------|-------|
| 20 - 25     | ½            | <b>760 840 336</b> | 1  | 6  | 0.422 | 0.422 |
| 20 - 25     | ¾            | <b>760 840 337</b> | 1  | 6  | 0.462 | 0.462 |

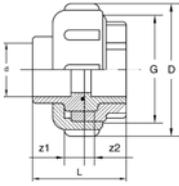
4086

**Adaptor union socket male threaded**

| d<br>[mm] | R<br>[inch] | Code               | SP | GP | kg    | kg/m  | G<br>[inch] | h<br>[mm] | H<br>[mm] | D<br>[mm] | z<br>[mm] |
|-----------|-------------|--------------------|----|----|-------|-------|-------------|-----------|-----------|-----------|-----------|
| 25        | ¾           | <b>760 840 702</b> | 5  | 20 | 0.325 | 0.325 | 1 ½         | 41        | 67        | 56        | 8         |
| 32        | 1           | <b>760 840 703</b> | 5  | 10 | 0.471 | 0.471 | 2 ½         | 45        | 73        | 69        | 8         |
| 40        | 1 ¼         | <b>760 840 704</b> | 1  | 10 | 0.758 | 0.758 | 2 ½         | 48        | 80        | 83        | 10        |
| 50        | 1 ½         | <b>760 840 705</b> | 1  | 5  | 0.800 | 0.800 | 2 ¾         | 48        | 83        | 90        | 10        |
| 63        | 2           | <b>760 840 706</b> | 1  | 4  | 1.175 | 1.175 | 3 ½         | 54        | 92        | 104       | 10        |

4088

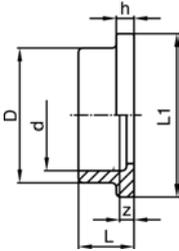
## Adaptor union socket-socket



| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | G<br>[inch] | z1<br>[mm] | z2<br>[mm] |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|-------------|------------|------------|
| 25        | <b>760 840 732</b> | 5  | 20 | 0.215 | 0.215 | 56        | 49        | 1 ½         | 8          | 5          |
| 32        | <b>760 840 733</b> | 5  | 10 | 0.297 | 0.297 | 69        | 53        | 2 ½         | 8          | 5          |
| 40        | <b>760 840 734</b> | 1  | 10 | 0.474 | 0.474 | 83        | 59        | 2 ½         | 10         | 5          |
| 50        | <b>760 840 735</b> | 1  | 5  | 0.510 | 0.510 | 90        | 65        | 2 ¾         | 10         | 5          |
| 63        | <b>760 840 736</b> | 1  | 4  | 0.753 | 0.753 | 110       | 71        | 3 ½         | 10         | 5          |

4050

## Flange adaptor

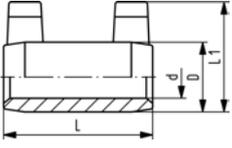


| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | L1<br>[mm] | z<br>[mm] |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|------------|-----------|
| 25        | <b>760 840 414</b> | 10 | 50 | 0.012 | 0.012 | 33        | 23        | 41         | 5         |
| 32        | <b>760 840 415</b> | 5  | 30 | 0.018 | 0.018 | 41        | 25        | 50         | 5         |
| 40        | <b>760 840 416</b> | 5  | 20 | 0.024 | 0.024 | 50        | 27        | 61         | 5         |
| 50        | <b>760 840 417</b> | 2  | 10 | 0.046 | 0.046 | 61        | 33        | 74         | 8         |
| 63        | <b>760 840 418</b> | 2  | 10 | 0.084 | 0.084 | 76        | 37        | 91         | 8         |
| 75        | <b>760 840 419</b> | 2  | 10 | 0.140 | 0.140 | 90        | 39        | 107        | 8         |
| 90        | <b>760 840 420</b> | 2  | 8  | 0.213 | 0.213 | 106       | 46        | 126        | 10        |
| 110       | <b>760 840 421</b> | 1  | 50 | 0.240 | 0.240 | 131       | 49        | 150        | 7         |

# Accessories

4061

## Electric socket



| d<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | L1<br>[mm] |  |
|-----------|--------------------|----|----|-------|-------|-----------|-----------|------------|--|
| 20        | <b>760 840 452</b> | 1  | -  | 0.045 | 0.045 | 33        | 70        | 50         |  |
| 25        | <b>760 840 453</b> | 1  | -  | 0.050 | 0.050 | 38        | 70        | 57         |  |
| 32        | <b>760 840 454</b> | 1  | -  | 0.070 | 0.070 | 46        | 79        | 62         |  |
| 40        | <b>760 840 455</b> | 1  | -  | 0.100 | 0.100 | 55        | 90        | 71         |  |
| 50        | <b>760 840 456</b> | 1  | -  | 0.155 | 0.155 | 67        | 100       | 82         |  |
| 63        | <b>760 840 457</b> | 1  | -  | 0.215 | 0.215 | 86        | 106       | 101        |  |
| 75        | <b>760 840 458</b> | 1  | -  | 0.415 | 0.415 | 103       | 121       | 115        |  |
| 90        | <b>760 840 459</b> | 1  | -  | 0.580 | 0.580 | 121       | 131       | 134        |  |
| 110       | <b>760 840 460</b> | 1  | -  | 0.790 | 0.790 | 142       | 142       | 156        |  |
| 125       | <b>760 840 461</b> | 1  | -  | 1.060 | 1.060 | 163       | 151       | 175        |  |

4058

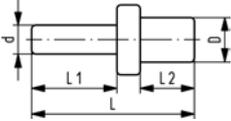
## Plant test plug



| d<br>[inch] | Code               | SP  | GP  | kg    | kg/m  | Version |  |
|-------------|--------------------|-----|-----|-------|-------|---------|--|
| ½           | <b>760 840 512</b> | 100 | 100 | 0.015 | 0.015 | blue    |  |
| ½           | <b>760 840 513</b> | 100 | 100 | 0.015 | 0.015 | red     |  |

4053

## Repairing hole plug



| di<br>[mm] | Code               | SP | GP | kg    | kg/m  | D<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] |  |
|------------|--------------------|----|----|-------|-------|-----------|-----------|------------|------------|--|
| 7.5        | <b>760 840 425</b> | 20 | 20 | 0.001 | 0.001 | 11.40     | 42        | 22         | 14         |  |

## Tools and accessories

4083



### Electrofusion welding machine

**Model:**

- Input voltage: 220 V - 50 Hz
- Voltage: <48V
- Electrical power: 1200 Watt
- On request: positioning tool for electrofusion

| d-d<br>[mm] | Code        | SP | GP | kg     | kg/m   |
|-------------|-------------|----|----|--------|--------|
| 20 - 125    | 760 840 680 | 1  | 1  | 11.000 | 11.000 |

4105



### Standard socket welder

**Model:**

- 518: socket welder with electromechanical temperature regulation, 700W - 230V
- 519: socket welder with electronic temperature regulation, 700W - 230V
- 521: socket welder with electromechanical temperature regulation, 1500W - 230V

| d<br>[mm] | Code        | SP | GP | kg    | kg/m  |
|-----------|-------------|----|----|-------|-------|
| 16 / 63   | 760 840 518 | 1  | 1  | 1.820 | 1.820 |
| 16 / 63   | 760 840 519 | 1  | 1  | 1.820 | 1.820 |
| 16 / 110  | 760 840 521 | 1  | 1  | 3.160 | 3.160 |

4110



### Bench holder

| Code        | SP | GP | kg    | kg/m  |
|-------------|----|----|-------|-------|
| 760 840 524 | 1  | 1  | 0.700 | 0.700 |

4118



### Suitcase

| Code        | SP | GP | kg    | kg/m  |
|-------------|----|----|-------|-------|
| 760 840 533 | 1  | 1  | 3.000 | 3.000 |

4124



### Complete socket welder

#### PE63R manual welding with electromechanical thermostat, 700W - 230V

**Model:**

- Heating tools 20-32
- Fork holder
- Empty box

| d-d<br>[mm] | Code        | SP | GP | kg    | kg/m  |
|-------------|-------------|----|----|-------|-------|
| 20 - 32     | 760 840 540 | 1  | 1  | 8.000 | 8.000 |

4134



### Electronic bench socket welding machine

**Model:**

- PB660 with electronic socket welder 1200W - 230V

| d-d<br>[mm] | Code        | SP | GP | kg     | kg/m   | Mod.  |
|-------------|-------------|----|----|--------|--------|-------|
| 20 - 110    | 760 840 660 | 1  | 1  | 65.000 | 65.000 | PB660 |

4145

**Set of heating tools for welder**

| d<br>[mm] | Code               | SP | GP | kg    | kg/m  |
|-----------|--------------------|----|----|-------|-------|
| 20        | <b>760 840 562</b> | 1  | 1  | 0.080 | 0.080 |
| 25        | <b>760 840 563</b> | 1  | 1  | 0.100 | 0.100 |
| 32        | <b>760 840 564</b> | 1  | 1  | 0.180 | 0.180 |
| 40        | <b>760 840 565</b> | 1  | 1  | 0.270 | 0.270 |
| 50        | <b>760 840 566</b> | 1  | 1  | 0.400 | 0.400 |
| 63        | <b>760 840 567</b> | 1  | 1  | 0.550 | 0.550 |
| 75        | <b>760 840 568</b> | 1  | 1  | 0.960 | 0.960 |
| 90        | <b>760 840 569</b> | 1  | 1  | 1.400 | 1.400 |
| 110       | <b>760 840 570</b> | 1  | 1  | 1.980 | 1.980 |
| 125       | <b>760 840 571</b> | 1  | 1  | 2.000 | 2.000 |

4145

**Hole mender**

| d<br>[mm] | Code               | SP | GP | kg    | kg/m  |
|-----------|--------------------|----|----|-------|-------|
| 8         | <b>760 840 481</b> | 1  | 1  | 0.050 | 0.050 |
| 12        | <b>760 840 482</b> | 1  | 1  | 0.050 | 0.050 |

4145

**Set of heating tools for saddles**

| d<br>[mm]     | d<br>[inch] | Code               | SP | GP | kg    | kg/m  |
|---------------|-------------|--------------------|----|----|-------|-------|
| 40 / 20 / 25  |             | <b>760 840 585</b> | 1  | 1  | 0.209 | 0.209 |
| 50 / 20 / 25  |             | <b>760 840 586</b> | 1  | 1  | 0.223 | 0.223 |
| 63 / 20 / 25  |             | <b>760 840 587</b> | 1  | 1  | 0.223 | 0.223 |
| 75 / 20 / 25  |             | <b>760 840 588</b> | 1  | 1  | 0.231 | 0.231 |
| 90 / 20 / 25  |             | <b>760 840 589</b> | 1  | 1  | 0.231 | 0.231 |
| 110 / 20 / 25 |             | <b>760 840 590</b> | 1  | 1  | 0.233 | 0.233 |
| 125 / 20 / 25 |             | <b>760 840 591</b> | 1  | 1  | 0.250 | 0.250 |
| 50 / 32 / 40  | 1           | <b>760 840 592</b> | 1  | 1  | 0.285 | 0.285 |
| 63 / 32 / 40  | 1           | <b>760 840 593</b> | 1  | 1  | 0.317 | 0.317 |
| 75 / 32 / 40  | 1           | <b>760 840 594</b> | 1  | 1  | 0.322 | 0.322 |
| 90 / 32 / 40  | 1           | <b>760 840 595</b> | 1  | 1  | 0.322 | 0.322 |
| 110 / 32 / 40 | 1           | <b>760 840 596</b> | 1  | 1  | 0.334 | 0.334 |
| 125 / 32 / 40 | 1           | <b>760 840 597</b> | 1  | 1  | 0.350 | 0.350 |

5310

**Thermostatic pencil**

| Fuse temperature<br>[°C] | Code               | SP | GP | kg    | kg/m  |
|--------------------------|--------------------|----|----|-------|-------|
| 253                      | <b>799 496 008</b> | -  | -  | 0.014 | 0.014 |
| 274                      | <b>799 496 009</b> | -  | -  | 0.018 | 0.018 |

4073

**Cutting nippers**

| d<br>[mm] | Code               | SP | GP | kg    | kg/m  |
|-----------|--------------------|----|----|-------|-------|
| 20 - 32   | <b>760 840 484</b> | 1  | 1  | 0.510 | 0.510 |
| 20 - 75   | <b>760 840 486</b> | 1  | 1  | 2.700 | 2.700 |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d<br>[mm] | Article                  | Code               | kg    | kg/m  |  |
|-------------|--------------------------|--------------------|-------|-------|--|
| 10 - 63     | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 | 0.710 |  |
| 50 - 110    | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 | 1.400 |  |

5320



## Gloves

| Code               | SP | GP | kg    | kg/m  |  |
|--------------------|----|----|-------|-------|--|
| <b>761 066 799</b> | 1  | -  | 0.115 | 0.115 |  |



# JRG Sanipex MT

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# Pipes

4600



## JRG Sanipex MT pipe in bars

multi-layer pipe (PE-X/AL/PE-X), according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, Fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | l<br>[m] | s<br>[mm] |
|-----------|------------|----------------|----------|-----------|
| 16        | 12         | <b>4600016</b> | 5.000    | 2.250     |
| 20        | 15         | <b>4600020</b> | 5.000    | 2.500     |
| 26        | 20         | <b>4600026</b> | 5.000    | 3.000     |
| 32        | 25         | <b>4600032</b> | 5.000    | 3.000     |
| 40        | 32         | <b>4600040</b> | 5.000    | 3.500     |
| 50        | 40         | <b>4600050</b> | 5.000    | 4.000     |
| 63        | 50         | <b>4600063</b> | 5.000    | 4.500     |
| 16        | 12         | <b>4600316</b> | 3.000    | 2.250     |
| 20        | 15         | <b>4600320</b> | 3.000    | 2.500     |
| 36        | 20         | <b>4600326</b> | 3.000    | 3.000     |
| 32        | 25         | <b>4600332</b> | 3.000    | 3.000     |
| 40        | 32         | <b>4600340</b> | 3.000    | 3.500     |

4602



## JRG Sanipex MT pipe in protective pipe in coils

with black PE-protection conduit, multi-layer pipe, (PE-X/AL/PE-X) according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (white) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | d<br>[mm] | d1<br>[mm] | l<br>[m] | s<br>[mm] |
|-----------|------------|----------------|-----------|------------|----------|-----------|
| 16        | 12         | <b>4602016</b> | 16        | 25         | 50.000   | 2.250     |
| 20        | 15         | <b>4602020</b> | 20        | 29         | 50.000   | 2.500     |

4604



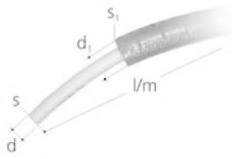
## JRG Sanipex MT pipe in coils

multi-layer pipe, (PE-X/AL/PE-X) according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (white) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water law 2001, UV stabilised, for drinking water 70°C/10 bar, heating max. 95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | d<br>[mm] | l<br>[m] | s<br>[mm] |
|-----------|------------|----------------|-----------|----------|-----------|
| 16        | 12         | <b>4604016</b> | 16        | 50.000   | 2.250     |
| 20        | 15         | <b>4604020</b> | 20        | 50.000   | 2.500     |
| 26        | 20         | <b>4604026</b> | 26        | 50.000   | 3.000     |
| 32        | 25         | <b>4604032</b> | 32        | 50.000   | 3.000     |

4606

## JRG Sanipex MT pipe in coils, insulated

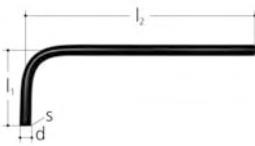


with heat insulation, multi-layer pipe, (PE-X/AL/PE-X) according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (white) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, with PE foam 9mm heat insulation and PE protection cover, heat conductivity 0,04 W/mK, fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | l<br>[m] | s<br>[mm] | s1<br>[mm] |
|-----------|------------|----------------|----------|-----------|------------|
| 16        | 12         | <b>4606016</b> | 50.000   | 2.250     | 9          |
| 20        | 15         | <b>4606020</b> | 50.000   | 2.500     | 9          |
| 26        | 20         | <b>4606026</b> | 50.000   | 3.000     | 9          |

4607

## Bend 90° made of JRG Sanipex MT pipe

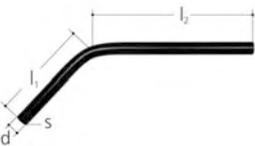


multi-layer pipe (PE-X/AL/PEX), according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, Fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | s<br>[mm] |
|-----------|------------|----------------|------------|------------|-----------|
| 50        | 40         | <b>4607050</b> | 315        | 736        | 4.5       |
| 63        | 50         | <b>4607063</b> | 353        | 713        | 4.5       |

4608

## Bend 45° made of JRG Sanipex MT pipe

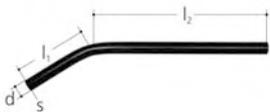


multi-layer pipe (PE-X/AL/PEX), according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, Fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

| d<br>[mm] | DN<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | s<br>[mm] |
|-----------|------------|----------------|------------|------------|-----------|
| 50        | 40         | <b>4608050</b> | 379        | 624        | 4.0       |
| 63        | 50         | <b>4608063</b> | 443        | 562        | 4.5       |

4609

## Bend 30° made of JRG Sanipex MT pipe



multi-layer pipe (PE-X/AL/PEX), according DVGW W542, to drinking water system JRG Sanipex MT DVGW DW-8501 BM0013 - W534, SVGW 0001 - 4194 - W/TPW 142, ÖVGW W 1.390 - PW 301 ÖNORM B 5157, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, Fire code CH: IV.2/D: B2 (normal flammable), hygienic harmless according DVGW W270, chemical resistance according EG Drinking water bylaw 2001, UV stabilised, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

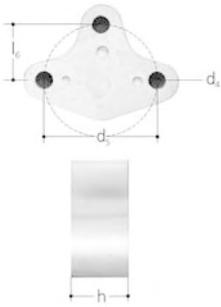
| d<br>[mm] | DN<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | s<br>[mm] |
|-----------|------------|----------------|------------|------------|-----------|
| 50        | 40         | <b>4609050</b> | 291        | 708        | 4.0       |
| 63        | 50         | <b>4609063</b> | 321        | 679        | 4.5       |

# Fittings, Boxes and Distributors

4610

## Distance piece

made of plastic, distance piece for fitting connector single, 4610, 4613, 5533, 5534 axis distance  $d_{16}/d_{20} = 32$  mm,  $d_{26} = 37$  mm

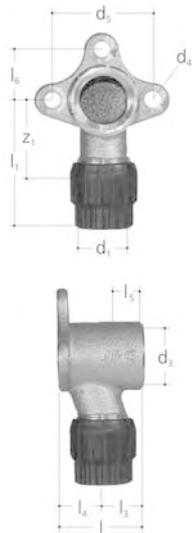


| Code    | d4<br>[mm] | d5<br>[mm] | h<br>[mm] | l6<br>[mm] |
|---------|------------|------------|-----------|------------|
| 4610090 | 6.4        | 40         | 20        | 20         |

4610

## Fitting connector, single

made of gunmetal, with female thread and plastic cone grip union MT, for surface mounting as for installation pre-installed systems and element use, 4610.135/.150/.180/.195/.235/.350 for JRG Sanipex and JRG Sanipex MT pipes, 4610.450 for JRG Sanipex MT pipes, Sound insulation to 4610 see 5409.010, Sealing gasket to 4610 see 5409.012, Distance piece to 4610 see 4610.090

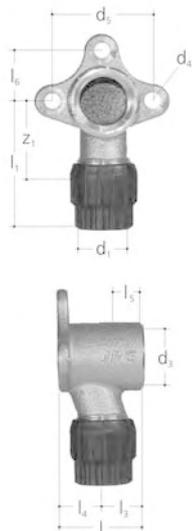


| GN<br>[inch] | d<br>[mm] | l<br>[mm] | Code    | d1<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | l<br>[mm] | l1<br>[mm] | l3<br>[mm] | l4<br>[mm] | l5<br>[mm] | l6<br>[mm] | z1<br>[mm] |
|--------------|-----------|-----------|---------|------------|-----------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16        | 35        | 4610135 | 16         | 1/2             | 6.5        | 40         | 35        | 49         | 18         | 17         | 15         | 20         | 31         |
| 1/2          | 16        | 50        | 4610150 | 16         | 1/2             | 6.5        | 40         | 50        | 52         | 33         | 17         | 25         | 20         | 34         |
| 1/2          | 16        | 80        | 4610180 | 16         | 1/2             | 6.5        | 40         | 80        | 52         | 63         | 17         | 43         | 20         | 34         |
| 1/2          | 16        | 95        | 4610195 | 16         | 1/2             | 6.5        | 40         | 95        | 52         | 78         | 17         | 58         | 20         | 34         |
| 1/2          | 20        | 35        | 4610235 | 20         | 1/2             | 6.5        | 40         | 35        | 52         | 18         | 17         | 15         | 20         | 30         |
| 3/4          | 20        | 50        | 4610350 | 20         | 3/4             | 6.5        | 40         | 50        | 51         | 33         | 17         | 17         | 20         | 29         |
| 3/4          | 26        | 50        | 4610450 | 26         | 3/4             | 6.5        | 40         | 50        | 60         | 28         | 22         | 17         | 20         | 31         |

4610

## Fitting connector, single, internally coated

made of gunmetal, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, with female thread and plastic cone grip union MT, for surface mounting as for installation pre-installed systems and element use, for JRG Sanipex and JRG Sanipex MT Sound insulation to 4610 see 5409.010, Sealing gasket to 4610 see 5409.012, Distance piece to 4610 see 4610.090

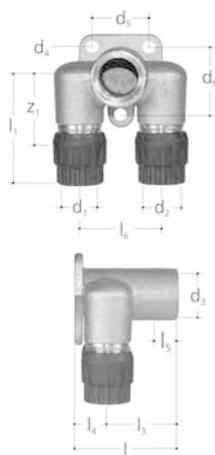


| GN<br>[inch] | d<br>[mm] | l<br>[mm] | Code    | d1<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | l1<br>[mm] | l3<br>[mm] | l4<br>[mm] | l5<br>[mm] | l6<br>[mm] | z1<br>[mm] |
|--------------|-----------|-----------|---------|------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16        | 35        | 4610137 | 16         | 1/2             | 6.5        | 49         | 49         | 35         | 17         | 15         | 20         | 31         |
| 1/2          | 20        | 35        | 4610237 | 20         | 1/2             | 6.5        | 52         | 52         | 35         | 17         | 15         | 20         | 30         |
| 3/4          | 20        | 50        | 4610357 | 20         | 3/4             | 6.5        | 40         | 51         | 33         | 17         | 17         | 20         | 29         |

4611

### Fitting connector, double

made of gunmetal, with female thread and plastic cone grip unions MT for installation in pre-installed systems and element use, for JRG Sanipex and JRG Sanipex MT pipes, sound insulation to 4611 see 5409.011 sealing gasket to 4611 see 5409.012



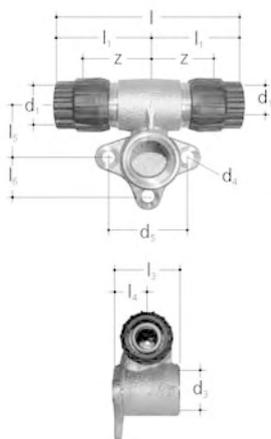
| GN<br>[inch] | d-d<br>[mm] | l<br>[mm] | Code           |
|--------------|-------------|-----------|----------------|
| 1/2          | 16 - 16     | 50        | <b>4611150</b> |
| 1/2          | 20 - 20     | 50        | <b>4611170</b> |
| 1/2          | 16 - 16     | 80        | <b>4611180</b> |
| 1/2          | 16 - 16     | 95        | <b>4611195</b> |

| GN<br>[inch] | d-d<br>[mm] | l<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | d6<br>[mm] | l<br>[mm] | l1<br>[mm] | l3<br>[mm] | l4<br>[mm] | l5<br>[mm] | l6<br>[mm] | z1<br>[mm] |
|--------------|-------------|-----------|------------|------------|-----------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16 - 16     | 50        | 16         | 16         | 1/2             | 6.4        | 28         | 40         | 50        | 52         | 33         | 17         | 25         | 40         | 34         |
| 1/2          | 20 - 20     | 50        | 20         | 20         | 1/2             | 6.4        | 28         | 40         | 50        | 62         | 33         | 17         | 25         | 50         | 48         |
| 1/2          | 16 - 16     | 80        | 16         | 16         | 1/2             | 6.4        | 28         | 40         | 80        | 52         | 63         | 17         | 43         | 40         | 34         |
| 1/2          | 16 - 16     | 95        | 16         | 16         | 1/2             | 6.4        | 28         | 40         | 95        | 52         | 78         | 17         | 58         | 40         | 34         |

4613

### Fitting connector, double

made of gunmetal, with female thread and plastic cone grip unions MT, for JRG Sanipex and JRG Sanipex MT pipes, Sound insulation to 4613 see 5409.010 Distance piece for 4613 look 4610.090



| GN<br>[inch] | d-d<br>[mm] | Code           | d1<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | l<br>[mm] | l1<br>[mm] | l3<br>[mm] | l4<br>[mm] | l5<br>[mm] | l6<br>[mm] | z<br>[mm] |
|--------------|-------------|----------------|------------|-----------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 1/2          | 16 - 16     | <b>4613100</b> | 16         | 1/2             | 6.5        | 40         | 88        | 44         | 34         | 17         | 26         | 20         | 25        |
| 1/2          | 20 - 20     | <b>4613200</b> | 20         | 1/2             | 6.5        | 40         | 104       | 52         | 34         | 17         | 26         | 20         | 30        |

4615

### Elbow with push fit nipple

made of gunmetal, push fit nipple with O-ring gasket\*, and plastic cone grip union MT, for pipes JRG Sanipex and JRG Sanipex MT \* For O-rings use only silicone grease Suitable to: Mepla fitting connector continuous 602.283.00.1\* Mepla fitting connector Universal 602.285.00.1\* Mepla system angle for Hansavarox 616.130.00.1\* Geberit water connection with shut off valve for conc. cistern as from 2002 240.177.00.1\* Geberit water connection nipple for Urinal set 241.061.00.1\* GROHE water connection 42234 for WC cistern 6-9l 42 235 000\* \* These items are not JRG products and therefore not distributed by Georg Fischer JRG AG.

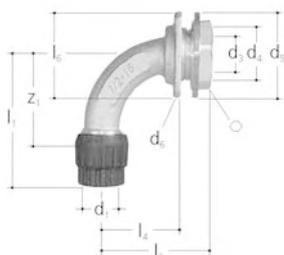


| d<br>[mm] | ST<br>[inch] | Code           | d1<br>[mm] | d2 Rp<br>[inch] | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] |
|-----------|--------------|----------------|------------|-----------------|------------|------------|------------|
| 16        | 1/2          | <b>4615116</b> | 16         | 1/2             | 46         | 37         | 27         |

4615

### Bend for concealed cistern

made of gunmetal, with fixing nut and female connection, plastic cone grip union MT, for installation on the top part outside of the cistern, for JRG Sanipex and JRG Sanipex MT pipes



| GN<br>[inch] | d<br>[mm] | Code           | d1<br>[mm] | d3 Rp<br>[inch] | d4 G<br>[inch] | d5<br>[mm] | d6<br>[mm] | l1<br>[mm] | l3<br>[mm] | l4<br>[mm] | l6<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|------------|-----------------|----------------|------------|------------|------------|------------|------------|------------|------------|----|
| 1/2          | 16        | <b>4615100</b> | 16         | 1/2             | 3/4            | 42         | 4.5        | 65         | 53         | 38         | 40         | 41         | 32 |

4616

## Tee with push fit nipple

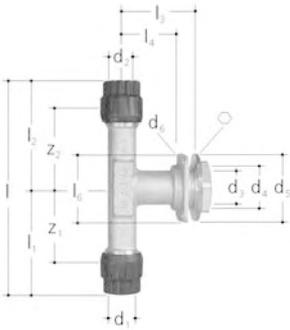


made of gunmetal, push fit nipple with O-ring gasket\*, and plastic cone grip unions MT for pipes JRG Sanipex and JRG Sanipex MT \* For O-rings use only silicone grease Suitable to: Mepla fitting connector continuous 602.283.00.1\* Mepla fitting connector Universal 602.285.00.1\* Mepla system angle for Hansavarox 616.130.00.1\* Geberit water connection with shut off valve for conc. cistern as from 2002 240.177.00.1\* Geberit water connection nipple for Urinal set 241.061.00.1\* GROHE water connection 42234 for WC cistern 6-9l 42 235 000\* \* These items are not JRG products and therefore not distributed by Georg Fischer JRG AG.

| d-d<br>[mm] | ST<br>[inch] | Code           | d1<br>[mm] | d2<br>[mm] | d3 Rp<br>[inch] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-------------|--------------|----------------|------------|------------|-----------------|-----------|------------|------------|------------|------------|------------|
| 16 - 16     | ½            | <b>4616116</b> | 16         | 16         | ½               | 92        | 46         | 46         | 37         | 27         | 27         |

4616

## Tee for concealed cistern



made of gunmetal, with fixing nut and female connection, plastic cone grip unions MT for installation on the top part outside of the cistern, for JRG Sanipex and JRG Sanipex MT pipes

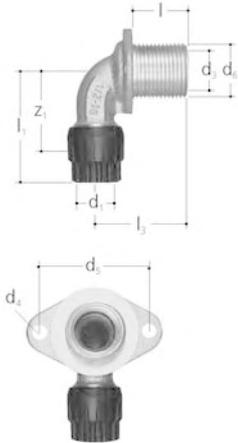
| GN<br>[inch] | d-d<br>[mm] | Code           |
|--------------|-------------|----------------|
| ½            | 16 - 16     | <b>4616100</b> |

| GN<br>[inch] | d1<br>[mm] | d2<br>[mm] | d3 Rp<br>[inch] | d4 G<br>[inch] | d5<br>[mm] | d6<br>[mm] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | l4<br>[mm] | l6<br>[mm] | z1<br>[mm] | z2<br>[mm] | M  |
|--------------|------------|------------|-----------------|----------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|----|
| ½            | 16         | 16         | ½               | ¾              | 42         | 4.5        | 130       | 65         | 65         | 53         | 38         | 40         | 46         | 46         | 32 |

4620

## Wall penetration, single



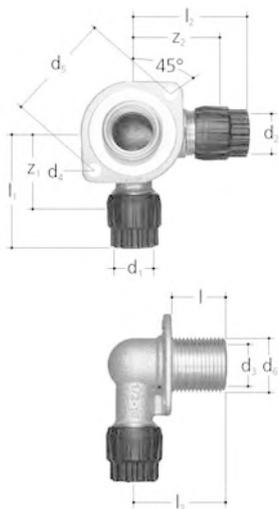
made of gunmetal, with female and male thread for fixation plastic cone grip union MT for JRG Sanipex and JRG Sanipex MT pipes, for wooden walls, gypsum boards and prefabricated elements fixing accessories to 4620 see 5539

| GN<br>[inch] | d<br>[mm] | l<br>[mm] | Code           | d1<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | d6 G<br>[inch] | l<br>[mm] | l1<br>[mm] | l3<br>[mm] | z1<br>[mm] |
|--------------|-----------|-----------|----------------|------------|-----------------|------------|------------|----------------|-----------|------------|------------|------------|
| ½            | 16        | 25        | <b>4620125</b> | 16         | ½               | 6.5        | 50         | ¾              | 25        | 51         | 42         | 32         |
| ½            | 16        | 40        | <b>4620140</b> | 16         | ½               | 6.5        | 50         | ¾              | 40        | 51         | 57         | 32         |
| ½            | 16        | 55        | <b>4620155</b> | 16         | ½               | 6.5        | 50         | ¾              | 55        | 51         | 72         | 32         |
| ½            | 16        | 65        | <b>4620165</b> | 16         | ½               | 6.5        | 50         | ¾              | 65        | 51         | 82         | 32         |

4621

## Wall penetration, double

made of gunmetal, with female and male thread for fixation plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes for wooden walls, gypsum boards and prefabricated elements fixing accessories to 4621 see 5539



| GN<br>[inch] | d-d<br>[mm] | l<br>[mm] | Code           |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-------------|-----------|----------------|--|--|--|--|--|--|--|--|--|--|--|
| 1/2          | 16 - 16     | 25        | <b>4621125</b> |  |  |  |  |  |  |  |  |  |  |  |
| 1/2          | 16 - 16     | 40        | <b>4621140</b> |  |  |  |  |  |  |  |  |  |  |  |
| 1/2          | 16 - 16     | 55        | <b>4621155</b> |  |  |  |  |  |  |  |  |  |  |  |

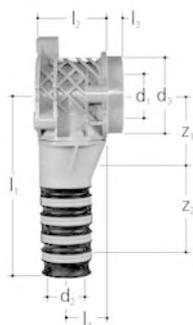
  

| GN<br>[inch] | d-d<br>[mm] | l<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3 Rp<br>[inch] | d4<br>[mm] | d5<br>[mm] | d6 G<br>[inch] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|--------------|-------------|-----------|------------|------------|-----------------|------------|------------|----------------|------------|------------|------------|------------|------------|
| 1/2          | 16 - 16     | 25        | 16         | 16         | 1/2             | 6.5        | 50         | 3/4            | 55         | 55         | 42         | 36         | 36         |
| 1/2          | 16 - 16     | 40        | 16         | 16         | 1/2             | 6.5        | 50         | 3/4            | 55         | 55         | 57         | 36         | 36         |
| 1/2          | 16 - 16     | 55        | 16         | 16         | 1/2             | 6.5        | 50         | 3/4            | 55         | 55         | 72         | 36         | 36         |

4630

## JRG Sanipex MT Box 90°

box body in two parts made of plastic, gunmetal bend with female thread and plastic cone grip union MT with flexible box foot, for JRG Sanipex and JRG Sanipex MT pipes, Box d16 with grey thread ring, d20 with blue thread ring, Box extension for tight application to 4630 see 5409.060 sealing gasket for tight application to 4630 see 5409.020 Box bracket and bar gauge to 4630, 4634, 4635, see 5741, 5741-01, 5741-020, 5471-30, 5741-32, 5741-50, 5741-90/91, 5755-05 Protection and pressure plug to 4630 see 5409, 5741-92/93 Fixing accessories to 4630, 4634, 4635, see 5409-01, 5409-02, 5409-04, 5409-05/06, 5755-01

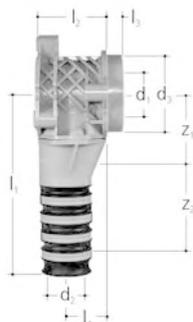


| GN<br>[inch] | d<br>[mm] | Code           | d1 Rp<br>[inch] | d2<br>[mm] | d3<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | l4<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|--------------|-----------|----------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16        | <b>4630100</b> | 1/2             | 25         | 47         | 108        | 42         | 9          | 24         | 36         | 60         |
| 1/2          | 20        | <b>4630200</b> | 1/2             | 29         | 47         | 108        | 42         | 9          | 21         | 36         | 70         |
| 3/4          | 20        | <b>4630300</b> | 3/4             | 29         | 47         | 108        | 42         | 9          | 21         | 36         | 70         |

4630

## JRG Sanipex MT Box 90°, internally coated

JRG Sanipex MT Box 90°, internally coated



| GN<br>[inch] | d<br>[mm] | Code           | d1 Rp<br>[inch] | d2<br>[mm] | d3<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | l4<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|--------------|-----------|----------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16        | <b>4630107</b> | 1/2             | 25         | 47         | 108        | 42         | 9          | 24         | 36         | 60         |
| 1/2          | 20        | <b>4630207</b> | 1/2             | 29         | 47         | 116        | 42         | 9          | 21         | 36         | 70         |
| 1/2          | 20        | <b>4630307</b> | 3/4             | 29         | 47         | 108        | 42         | 9          | 21         | 36         | 70         |

4632

## JRG Sanipex MT Box for concealed cistern

box body with flange made of plastic, bend made of gunmetal, with female thread and plastic cone grip union MT only for JRG Sanipex pipes d16

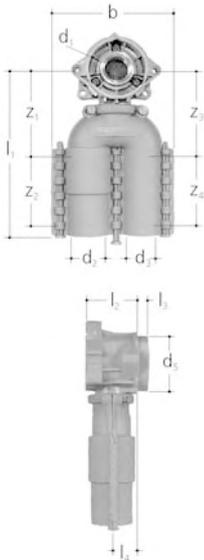


| GN<br>[inch] | d<br>[mm] | Code           | b<br>[mm] | d1 Rp<br>[inch] | d2<br>[mm] | l1<br>[mm] | l2<br>[mm] | l4<br>[mm] | z1<br>[mm] |
|--------------|-----------|----------------|-----------|-----------------|------------|------------|------------|------------|------------|
| ½            | 16        | <b>4632100</b> | 50        | ½               | 25         | 80         | 43         | 25         | 29         |

4634

## JRG Sanipex MT Box 2-way 90°

box body made of plastic, distributor made of gunmetal, with female thread and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes, box bracket and bar gauge to 4630, 4634, 4635, see 5741, 5741-01, 5741-020, 5471-30, 5741-32, 5741-50, 5741-90/91, 5755-05 protection and pressure plug to 4630, 4634, 4635, see 5409, 5741-92/93 fixing accessories to 4634 see 5409-01, 5409-02, 5409-04, 5409-05/06, 5755-01



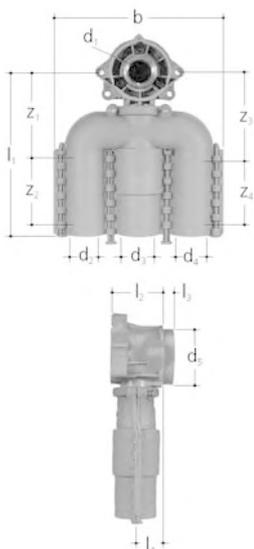
| GN<br>[inch] | d-d<br>[mm] | Code           |
|--------------|-------------|----------------|
| ½            | 16 - 16     | <b>4634100</b> |
| ½            | 20 - 16     | <b>4634200</b> |

| GN<br>[inch] | d-d<br>[mm] | b<br>[mm] | d1 Rp<br>[inch] | d2<br>[mm] | d3<br>[mm] | d5<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | l4<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] | z4<br>[mm] |
|--------------|-------------|-----------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ½            | 16 - 16     | 100       | ½               | 25         | 25         | 47         | 134        | 42         | 9          | 21         | 68         | 60         | 68         | 60         |
| ½            | 20 - 16     | 100       | ½               | 29         | 25         | 47         | 154        | 42         | 9          | 21         | 73         | 70         | 68         | 60         |

4635

## JRG Sanipex MT Box 3-way 90°

box body made of plastic, distributor made of gunmetal, with female thread and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes, box bracket and bar gauge to 4630, 4634, 4635, see 5741, 5741-01, 5741-020, 5471-30, 5741-32, 5741-50, 5741-90/91, 5755-05 protection and pressure plug to 4635 see 5409, 5741-92/93 fixing accessories to 4630, 4634, 4635, see 5409-01, 5409-02, 5409-04, 5409-05/06, 5755-01

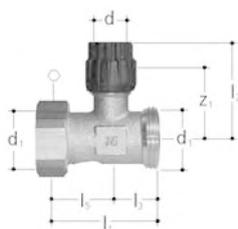


| GN<br>[inch] | d-d-d<br>[mm] | Code           |
|--------------|---------------|----------------|
| ½            | 16 - 16 - 16  | <b>4635100</b> |
| ½            | 16 - 20 - 16  | <b>4635200</b> |

| GN<br>[inch] | b<br>[mm] | d1 Rp<br>[inch] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | d5<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | l4<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] | z4<br>[mm] |
|--------------|-----------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ½            | 140       | ½               | 25         | 25         | 25         | 47         | 134        | 42         | 9          | 21         | 68         | 60         | 68         | 60         |
| ½            | 140       | ½               | 25         | 29         | 25         | 47         | 154        | 42         | 9          | 21         | 68         | 60         | 73         | 70         |

4640

## Distributor 1-way

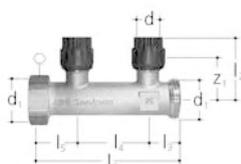


made of gunmetal, with loose nut, \*flat gasket, male thread and plastic cone grip union MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation. Change over, cap and plug to distributor 4640 see 4705, 5430, 5433 Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758 Accessories to protection cover to 4640 see 5758, 5758-09 Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754 Access panel with door and built in box to 4640 see 5760, 5762, 5765 \* AFM 34 flat gaskets must not be oiled and greased

| d<br>[mm] | Code           | d1 G<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I5<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|----------------|------------|------------|------------|------------|------------|----|
| 16        | <b>4640116</b> | 1              | 55         | 50         | 24         | 31         | 31         | 37 |
| 20        | <b>4640120</b> | 1              | 55         | 60         | 24         | 31         | 38         | 37 |

4640

## Distributor 2-way

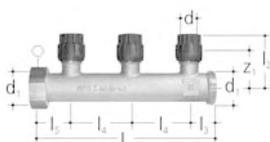


made of gunmetal, with loose nut, \*flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation. Change over, cap and plug to distributor 4640 see 4705, 5430, 5433 Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758 Accessories to protection cover to 4640 see 5758, 5758-09 Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754 Access panel with door and built in box to 4640 see 5760, 5762, 5765 \* AFM 34 flat gaskets must not be oiled and greased

| d<br>[mm] | Code           | d1 G<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|----------------|------------|------------|------------|------------|------------|------------|----|
| 16        | <b>4640216</b> | 1              | 110        | 50         | 24         | 55         | 31         | 31         | 37 |
| 20        | <b>4640220</b> | 1              | 110        | 60         | 24         | 55         | 31         | 38         | 37 |

4640

## Distributor 3-way

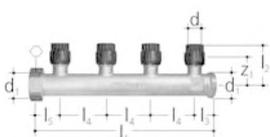


made of gunmetal, with loose nut, \*flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation. Change over, cap and plug to distributor 4640 see 4705, 5430, 5433 Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758 Accessories to protection cover to 4640 see 5758, 5758-09 Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754 Access panel with door and built in box to 4640 see 5760, 5762, 5765 \* AFM 34 flat gaskets must not be oiled and greased

| d<br>[mm] | Code           | d1 G<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|----------------|------------|------------|------------|------------|------------|------------|----|
| 16        | <b>4640316</b> | 1              | 165        | 50         | 24         | 55         | 31         | 31         | 37 |
| 20        | <b>4640320</b> | 1              | 165        | 60         | 24         | 55         | 31         | 38         | 37 |

4640

## Distributor 4-way

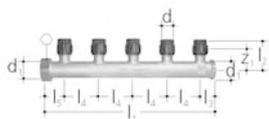


made of gunmetal, with loose nut, \*flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation. Change over, cap and plug to distributor 4640 see 4705, 5430, 5433 Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758 Accessories to protection cover to 4640 see 5758, 5758-09 Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754 Access panel with door and built in box to 4640 see 5760, 5762, 5765 \* AFM 34 flat gaskets must not be oiled and greased

| d<br>[mm] | Code           | d1 G<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|----------------|------------|------------|------------|------------|------------|------------|----|
| 16        | <b>4640416</b> | 1              | 220        | 50         | 24         | 55         | 31.0       | 31         | 37 |

## 4640

### Distributor 5-way

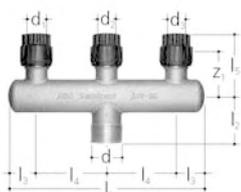


made of gunmetal, with loose nut, \*flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation. Change over, cap and plug to distributor 4640 see 4705, 5430, 5433 Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758 Accessories to protection cover to 4640 see 5758, 5758-09 Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754 Access panel with door and built in box to 4640 see 5760, 5762, 5765 \* AFM 34 flat gaskets must not be oiled and greased

| d<br>[mm] | Code           | d1 G<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|----------------|------------|------------|------------|------------|------------|------------|----|
| 16        | <b>4640516</b> | 1              | 275        | 50         | 24         | 55         | 31         | 31         | 37 |

## 4645

### Concealed distributor 3-way

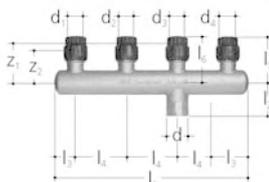


made of gunmetal, with male thread, plastic cone grip unions MT (for CH max. 16 LU), for JRG Sanipex and JRG Sanipex MT pipes, for surface and concealed installation. According to W/TPW 125, sector 5.4 the cone grip union for concealed installation must be wrapped, to avoid intrusion of plaster into the cone grip union and the conduit, marking sleeve to distributor 4645 see 5734 Heat insulation to 4645 see 5758. Accessories to protection cover to 4645 see 5758-01 - 04, 5758-09 Fixing accessories to 4645 see 5738, 5738-01, 5739, 5740, 5740-10, 5754

| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code           | d R<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | z1<br>[mm] |
|------------|------------|------------|----------------|---------------|------------|------------|------------|------------|------------|------------|
| 16         | 16         | 16         | <b>4645050</b> | 3/4           | 155        | 37         | 22.5       | 55         | 50         | 31         |

## 4645

### Concealed distributor 4-way



made of gunmetal, with male thread, plastic cone grip unions MT (for CH max. 16 LU), for JRG Sanipex and JRG Sanipex MT pipes, for surface and concealed installation. According to W/TPW 125, sector 5.4 the cone grip union for concealed installation, must be wrapped, to avoid intrusion of plaster into the cone grip union and the conduit. Marking sleeve to distributor 4645 see 5734 Heat insulation to 4645 see 5758 Accessories to protection cover to 4645 see 5758-01 - 04, 5758-09 Fixing accessories to 4645 see 5738, 5738-01, 5739, 5740, 5740-10, 5754

| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | Code           | d R<br>[inch] | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | I4<br>[mm] | I5<br>[mm] | I6<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|------------|------------|------------|------------|----------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 16         | 16         | 16         | 16         | <b>4645100</b> | 3/4           | 210        | 37         | 22.5       | 55         | 50         |            |            | 31         |
| 16         | 20         | 16         | 16         | <b>4645200</b> | 3/4           | 210        | 37         | 22.5       | 55         | 50         | 60         | 38         | 31         |

## 4650

### Tee



made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code           | I1<br>[mm] | I2<br>[mm] | I3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|
| 16         | 16         | 16         | <b>4650016</b> | 46         | 46         | 46         | 27         | 27         | 27         |
| 20         | 20         | 20         | <b>4650020</b> | 55         | 55         | 55         | 31         | 31         | 31         |
| 26         | 26         | 26         | <b>4650026</b> | 68         | 68         | 68         | 39         | 39         | 39         |
| 32         | 32         | 32         | <b>4650032</b> | 82         | 82         | 82         | 45         | 45         | 45         |
| 40         | 40         | 40         | <b>4650040</b> | 99         | 99         | 99         | 55         | 55         | 55         |

4650

**Tee MT**

made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes



| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|
| 50         | 50         | 50         | <b>4650050</b> | 114        | 114        | 114        | 63         | 63         | 63         |
| 63         | 63         | 63         | <b>4650063</b> | 142        | 142        | 142        | 79         | 79         | 79         |

4652

**Tee reduced**

made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes



| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|
| 20         | 16         | 16         | <b>4652110</b> | 55         | 48         | 46         | 31         | 29         | 27         |
| 20         | 16         | 20         | <b>4652112</b> | 55         | 48         | 55         | 31         | 29         | 31         |
| 20         | 20         | 16         | <b>4652114</b> | 55         | 55         | 48         | 31         | 31         | 29         |
| 26         | 16         | 26         | <b>4652214</b> | 68         | 52         | 68         | 39         | 33         | 39         |
| 26         | 20         | 20         | <b>4652218</b> | 68         | 59         | 55         | 39         | 35         | 31         |
| 26         | 20         | 26         | <b>4652220</b> | 68         | 59         | 68         | 39         | 35         | 39         |
| 26         | 26         | 20         | <b>4652222</b> | 68         | 68         | 59         | 39         | 39         | 35         |
| 32         | 16         | 32         | <b>4652316</b> | 82         | 57         | 82         | 45         | 38         | 45         |
| 32         | 20         | 32         | <b>4652324</b> | 82         | 64         | 82         | 45         | 40         | 45         |
| 32         | 26         | 26         | <b>4652330</b> | 82         | 73         | 68         | 45         | 44         | 39         |
| 32         | 26         | 32         | <b>4652332</b> | 82         | 73         | 82         | 45         | 44         | 45         |
| 40         | 26         | 32         | <b>4652426</b> | 99         | 79         | 82         | 55         | 50         | 45         |
| 40         | 26         | 40         | <b>4652428</b> | 99         | 79         | 99         | 55         | 50         | 55         |
| 40         | 32         | 32         | <b>4652436</b> | 99         | 89         | 82         | 55         | 52         | 45         |
| 40         | 32         | 40         | <b>4652438</b> | 99         | 89         | 99         | 55         | 52         | 55         |

4652

**Tee reduced MT , d50/63**

made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes

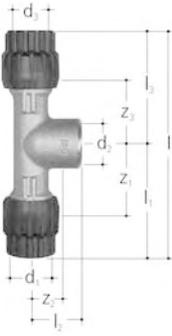


| d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|
| 50         | 26         | 50         | <b>4652530</b> | 114        | 75         | 114        | 63         | 46         | 63         |
| 50         | 32         | 50         | <b>4652534</b> | 114        | 85         | 114        | 63         | 48         | 63         |
| 50         | 40         | 40         | <b>4652544</b> | 114        | 96         | 96         | 63         | 52         | 52         |
| 50         | 40         | 50         | <b>4652546</b> | 114        | 96         | 114        | 63         | 52         | 63         |
| 63         | 26         | 63         | <b>4652634</b> | 142        | 84         | 142        | 79         | 55         | 79         |
| 63         | 32         | 63         | <b>4652638</b> | 142        | 94         | 142        | 79         | 57         | 79         |
| 63         | 40         | 63         | <b>4652642</b> | 142        | 104        | 142        | 79         | 60         | 79         |
| 63         | 50         | 63         | <b>4652656</b> | 142        | 120        | 142        | 79         | 69         | 79         |

4654

**Tee with male thread MT**

made of gunmetal, with female thread, and plastic cone grip unions MT for JRG Sanipex d20 and JRG Sanipex MT pipes

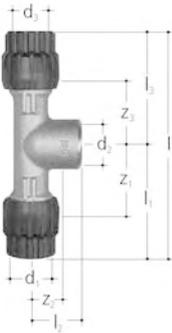


| GN<br>[inch] | d-d<br>[mm] | Code           | d1<br>[mm] | d2 Rp<br>[inch] | d3<br>[mm] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|--------------|-------------|----------------|------------|-----------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16 - 16     | <b>4654110</b> | 16         | 1/2             | 16         | 108       | 54.0       | 26.5       | 54.0       | 35         | 11.5       | 35         |
| 1/2          | 20 - 20     | <b>4654210</b> | 20         | 1/2             | 20         | 125       | 62.5       | 28.0       | 62.5       | 39         | 13.0       | 39         |
| 1/2          | 26 - 26     | <b>4654220</b> | 26         | 1/2             | 26         | 140       | 70.0       | 33.5       | 70.0       | 41         | 18.5       | 41         |
| 3/4          | 26 - 26     | <b>4654250</b> | 26         | 3/4             | 26         | 140       | 70.0       | 34.0       | 70.0       | 41         | 17.5       | 41         |
| 3/4          | 32 - 32     | <b>4654310</b> | 32         | 3/4             | 32         | 172       | 86.0       | 34.0       | 86.0       | 49         | 17.5       | 49         |

4654

**Tee with male thread, internally coated MT**

made of gunmetal, with female thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, and plastic cone grip unions MT for JRG Sanipex MT pipes



| GN<br>[inch] | d-d<br>[mm] | Code           | d1<br>[mm] | d2 Rp<br>[inch] | d3<br>[mm] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|--------------|-------------|----------------|------------|-----------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 1/2          | 16 - 16     | <b>4654117</b> | 16         | 1/2             | 16         | 108       | 54.0       | 26.5       | 54.0       | 35         | 11.5       | 35         |
| 1/2          | 20 - 20     | <b>4654217</b> | 20         | 1/2             | 20         | 125       | 62.5       | 28.0       | 62.5       | 39         | 13.0       | 39         |
| 1/2          | 26 - 26     | <b>4654227</b> | 26         | 1/2             | 26         | 140       | 70.0       | 33.5       | 70.0       | 41         | 18.5       | 41         |
| 3/4          | 26 - 26     | <b>4654257</b> | 26         | 3/4             | 26         | 140       | 70.0       | 34.0       | 70.0       | 41         | 17.5       | 41         |
| 3/4          | 32 - 32     | <b>4654317</b> | 32         | 3/4             | 32         | 172       | 86.0       | 34.0       | 86.0       | 49         | 17.5       | 49         |

4655

**Tee with male thread**

made of gunmetal, with male thread, and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes



| GN<br>[inch] | d-d<br>[mm] | Code           | d<br>[mm] | d1 Rp<br>[inch] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z2<br>[mm] | z3<br>[mm] |
|--------------|-------------|----------------|-----------|-----------------|------------|------------|------------|------------|------------|
| 1/2          | 16 - 16     | <b>4655100</b> | 16        | 1/2             | 28.5       | 44         | 44         | 26         | 26         |
| 3/4          | 16 - 16     | <b>4655200</b> | 16        | 3/4             | 35.0       | 44         | 44         | 26         | 26         |
| 3/4          | 20 - 20     | <b>4655220</b> | 20        | 3/4             | 35.0       | 52         | 52         | 30         | 30         |

4660

**Connection A11, nickel-coated**

in brass nickel-coated, compression fitting 3/4"-Eurocone, for copper (blank, nickel-coated or chrome plated), soft steel- and stainless-steel pipes, soft gasket, for the heating element connection with key SW30



| Code           | d1<br>[mm] | d2 G<br>[inch] | l<br>[mm] | M  |
|----------------|------------|----------------|-----------|----|
| <b>4660100</b> | 15         | 3/4            | 25        | 30 |

4670

**Elbow 90° MT**

made of plastic, two layer technology, inner lining made of PPSU and cover made of PA plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes



| d<br>[mm] | Code           | I1<br>[mm] | I2<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|----------------|------------|------------|------------|------------|
| 16        | <b>4670016</b> | 46         | 46         | 27         | 27         |
| 20        | <b>4670020</b> | 55         | 55         | 31         | 31         |
| 26        | <b>4670026</b> | 68         | 68         | 39         | 39         |
| 32        | <b>4670032</b> | 82         | 82         | 45         | 45         |
| 40        | <b>4670040</b> | 99         | 99         | 55         | 55         |

4670

**Elbow 90° MT, d50/63**

made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes



| d<br>[mm] | Code           | I1<br>[mm] | I2<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|----------------|------------|------------|------------|------------|
| 50        | <b>4670050</b> | 114        | 114        | 63         | 63         |
| 63        | <b>4670063</b> | 142        | 142        | 79         | 79         |

4671

**Bend with female thread**

made of gunmetal, with female thread plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

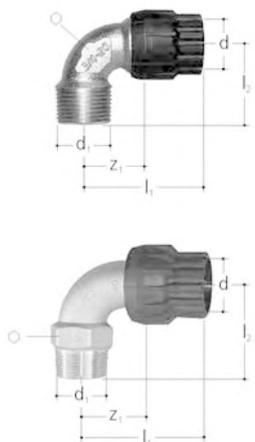


| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 Rp<br>[inch] | I1<br>[mm] | I2<br>[mm] | z1<br>[mm] | z2<br>[mm] | M  |
|--------------|-----------|----------------|-----------|-----------------|------------|------------|------------|------------|----|
| 1/2          | 16        | <b>4671110</b> | 16        | 1/2             | 43         | 33         | 25         | 17.0       | 27 |
| 3/4          | 20        | <b>4671220</b> | 20        | 3/4             | 56         | 36         | 30         | 21.5       | 32 |

4672

**Elbow with male thread**

made of gunmetal, with male thread, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes



| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 R<br>[inch] | I1<br>[mm] | I2<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|------------|------------|------------|----|
| 1/2          | 16        | <b>4672110</b> | 16        | 1/2            | 44.0       | 31         | 25         | 18 |
| 1/2          | 20        | <b>4672210</b> | 20        | 1/2            | 49.5       | 33         | 27         | 21 |
| 3/4          | 20        | <b>4672220</b> | 20        | 3/4            | 52.0       | 35         | 30         | 21 |
| 3/4          | 26        | <b>4672250</b> | 26        | 3/4            | 68.5       | 54         | 39         | 27 |
| 1            | 32        | <b>4672310</b> | 32        | 1              | 82.5       | 60         | 45         | 32 |
| 1 1/4        | 40        | <b>4672410</b> | 40        | 1 1/4          | 105.5      | 74         | 55         | 46 |
| 1 1/2        | 50        | <b>4672510</b> | 50        | 1 1/2          | 111.0      | 62         | 60         | 50 |

4674

**Elbow adapter with loose nut**

made of gunmetal, with female thread and gasket\* with loose nut made of brass and cone grip union MT made of plastic, for JRG Sanipex pipes and JRG Sanipex MT pipes. \* AFM 34 gaskets must not be oiled nor greased



| d<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|----------------|------------|----------------|------------|------------|------------|------------|
| 16        | <b>4674016</b> | 16         | ½              | 46         | 32         | 27         | 22         |

4676

**Elbow 45° MT**

made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d20 and JRG Sanipex MT pipes



| d<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|----------------|------------|------------|------------|------------|
| 20        | <b>4676020</b> | 45         | 45         | 21         | 21         |
| 26        | <b>4676026</b> | 56         | 56         | 27         | 27         |
| 32        | <b>4676032</b> | 69         | 69         | 32         | 32         |
| 40        | <b>4676040</b> | 81         | 81         | 37         | 37         |

4676

**Elbow 45° MT, d50/63**

made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes



| d<br>[mm] | Code           | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|----------------|------------|------------|------------|------------|
| 50        | <b>4676050</b> | 98         | 98         | 47         | 47         |
| 63        | <b>4676063</b> | 119        | 119        | 56         | 56         |

4690

**Coupling MT**

made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

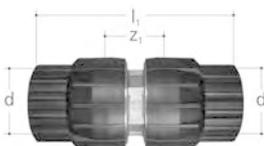


| d<br>[mm] | Code           | l1<br>[mm] | z1<br>[mm] |
|-----------|----------------|------------|------------|
| 16        | <b>4690016</b> | 76         | 37         |
| 20        | <b>4690020</b> | 90         | 42         |
| 26        | <b>4690026</b> | 108        | 50         |
| 32        | <b>4690032</b> | 127        | 53         |
| 40        | <b>4690040</b> | 150        | 62         |

4690

**Coupling MT, d50/63**

made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes



| d<br>[mm] | Code           | l1<br>[mm] | z1<br>[mm] |
|-----------|----------------|------------|------------|
| 50        | <b>4690050</b> | 166        | 64         |
| 63        | <b>4690063</b> | 205        | 79         |

4692

**Double union**

from JRG Sanipex MT pipe, prefabricated with two plastic cone grip unions MT, for JRG Sanipex MT pipes

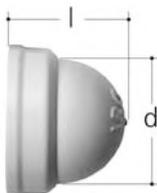


| d<br>[mm] | Code           | l<br>[mm] |
|-----------|----------------|-----------|
| 16        | <b>4692016</b> | 40        |
| 20        | <b>4692020</b> | 51        |
| 26        | <b>4692026</b> | 60        |
| 32        | <b>4692032</b> | 78        |
| 40        | <b>4692040</b> | 88        |
| 50        | <b>4692050</b> | 106       |
| 63        | <b>4692063</b> | 129       |

4695

**Cap**

made of PPSU plastic, as lasting plug for plastic cone grip union MT for JRG Sanipex MT components

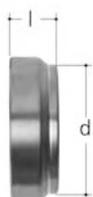


| d<br>[mm] | Code           | l<br>[mm] |
|-----------|----------------|-----------|
| 16        | <b>4695016</b> | 16.0      |
| 20        | <b>4695020</b> | 19.0      |
| 26        | <b>4695026</b> | 23.5      |
| 32        | <b>4695032</b> | 28.0      |
| 40        | <b>4695040</b> | 34.0      |

4695

**Cap**

made of gunmetal, as durable connection for cone grip union MT made of plastic for JRG Sanipex MT components

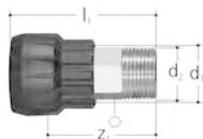


| d<br>[mm] | Code            | l<br>[mm] |
|-----------|-----------------|-----------|
| 50        | <b>4695.050</b> | 18        |
| 63        | <b>4695.063</b> | 22        |

4696

**Adapter with male thread and MT connecting nut**

made of gunmetal, with male thread, suitable to plastic cone grip union MT with pre-installed MT connecting nut, for JRG Sanipex MT components



| GN<br>[inch] | d<br>[mm] | Code           | d1<br>[mm] | d2 R<br>[inch] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|------------|----------------|------------|------------|----|
| 1/2          | 20        | <b>4696210</b> | 20         | 1/2            | 59         | 34.0       | 18 |
| 3/4          | 26        | <b>4696220</b> | 26         | 3/4            | 70         | 40.5       | 23 |

4696

**Adapter with male thread**

made of gunmetal, with male thread suitable to plastic cone grip union MT for JRG Sanipex MT components



| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 R<br>[inch] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|------------|------------|------------|----|
| 1/2          | 26        | <b>4696215</b> | 26        | 1/2            | 31.9       | 55         | 42         | 21 |
| 1/2          | 32        | <b>4696315</b> | 32        | 1/2            | 39.3       | 62         | 49         | 21 |
| 3/4          | 32        | <b>4696320</b> | 32        | 3/4            | 39.3       | 65         | 50         | 27 |
| 1/2          | 40        | <b>4696415</b> | 40        | 1/2            | 48.5       | 69         | 56         | 21 |
| 3/4          | 40        | <b>4696420</b> | 40        | 3/4            | 48.5       | 72         | 57         | 27 |
| 1            | 40        | <b>4696425</b> | 40        | 1              | 48.5       | 78         | 59         | 32 |

4696

**Adapter with male thread, internally coated**

made of gunmetal, with male thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, suitable to plastic cone grip union MT for JRG Sanipex MT components

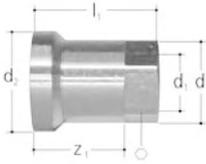


| GN<br>[inch] | d<br>[mm] | Code           | d1 R<br>[inch] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|----------------|------------|------------|------------|----|
| ½            | 26        | <b>4696217</b> | ½              | 31.9       | 55         | 42         | 21 |

4697

**Adapter with female thread**

made of gunmetal, with female thread, suitable to plastic cone grip union MT for JRG Sanipex MT components



| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 Rp<br>[inch] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|-----------------|------------|------------|------------|----|
| ⅜            | 26        | <b>4697210</b> | 26        | ⅜               | 31.9       | 39         | 27         | 24 |
| ½            | 32        | <b>4697315</b> | 32        | ½               | 39.3       | 47         | 34         | 27 |
| ½            | 40        | <b>4697415</b> | 40        | ½               | 48.5       | 54         | 40         | 27 |
| ¾            | 40        | <b>4697420</b> | 40        | ¾               | 48.5       | 55         | 40         | 32 |

4697

**Adapter with female thread, internally coated**

made of gunmetal, with female thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, suitable to plastic cone grip union MT for JRG Sanipex MT components



| GN<br>[inch] | d<br>[mm] | Code           | d1 Rp<br>[inch] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------------|------------|------------|------------|----|
| ½            | 40        | <b>4697417</b> | ½               | 48.5       | 54         | 40         | 27 |

4700

**Adapter to fittings**

made of gunmetal, with female thread and gasket\*, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes \* AFM 34 gaskets must not be oiled nor greased



| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 G<br>[inch] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|-----------|------------|------------|------------|------------|----|
| ¾            | 16        | <b>4700102</b> | 16        | ¾              |           | 41.5       | 8.0        | 33.5       | 15.0       | 32 |
| ¾            | 20        | <b>4700104</b> | 20        | ¾              |           | 46.5       | 8.0        | 38.5       | 16.0       | 32 |
| 1            | 16        | <b>4700108</b> | 16        | 1              |           | 44.5       | 8.5        | 36.0       | 23.0       | 37 |
| 1            | 20        | <b>4700110</b> | 20        | 1              |           | 51.0       | 8.5        | 42.5       | 21.0       | 37 |
| 1            | 26        | <b>4700112</b> | 26        | 1              |           | 56.5       | 8.5        | 48.0       | 19.0       | 37 |
| 1 ½          | 16        | <b>4700116</b> | 16        | 1 ½            |           | 43.5       | 10.0       | 33.5       | 15.0       | 43 |
| 1 ½          | 20        | <b>4700118</b> | 20        | 1 ½            |           | 48.5       | 10.0       | 38.5       | 16.0       | 43 |
| 1 ¼          | 16        | <b>4700120</b> | 16        | 1 ¼            |           | 44.5       | 11.0       | 33.5       | 15.0       | 46 |
| 1 ¼          | 20        | <b>4700122</b> | 20        | 1 ¼            |           | 49.5       | 11.0       | 38.5       | 16.0       | 46 |
| 1 ¼          | 26        | <b>4700124</b> | 26        | 1 ¼            |           | 59.0       | 11.0       | 48.0       | 19.0       | 46 |
| 1 ¼          | 32        | <b>4700126</b> | 32        | 1 ¼            |           | 69.0       | 11.0       | 58.0       | 20.0       | 46 |
| 1 ½          | 26        | <b>4700128</b> | 26        | 1 ½            |           | 59.0       | 11.0       | 48.0       | 19.0       | 54 |
| 1 ½          | 32        | <b>4700130</b> | 32        | 1 ½            |           | 69.0       | 11.0       | 58.0       | 20.0       | 54 |
| 1 ¼          | 40        | <b>4700132</b> | 40        | 1 ½            |           | 80.0       | 11.0       | 69.0       | 24.0       | 55 |
| 2            | 40        | <b>4700136</b> | 40        | 2              |           | 82.5       | 13.0       | 69.5       | 25.0       | 67 |
| 1 ¾          | 50        | <b>4700134</b> | 50        | 1 ¾            | 93        | 81.5       | 11.5       | 70.0       | 30.5       | 60 |
| 2 ¼          | 50        | <b>4700138</b> | 50        | 2 ¼            | 95        | 82.5       | 12.5       | 70.0       | 31.5       | 72 |
| 2 ¾          | 63        | <b>4700140</b> | 63        | 2 ¾            | 112       | 99.5       | 12.5       | 87.0       | 36.5       | 78 |
| 2 ¾          | 63        | <b>4700142</b> | 63        | 2 ¾            | 115       | 100.0      | 15.0       | 85.0       | 37.0       | 89 |

4700

**Adapter to fittings, internally coated**

made of gunmetal, with female thread and gasket\*, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes \* AFM 34 gaskets must not be oiled nor greased

| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 G<br>[inch] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|------------|------------|------------|------------|----|
| 1 ½          | 16        | <b>4700728</b> | 16        | 1 ½            | 59         | 11         | 48         | 19         | 54 |

4705

**Adapter to distributor**

made of gunmetal, with male thread, plastic cone grip union MT for JRG Sanipex MT pipes

| GN<br>[mm] | d-d<br>[mm] | Code           | d<br>[mm] | d1 G<br>[inch] | l2<br>[mm] | z1<br>[mm] | M  |
|------------|-------------|----------------|-----------|----------------|------------|------------|----|
| 20         | 1 - 20      | <b>4705020</b> | 20        | 1              | 57.5       | 36         | 30 |
| 26         | 1 - 26      | <b>4705026</b> | 26        | 1              | 68.0       | 38         | 30 |
| 32         | 1 - 32      | <b>4705032</b> | 32        | 1              | 78.0       | 38         | 30 |

4710

**Adapter with male thread**

made of gunmetal, with male thread, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

| GN<br>[inch] | d<br>[mm] | Code           | d1<br>[mm] | d1 R<br>[inch] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|------------|----------------|------------|------------|----|
| ½            | 16        | <b>4710110</b> | 16         | ½              | 49.5       | 31.0       | 21 |
| ½            | 20        | <b>4710210</b> | 20         | ½              | 58.5       | 36.0       | 21 |
| ¾            | 20        | <b>4710220</b> | 20         | ¾              | 59.5       | 37.0       | 21 |
| ¾            | 26        | <b>4710250</b> | 26         | ¾              | 73.5       | 44.0       | 27 |
| 1            | 26        | <b>4710260</b> | 26         | 1              | 77.0       | 47.0       | 30 |
| 1            | 32        | <b>4710310</b> | 32         | 1              | 88.0       | 50.0       | 32 |
| 1 ¼          | 40        | <b>4710410</b> | 40         | 1 ¼            | 103.0      | 58.0       | 46 |
| 1 ½          | 50        | <b>4710510</b> | 50         | 1 ½            | 118.0      | 67.0       | 50 |
| 2            | 63        | <b>4710610</b> | 63         | 2              | 143.0      | 80.0       | 65 |

4710

**Adapter with male thread, internally coated**

made of gunmetal, with male thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 R<br>[inch] | l2<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|------------|------------|----|
| ½            | 16        | <b>4710117</b> | 16        | ½              | 49.5       | 31         | 21 |
| ½            | 20        | <b>4710217</b> | 20        | ½              | 58.5       | 36         | 21 |
| ¾            | 20        | <b>4710227</b> | 20        | ¾              | 59.5       | 37         | 21 |
| ¾            | 26        | <b>4710257</b> | 26        | ¾              | 73.5       | 44         | 27 |
| 1            | 26        | <b>4710267</b> | 26        | 1              | 77.0       | 47         | 30 |
| 1            | 32        | <b>4710317</b> | 32        | 1              | 88.0       | 50         | 32 |
| 1 ¼          | 40        | <b>4710417</b> | 40        | 1 ¼            | 103.0      | 58         | 46 |

4712

**Adapter with female thread**

made of gunmetal, with female thread, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes



| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 R<br>[inch] | l1<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|------------|------------|----|
| 1/2          | 16        | <b>4712110</b> | 16        | 1/2            | 46.5       | 15         | 27 |
| 1/2          | 20        | <b>4712210</b> | 20        | 1/2            | 50.5       | 15         | 27 |
| 3/4          | 20        | <b>4712220</b> | 20        | 3/4            | 54.0       | 17         | 32 |
| 3/4          | 26        | <b>4712250</b> | 26        | 3/4            | 61.0       | 17         | 32 |
| 1            | 26        | <b>4712260</b> | 26        | 1              | 67.0       | 20         | 41 |
| 1            | 32        | <b>4712310</b> | 32        | 1              | 74.0       | 19         | 41 |
| 1 1/4        | 40        | <b>4712410</b> | 40        | 1 1/4          | 85.5       | 22         | 50 |
| 1 1/2        | 50        | <b>4712510</b> | 50        | 1 1/2          | 95.0       | 44         | 55 |
| 2            | 63        | <b>4712610</b> | 63        | 2              | 115.0      | 52         | 70 |

4712

**Adapter with female thread, internally coated**

made of gunmetal, with female thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 µm, for fully desalinated water up to 30°C, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

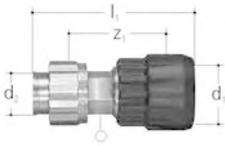


| GN<br>[inch] | d<br>[mm] | Code           | d<br>[mm] | d1 R<br>[inch] | l<br>[mm] | z1<br>[mm] | M  |
|--------------|-----------|----------------|-----------|----------------|-----------|------------|----|
| 1/2          | 20        | <b>4712217</b> | 20        | 1/2            | 50.5      | 15         | 27 |
| 3/4          | 26        | <b>4712257</b> | 26        | 3/4            | 61.0      | 17         | 32 |
| 1            | 32        | <b>4712317</b> | 32        | 1              | 74.0      | 19         | 41 |
| 1 1/4        | 40        | <b>4712417</b> | 40        | 1 1/4          | 85.5      | 22         | 50 |

4713

**Adapter JRG Sanipex MT - JRG Sanipex classic**

made of gunmetal, with plastic one grip union MT made of plastic and cone grip union made of brass

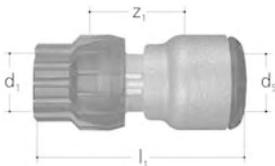


| d<br>[mm] | Code           | d1<br>[mm] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|-----------|----------------|------------|------------|------------|------------|----|
| 16 - 12   | <b>4713012</b> | 16         | 12         | 54         | 34         | 13 |

4714

**Adapter JRG Sanipex MT for push-in connection**

Adapter from JRG Sanipex MT to push-in connection for stainless steel pipes (DVGW W541) and copper pipes (DIN EN 1057), PN 10 made of bronze with plastic union nut and push-in connection for stainless steel pipes and copper pipes, for water up to 90°C



| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2<br>[mm] | l1<br>[mm] | z1<br>[mm] |
|-----------|------------|----------------|------------|------------|------------|------------|
| 16 - 15   | 12         | <b>4714100</b> | 16         | 15         | 62         | 21         |
| 20 - 18   | 15         | <b>4714104</b> | 20         | 18         | 76         | 24         |
| 20 - 22   | 15         | <b>4714105</b> | 20         | 22         | 82         | 25         |
| 26 - 22   | 20         | <b>4714106</b> | 26         | 22         | 75         | 15         |
| 32 - 28   | 25         | <b>4714108</b> | 32         | 28         | 93         | 14         |
| 40 - 35   | 32         | <b>4714110</b> | 40         | 35         | 107        | 16         |

4715

**Adapter**

made of gunmetal, with hex nut union for copper pipe and plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT -pipes



| d-d<br>[mm] | Code           | d1<br>[mm] | d<br>[mm] | l1<br>[mm] | z1<br>[mm] | M  |
|-------------|----------------|------------|-----------|------------|------------|----|
| 16 - 10     | <b>4715016</b> | 16         | 10        | 56         | 11         | 19 |

4717

## Adapter with push fit nipple

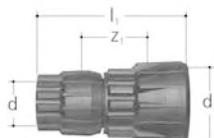


made of gunmetal, with loose nut, push fit nipple with O-Ring\* made of brass and plastic cone grip union MT for JRG Sanipex and JRG Sanipex MT pipes \* For O-rings use only silicon grease Suitable to: Mepla fitting connector continuous 602.283.00.1\* Mepla fitting connector Universal 602.285.00.1\* Mepla system angle for Hansavarox 616.130.00.1\* Geberit water connection with shut off valve for conc. cistern as from 2002 240.177.00.1\* Geberit water connection nipple for Urinal set 241.061.00.1\* GROHE water connection 42234 for WC cistern 6-9l 42 235 000\* \* These items are not JRG products and therefore not distributed by Georg Fischer JRG AG.

| d<br>[mm] | ST<br>[inch] | Code           | d1<br>[mm] | d2 Rp<br>[inch] | l<br>[mm] | z<br>[mm] | M  |
|-----------|--------------|----------------|------------|-----------------|-----------|-----------|----|
| 16        | ½            | <b>4717116</b> | 16         | ½               | 64        | 46        | 18 |
| 20        | ½            | <b>4717120</b> | 20         | ½               | 74        | 51        | 21 |

4730

## Reduction MT

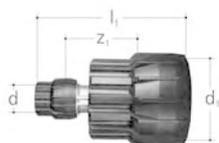


made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex MT pipes

| d1<br>[mm] | d<br>[mm] | Code           | l1<br>[mm] | z1<br>[mm] |
|------------|-----------|----------------|------------|------------|
| 20         | 16        | <b>4730100</b> | 58.0       | 31         |
| 26         | 16        | <b>4730102</b> | 70.5       | 41         |
| 26         | 20        | <b>4730104</b> | 74.0       | 39         |
| 32         | 16        | <b>4730106</b> | 82.0       | 52         |
| 32         | 20        | <b>4730108</b> | 87.0       | 50         |
| 32         | 26        | <b>4730110</b> | 92.0       | 50         |
| 40         | 16        | <b>4730112</b> | 94.0       | 61         |
| 40         | 20        | <b>4730114</b> | 100.0      | 61         |
| 40         | 26        | <b>4730116</b> | 105.0      | 61         |
| 40         | 32        | <b>4730118</b> | 111.0      | 58         |

4730

## Reduction MT, d50/63

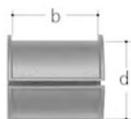


made of gunmetal, cone grip union MT made of plastic for JRG Sanipex MT-pipes

| d1<br>[mm] | d<br>[mm] | Code           | l<br>[mm] | z1<br>[mm] |
|------------|-----------|----------------|-----------|------------|
| 50         | 26        | <b>4730124</b> | 123.0     | 69.6       |
| 50         | 32        | <b>4730126</b> | 131.5     | 70.0       |
| 50         | 40        | <b>4730128</b> | 143.0     | 74.9       |
| 63         | 26        | <b>4730134</b> | 134.0     | 82.5       |
| 63         | 32        | <b>4730136</b> | 153.5     | 84.9       |
| 63         | 40        | <b>4730138</b> | 164.5     | 88.7       |
| 63         | 50        | <b>4730140</b> | 183.0     | 100.5      |

4751

## Sliding insert



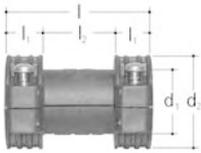
made of plastic, for commercial used clamps with sound protection for JRG Sanipex MT pipes

| d<br>[mm] | Code           | b<br>[mm] |
|-----------|----------------|-----------|
| 16        | <b>4751016</b> | 30        |
| 20        | <b>4751020</b> | 30        |
| 26        | <b>4751026</b> | 30        |
| 32        | <b>4751032</b> | 30        |
| 40        | <b>4751040</b> | 30        |

4752

**Sliding insert**

made of plastic, for commercial used clamps sound protection, for JRG Sanipex MT pipes

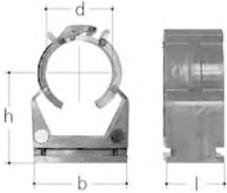


| d<br>[mm] | Code           | d1<br>[mm] | d2<br>[mm] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] |  |
|-----------|----------------|------------|------------|-----------|------------|------------|--|
| 16        | <b>4752016</b> | 16         | 31.5       | 62.5      | 16         | 30.5       |  |
| 20        | <b>4752020</b> | 20         | 35.5       | 62.5      | 16         | 30.5       |  |
| 26        | <b>4752026</b> | 26         | 41.5       | 62.5      | 16         | 30.5       |  |
| 32        | <b>4752032</b> | 32         | 47.5       | 62.5      | 16         | 30.5       |  |
| 40        | <b>4752040</b> | 40         | 55.5       | 62.5      | 16         | 30.5       |  |

4755

**Pipe bracket**

made of plastic, black, one piece clip with quick release fastener, for JRG Sanipex and JRG Sanipex MT pipes



| d<br>[mm] | Code           | b<br>[mm] | h<br>[mm] | l<br>[mm] |  |
|-----------|----------------|-----------|-----------|-----------|--|
| 16        | <b>4755016</b> | 15        | 20        | 23        |  |
| 20        | <b>4755020</b> | 15        | 23        | 26        |  |

# Valves

4771

## Distributor shut-off valve MT JRG LegioStop



Feed adapter for JRG Sanipex MT, outlet adapter to distributor, PN 10, with free of death traps top JRG LegioStop, made of bronze, grinded non-rising valve stem and seat made of stainless valve seat, EPDM seals, plastic handwheel and union nut, for water up to 90°C. Shut-off valve top q.v. 5290 suitable for: Distributor and distributor accessories 4640, 5419-5424, 5455

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | d4<br>[mm] | d5 G<br>[inch] | h<br>[mm] | l<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|------------|----------------|------------|----------------|------------|----------------|-----------|-----------|------------|------------|
| 26        | 20         | <b>4771010</b> | 26         | ¾              | 53         | 1              | 79        | 101       | 39         | 32.5       |

4790

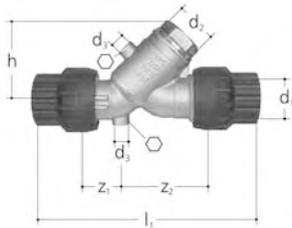
## Plug for pipes



| d<br>[mm] | Code           | d1<br>[mm] | l<br>[mm] |
|-----------|----------------|------------|-----------|
| 16        | <b>4790016</b> | 32         | 23        |
| 20        | <b>4790020</b> | 39         | 27        |
| 26        | <b>4790026</b> | 51         | 32        |
| 32        | <b>4790032</b> | 63         | 36        |
| 40        | <b>4790040</b> | 78         | 43        |

1612

## Return flow inhibitor MT, PN 10

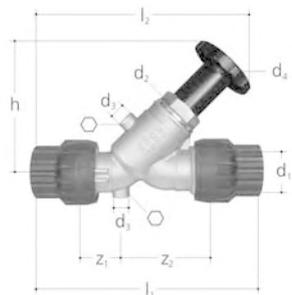


with adapter for JRG Sanipex MT, threaded connection for test and drain valve, closed with closure plug 5149, without test and drain valve, made of bronze, stainless steel valve seat and closing spring, plastic return flow inhibitor, PPSU baffle, EPDM seals, plastic union nut, for water up to 90°C, opening pressure less than 50 mbar, tested according to DIN EN 13959, noise tested, valve sound group 1, SVGW registered. Check valve replacement q.v. 1628, test and drain valve q.v. 7301.080, also suitable for JRG Sanipex d16/20 pipes

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | d3 Rp<br>[inch] | h<br>[mm] | l1<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|------------|----------------|------------|----------------|-----------------|-----------|------------|------------|------------|
| 16        | 12         | <b>1612016</b> | 16         | ½              | ¼               | 46.5      | 115        | 28         | 50         |
| 20        | 15         | <b>1612020</b> | 20         | ½              | ¼               | 46.5      | 122        | 27         | 51         |
| 26        | 20         | <b>1612026</b> | 26         | ¾              | ¼               | 55.5      | 148        | 27         | 63         |
| 32        | 25         | <b>1612032</b> | 32         | 1              | ¼               | 67.5      | 178        | 28         | 75         |
| 40        | 32         | <b>1612040</b> | 40         | 1 ¼            | ¼               | 80.0      | 218        | 37         | 92         |
| 50        | 40         | <b>1612050</b> | 50         | 1 ½            | ¼               | 90.3      | 256        | 46         | 108        |
| 63        | 50         | <b>1612063</b> | 63         | 2              | ¼               | 107.0     | 315        | 55         | 134        |

5222

## Y-type valve JRG LegioStop MT

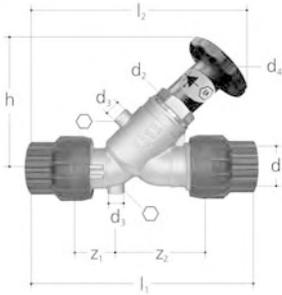


with adapter for JRG Sanipex MT, PN 10, with free of death traps top JRG LegioStop, Threaded connection for drain valve, closed with closure plug 5149, without drain valve, made of bronze, grinded non-rising valve stem and seat made of stainless steel, EPDM seals, plastic handwheel, plastic union nut. For water up to 90°C. Tested according to DIN EN 13959, noise tested, valve sound group 1, SVGW registered. Shut-off valve top q.v. 5290, drain valve q.v. 7301.080, also suitable for JRG Sanipex d16/20 pipes

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | d3 Rp<br>[inch] | d4<br>[mm] | h<br>[mm] | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] | z2<br>[mm] | M |
|-----------|------------|----------------|------------|----------------|-----------------|------------|-----------|------------|------------|------------|------------|---|
| 16        | 12         | <b>5222016</b> | 16         | ½              | ¼               | 53         | 86.5      | 115        | 133        | 28         | 50         | 6 |
| 20        | 15         | <b>5222020</b> | 20         | ½              | ¼               | 53         | 86.5      | 122        | 137        | 27         | 51         | 6 |
| 26        | 20         | <b>5222026</b> | 26         | ¾              | ¼               | 53         | 104.5     | 148        | 160        | 27         | 63         | 6 |
| 32        | 25         | <b>5222032</b> | 32         | 1              | ¼               | 60         | 116.5     | 178        | 182        | 25         | 75         | 6 |
| 40        | 32         | <b>5222040</b> | 40         | 1 ¼            | ¼               | 70         | 130.0     | 212        | 212        | 37         | 92         | 6 |
| 50        | 40         | <b>5222050</b> | 50         | 1 ½            | ¼               | 90         | 174.5     | 256        | 245        | 46         | 108        | 6 |
| 63        | 50         | <b>5222063</b> | 63         | 2              | ¼               | 90         | 196.0     | 315        | 287        | 55         | 134        | 6 |

5262

## Swing check valve, closable, JRG LegioStop MT

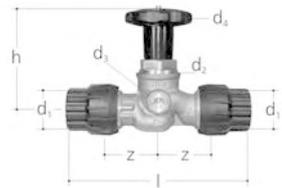


with adapter for JRG Sanipex MT, PN 10, with free of death traps top JRG LegioStop, threaded connection for test and drain valve, closed with closure plug 5149, without test and drain valve, made of bronze, grinded non-rising valve stem and seat made of stainless steel, PPSU baffle as plastic return flow inhibitor, EPDM seals, plastic handwheel, for water up to 90°C. Tested according DIN EN 1213 / DIN EN 13959, noise tested, valve sound group 1, SVGW registered. Swing check valve top q.v. 5295, test and drain valve q.v. 7301.080, also suitable for JRG Sanipex d16/20 pipes

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | d3 Rp<br>[inch] | d4<br>[mm] | h<br>[mm] | l1<br>[mm] | l2<br>[mm] | z1<br>[mm] | z2<br>[mm] | M |
|-----------|------------|----------------|------------|----------------|-----------------|------------|-----------|------------|------------|------------|------------|---|
| 16        | 12         | <b>5262016</b> | 16         | ½              | ¼               | 53         | 86.5      | 115        | 133.0      | 28         | 50         | 6 |
| 20        | 15         | <b>5262020</b> | 20         | ½              | ¼               | 53         | 86.5      | 122        | 137.0      | 27         | 51         | 6 |
| 26        | 20         | <b>5262026</b> | 26         | ¾              | ¼               | 53         | 104.5     | 148        | 160.0      | 27         | 63         | 6 |
| 32        | 25         | <b>5262032</b> | 32         | 1              | ¼               | 60         | 116.5     | 178        | 182.0      | 28         | 75         | 6 |
| 40        | 32         | <b>5262040</b> | 40         | 1 ¼            | ¼               | 70         | 130.0     | 218        | 212.0      | 37         | 92         | 6 |
| 50        | 40         | <b>5262050</b> | 50         | 1 ½            | ¼               | 90         | 148.0     | 256        | 246.3      | 46         | 108        | 6 |
| 63        | 50         | <b>5262063</b> | 63         | 2              | ¼               | 90         | 169.5     | 315        | 288.4      | 55         | 134        | 6 |

5354

## Straight seat valve MT JRG LegioStop

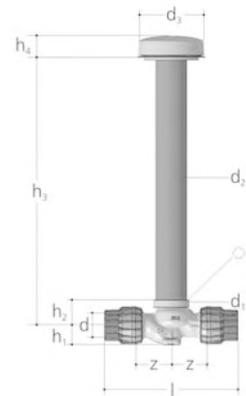


with adapter for JRG Sanipex MT, PN 10, with free of death traps top JRG LegioStop, threaded connection for drain valve at the side, closed with closure plug 5149, without drain valve, made of bronze, grinded non-rising valve stem and seat made of stainless steel, EPDM seals, plastic handwheel, for water up to 90°C. Tested according DIN EN 1213, noise tested, valve sound group 1, SVGW registered, shut-off valve top q.v. 5395, drain valve q.v. 7301.080, also suitable for JRG Sanipex d16/20 pipes

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | d2 G<br>[inch] | d3 Rp<br>[inch] | d4<br>[mm] | h<br>[mm] | l<br>[mm] | z1<br>[mm] |
|-----------|------------|----------------|------------|----------------|-----------------|------------|-----------|-----------|------------|
| 16        | 12         | <b>5354016</b> | 16         | ½              | ¼               | 53         | 70        | 108       | 37         |
| 20        | 15         | <b>5354020</b> | 20         | ½              | ¼               | 53         | 70        | 120       | 39         |
| 26        | 20         | <b>5354026</b> | 26         | ¾              | ¼               | 53         | 78        | 137       | 41         |
| 32        | 25         | <b>5354032</b> | 32         | 1              | ¼               | 60         | 89        | 172       | 49         |

5922

## Concealed straight seat valve JRG LegioStop



with adapters to JRG Sanipex MT, PN10 with upper part JRG LegioStop free of death traps, gunmetal body, grinded non-rising valve stem and seat made of stainless steel, EPDM gaskets, plastic protection pipe, hand wheel/rosettemade of chromium plated plastic, for water up to 90°C. SVGW registered. Fixing set rear, for flange see 5929.001 Front fixing set, for protection pipe see 5929.002

| GN<br>[mm] | DN<br>[mm] | Code           | d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | h1<br>[mm] | h2<br>[mm] | h3<br>[mm] | h4<br>[mm] | l<br>[mm] | z<br>[mm] | M  |
|------------|------------|----------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|----|
| 16         | 12         | <b>5922016</b> | 16        | 39         | 34         | 71         | 15         | 28         | 43 - 275   | 24         | 108       | 37        | 18 |
| 20         | 15         | <b>5922020</b> | 20        | 39         | 34         | 71         | 18         | 28         | 43 - 275   | 24         | 120       | 39        | 18 |
| 26         | 20         | <b>5922026</b> | 26        | 39         | 34         | 71         | 22         | 28         | 43 - 275   | 24         | 137       | 41        | 18 |
| 32         | 25         | <b>5922032</b> | 32        | 39         | 34         | 71         | 27         | 28         | 43 - 275   | 24         | 172       | 49        | 18 |

6040

## Ball valve, PN 10, with JRG Sanipex MT cone grip unions

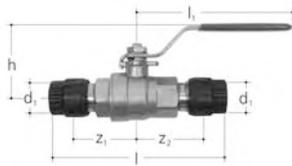


made of gunmetal, black handle and cone grip unions made of plastic, ball teflonised, Teflon gaskets, for water, compressed air and vacuum. Temperature limit: -20°C up to +95°C Not approved for installation according SVGW

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | h<br>[mm] | l<br>[mm] | l1<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|------------|----------------|------------|-----------|-----------|------------|------------|------------|
| 16        | 12         | <b>6040016</b> | 16         | 35        | 93        | 81         | 26.5       | 29.0       |
| 20        | 15         | <b>6040020</b> | 20         | 46        | 110       | 92         | 30.5       | 33.0       |
| 26        | 20         | <b>6040026</b> | 26         | 49        | 134       | 92         | 35.5       | 39.0       |
| 32        | 25         | <b>6040032</b> | 32         | 53        | 158       | 127        | 39.5       | 44.5       |
| 40        | 32         | <b>6040040</b> | 40         | 58        | 193       | 127        | 47.5       | 52.5       |

6040

## JRG Sanipex MT ball valve, made of rust resistant steel



with adapter to JRG Sanipex MT, PN 10 rust resistant steel body, Teflon gasket, blue handle, plastic cone grip union, for fully desalinated water up to 90°C special media on request, also suitable to JRG Sanipex d16/20 pipes

| d<br>[mm] | DN<br>[mm] | Code           | d1<br>[mm] | h<br>[mm] | l<br>[mm] | l1<br>[mm] | z1<br>[mm] | z2<br>[mm] |
|-----------|------------|----------------|------------|-----------|-----------|------------|------------|------------|
| 16        | 12         | <b>6040716</b> | 16         | 48        | 108       | 38         | 110        | 38         |
| 20        | 15         | <b>6040720</b> | 20         | 48        | 133       | 41         | 110        | 41         |
| 26        | 20         | <b>6040726</b> | 26         | 60        | 165       | 50         | 110        | 50         |
| 32        | 25         | <b>6040732</b> | 32         | 60        | 200       | 60         | 125        | 60         |
| 40        | 32         | <b>6040740</b> | 40         | 76        | 230       | 70         | 185        | 70         |

6045

## Spindle extension

for ball valve 6040

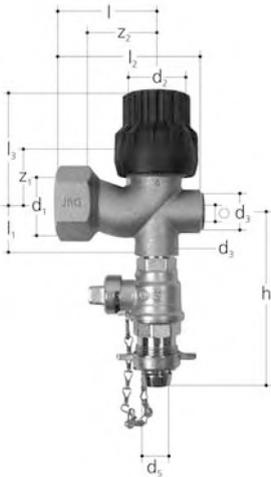


| DN<br>[mm] | d<br>[mm] | Code           | h<br>[mm] |
|------------|-----------|----------------|-----------|
|            | - 16      | <b>6045016</b> | 41        |
| 15 - 20    | 20 - 26   | <b>6045020</b> | 43        |
| 25 - 32    | 32 - 40   | <b>6045032</b> | 55        |

8335

## Connection part JRG Sanipex MT, PN 10

for boiler connection made of gunmetal, with female thread and connection to JRG Sanipex MT, consisting of cross T-pce, boiler ball valve, Sealing plug with O-Ring



| GN<br>[inch] | DN<br>[mm] | Code           | d1 Rp<br>[inch] | d2<br>[mm] | d3 G<br>[inch] | d5 G<br>[inch] | l<br>[mm] | l1<br>[mm] | l2<br>[mm] | l3<br>[mm] | z1<br>[mm] | z2<br>[mm] | M  |
|--------------|------------|----------------|-----------------|------------|----------------|----------------|-----------|------------|------------|------------|------------|------------|----|
| 3/4          | 20         | <b>8335026</b> | 3/4             | 26         | 1/2            | 3/4            | 55        | 29.5       | 79.0       | 59.0       | 26.5       | 40.0       | 10 |
| 1            | 25         | <b>8335032</b> | 1               | 32         | 1/2            | 3/4            | 60        | 34.0       | 86.5       | 69.5       | 28.5       | 43.0       | 10 |
| 1 1/4        | 32         | <b>8335040</b> | 1 1/4           | 40         | 1/2            | 3/4            | 70        | 38.5       | 100.5      | 80.0       | 33.0       | 51.0       | 10 |

# Tools and accessories

4800

## Fitter's toolkit d16+20

consisting of: 4804.000 Expanding pliers 4806.016 Hand bending template d16 4806.020 Hand bending template d20 4828.000 Fitter's toolkit 4832.016 Ratchet torque wrench d16 4832.020 Ratchet torque wrench d20 4834.016 Counter key d16 4834.020 Counter key d20 4837.000 Multi-purpose cutter d16/20 4838.000 Marking pen, yellow 5777.000 Alignment gauge 5790.008 Box assembly key



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 16 - 20   | <b>4800000</b> | 345       | 110        | 520       |

4800

## Fitter's toolkit complete d16/20/26

consisting of: 4804.000 Expanding pliers 4804.026 Clamping jaws d26 4804.126 Expanding mandrel d26 4806.016 Hand bending template d16 4806.020 Hand bending template d20 4806.026 Hand bending template d26 4828.000 Fitter's toolkit 4832.016 Ratchet torque wrench d16 4832.020 Ratchet torque wrench d20 4832.026 Ratchet torque wrench d26 4834.016 Counter key d16 4834.020 Counter key d20 4834.026 Counter key d26 4836.000 Pipe cutter d16-d40 4837.000 Multi-purpose cutter d16/20 4838.000 Marking pen, yellow 5777.000 Alignment gauge 5790.008 Box assembly key



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 16 - 26   | <b>4800050</b> | 345       | 110        | 520       |

4800

## Supplement to fitter's toolkit d26

consisting of: tool case with insert 4832.026 Ratchet torque wrench d26 4834.026 Counter key d26 4836.000 Pipe cutter 4806.026 Hand bending template



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 26        | <b>8400090</b> | 345       | 55         | 520       |

4804

## Clamping jaws

made of steel, to expanding pliers 4804 for JRG Sanipex MT, JRG Sanipex and JRG Sanipex Calor pipes



| d<br>[mm] | Code           | b<br>[mm] | h<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|-----------|
| 16        | <b>4804016</b> | 30        | 45        | 35        |
| 20        | <b>4804020</b> | 30        | 45        | 35        |
| 26        | <b>4804026</b> | 30        | 45        | 35        |

4804

## Expanding mandrel for pipes JRG Sanipex MT

2 parts, made of steel and aluminium anodised, for JRG Sanipex MT d16 x 2,25 with a groove, black, for JRG Sanipex MT d20 x 2,5 with a groove, blue, for JRG Sanipex MT d26 x 3,0 with a groove, red



| d<br>[mm] | Code           | d1<br>[mm] | d2<br>[mm] | l<br>[mm] |
|-----------|----------------|------------|------------|-----------|
| 16        | <b>4804116</b> | 10.3       | 23         | 35.2      |
| 20        | <b>4804120</b> | 13.5       | 23         | 33.9      |
| 26        | <b>4804126</b> | 18.0       | 23         | 32.3      |

4806

## Hand bending template

made of aluminium die casting, to bend JRG Sanipex MT pipes



| d<br>[mm] | Code           | l<br>[mm] |
|-----------|----------------|-----------|
| 16        | <b>4806016</b> | 217       |
| 20        | <b>4806020</b> | 270       |
| 26        | <b>4806026</b> | 415       |

4810

## Hydraulic unit

Case made of impact resistant plastic with electronic control, visual program display, 230V, 650 Watt, 50 Hz, suitable for: 4830 Expanding units d16-d40, 4852 Bending tool d16-d40



| Code           | Plug           | b<br>[mm] | h<br>[mm] | l<br>[mm] |
|----------------|----------------|-----------|-----------|-----------|
| <b>4810000</b> | EU (not Italy) | 142       | 230       | 400       |
| <b>4810050</b> | CH             | 142       | 230       | 400       |
| <b>4810100</b> | Italy          | 142       | 230       | 400       |

4815

## Fitter's toolkit d16-40

consisting of: 4828.001 Fitter's toolkit, 4830.016 Expanding unit d16, 4830.020 Expanding unit d20, 4830.026 Expanding unit d26, 4832.032 Expanding unit d32, 4830.040 Expanding unit d40, 4832.016 Ratchet torque wrench d16, 4832.020 Ratchet torque wrench d20, 4832.026 Ratchet torque wrench d26, 4832.032 Ratchet torque wrench d32, 4832.040 Ratchet torque wrench d40, 4834.016 Counter key d16, 4834.020 Counter key d20, 4834.026 Counter key d26, 4834.032 Counter key d32, 4834.040 Counter key d40, 4836.000 Pipe cutter



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 16 - 40   | <b>4815000</b> | 423       | 170        | 574       |

4815

**Fitter's toolkit d26-40**

consisting of: 4828.001 Fitter's toolkit, 4830.026 Expanding unit d26, 4832.032 Expanding unit d32, 4830.040 Expanding unit d40, 4832.026 Ratchet torque wrench d26, 4832.032 Ratchet torque wrench d32, 4832.040 Ratchet torque wrench d40, 4834.026 Counter key d26, 4834.032 Counter key d32, 4834.040 Counter key d40, 4836.000 Pipe cutter



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |  |
|-----------|----------------|-----------|------------|-----------|--|
| 26 - 40   | <b>4815100</b> | 423       | 170        | 574       |  |

4815

**Fitter's toolkit d32+40**

consisting of: 4828.001 Fitter's toolkit, 4832.032 Expanding unit d32, 4830.040 Expanding unit d40, 4832.032 Ratchet torque wrench d32, 4832.040 Ratchet torque wrench d40, 4834.032 Counter key d32, 4834.040 Counter key d40, 4836.000 Pipe cutter



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |  |
|-----------|----------------|-----------|------------|-----------|--|
| 32 - 40   | <b>4815150</b> | 423       | 170        | 574       |  |

4820

**Fitter's toolkit d50+63**

Consisting of: 4831.000 Operating cylinder, 4831.050 Clamp unit d50, 4831.063 Clamp unit d63, 4831.350 Expanding mandrel d50, 4831.363 Expanding mandrel d63, 4832.050 Ratchet torque wrench d50, 4832.063 Ratchet torque wrench d63, 4834.050 Counter key d50, 4834.063 Counter key d63, 4836.100 Pipe cutter d50+63



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |  |
|-----------|----------------|-----------|------------|-----------|--|
| 50 - 63   | <b>4820100</b> | 423       | 170        | 574       |  |

4828

**Fitter's toolkit d16-26 empty**

made of plastic, suitable to: 4800.000



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |  |
|-----------|----------------|-----------|------------|-----------|--|
| 16 - 26   | <b>4828000</b> | 345       | 110        | 520       |  |

4828



## Fitter's toolkit d16-40 empty

made of plastic, suitable to: 4815.000, 4815.100, 4815.150

| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 16 - 40   | <b>4828001</b> | 423       | 170        | 574       |

4830

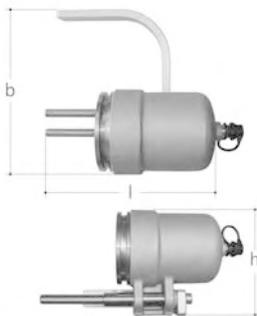


## Expanding unit

made of aluminium and steel, clamping lever with plastic handle, to expand JRG Sanipex MT pipes, suitable to: 4810 hydraulic unit

| d<br>[mm] | Code           | b<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|
| 16        | <b>4830016</b> | 99        | 170       |
| 20        | <b>4830020</b> | 99        | 184       |
| 26        | <b>4830026</b> | 99        | 196       |
| 32        | <b>4830032</b> | 99        | 201       |
| 40        | <b>4830040</b> | 107       | 222       |

4831



## Operating cylinder d50+63

made of aluminium and steel to expand JRG Sanipex MT pipes, suitable to: 4831.050, 4831.063, 4831.350, 4831.363

| d<br>[mm] | Code           | b<br>[mm] | h<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|-----------|
| 50 - 63   | <b>4831000</b> | 200.5     | 129.5     | 243.9     |

4831



## Expanding mandrel d50+63

made of aluminium to expand JRG Sanipex MT pipes, suitable to: 4831.000

| d<br>[mm] | Code           | d1<br>[mm] | d2<br>[mm] | l<br>[mm] | l1<br>[mm] |
|-----------|----------------|------------|------------|-----------|------------|
| 50        | <b>4831350</b> | 39.5       | 51.7       | 39.8      | 10.6       |
| 63        | <b>4831363</b> | 51.8       | 65.3       | 37.3      | 10.7       |

4831



## Clamp unit complete d50+63

made of aluminium and steel, handle with plastic sleeve to expand JRG Sanipex MT pipes, suitable to: 4831.000, and clamping jaws

| d<br>[mm] | Code           | b<br>[mm] | h<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|-----------|
| 50        | <b>4831050</b> | 242.6     | 159.6     | 86.7      |
| 63        | <b>4831063</b> | 242.6     | 159.6     | 86.7      |

4832

**Ratchet torque wrench**

made of aluminium and steel, handle with plastic sleeve, with fix adjusted torque, to tighten the plastic cone grip unions MT



| d<br>[mm] | Code           | b<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|
| 16        | <b>4832016</b> | 34        | 157       |
| 20        | <b>4832020</b> | 41        | 174       |
| 26        | <b>4832026</b> | 51        | 224       |
| 32        | <b>4832032</b> | 61        | 271       |
| 40        | <b>4832040</b> | 76        | 326       |

4832

**Ratchet torque wrench d50+63**

made of aluminium and steel, handle with plastic sleeve with fix adjusted torque to tighten cone grip unions MT made of plastic



| d<br>[mm] | Code           |
|-----------|----------------|
| 50        | <b>4832050</b> |
| 63        | <b>4832063</b> |

4834

**Counter key**

made of steel, to counter the plastic cone grip union JRG Sanipex MT



| d<br>[mm] | Code           | b<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|
| 16        | <b>4834016</b> | 27        | 157       |
| 20        | <b>4834020</b> | 33        | 174       |
| 26        | <b>4834026</b> | 42        | 224       |
| 32        | <b>4834032</b> | 52        | 271       |
| 40        | <b>4834040</b> | 65        | 326       |

4832

**Counter key d50+63**

made of aluminium, to counter during tightening of the plastic cone grip union MT



| d<br>[mm] | Code           | b<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|
| 50        | <b>4834050</b> | 101.7     | 405.2     |
| 63        | <b>4834063</b> | 127.3     | 453.1     |

4836

**Pipe cutter**

made of aluminium, to cut JRG Sanipex MT pipes, with automatically adjustment of the cutting wheel, Replacement wheel for pipe cutter no. 55 781 02



| d<br>[mm] | Code           | l<br>[mm] |
|-----------|----------------|-----------|
| 16 - 40   | <b>4836000</b> | 251       |

4836

**Pipe cutter d50+63**

made of aluminium and steel, with automatically adjustment of the cutting wheel, to cut JRG Sanipex MT-pipes, spare cutting wheel see 16 508 51



| d<br>[mm] | Code           | l<br>[mm] |
|-----------|----------------|-----------|
| 50 - 63   | <b>4836050</b> | 240       |

4837

**Multi-purpose cutter d16/20**

made of plastic, with steel blade, lockable, to cut conduit, as to cut JRG Sanipex MT and JRG Sanipex pipes d16/d20



| d<br>[mm] | Code           | b<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|-----------|
| 16 - 20   | <b>4837000</b> | 45        | 200       |

4838

**Marking pen, yellow**

to mark out JRG Sanipex MT components and pipes



| Code           |
|----------------|
| <b>4838000</b> |

4839

**Hydraulic oil**

Spare bottle 0,5 l to hydraulic unit no. 4810



| Code           | d<br>[mm] | l<br>[mm] |
|----------------|-----------|-----------|
| <b>4839000</b> | 65        | 200       |

4850

**Bending toolkit d16-40**

consisting of: 4858.001 Bending toolkit, 4852.000 Bending tool, 4855.016 Bending template d16, 4855.020 Bending template d20, 4855.026 Bending template d26, 4855.032 Bending template d32, 4855.040 Bending template d40, 4838.000 Marking pen, yellow



| d<br>[mm] | Code           | b<br>[mm] | b1<br>[mm] | l<br>[mm] |
|-----------|----------------|-----------|------------|-----------|
| 16 - 40   | <b>4850000</b> | 345       | 110        | 520       |



# Ball valves / Butterfly valves

|   |                        | Page |
|---|------------------------|------|
|                  | Ball valves PP-H       | 374  |
| <br>DN10/15 - 50 | Ball valves ABS        | 379  |
| <br>DN10-50      | Ball valves PVC-U      | 381  |
| <br>DN10/15 - 50 | Ball valves PVC-C      | 386  |
|                  | Butterfly valves PP-H  | 387  |
|                 | Butterfly valves ABS   | 388  |
|                | Butterfly valves PVC-U | 389  |
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|                | Wafer check valves     | 391  |

# Ball valves PP-H

## PROGEF Standard Ball valve type 546 With mounting inserts With fusion sockets metric



DN10/15 - 50

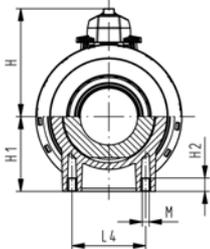
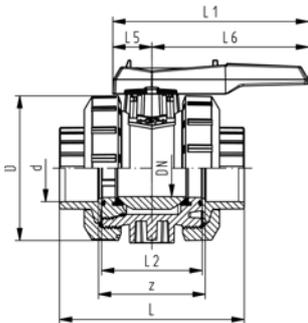
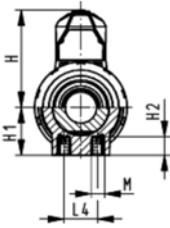
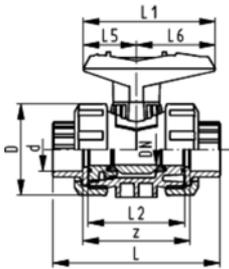


### Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------------|----|--|--------------------|--------------------|----|-------|
| 16        | 10         | 10 | 71   | <b>167 546 401</b> | <b>167 546 411</b> | 10 | 0.115 |
| 20        | 15         | 10 | 185  | <b>167 546 402</b> | <b>167 546 412</b> | 10 | 0.115 |
| 25        | 20         | 10 | 350  | <b>167 546 403</b> | <b>167 546 413</b> | 10 | 0.180 |
| 32        | 25         | 10 | 700  | <b>167 546 404</b> | <b>167 546 414</b> | 10 | 0.255 |
| 40        | 32         | 10 | 1000                                       | <b>167 546 405</b> | <b>167 546 415</b> | 6  | 0.440 |
| 50        | 40         | 10 | 1600                                       | <b>167 546 406</b> | <b>167 546 416</b> | 6  | 0.610 |
| 63        | 50         | 10 | 3100                                       | <b>167 546 407</b> | <b>167 546 417</b> | 4  | 1.145 |
| 75        | 65         | 10 | 5000                                       | <b>167 546 408</b> | <b>167 546 418</b> | -  | 3.700 |
| 90        | 80         | 10 | 7000                                       | <b>167 546 409</b> | <b>167 546 419</b> | -  | 5.500 |
| 110       | 100        | 10 | 11000                                      | <b>167 546 410</b> | <b>167 546 420</b> | -  | 8.700 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M   | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----|-----------|
| 16        | 50        | 57        | 27         | 12         | 93        | 77         | 56         | 25         | 32         | 45         | M6  | 67        |
| 20        | 50        | 57        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | M6  | 66        |
| 25        | 58        | 67        | 30         | 12         | 109       | 97         | 65         | 25         | 39         | 58         | M6  | 77        |
| 32        | 68        | 73        | 36         | 12         | 119       | 97         | 71         | 25         | 39         | 58         | M6  | 83        |
| 40        | 84        | 90        | 44         | 15         | 135       | 128        | 85         | 45         | 54         | 74         | M8  | 99        |
| 50        | 97        | 97        | 51         | 15         | 147       | 128        | 89         | 45         | 54         | 74         | M8  | 105       |
| 63        | 124       | 116       | 64         | 15         | 168       | 152        | 101        | 45         | 66         | 87         | M8  | 117       |
| 75        | 166       | 149       | 85         | 15         | 233       | 270        | 136        | 70         | 64         | 206        | M8  | 167       |
| 90        | 200       | 161       | 105        | 15         | 254       | 270        | 141        | 70         | 64         | 206        | M8  | 180       |
| 110       | 238       | 178       | 123        | 22         | 301       | 320        | 164        | 120        | 64         | 256        | M12 | 215       |



DN10/15 - 50



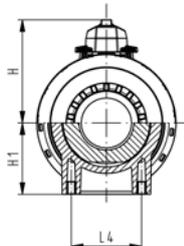
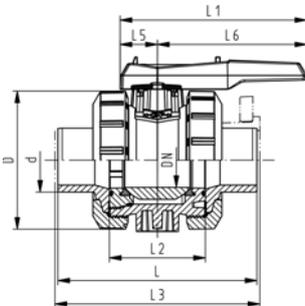
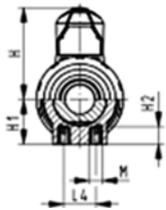
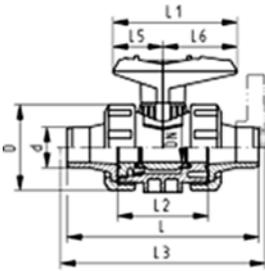
# PROGEF Standard Ball valve type 546 With mounting inserts With socket fusion spigots metric

## Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

## Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

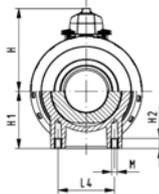
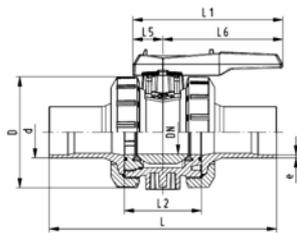
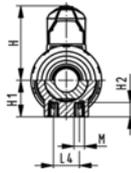
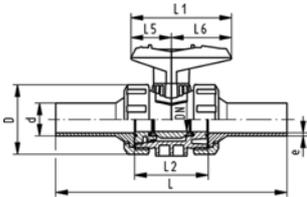


| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | FPM<br>Code | GP | kg    |
|-----------|------------|----|--|--------------|-------------|----|-------|
| 16        | 10         | 10 | 71   | 167 546 041  | 167 546 051 | 10 | 0.120 |
| 20        | 15         | 10 | 185  | 167 546 042  | 167 546 052 | 10 | 0.120 |
| 25        | 20         | 10 | 350  | 167 546 043  | 167 546 053 | 10 | 0.180 |
| 32        | 25         | 10 | 700  | 167 546 044  | 167 546 054 | 10 | 0.260 |
| 40        | 32         | 10 | 1000                                       | 167 546 045  | 167 546 055 | 6  | 0.450 |
| 50        | 40         | 10 | 1600                                       | 167 546 046  | 167 546 056 | 6  | 0.640 |
| 63        | 50         | 10 | 3100                                       | 167 546 047  | 167 546 057 | 4  | 1.210 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|----|
| 16        | 50        | 57        | 27         | 12         | 110       | 77         | 56         |            | 25         | 32         | 45         | M6 |
| 20        | 50        | 57        | 27         | 12         | 120       | 77         | 56         | 130        | 25         | 32         | 45         | M6 |
| 25        | 58        | 67        | 30         | 12         | 139       | 97         | 65         | 150        | 25         | 39         | 58         | M6 |
| 32        | 68        | 73        | 36         | 12         | 150       | 97         | 71         | 160        | 25         | 39         | 58         | M6 |
| 40        | 84        | 90        | 44         | 15         | 170       | 128        | 85         | 180        | 45         | 54         | 74         | M8 |
| 50        | 97        | 97        | 51         | 15         | 190       | 128        | 89         | 200        | 45         | 54         | 74         | M8 |
| 63        | 124       | 116       | 64         | 15         | 220       | 152        | 101        | 230        | 45         | 66         | 87         | M8 |



DN10/15 - 50



# PROGEF Standard

## Ball valve type 546

### With mounting inserts

### With butt fusion spigots long PE100 SDR11 metric

#### Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

#### Option:

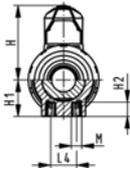
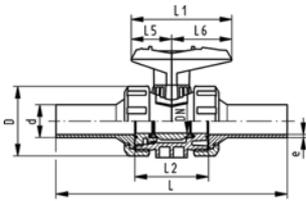
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code          | FPM Code           | GP | kg    |
|--------|---------|----|-----------------------------|--------------------|--------------------|----|-------|
| 20     | 15      | 10 | 185                         | <b>167 546 282</b> | <b>167 546 292</b> | 6  | 0.130 |
| 25     | 20      | 10 | 350                         | <b>167 546 283</b> | <b>167 546 293</b> | 6  | 0.195 |
| 32     | 25      | 10 | 700                         | <b>167 546 284</b> | <b>167 546 294</b> | 4  | 0.280 |
| 40     | 32      | 10 | 1000                        | <b>167 546 285</b> | <b>167 546 295</b> | 4  | 0.485 |
| 50     | 40      | 10 | 1600                        | <b>167 546 286</b> | <b>167 546 296</b> | 1  | 0.695 |
| 63     | 50      | 10 | 3100                        | <b>167 546 287</b> | <b>167 546 297</b> | 4  | 1.320 |
| 75     | 65      | 10 | 5000                        | <b>167 546 288</b> | <b>167 546 298</b> | -  | 3.900 |
| 90     | 80      | 10 | 7000                        | <b>167 546 289</b> | <b>167 546 299</b> | -  | 5.900 |
| 110    | 100     | 10 | 11000                       | <b>167 546 290</b> | <b>167 546 300</b> | -  | 9.300 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | M   | e [mm] |
|--------|--------|--------|---------|---------|--------|---------|---------|---------|---------|---------|-----|--------|
| 20     | 50     | 57     | 27      | 12      | 193    | 77      | 56      | 25      | 32      | 45      | M6  | 2,3    |
| 25     | 58     | 67     | 30      | 12      | 216    | 97      | 65      | 25      | 39      | 58      | M6  | 2,3    |
| 32     | 68     | 73     | 36      | 12      | 223    | 97      | 71      | 25      | 39      | 58      | M6  | 2,9    |
| 40     | 84     | 90     | 44      | 15      | 249    | 128     | 85      | 45      | 54      | 74      | M8  | 3,7    |
| 50     | 97     | 97     | 51      | 15      | 271    | 128     | 89      | 45      | 54      | 74      | M8  | 4,6    |
| 63     | 124    | 116    | 64      | 15      | 321    | 152     | 101     | 45      | 66      | 87      | M8  | 5,8    |
| 75     | 166    | 149    | 85      | 15      | 386    | 270     | 136     | 70      | 64      | 206     | M8  | 6,8    |
| 90     | 200    | 161    | 105     | 15      | 421    | 270     | 141     | 70      | 64      | 206     | M8  | 8,2    |
| 110    | 238    | 178    | 123     | 22      | 484    | 320     | 164     | 120     | 64      | 256     | M12 | 10,0   |



DN10/15 - 50



## PROGEF Standard Ball valve type 546 With mounting inserts With butt fusion spigots long SDR11 metric

### Model:

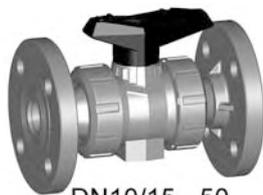
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

### Option:

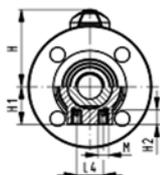
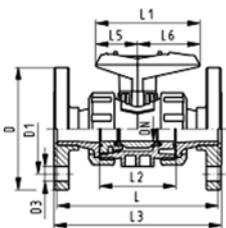
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------------|----|--|--------------------|--------------------|----|-------|
| 20        | 15         | 10 | 185  | <b>167 546 262</b> | <b>167 546 272</b> | 6  | 0.130 |
| 25        | 20         | 10 | 350  | <b>167 546 263</b> | <b>167 546 273</b> | 6  | 0.195 |
| 32        | 25         | 10 | 700  | <b>167 546 264</b> | <b>167 546 274</b> | 4  | 0.280 |
| 40        | 32         | 10 | 1000                                       | <b>167 546 265</b> | <b>167 546 275</b> | 4  | 0.480 |
| 50        | 40         | 10 | 1600                                       | <b>167 546 266</b> | <b>167 546 276</b> | 1  | 0.700 |
| 63        | 50         | 10 | 3100                                       | <b>167 546 267</b> | <b>167 546 277</b> | 1  | 1.320 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | e<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|
| 20        | 50        | 57        | 27         | 12         | 193       | 77         | 56         | 25         | 32         | 45         | M6 | 2,3       |
| 25        | 58        | 67        | 30         | 12         | 216       | 97         | 65         | 25         | 39         | 58         | M6 | 2,3       |
| 32        | 68        | 73        | 36         | 12         | 223       | 97         | 71         | 25         | 39         | 58         | M6 | 2,9       |
| 40        | 84        | 90        | 44         | 15         | 249       | 128        | 85         | 45         | 54         | 74         | M8 | 3,7       |
| 50        | 97        | 97        | 51         | 15         | 271       | 128        | 89         | 45         | 54         | 74         | M8 | 4,6       |
| 63        | 124       | 116       | 64         | 15         | 321       | 152        | 101        | 45         | 66         | 87         | M8 | 5,8       |



DN10/15 - 50



## PROGEF Standard Ball valve type 546 With mounting inserts With fixed flanges PP-H serrated metric

### Model:

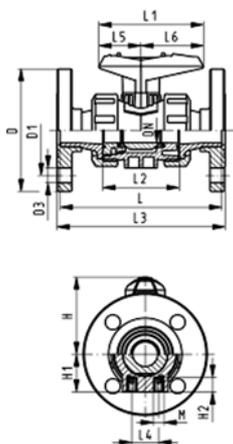
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Overall length EN 558

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------------|------|----|--|--------------------|--------------------|----|-------|
| 20        | 15         | ½    | 10 | 185  | <b>167 546 182</b> | <b>167 546 192</b> | 6  | 0.245 |
| 25        | 20         | ¾    | 10 | 350  | <b>167 546 183</b> | <b>167 546 193</b> | 6  | 0.345 |
| 32        | 25         | 1    | 10 | 700  | <b>167 546 184</b> | <b>167 546 194</b> | 4  | 0.495 |
| 40        | 32         | 1 ¼  | 10 | 1000                                       | <b>167 546 185</b> | <b>167 546 195</b> | 1  | 0.830 |
| 50        | 40         | 1 ½  | 10 | 1600                                       | <b>167 546 186</b> | <b>167 546 196</b> | 1  | 1.100 |
| 63        | 50         | 2    | 10 | 3100                                       | <b>167 546 187</b> | <b>167 546 197</b> | 1  | 1.830 |

table continued next page



| d    | D    | D1   | D3   | H    | H1   | H2   | L    | L1   | L2   | L3   | L4   | L5   | L6   | M  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| [mm] |    |
| 20   | 95   | 65   | 14   | 57   | 27   | 12   | 120  | 77   | 56   | 130  | 25   | 32   | 45   | M6 |
| 25   | 105  | 75   | 14   | 67   | 30   | 12   | 140  | 97   | 65   | 150  | 25   | 39   | 58   | M6 |
| 32   | 115  | 85   | 14   | 73   | 36   | 12   | 150  | 97   | 71   | 160  | 25   | 39   | 58   | M6 |
| 40   | 140  | 100  | 18   | 90   | 44   | 15   | 170  | 128  | 85   | 180  | 45   | 54   | 74   | M8 |
| 50   | 150  | 110  | 18   | 97   | 51   | 15   | 190  | 128  | 89   | 200  | 45   | 54   | 74   | M8 |
| 63   | 165  | 125  | 18   | 116  | 64   | 15   | 220  | 152  | 101  | 230  | 45   | 66   | 87   | M8 |



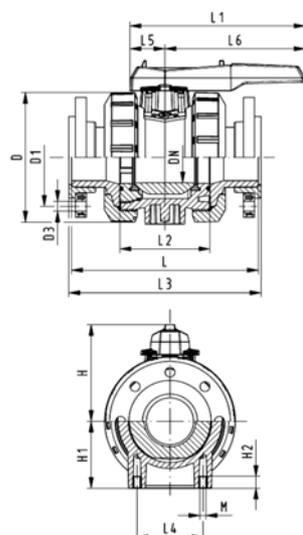
## PROGEF Standard Ball valve type 546 With mounting inserts With backing flanges PP-st metric

### Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



| d    | DN   | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg     |
|------|------|----|--|--------------------|--------------------|----|--------|
| [mm] | [mm] |    |  |                    |                    |    |        |
| 75   | 65   | 10 | 5000                                       | <b>167 546 808</b> | <b>167 546 818</b> | -  | 4.300  |
| 90   | 80   | 10 | 7000                                       | <b>167 546 809</b> | <b>167 546 819</b> | -  | 6.400  |
| 110  | 100  | 10 | 11000                                      | <b>167 546 810</b> | <b>167 546 820</b> | -  | 10.000 |

| d    | D    | D1   | D3   | L    | L1   | L2   | L3   | L4   | L5   | L6   | H    | H1   | M  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| [mm] |    |
| 75   | 166  | 145  | 18   | 280  | 270  | 136  | 290  | 70   | 64   | 206  | 149  | 85   | 8  |
| 90   | 200  | 160  | 18   | 296  | 270  | 141  | 310  | 70   | 64   | 206  | 161  | 105  | 8  |
| 110  | 238  | 180  | 18   | 336  | 320  | 164  | 350  | 120  | 64   | 256  | 178  | 123  | 12 |

# Ball valves ABS

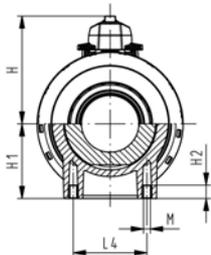
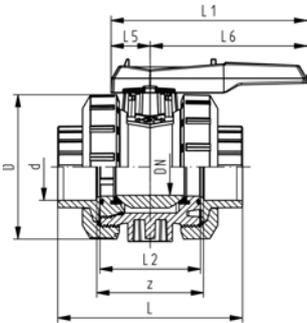
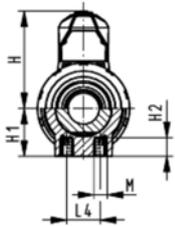
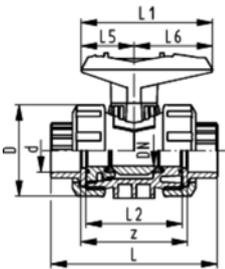
## Ball valve type 546 ABS

### With mounting inserts

### With solvent cement sockets metric



DN10/15 - 50



#### Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

#### Option:

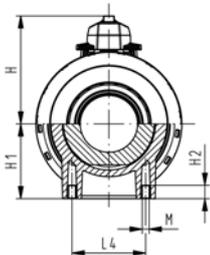
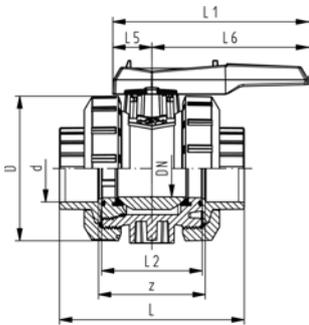
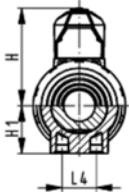
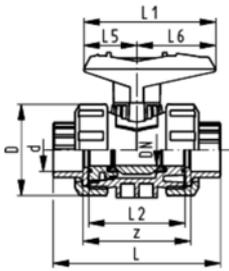
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | GP | kg    |
|-----------|------------|----|--|--------------------|----|-------|
| 16        | 10         | 10 | 71   | <b>169 546 061</b> | 10 | 0.112 |
| 20        | 15         | 10 | 185  | <b>169 546 062</b> | 10 | 0.114 |
| 25        | 20         | 10 | 350  | <b>169 546 063</b> | 10 | 0.178 |
| 32        | 25         | 10 | 700  | <b>169 546 064</b> | 10 | 0.258 |
| 40        | 32         | 10 | 1000                                       | <b>169 546 065</b> | 6  | 0.457 |
| 50        | 40         | 10 | 1600                                       | <b>169 546 066</b> | 6  | 0.642 |
| 63        | 50         | 10 | 3100                                       | <b>169 546 067</b> | 4  | 1.175 |
| 75        | 65         | 10 | 5000                                       | <b>169 546 068</b> | -  | 3.900 |
| 90        | 80         | 10 | 7000                                       | <b>169 546 069</b> | -  | 5.700 |
| 110       | 100        | 10 | 11000                                      | <b>169 546 070</b> | -  | 9.100 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M   | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----|-----------|
| 16        | 50        | 57        | 27         | 12         | 92        | 77         | 56         | 25         | 32         | 45         | M6  | 64        |
| 20        | 50        | 57        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | M6  | 64        |
| 25        | 58        | 67        | 30         | 12         | 110       | 97         | 65         | 25         | 39         | 58         | M6  | 72        |
| 32        | 68        | 73        | 36         | 12         | 123       | 97         | 71         | 25         | 39         | 58         | M6  | 79        |
| 40        | 84        | 90        | 44         | 15         | 146       | 128        | 85         | 45         | 54         | 74         | M8  | 94        |
| 50        | 97        | 97        | 51         | 15         | 157       | 128        | 89         | 45         | 54         | 74         | M8  | 95        |
| 63        | 124       | 116       | 64         | 15         | 183       | 152        | 101        | 45         | 66         | 87         | M8  | 107       |
| 75        | 166       | 149       | 85         | 15         | 233       | 270        | 136        | 70         | 64         | 206        | M8  | 144       |
| 90        | 200       | 161       | 105        | 15         | 254       | 270        | 141        | 70         | 64         | 206        | M8  | 151       |
| 110       | 238       | 178       | 123        | 22         | 301       | 320        | 164        | 120        | 64         | 256        | M12 | 174       |



DN10/15 - 50



## Ball valve type 546 ABS With solvent cement sockets metric

### Model:

- For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Without mounting inserts

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | GP | kg    |
|-----------|------------|----|--|--------------------|----|-------|
| 75        | 65         | 10 | 5000                                       | <b>169 546 008</b> | -  | 3.900 |
| 90        | 80         | 10 | 7000                                       | <b>169 546 009</b> | -  | 5.700 |
| 110       | 100        | 10 | 11000                                      | <b>169 546 010</b> | -  | 9.100 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 75        | 166       | 149       | 85         | 233       | 270        | 136        | 70         | 64         | 206        | 144       |
| 90        | 200       | 161       | 105        | 254       | 270        | 141        | 70         | 64         | 206        | 151       |
| 110       | 238       | 178       | 123        | 301       | 320        | 164        | 120        | 64         | 256        | 174       |

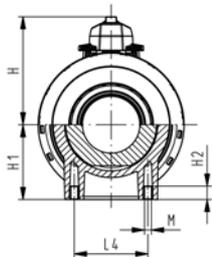
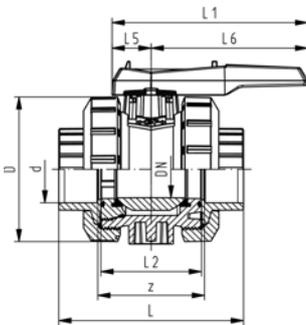
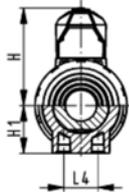
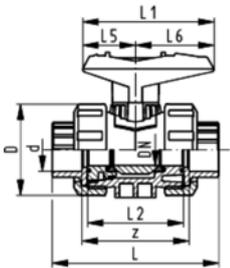
# Ball valves PVC-U

## Ball valve type 546 PVC-U

### With solvent cement sockets metric



DN10/15 - 50



#### Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

#### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code | FPM<br>Code | GP | kg     |
|-----------|------------|----|--|--------------|-------------|----|--------|
| 16        | 10         | 16 | 71   | 161 546 001  | 161 546 011 | 10 | 0.150  |
| 20        | 15         | 16 | 185  | 161 546 002  | 161 546 012 | 10 | 0.150  |
| 25        | 20         | 16 | 350  | 161 546 003  | 161 546 013 | 10 | 0.230  |
| 32        | 25         | 16 | 700  | 161 546 004  | 161 546 014 | 10 | 0.330  |
| 40        | 32         | 16 | 1000                                       | 161 546 005  | 161 546 015 | 6  | 0.600  |
| 50        | 40         | 16 | 1600                                       | 161 546 006  | 161 546 016 | 6  | 0.800  |
| 63        | 50         | 16 | 3100                                       | 161 546 007  | 161 546 017 | 4  | 1.460  |
| 75        | 65         | 16 | 5000                                       | 161 546 008  | 161 546 018 | -  | 4.900  |
| 90        | 80         | 16 | 7000                                       | 161 546 009  | 161 546 019 | -  | 7.400  |
| 110       | 100        | 16 | 11000                                      | 161 546 010  | 161 546 020 | -  | 11.600 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 92        | 77         | 56         | 25         | 32         | 45         | 64        |
| 20        | 50        | 57        | 27         | 95        | 77         | 56         | 25         | 32         | 45         | 64        |
| 25        | 58        | 67        | 30         | 110       | 97         | 65         | 25         | 39         | 58         | 72        |
| 32        | 68        | 73        | 36         | 123       | 97         | 71         | 25         | 39         | 58         | 79        |
| 40        | 84        | 90        | 44         | 146       | 128        | 85         | 45         | 54         | 74         | 94        |
| 50        | 97        | 97        | 51         | 157       | 128        | 89         | 45         | 54         | 74         | 95        |
| 63        | 124       | 116       | 64         | 183       | 152        | 101        | 45         | 66         | 87         | 107       |
| 75        | 166       | 149       | 85         | 233       | 270        | 136        | 70         | 64         | 206        | 144       |
| 90        | 200       | 161       | 105        | 254       | 270        | 141        | 70         | 64         | 206        | 151       |
| 110       | 238       | 178       | 123        | 301       | 320        | 164        | 120        | 64         | 256        | 174       |



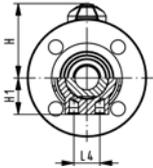
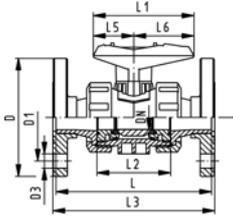
## Ball valve type 546 PVC-U With fixed flanges PVC-U serrated metric

### Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------------|----|--|--------------------|--------------------|----|-------|
| 20        | 15         | 16 | 185  | <b>800 000 182</b> | <b>800 000 192</b> | -  | 0.370 |
| 25        | 20         | 16 | 350  | <b>800 000 183</b> | <b>800 000 193</b> | -  | 0.510 |
| 32        | 25         | 16 | 700  | <b>800 000 184</b> | <b>800 000 194</b> | -  | 0.740 |
| 40        | 32         | 16 | 1000                                       | <b>800 000 185</b> | <b>800 000 195</b> | -  | 1.230 |
| 50        | 40         | 16 | 1600                                       | <b>800 000 186</b> | <b>800 000 196</b> | -  | 1.610 |
| 63        | 50         | 16 | 3100                                       | <b>800 000 187</b> | <b>800 000 197</b> | -  | 2.710 |

| d<br>[mm] | D<br>[mm] | D1<br>[mm] | D3<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] |
|-----------|-----------|------------|------------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 20        | 95        | 65         | 14         | 57        | 27         | 124       | 77         | 56         | 130        | 25         | 32         | 45         |
| 25        | 105       | 75         | 14         | 67        | 30         | 144       | 97         | 65         | 150        | 25         | 39         | 58         |
| 32        | 115       | 85         | 14         | 73        | 36         | 154       | 97         | 71         | 160        | 25         | 39         | 58         |
| 40        | 140       | 100        | 18         | 90        | 44         | 174       | 128        | 85         | 180        | 45         | 54         | 74         |
| 50        | 150       | 110        | 18         | 97        | 51         | 194       | 128        | 89         | 200        | 45         | 54         | 74         |
| 63        | 165       | 125        | 18         | 116       | 64         | 224       | 152        | 101        | 230        | 45         | 66         | 87         |



DN10/15 - 50



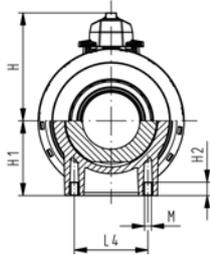
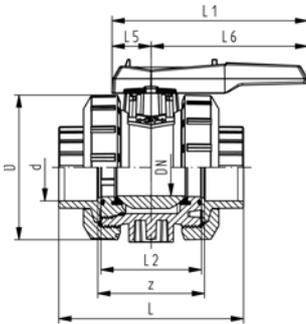
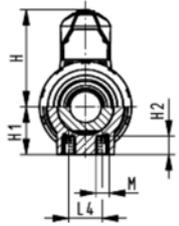
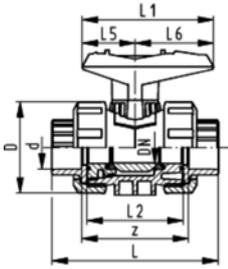
## Ball valve type 546 PVC-U With mounting inserts With solvent cement sockets metric

### Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



| d<br>[mm] | Inch | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------|------------|----|--|--------------------|--------------------|----|-------|
| 16        |      | 10         | 16 | 71   | <b>161 546 061</b> | <b>161 546 071</b> | 10 | 0.150 |
| 20        |      | 15         | 16 | 185  | <b>161 546 062</b> | <b>161 546 072</b> | 10 | 0.150 |
| 25        |      | 20         | 16 | 350  | <b>161 546 063</b> | <b>161 546 073</b> | 10 | 0.230 |
| 32        |      | 25         | 16 | 700  | <b>161 546 064</b> | <b>161 546 074</b> | 10 | 0.330 |
| 40        |      | 32         | 16 | 1000                                       | <b>161 546 065</b> | <b>161 546 075</b> | 6  | 0.600 |
| 50        |      | 40         | 16 | 1600                                       | <b>161 546 066</b> | <b>161 546 076</b> | 6  | 0.800 |
| 63        |      | 50         | 16 | 3100                                       | <b>161 546 067</b> | <b>161 546 077</b> | 4  | 1.460 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|---|-----------|
| 16        | 50        | 57        | 27         | 12         | 92        | 77         | 56         | 25         | 32         | 45         | 6 | 64        |
| 20        | 50        | 57        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | 6 | 64        |
| 25        | 58        | 67        | 30         | 12         | 110       | 97         | 65         | 25         | 39         | 58         | 6 | 72        |
| 32        | 68        | 73        | 36         | 12         | 123       | 97         | 71         | 25         | 39         | 58         | 6 | 79        |
| 40        | 84        | 90        | 44         | 15         | 146       | 128        | 85         | 45         | 54         | 74         | 8 | 94        |
| 50        | 97        | 97        | 51         | 15         | 157       | 128        | 89         | 45         | 54         | 74         | 8 | 95        |
| 63        | 124       | 116       | 64         | 15         | 183       | 152        | 101        | 45         | 66         | 87         | 8 | 107       |



DN10/15 - 50



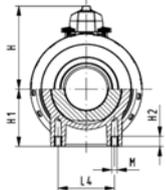
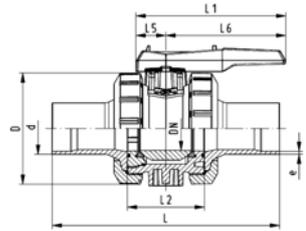
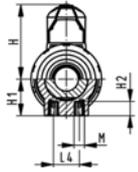
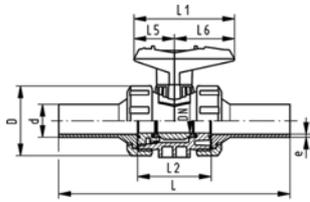
## Ball valve type 546 PVC-U With mounting inserts With butt fusion spigots long PE100 SDR11 metric

### Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | kg    |
|-----------|------------|----|--|--------------------|--------------------|-------|
| 20        | 15         | 16 | 185  | <b>161 546 822</b> | <b>161 546 832</b> | 0.150 |
| 25        | 20         | 16 | 350  | <b>161 546 823</b> | <b>161 546 833</b> | 0.220 |
| 32        | 25         | 16 | 700  | <b>161 546 824</b> | <b>161 546 834</b> | 0.310 |
| 40        | 32         | 16 | 1000                                       | <b>161 546 825</b> | <b>161 546 835</b> | 0.550 |
| 50        | 40         | 16 | 1600                                       | <b>161 546 826</b> | <b>161 546 836</b> | 0.750 |
| 63        | 50         | 16 | 3100                                       | <b>161 546 827</b> | <b>161 546 837</b> | 1.360 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | e<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|
| 20        | 50        | 57        | 27         | 12         | 193       | 77         | 56         | 25         | 32         | 45         | M6 | 2,25      |
| 25        | 58        | 67        | 30         | 12         | 216       | 97         | 65         | 25         | 39         | 58         | M6 | 2,3       |
| 32        | 68        | 73        | 36         | 12         | 223       | 97         | 71         | 25         | 39         | 58         | M6 | 2,9       |
| 40        | 84        | 90        | 44         | 15         | 249       | 128        | 85         | 45         | 54         | 74         | M8 | 3,7       |
| 50        | 97        | 97        | 51         | 15         | 271       | 128        | 89         | 45         | 54         | 74         | M8 | 4,6       |
| 63        | 124       | 116       | 64         | 15         | 321       | 152        | 101        | 45         | 66         | 87         | M8 | 5,8       |



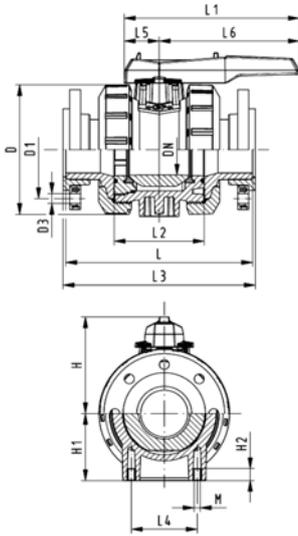
## Ball valve type 546 PVC-U With mounting inserts With backing flanges PP-st metric

### Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

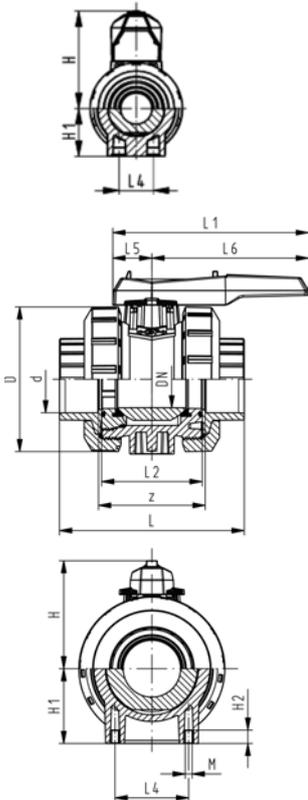
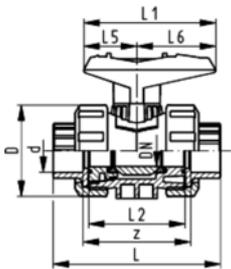


| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | kg     |
|-----------|------------|----|--|--------------------|--------------------|--------|
| 75        | 65         | 16 | 5000                                       | <b>161 546 948</b> | <b>161 546 958</b> | 9.100  |
| 90        | 80         | 16 | 7000                                       | <b>161 546 949</b> | <b>161 546 959</b> | 12.400 |
| 110       | 100        | 16 | 11000                                      | <b>161 546 950</b> | <b>161 546 960</b> | 18.500 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 75        | 166       | 149       | 85         | 284       | 270        | 136        | 290        | 70         | 64         | 206        |
| 90        | 200       | 161       | 105        | 300       | 270        | 141        | 310        | 70         | 64         | 206        |
| 110       | 238       | 178       | 123        | 340       | 320        | 164        | 350        | 120        | 64         | 256        |

# Ball valves PVC-C

## Ball valve type 546 PVC-C With solvent cement sockets metric



### Model:

- For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Without mounting inserts

### Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg     |
|-----------|------------|----|--|--------------------|--------------------|----|--------|
| 16        | 10         | 16 | 71   | <b>163 546 001</b> | <b>163 546 011</b> | 10 | 0.160  |
| 20        | 15         | 16 | 185  | <b>163 546 002</b> | <b>163 546 012</b> | 10 | 0.160  |
| 25        | 20         | 16 | 350  | <b>163 546 003</b> | <b>163 546 013</b> | 10 | 0.245  |
| 32        | 25         | 16 | 700  | <b>163 546 004</b> | <b>163 546 014</b> | 10 | 0.365  |
| 40        | 32         | 16 | 1000                                       | <b>163 546 005</b> | <b>163 546 015</b> | 6  | 0.660  |
| 50        | 40         | 16 | 1600                                       | <b>163 546 006</b> | <b>163 546 016</b> | 6  | 0.890  |
| 63        | 50         | 16 | 3100                                       | <b>163 546 007</b> | <b>163 546 017</b> | 4  | 1.650  |
| 75        | 65         | 16 | 5000                                       | <b>163 546 008</b> | <b>163 546 018</b> | -  | 5.300  |
| 90        | 80         | 16 | 7000                                       | <b>163 546 009</b> | <b>163 546 019</b> | -  | 8.000  |
| 110       | 100        | 16 | 11000                                      | <b>163 546 010</b> | <b>163 546 020</b> | -  | 12.700 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 57        | 27         | 92        | 77         | 56         | 25         | 32         | 45         | 64        |
| 20        | 50        | 57        | 27         | 95        | 77         | 56         | 25         | 32         | 45         | 64        |
| 25        | 58        | 67        | 30         | 110       | 97         | 65         | 25         | 39         | 58         | 72        |
| 32        | 68        | 73        | 36         | 123       | 97         | 71         | 25         | 39         | 58         | 79        |
| 40        | 84        | 90        | 44         | 146       | 128        | 85         | 45         | 54         | 74         | 94        |
| 50        | 97        | 97        | 51         | 157       | 128        | 89         | 45         | 54         | 74         | 95        |
| 63        | 124       | 116       | 64         | 183       | 152        | 101        | 45         | 66         | 87         | 107       |
| 75        | 166       | 149       | 85         | 233       | 270        | 136        | 70         | 64         | 206        | 144       |
| 90        | 200       | 161       | 105        | 254       | 270        | 141        | 70         | 64         | 206        | 151       |
| 110       | 238       | 178       | 123        | 301       | 320        | 164        | 120        | 64         | 256        | 174       |

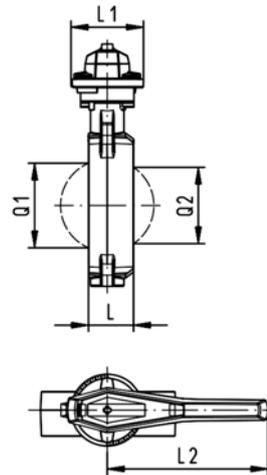
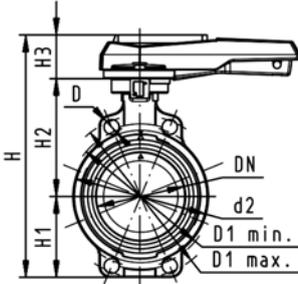
# Butterfly valves PP-H

## PROGEF Standard Butterfly valve type 567 Hand lever with ratchet settings



### Model:

- Material: PP-H, DN350-DN600 material PP-R
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg     |
|-----------|------------|------|----|--|--------------------|--------------------|----|--------|
| 63        | 50         | 2    | 10 | 1470                                       | <b>167 567 002</b> | <b>167 567 022</b> | 1  | 0.969  |
| 75        | 65         | 2 ½  | 10 | 2200                                       | <b>167 567 003</b> | <b>167 567 023</b> | -  | 1.061  |
| 90        | 80         | 3    | 10 | 3000                                       | <b>167 567 004</b> | <b>167 567 024</b> | 1  | 1.191  |
| 110       | 100        | 4    | 10 | 6500                                       | <b>167 567 005</b> | <b>167 567 025</b> | -  | 1.751  |
| 140       | 125        | 5    | 10 | 11500                                      | <b>167 567 006</b> | <b>167 567 026</b> | -  | 2.199  |
| 160       | 150        | 6    | 10 | 16600                                      | <b>167 567 007</b> | <b>167 567 027</b> | -  | 2.989  |
| 225       | 200        | 8    | 10 | 39600                                      | <b>167 567 008</b> | <b>167 567 028</b> | -  | 4.706  |
| 280       | 250        | 10   | 8  | 55200                                      | <b>167 567 009</b> | <b>167 567 029</b> | 1  | 11.841 |
| 315       | 300        | 12   | 8  | 80000                                      | <b>167 567 010</b> | <b>167 567 030</b> | 1  | 14.816 |

| d<br>[mm] | D<br>[mm] | D1<br>min.<br>[mm] | D1<br>max.<br>[mm] | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | Q1<br>[mm] | Q2<br>[mm] |
|-----------|-----------|--------------------|--------------------|------------|-----------|------------|------------|------------|-----------|------------|------------|------------|------------|
| 63        | 19        | 120.0              | 125.0              | 104        | 264       | 77         | 134        | 54         | 45        | 106        | 205        | 40         |            |
| 75        | 19        | 139.7              | 145.0              | 115        | 277       | 83         | 140        | 54         | 46        | 106        | 205        | 54         | 35         |
| 90        | 19        | 150.0              | 160.0              | 131        | 289       | 89         | 146        | 54         | 49        | 106        | 205        | 67         | 50         |
| 110       | 19        | 175.0              | 190.5              | 161        | 325       | 104        | 167        | 55         | 56        | 106        | 255        | 88         | 74         |
| 140       | 23        | 210.0              | 215.9              | 187        | 352       | 117        | 181        | 55         | 64        | 106        | 255        | 113        | 97         |
| 160       | 24        | 241.3              | 241.3              | 215        | 373       | 130        | 189        | 55         | 72        | 106        | 255        | 139        | 123        |
| 225       | 23        | 290.0              | 295.0              | 267        | 435       | 158        | 210        | 67         | 73        | 140        | 408        | 178        | 169        |
| 280       | 25        | 353.0              | 362.0              | 329        | 554       | 205        | 264        | 85         | 113       | 149        | 408        | 210        | 207        |
| 315       | 25        | 400.0              | 432.0              | 379        | 598       | 228        | 285        | 85         | 113       | 149        | 408        | 256        | 253        |

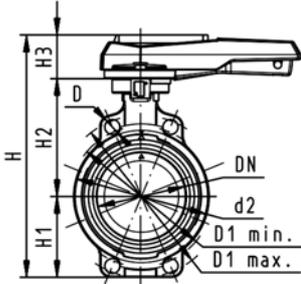
# Butterfly valves ABS

## Butterfly valve type 567 ABS Hand lever with ratchet settings

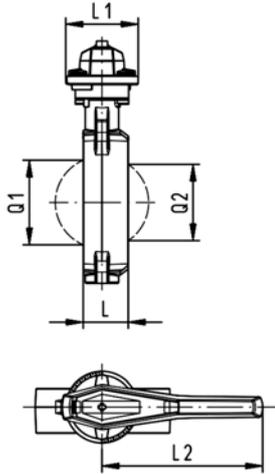


### Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752



| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | GP | kg    |
|-----------|------------|----|--|--------------------|----|-------|
| 63        | 50         | 10 | 1470                                       | <b>169 567 002</b> | 1  | 1.400 |
| 75        | 65         | 10 | 2200                                       | <b>169 567 003</b> | 1  | 1.150 |
| 90        | 80         | 10 | 3000                                       | <b>169 567 004</b> | 1  | 1.221 |
| 110       | 100        | 10 | 6500                                       | <b>169 567 005</b> | -  | 1.805 |
| 140       | 125        | 10 | 11500                                      | <b>169 567 006</b> | -  | 2.536 |
| 160       | 150        | 10 | 16600                                      | <b>169 567 007</b> | -  | 3.128 |
| 225       | 200        | 10 | 39600                                      | <b>169 567 008</b> | -  | 4.936 |



| d<br>[mm] | D<br>[mm] | D1<br>min.<br>[mm] | D1<br>max.<br>[mm] | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | Q1<br>[mm] | Q2<br>[mm] |
|-----------|-----------|--------------------|--------------------|------------|-----------|------------|------------|------------|-----------|------------|------------|------------|------------|
| 63        | 19        | 120.0              | 125.0              | 104        | 264       | 77         | 134        | 54         | 45        | 106        | 205        | 40         |            |
| 75        | 19        | 139.7              | 145.0              | 115        | 277       | 83         | 140        | 54         | 46        | 106        | 205        | 54         | 35         |
| 90        | 19        | 150.0              | 160.0              | 131        | 289       | 89         | 146        | 54         | 49        | 106        | 205        | 67         | 50         |
| 110       | 19        | 175.0              | 190.5              | 161        | 325       | 104        | 167        | 55         | 56        | 106        | 255        | 88         | 74         |
| 140       | 23        | 210.0              | 215.9              | 187        | 352       | 117        | 181        | 55         | 64        | 106        | 255        | 113        | 97         |
| 160       | 24        | 241.3              | 241.3              | 215        | 373       | 130        | 189        | 55         | 72        | 106        | 255        | 139        | 123        |
| 225       | 23        | 290.0              | 295.0              | 267        | 435       | 158        | 210        | 67         | 73        | 140        | 408        | 178        | 169        |

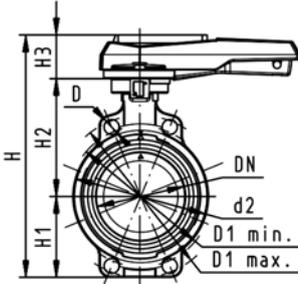
# Butterfly valves PVC-U

## Butterfly valve type 567 PVC-U Hand lever with ratchet settings

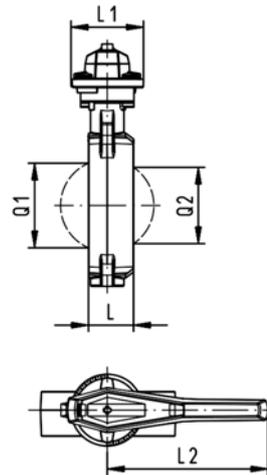


### Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg     |
|-----------|------------|------|----|--|--------------------|--------------------|----|--------|
| 63        | 50         | 2    | 10 | 1470                                       | <b>161 567 002</b> | <b>161 567 022</b> | 1  | 1.044  |
| 75        | 65         | 2 ½  | 10 | 2200                                       | <b>161 567 003</b> | <b>161 567 023</b> | 1  | 1.148  |
| 90        | 80         | 3    | 10 | 3000                                       | <b>161 567 004</b> | <b>161 567 024</b> | 1  | 1.315  |
| 110       | 100        | 4    | 10 | 6500                                       | <b>161 567 005</b> | <b>161 567 025</b> | 1  | 1.983  |
| 140       | 125        | 5    | 10 | 11500                                      | <b>161 567 006</b> | <b>161 567 026</b> | 1  | 2.554  |
| 160       | 150        | 6    | 10 | 16600                                      | <b>161 567 007</b> | <b>161 567 027</b> | 1  | 3.564  |
| 225       | 200        | 8    | 10 | 39600                                      | <b>161 567 008</b> | <b>161 567 028</b> | 1  | 5.541  |
| 280       | 250        | 10   | 10 | 55200                                      | <b>161 567 009</b> | <b>161 567 029</b> | 1  | 12.998 |
| 315       | 300        | 12   | 10 | 80000                                      | <b>161 567 010</b> | <b>161 567 030</b> | 1  | 16.757 |



| d<br>[mm] | D<br>[mm] | D1<br>min.<br>[mm] | D1<br>max.<br>[mm] | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | Q1<br>[mm] | Q2<br>[mm] |
|-----------|-----------|--------------------|--------------------|------------|-----------|------------|------------|------------|-----------|------------|------------|------------|------------|
| 63        | 19        | 120.0              | 125.0              | 104        | 264       | 77         | 134        | 54         | 45        | 106        | 205        | 40         |            |
| 75        | 19        | 139.7              | 145.0              | 115        | 277       | 83         | 140        | 54         | 46        | 106        | 205        | 54         | 35         |
| 90        | 19        | 150.0              | 160.0              | 131        | 289       | 89         | 146        | 54         | 49        | 106        | 205        | 67         | 50         |
| 110       | 19        | 175.0              | 190.5              | 161        | 325       | 104        | 167        | 55         | 56        | 106        | 255        | 88         | 74         |
| 140       | 23        | 210.0              | 215.9              | 187        | 352       | 117        | 181        | 55         | 64        | 106        | 255        | 113        | 97         |
| 160       | 24        | 241.3              | 241.3              | 215        | 373       | 130        | 189        | 55         | 72        | 106        | 255        | 139        | 123        |
| 225       | 23        | 290.0              | 295.0              | 267        | 435       | 158        | 210        | 67         | 73        | 140        | 408        | 178        | 169        |
| 280       | 25        | 353.0              | 362.0              | 329        | 554       | 205        | 264        | 85         | 113       | 149        | 408        | 210        | 207        |
| 315       | 25        | 400.0              | 432.0              | 379        | 598       | 228        | 285        | 85         | 113       | 149        | 408        | 256        | 253        |

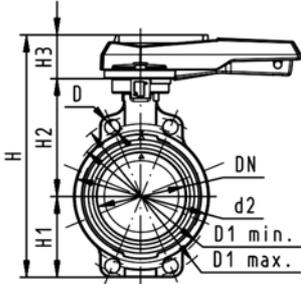
# Butterfly valves PVC-C

## Butterfly valve type 567 PVC-C Hand lever with ratchet settings

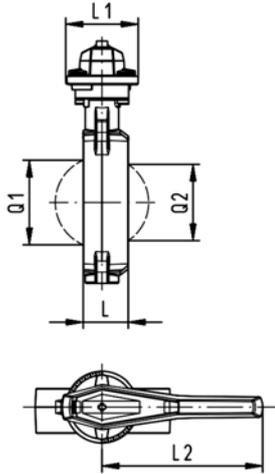


### Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752



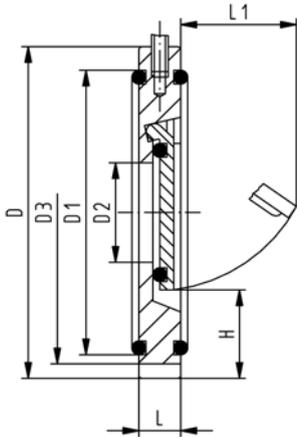
| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | EPDM<br>Code       | FPM<br>Code        | GP | kg    |
|-----------|------------|------|----|--|--------------------|--------------------|----|-------|
| 63        | 50         | 2    | 10 | 1470                                       | <b>163 567 002</b> | <b>163 567 022</b> | 1  | 1.400 |
| 75        | 65         | 2 ½  | 10 | 2200                                       | <b>163 567 003</b> | <b>163 567 023</b> | -  | 1.174 |
| 90        | 80         | 3    | 10 | 3000                                       | <b>163 567 004</b> | <b>163 567 024</b> | 1  | 1.353 |
| 110       | 100        | 4    | 10 | 6500                                       | <b>163 567 005</b> | <b>163 567 025</b> | -  | 2.043 |
| 140       | 125        | 5    | 10 | 11500                                      | <b>163 567 006</b> | <b>163 567 026</b> | -  | 2.536 |
| 160       | 150        | 6    | 10 | 16600                                      | <b>163 567 007</b> | <b>163 567 027</b> | -  | 3.634 |
| 225       | 200        | 8    | 10 | 39600                                      | <b>163 567 008</b> | <b>163 567 028</b> | -  | 5.901 |



| d<br>[mm] | D<br>[mm] | D1<br>min.<br>[mm] | D1<br>max.<br>[mm] | d2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | Q1<br>[mm] | Q2<br>[mm] |
|-----------|-----------|--------------------|--------------------|------------|-----------|------------|------------|------------|-----------|------------|------------|------------|------------|
| 63        | 19        | 120.0              | 125.0              | 104        | 264       | 77         | 134        | 54         | 45        | 106        | 205        | 40         |            |
| 75        | 19        | 139.7              | 145.0              | 115        | 277       | 83         | 140        | 54         | 46        | 106        | 205        | 54         | 35         |
| 90        | 19        | 150.0              | 160.0              | 131        | 289       | 89         | 146        | 54         | 49        | 106        | 205        | 67         | 50         |
| 110       | 19        | 175.0              | 190.5              | 161        | 325       | 104        | 167        | 55         | 56        | 106        | 255        | 88         | 74         |
| 140       | 23        | 210.0              | 215.9              | 187        | 352       | 117        | 181        | 55         | 64        | 106        | 255        | 113        | 97         |
| 160       | 24        | 241.3              | 241.3              | 215        | 373       | 130        | 189        | 55         | 72        | 106        | 255        | 139        | 123        |
| 225       | 23        | 290.0              | 295.0              | 267        | 435       | 158        | 210        | 67         | 73        | 140        | 408        | 178        | 169        |

# Wafer check valves

## Wafer check valve type 369 PVC-U With V4A spring (stainless steel 316)



### Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

### Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI-flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

| d<br>[mm] | DN<br>[mm] | Inch | PN | EPDM<br>Code | GP | kg    |
|-----------|------------|------|----|--------------|----|-------|
| 63        | 50         | 2    | 6  | 161 369 044  | -  | 0.250 |
| 90        | 80         | 3    | 6  | 161 369 046  | -  | 0.390 |

| d<br>[mm] | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | Opening<br>pressure<br>vertical<br>[mbar] | Opening<br>pressure hor-<br>izontal<br>[mbar] | Minimum<br>water col-<br>umn for<br>sealing<br>[m] |
|-----------|-----------|------------|------------|------------|-----------|------------|-----------|---|---|--|
| 63        | 124       | 90         | 32         | 109        | 18        | 40         | 29        | 30  | 20  | 2.0  |
| 90        | 175       | 125        | 54         | 144        | 20        | 67         | 32        | 30  | 20  | 2.0  |



# Accessories

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## Flange joints

### Creating flange joints

When making a flange connection, the following points have to be taken into consideration:

There is a general difference between the connection of plastic pipes and so-called adapter joints, which represent the transition from a plastic pipe to a metal pipe or a metal valve. Seals and flanges should be selected accordingly.

Flanges with sufficient thermal and mechanical stability should be used. GF flange types fulfil these requirements.

#### Orientation of bolts outside main axis.

Horizontal pipelines should have the shown orientation of the bolts in order to avoid in case of leakage medium drop on the bolts.



**Information:** Within the range of flexible sections and/or expansion loops no flange connections shall be used, because the bending load can lead to leakages.

Ensure centrally alignment of flange adaptor, flange and the seal with pipe axis.

When inserting a seal between the flange connections, the dimensions of the seal should be checked to make sure they correspond to the outer and inner diameter of the flange adapters. If the deviation between the inner diameter of the seal and the adapter is more than 10 mm, problems may arise with the flange connection.

Before pre-tightening the bolts, the jointing faces must be flush and must sit closely on the seal. Pulling the pipes together within the flange connection is to be strictly avoided because of the tensile stress which results thereof.

The length of the bolts should be selected so that the thread at the nut does not protrude more than 2 to 3 turns. A washer should be placed under the bolt head and also under the nut.

To make sure that the connecting bolts can be easily removed after a lengthy period of use, the thread should be coated with e. g. molybdenum sulphide.

Tighten the bolts diagonally and evenly first assemble the bolts and hand-tighten nut, so that the gasket is perfectly in place and the flange adapters have a minimum offset. Then tighten all the bolts diagonally up to 50 % of the recommended torque, and afterwards to 100 % of the torque.

We recommend checking at a later time and, if necessary, retightening 24 hours after assembling.

After the pressure test, check and cinch if necessary.

For more information on flange connections, see DVS 2210-1 Suppl. 3.

### Bolt tightening torque

The torque of the bolts in flange connections is of particular importance. We observe several different methods in practice:

**As tight as possible:** In time this will definitely overstrain a flange connection in plastic piping systems.

**By feel:** This requires a good deal of experience and material know-how.

**Use of a torque wrench:** This is the best method. We have listed the recommended values below; however, deviations can occur in practice. These can be caused by the use of, for example, self-locking nuts or pipe axes which are not flush. The Shore hardness of the seal can also influence the necessary torque force (see also the following information concerning sealing materials).

#### Bolt tightening torque guidelines for metric (ISO) flange connections with PP-V, PP- steel and PVC flanges.

| Nominal diameter DN | Pipe diameter d | Bolt tightening torque [Nm]                       |  |                                      |
|---------------------|-----------------|---|--|--------------------------------------|
|                     |                 | Flat gasket up to max. pressure of 10 bar / 40 °C | Profile gasket up to max. pressure of 16 bar | O-ring up to max. pressure of 16 bar |
| 15                  | 20              | 10  | 10   | 10                                   |
| 20                  | 25              | 10  | 10   | 10                                   |
| 25                  | 32              | 15  | 10   | 10                                   |
| 32                  | 40              | 20  | 15   | 15                                   |
| 40                  | 50              | 25  | 15   | 15                                   |
| 50                  | 63              | 35  | 20   | 20                                   |
| 65                  | 75              | 50  | 25   | 25                                   |
| 80                  | 90              | 30  | 15   | 15                                   |
| 100                 | 110             | 35  | 20   | 20                                   |
| 125                 | 125, 140        | 45  | 25   | 25                                   |
| 150                 | 160, 180        | 60  | 35   | 30                                   |
| 200                 | 200, 225        | 70 <sup>1)</sup>                                  | 45   | 35                                   |
| 250                 | 250, 280        | 65 <sup>1)</sup>                                  | 35   | 30                                   |
| 300                 | 315             | 90 <sup>1)</sup>                                  | 50   | 40                                   |
| 350                 | 355             | 90 <sup>1)</sup>                                  | 50   | -                                    |
| 400                 | 400             | 100 <sup>1)</sup>                                 | 60   | -                                    |
| 500                 | 450, 500        | 190 <sup>1)</sup>                                 | 70   | -                                    |
| 600                 | 560, 630        | 220 <sup>1)</sup>                                 | 90   | -                                    |

1) Up to a maximum working pressure of 6 bar

**Information:** Please observe the special bolt tightening torques given for DN250 and DN300 recommended for butterfly valves, see clause "Fundamentals for butterfly valves, hand operated".

The indicated torques are recommended by GF; with these torques a sufficient tightness of the flange connection is ensured. They deviate from the data in the DVS 2210-1 Supplement 3, which are to be understood

as upper limit values. Of course our components of the flange connection (adapters, flanges) are designed to withstand these upper limit values.

**Dimensions of metric (ISO) flange connections.**

| Nominal diameter DN | Pipe diameter d | Min. bolt length (calculated) | Max. bolt length (calculated) | Number of screws x thread diameter |
|---------------------|-----------------|-------------------------------|-------------------------------|------------------------------------|
| 15                  | 20              | 52                            | 69                            | 4 x M12                            |
| 20                  | 25              | 56                            | 73                            | 4 x M12                            |
| 25                  | 32              | 60                            | 75                            | 4 x M12                            |
| 32                  | 40              | 70                            | 91                            | 4 x M16                            |
| 40                  | 50              | 72                            | 95                            | 4 x M16                            |
| 50                  | 63              | 78                            | 102                           | 4 x M16                            |
| 65                  | 75              | 82                            | 110                           | 4 x M16                            |
| 80                  | 90              | 86                            | 114                           | 8 x M16                            |
| 100                 | 110             | 89                            | 119                           | 8 x M16                            |
| 125                 | 125, 140        | 101                           | 137                           | 8 x M16                            |
| 150                 | 160, 180        | 108                           | 145                           | 8 x M20                            |
| 200                 | 200, 225        | 130                           | 167                           | 8 x M20                            |
| 250                 | 250, 280        | 134                           | 177                           | 12 x M20                           |
| 300                 | 315             | 150                           | 185                           | 12 x M20                           |
| 350                 | 355             | 168                           | 192                           | 16 x M20                           |
| 400                 | 400             | 179                           | 207                           | 16 x M24                           |
| 500                 | 450, 500        | 249                           | 253                           | 20 x M24                           |
| 600                 | 560, 630        | 291                           | 295                           | 20 x M27                           |

The minimum and maximum bolt lengths are given only for orientation. They are depending from the type of flanges and flange adaptors.

Exact values can be calculated from the information shown in the following clause "Length of bolts".

**Bolt tightening torque guidelines for ANSI flange connections with PP-V, PP- steel and PVC flanges.**

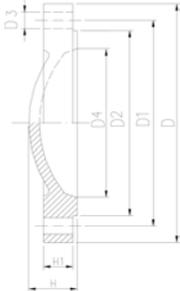
| Nominal diameter-Inch | Nominal diameter-DN | Bolt tightening torque [lb-ft]                    |  |
|-----------------------|---------------------|---|--|
|                       |                     | Flat gasket up to max. pressure of 10 bar / 40 °C | Profile gasket up to max. pressure of 16 bar |
| 1/2                   | 15                  | 15  | 10   |
| 3/4                   | 20                  | 15  | 10   |
| 1                     | 25                  | 15  | 10   |
| 1 1/4                 | 32                  | 15  | 10   |
| 1 1/2                 | 40                  | 15  | 10   |
| 2                     | 50                  | 30  | 20   |
| 2 1/2                 | 65                  | 30  | 20   |
| 3                     | 80                  | 40  | 30   |
| 4                     | 100                 | 30  | 20   |
| 6                     | 150                 | 50  | 33   |
| 8                     | 200                 | 50  | 33   |
| 10                    | 250                 | 60 <sup>1)</sup>                                  | 40   |
| 12                    | 300                 | 75 <sup>1)</sup>                                  | 53   |

1) Up to a maximum working pressure of 6 bar

# Backing flanges PVC-U

21 70 05

## Blanking flange PVC-U Jointing face serrated metric



### Model:

- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

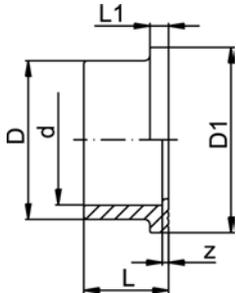
\* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150  
d20 - d110: bolt hole as long hole version

AL: number of holes

| d<br>[mm] | DN<br>[mm] | Inch  | PN | Code               | GP | kg    |
|-----------|------------|-------|----|--------------------|----|-------|
| * 20      | 15         | 1/2   | 10 | <b>721 700 506</b> | -  | 0.075 |
| * 25      | 20         | 3/4   | 10 | <b>721 700 507</b> | -  | 0.097 |
| * 32      | 25         | 1     | 10 | <b>721 700 508</b> | -  | 0.145 |
| * 40      | 32         | 1 1/4 | 10 | <b>721 700 509</b> | -  | 0.222 |
| * 50      | 40         | 1 1/2 | 10 | <b>721 700 510</b> | -  | 0.278 |
| * 63      | 50         | 2     | 10 | <b>721 700 511</b> | -  | 0.380 |
| * 75      | 65         | 2 1/2 | 10 | <b>721 700 512</b> | -  | 0.534 |
| * 90      | 80         | 3     | 10 | <b>721 700 513</b> | -  | 0.667 |
| * 110     | 100        | 4     | 10 | <b>721 700 514</b> | -  | 0.872 |
| * 140     | 125        | 5     | 10 | <b>721 700 516</b> | -  | 1.312 |
| * 160     | 150        | 6     | 10 | <b>721 700 517</b> | -  | 1.730 |
| 225       | 200        | 8     | 10 | <b>721 700 520</b> | -  | 2.600 |
| 250       | 250        | 10    | 10 | <b>721 700 521</b> | -  | 3.300 |
| 280       | 250        | 10    | 10 | <b>721 700 522</b> | -  | 3.800 |
| 315       | 300        | 12    | 6  | <b>721 700 523</b> | -  | 4.870 |
| 355       | 350        | 14    | 6  | <b>721 700 524</b> | -  | 6.920 |
| 400       | 400        | 16    | 6  | <b>721 700 525</b> | -  | 8.940 |

| d<br>[mm] | D<br>[mm] | D1<br>[mm] | D1<br>min.<br>[mm] | D1<br>max.<br>[mm] | D2<br>[mm] | D3<br>[mm] | D4<br>[mm] | H<br>[mm] | H1<br>[mm] | AL |
|-----------|-----------|------------|--------------------|--------------------|------------|------------|------------|-----------|------------|----|
| * 20      | 95        |            | 61.0               | 63.0               | 34         | 16         | 15         | 15        | 12         | 4  |
| * 25      | 105       |            | 70.0               | 73.0               | 41         | 16         | 20         | 16        | 13         | 4  |
| * 32      | 115       |            | 79.0               | 83.0               | 50         | 16         | 25         | 19        | 15         | 4  |
| * 40      | 140       |            | 91.0               | 100.0              | 61         | 18         | 34         | 20        | 16         | 4  |
| * 50      | 150       |            | 101.0              | 110.0              | 74         | 18         | 44         | 22        | 17         | 4  |
| * 63      | 165       |            | 121.0              | 124.0              | 91         | 19         | 57         | 25        | 20         | 4  |
| * 75      | 185       |            | 140.0              | 145.0              | 106        | 22         | 69         | 29        | 21         | 4  |
| * 90      | 200       |            | 152.0              | 160.0              | 125        | 22         | 82         | 32        | 22         | 8  |
| * 110     | 220       |            | 180.0              | 191.0              | 150        | 24         | 102        | 36        | 24         | 8  |
| * 140     | 250       | 215        |                    |                    | 184        | 23         | 120        | 41        | 28         | 8  |
| * 160     | 285       | 240        |                    |                    | 212        | 23         | 152        | 45        | 30         | 8  |
| 225       | 340       | 295        |                    |                    | 273        | 22         | 213        | 63        | 36         | 8  |
| 250       | 370       | 325        |                    |                    | 303        | 22         | 238        | 63        | 36         | 8  |
| 280       | 395       | 350        |                    |                    | 328        | 22         | 266        | 65        | 36         | 12 |
| 315       | 445       | 400        |                    |                    | 378        | 22         | 299        | 65        | 36         | 12 |
| 355       | 505       | 460        |                    |                    | 430        | 22         | 341        | 67        | 38         | 16 |
| 400       | 565       | 515        |                    |                    | 482        | 26         | 384        | 71        | 42         | 16 |

## 21 79 01 / 21 80 01 Flange adaptor PVC-U Combined jointing face flat and serrated metric



### Model:

- Solvent cement socket metric
- d16 - d50: Jointing face flat
- d63 - d400: Combined Jointing face flat and serrated
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07 or Flat gasket EPDM No. 48 40 03 Only use O-ring EPDM No. 48 41 01, FPM No. 49 41 01 in combination with counterpart Flange Adaptor No. 21 81 01 PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, Backing Flange PP-V for socket systems metric No. 27 70 04
- Flange:

**Note:** The flat gasket affects the maximum allowable operating pressure!

| d<br>[mm] | DN<br>[mm] | PN | Code        | SP | GP | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|-------------|----|----|-------|-----------|-----------|------------|-----------|------------|
| 75        | 65         | 16 | 721 790 112 | 10 | -  | 0.155 | 3         | 91        | 106        | 47        | 10         |
| 90        | 80         | 16 | 721 790 113 | 10 | -  | 0.254 | 5         | 108       | 125        | 56        | 11         |
| 110       | 100        | 16 | 721 790 114 | 10 | -  | 0.418 | 5         | 131       | 150        | 66        | 12         |
| 125       | 100        | 16 | 721 790 115 | 5  | -  | 0.548 | 5         | 148       | 170        | 74        | 13         |
| 140       | 125        | 16 | 721 790 116 | 6  | -  | 0.740 | 5         | 165       | 188        | 81        | 14         |
| 160       | 150        | 16 | 721 790 117 | 2  | -  | 1.077 | 5         | 188       | 213        | 91        | 16         |
| 200       | 200        | 10 | 721 790 119 | 2  | -  | 1.476 | 6         | 224       | 250        | 112       | 24         |
| 225       | 200        | 10 | 721 790 120 | 2  | -  | 1.758 | 6         | 248       | 274        | 125       | 25         |

## 21 70 00

## Backing flange PVC-U metric

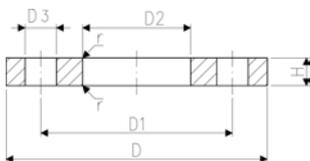
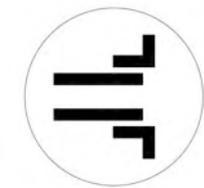
### Model:

- For socket systems
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Maximum medium- or ambient temperature 45 °C
- **Bolt circle PN 10**

<sup>1</sup> Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100

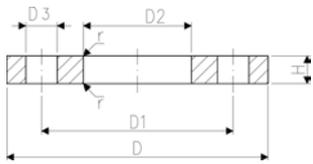
<sup>2</sup> Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

AL: number of holes



| d<br>[mm] | DN<br>[mm] | Inch  | PN | Code        | GP | kg    |
|-----------|------------|-------|----|-------------|----|-------|
| 16        | 10         | 3/8   | 10 | 721 700 005 | -  | 0.055 |
| 20        | 15         | 1/2   | 10 | 721 700 006 | -  | 0.069 |
| 25        | 20         | 3/4   | 10 | 721 700 007 | -  | 0.092 |
| 32        | 25         | 1     | 10 | 721 700 008 | -  | 0.132 |
| 40        | 32         | 1 1/4 | 10 | 721 700 009 | -  | 0.194 |
| 50        | 40         | 1 1/2 | 10 | 721 700 010 | -  | 0.245 |
| 63        | 50         | 2     | 10 | 721 700 011 | -  | 0.311 |
| 75        | 65         | 2 1/2 | 10 | 721 700 012 | -  | 0.375 |
| 90        | 80         | 3     | 10 | 721 700 013 | -  | 0.471 |
| 110       | 100        | 4     | 10 | 721 700 014 | -  | 0.554 |
| 125       | 125        | 4 1/2 | 10 | 721 700 015 | -  | 0.995 |
| 140       | 125        | 5     | 10 | 721 700 016 | -  | 0.746 |
| 160       | 150        | 6     | 10 | 721 700 017 | -  | 1.016 |
| 200       | 200        | 7     | 10 | 721 700 019 | -  | 1.658 |
| 225       | 200        | 8     | 10 | 721 700 020 | -  | 1.380 |
| 250       | 250        | 9     | 6  | 721 700 021 | -  | 1.700 |
| 250       | 225        | 9     | 6  | 721 700 136 | -  | 1.700 |
| 280       | 250        | 10    | 6  | 721 700 137 | -  | 1.730 |
| 315       | 300        | 12    | 6  | 721 700 138 | -  | 2.350 |
| 355       | 350        | 14    | 6  | 721 700 139 | -  | 3.400 |
| 400       | 400        | 16    | 6  | 721 700 140 | -  | 4.500 |

table continued next page



| <b>d</b><br>[mm] | <b>D</b><br>[mm] | <b>D1</b><br>[mm] | <b>D2</b><br>[mm] | <b>D3</b><br>[mm] | <b>H</b><br>[mm] | <b>r</b><br>[mm] | <b>AL</b> | <b>SC</b> |  |
|------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|-----------|-----------|--|
| 16               | 90               | 60                | 23                | 14                | 10               | 1                | 4         | M12       |  |
| 20               | 95               | 65                | 28                | 14                | 11               | 1                | 4         | M12       |  |
| 25               | 105              | 75                | 34                | 14                | 12               | 2                | 4         | M12       |  |
| 32               | 115              | 85                | 42                | 14                | 14               | 2                | 4         | M12       |  |
| 40               | 140              | 100               | 51                | 18                | 15               | 2                | 4         | M16       |  |
| 50               | 150              | 110               | 62                | 18                | 16               | 2                | 4         | M16       |  |
| 63               | 165              | 125               | 78                | 18                | 18               | 3                | 4         | M16       |  |
| 75               | 185              | 145               | 92                | 18                | 19               | 3                | 4         | M16       |  |
| 90               | 200              | 160               | 110               | 18                | 20               | 3                | 8         | M16       |  |
| 110              | 220              | 180               | 133               | 18                | 22               | 3                | 8         | M16       |  |
| 125              | 250              | 210               | 150               | 18                | 26               | 5                | 8         | M16       |  |
| 140              | 250              | 210               | 167               | 18                | 26               | 4                | 8         | M16       |  |
| 160              | 285              | 240               | 190               | 22                | 28               | 4                | 8         | M20       |  |
| 200              | 340              | 295               | 226               | 22                | 32               | 4                | 8         | M20       |  |
| 225              | 340              | 295               | 250               | 22                | 32               | 4                | 8         | M20       |  |
| 250              | 395              | 350               | 277               | 22                | 36               | 4                | 12        | M20       |  |
| 250              | 370              | 325               | 277               | 22                | 36               | 4                | 8         | M20       |  |
| 280              | 395              | 350               | 310               | 22                | 36               | 4                | 12        | M20       |  |
| 315              | 445              | 400               | 348               | 22                | 36               | 4                | 12        | M20       |  |
| 355              | 505              | 460               | 388               | 22                | 38               | 5                | 16        | M20       |  |
| 400              | 565              | 515               | 442               | 26                | 42               | 5                | 16        | M24       |  |

# Backing flange PVC-C

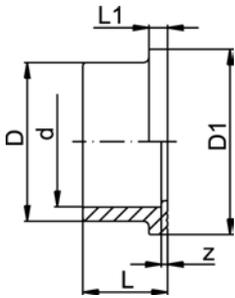
23 79 01

## Flange adaptor PVC-C

### Combined jointing face flat and serrated metric

**Model:**

- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Gasket: Flat gasket EPDM No. 48 40 03
- Flange: No. 27 70 04, 27 70 02, 21 70 00



| d<br>[mm] | DN<br>[mm] | PN | Code               | SP | GP | kg    | z<br>[mm] | D<br>[mm] | D1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|-----------|------------|----|--------------------|----|----|-------|-----------|-----------|------------|-----------|------------|
| 75        | 65         | 16 | <b>723 790 112</b> | 10 | -  | 0.167 | 3         | 91        | 106        | 47        | 10         |
| 90        | 80         | 16 | <b>723 790 113</b> | 10 | -  | 0.271 | 5         | 108       | 125        | 56        | 11         |
| 110       | 100        | 16 | <b>723 790 114</b> | 10 | -  | 0.432 | 5         | 131       | 150        | 66        | 12         |
| 160       | 150        | 16 | <b>723 790 117</b> | 2  | -  | 1.200 | 5         | 188       | 213        | 91        | 16         |
| 225       | 200        | 10 | <b>723 790 120</b> | 2  | -  | 1.900 | 6         | 248       | 274        | 125       | 25         |

# Blanking flange PP-H

27 70 06



## Blanking flange set PP-H

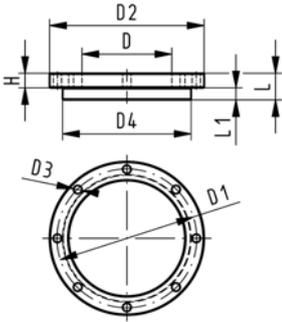
### Combined jointing face flat and serrated metric

**Model:**

- d63 - d315: Backing Flange PP-V with End Blank PP-H
- d355 - d630: Backing Flange PP/Steel with End Blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

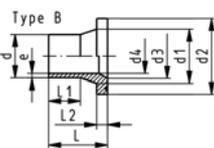
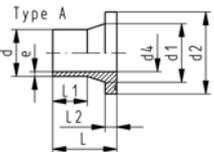
AL: number of holes

L: length of the End Blank



| d<br>[mm] | DN<br>[mm] | PN | Code               | kg     | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | D4<br>[mm] | H<br>[mm] | L<br>[mm] | L1<br>[mm] | AL |
|-----------|------------|----|--------------------|--------|-----------|------------|------------|------------|------------|-----------|-----------|------------|----|
| 63        | 50         | 10 | <b>727 700 611</b> | 0.668  | 75        | 125        | 165        | 18         | 102        | 24        | 30        | 14         | 4  |
| 75        | 65         | 10 | <b>727 700 612</b> | 0.901  | 89        | 145        | 185        | 18         | 122        | 26        | 30        | 16         | 4  |
| 90        | 80         | 10 | <b>727 700 613</b> | 1.054  | 105       | 160        | 200        | 18         | 138        | 27        | 30        | 17         | 8  |
| 110       | 100        | 10 | <b>727 700 614</b> | 1.199  | 125       | 180        | 220        | 18         | 158        | 28        | 30        | 18         | 8  |
| 125       | 100        | 10 | <b>727 700 615</b> | 1.658  | 132       | 180        | 220        | 18         | 158        | 28        | 35        | 25         | 8  |
| 140       | 125        | 10 | <b>727 700 616</b> | 1.883  | 155       | 210        | 250        | 18         | 188        | 30        | 40        | 25         | 8  |
| 160       | 150        | 10 | <b>727 700 617</b> | 2.312  | 175       | 240        | 285        | 22         | 212        | 32        | 40        | 25         | 8  |
| 180       | 150        | 10 | <b>727 700 618</b> | 2.386  | 180       | 240        | 285        | 22         | 212        | 32        | 45        | 30         | 8  |
| 200       | 200        | 10 | <b>727 700 619</b> | 3.419  | 232       | 295        | 340        | 22         | 268        | 34        | 50        | 32         | 8  |
| 225       | 200        | 10 | <b>727 700 620</b> | 3.658  | 235       | 295        | 340        | 22         | 268        | 34        | 50        | 32         | 8  |
| 250       | 250        | 10 | <b>727 700 621</b> | 5.425  | 285       | 350        | 395        | 22         | 320        | 38        | 55        | 35         | 12 |
| 280       | 250        | 10 | <b>727 700 622</b> | 19.781 | 291       | 350        | 395        | 22         | 320        | 38        | 60        | 35         | 12 |
| 315       | 300        | 10 | <b>727 700 623</b> | 24.348 | 335       | 400        | 445        | 22         | 370        | 42        | 65        | 35         | 12 |
| 355       | 350        | 10 | <b>727 700 624</b> | 22.874 | 373       | 460        | 515        | 22         | 430        | 40        | 70        | 40         | 16 |
| 400       | 400        | 10 | <b>727 700 625</b> | 30.304 | 427       | 515        | 574        | 26         | 482        | 40        | 75        | 46         | 16 |
| 450       | 500        | 10 | <b>727 700 626</b> | 43.485 | 510       | 620        | 684        | 26         | 585        | 49        | 80        | 60         | 20 |
| 500       | 500        | 10 | <b>727 700 627</b> | 46.203 | 530       | 620        | 684        | 26         | 585        | 49        | 90        | 60         | 20 |
| 560       | 600        | 10 | <b>727 700 628</b> | 65.823 | 615       | 725        | 796        | 30         | 685        | 58        | 100       | 60         | 20 |
| 630       | 600        | 10 | <b>727 700 629</b> | 67.056 | 642       | 725        | 796        | 30         | 685        | 58        | 110       | 60         | 20 |

27 79 87



## PROGEF Standard flange adaptor S5/SDR11

### Combined jointing face: flat and serrated

**Model:**

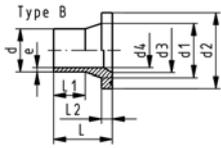
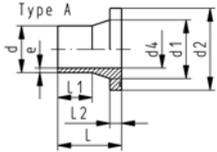
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (**from d110 also to ANSI/ASME B16.5**)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

**\* Type B with chamfer**

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    |
|-----------|------------|----|--------------------|----|----|-------|
| * 75      | 65         | IR | <b>727 798 712</b> | 10 | -  | 0.243 |
| * 90      | 80         | IR | <b>727 798 713</b> | 12 | -  | 0.326 |
| * 110     | 100        | IR | <b>727 798 714</b> | 8  | -  | 0.441 |
| * 140     | 125        | IR | <b>727 798 716</b> | 10 | -  | 0.800 |
| * 160     | 150        | IR | <b>727 798 717</b> | 4  | -  | 0.920 |
| * 180     | 150        | IR | <b>727 798 718</b> | 2  | -  | 0.900 |
| * 200     | 200        | IR | <b>727 798 719</b> | 2  | -  | 1.670 |
| * 225     | 200        | IR | <b>727 798 720</b> | 2  | -  | 1.700 |

| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 75      | 65         | 89         | 122        | 66         | 61         | 80        | 43         | 16         | 6.9       |
| * 90      | 80         | 105        | 138        | 78         | 73         | 80        | 41         | 17         | 8.2       |
| * 110     | 100        | 125        | 158        | 100        | 90         | 80        | 40         | 18         | 10.0      |
| * 140     | 125        | 155        | 188        | 127        | 114        | 89        | 39         | 25         | 12.8      |
| * 160     | 150        | 175        | 212        | 151        | 131        | 92        | 45         | 25         | 14.6      |

table continued next page



| d<br>[mm] | DN<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| * 180     | 150        | 180        | 212        | 154        | 147        | 80        | 45         | 30         | 16.4      |
| * 200     | 200        | 232        | 268        | 203        | 163        | 100       | 30         | 32         | 18.2      |
| * 225     | 200        | 235        | 268        | 210        | 184        | 100       | 35         | 32         | 20.5      |



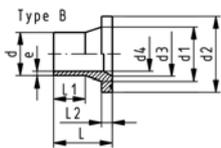
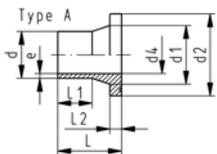
## PROGEF Standard flange adaptor S8.3/SDR17.6 Combined jointing face: flat and serrated

### Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

### \* Type B with chamfer

| d<br>[mm] | DN<br>[mm] | FM | Code               | SP | GP | kg    |
|-----------|------------|----|--------------------|----|----|-------|
| 63        | 50         | IR | <b>727 798 786</b> | 30 | -  | 0.100 |
| 75        | 65         | IR | <b>727 798 787</b> | 10 | -  | 0.203 |
| 90        | 80         | IR | <b>727 798 788</b> | 12 | -  | 0.273 |
| 110       | 100        | IR | <b>727 798 789</b> | 8  | -  | 0.363 |
| * 125     | 100        | IR | <b>727 798 790</b> | 2  | -  | 0.335 |
| * 140     | 125        | IR | <b>727 798 791</b> | 10 | -  | 0.499 |
| * 160     | 150        | IR | <b>727 798 792</b> | 4  | -  | 0.770 |



| d<br>[mm] | d1<br>[mm] | d2<br>[mm] | d3<br>[mm] | d4<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | e<br>[mm] |
|-----------|------------|------------|------------|------------|-----------|------------|------------|-----------|
| 63        | 75         | 102        |            | 53         | 50        | 16         | 14         | 3.6       |
| 75        | 89         | 122        |            | 65         | 80        | 43         | 16         | 4.3       |
| 90        | 105        | 138        |            | 78         | 80        | 41         | 17         | 5.1       |
| 110       | 125        | 158        |            | 96         | 80        | 40         | 18         | 6.3       |
| * 125     | 132        | 158        | 114        | 107        | 80        | 42         | 18         | 7.4       |
| * 140     | 155        | 188        | 127        | 120        | 80        | 34         | 18         | 8.0       |
| * 160     | 175        | 212        | 158        | 142        | 92        | 45         | 25         | 9.1       |

# Backing flanges PP-Steel

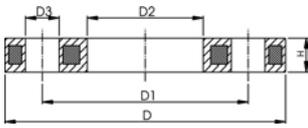
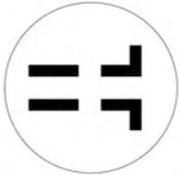
27 70 02  
27 70 03

## Backing flange PP-Steel For butt fusion systems metric

### Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d<br>[mm] | DN<br>[mm] | PN | Code               | kg     | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------------|----|--------------------|--------|-----------|------------|------------|------------|-----------|----|-----|
| 90        | 80         | 16 | <b>727 700 313</b> | 1.400  | 200       | 160        | 108        | 18         | 20        | 8  | M16 |
| 110       | 100        | 16 | <b>727 700 314</b> | 1.580  | 220       | 180        | 128        | 18         | 20        | 8  | M16 |
| 125       | 100        | 16 | <b>727 700 315</b> | 1.550  | 220       | 180        | 135        | 18         | 20        | 8  | M16 |
| 140       | 125        | 16 | <b>727 700 316</b> | 2.360  | 250       | 210        | 158        | 18         | 24        | 8  | M16 |
| 160       | 150        | 16 | <b>727 700 317</b> | 3.890  | 285       | 240        | 178        | 22         | 24        | 8  | M20 |
| 180       | 150        | 16 | <b>727 700 318</b> | 3.410  | 285       | 240        | 188        | 22         | 24        | 8  | M20 |
| 200       | 200        | 16 | <b>727 700 319</b> | 5.180  | 340       | 295        | 235        | 22         | 27        | 8  | M20 |
| 225       | 200        | 16 | <b>727 700 320</b> | 5.150  | 340       | 295        | 238        | 22         | 27        | 8  | M20 |
| 250       | 250        | 16 | <b>727 700 321</b> | 6.680  | 395       | 350        | 288        | 22         | 30        | 12 | M20 |
| 280       | 250        | 16 | <b>727 700 322</b> | 6.580  | 395       | 350        | 294        | 22         | 30        | 12 | M20 |
| 315       | 300        | 16 | <b>727 700 323</b> | 8.420  | 445       | 400        | 338        | 22         | 34        | 12 | M20 |
| 355       | 350        | 16 | <b>727 700 324</b> | 15.790 | 515       | 460        | 376        | 22         | 40        | 16 | M20 |
| 400       | 400        | 16 | <b>727 700 325</b> | 19.320 | 574       | 515        | 430        | 26         | 40        | 16 | M24 |

27 70 02

## Backing flange PP-Steel For socket systems metric

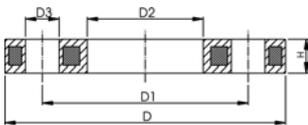
### Model:

- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

<sup>1</sup> Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100

<sup>2</sup> Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

AL: number of holes



| d<br>[mm]        | DN<br>[mm] | PN | Code               | kg     | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|------------------|------------|----|--------------------|--------|-----------|------------|------------|------------|-----------|----|-----|
| 20               | 15         | 16 | <b>727 700 206</b> | 0.220  | 95        | 65         | 28         | 14         | 12        | 4  | M12 |
| 25               | 20         | 16 | <b>727 700 207</b> | 0.260  | 105       | 75         | 34         | 14         | 12        | 4  | M12 |
| 32               | 25         | 16 | <b>727 700 208</b> | 0.430  | 115       | 85         | 42         | 14         | 16        | 4  | M12 |
| 40               | 32         | 16 | <b>727 700 209</b> | 0.650  | 140       | 100        | 51         | 18         | 16        | 4  | M16 |
| 50               | 40         | 16 | <b>727 700 210</b> | 0.820  | 150       | 110        | 62         | 18         | 20        | 4  | M16 |
| 63               | 50         | 16 | <b>727 700 211</b> | 0.940  | 165       | 125        | 78         | 18         | 20        | 4  | M16 |
| 75               | 65         | 16 | <b>727 700 212</b> | 1.300  | 185       | 145        | 92         | 18         | 20        | 4  | M16 |
| 90               | 80         | 16 | <b>727 700 213</b> | 1.400  | 200       | 160        | 110        | 18         | 20        | 8  | M16 |
| 110              | 100        | 16 | <b>727 700 214</b> | 1.560  | 220       | 180        | 133        | 18         | 20        | 8  | M16 |
| <sup>1</sup> 125 | 125        | 16 | <b>727 700 215</b> | 2.590  | 250       | 210        | 150        | 18         | 24        | 8  | M16 |
| 140              | 125        | 16 | <b>727 700 216</b> | 2.120  | 250       | 210        | 167        | 18         | 24        | 8  | M16 |
| 160              | 150        | 16 | <b>727 700 217</b> | 3.390  | 285       | 240        | 190        | 22         | 24        | 8  | M20 |
| 200              | 200        | 16 | <b>727 700 219</b> | 5.850  | 340       | 295        | 226        | 22         | 27        | 8  | M20 |
| 225              | 200        | 16 | <b>727 700 220</b> | 4.410  | 340       | 295        | 250        | 22         | 27        | 8  | M20 |
| <sup>2</sup> 250 | 225        | 16 | <b>727 700 221</b> | 8.340  | 395       | 325        | 277        | 22         | 30        | 8  | M20 |
| 280              | 250        | 16 | <b>727 700 222</b> | 5.520  | 395       | 350        | 310        | 22         | 30        | 12 | M20 |
| 315              | 300        | 16 | <b>727 700 223</b> | 7.600  | 445       | 400        | 348        | 22         | 34        | 12 | M20 |
| 355              | 350        | 16 | <b>727 700 224</b> | 13.960 | 515       | 460        | 388        | 23         | 40        | 16 | M20 |
| 400              | 400        | 16 | <b>727 700 225</b> | 17.380 | 574       | 515        | 442        | 26         | 40        | 16 | M24 |

# Backing flanges PP-V

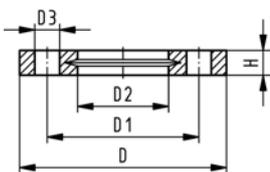
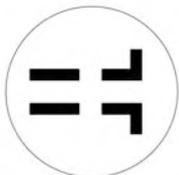
27 70 04  
27 70 05

## Backing flange PP-V For butt fusion systems metric

### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d<br>[mm] | Inch | DN<br>[mm] | PN | Code        | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------|------------|----|-------------|----|----|-------|-----------|------------|------------|------------|-----------|----|-----|
| 20        |      | 15         | 16 | 727 700 406 | 56 | -  | 0.080 | 95        | 65         | 28         | 14         | 16        | 4  | M12 |
| 25        |      | 20         | 16 | 727 700 407 | 38 | -  | 0.100 | 105       | 75         | 34         | 14         | 17        | 4  | M12 |
| 32        |      | 25         | 16 | 727 700 408 | 80 | -  | 0.140 | 115       | 85         | 42         | 14         | 18        | 4  | M12 |
| 40        |      | 32         | 16 | 727 700 409 | 40 | -  | 0.220 | 140       | 100        | 51         | 18         | 20        | 4  | M16 |
| 50        |      | 40         | 16 | 727 700 410 | 30 | -  | 0.210 | 150       | 110        | 62         | 18         | 22        | 4  | M16 |
| 63        |      | 50         | 16 | 727 700 411 | 25 | -  | 0.380 | 165       | 125        | 78         | 18         | 24        | 4  | M16 |
| 75        |      | 65         | 16 | 727 700 412 | 19 | -  | 0.480 | 185       | 145        | 92         | 18         | 26        | 4  | M16 |
| 90        |      | 80         | 16 | 727 700 513 | 15 | -  | 0.520 | 200       | 160        | 108        | 18         | 27        | 8  | M16 |
| 110       |      | 100        | 16 | 727 700 514 | 13 | -  | 0.680 | 220       | 180        | 128        | 18         | 28        | 8  | M16 |
| 125       |      | 100        | 16 | 727 700 515 | 13 | -  | 0.760 | 220       | 180        | 135        | 18         | 28        | 8  | M16 |
| 140       |      | 125        | 16 | 727 700 516 | 10 | -  | 0.800 | 250       | 210        | 158        | 18         | 30        | 8  | M16 |
| 160       | 6    | 150        | 16 | 727 700 517 | -  | -  | 1.200 | 285       | 241        | 178        | 22         | 32        | 8  | M20 |
| 180       |      | 150        | 16 | 727 700 518 | -  | -  | 1.200 | 285       | 240        | 188        | 22         | 32        | 8  | M20 |
| 200       | 8    | 200        | 16 | 727 700 519 | -  | -  | 1.400 | 340       | 295        | 235        | 22         | 34        | 8  | M20 |
| 225       | 9    | 200        | 16 | 727 700 520 | -  | -  | 1.400 | 340       | 295        | 238        | 22         | 34        | 8  | M20 |
| 250       |      | 250        | 16 | 727 700 521 | -  | -  | 1.700 | 395       | 350        | 288        | 22         | 38        | 12 | M20 |
| 280       |      | 250        | 16 | 727 700 522 | -  | -  | 1.700 | 395       | 350        | 294        | 22         | 38        | 12 | M20 |
| 315       |      | 300        | 16 | 727 700 523 | -  | -  | 2.400 | 445       | 400        | 338        | 22         | 42        | 12 | M20 |

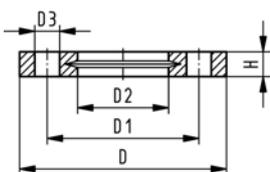
27 70 04  
27 70 05

## Backing flange PP-V For socket systems metric

### Model:

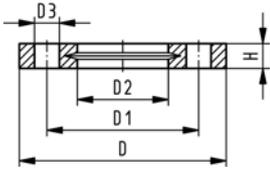
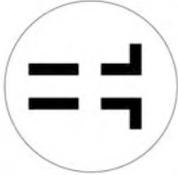
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d<br>[mm] | Inch | DN<br>[mm] | PN | Code        | SP | GP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------|------------|----|-------------|----|----|-------|-----------|------------|------------|------------|-----------|----|-----|
| 20        |      | 15         | 16 | 727 700 406 | 56 | -  | 0.080 | 95        | 65         | 28         | 14         | 16        | 4  | M12 |
| 25        |      | 20         | 16 | 727 700 407 | 38 | -  | 0.100 | 105       | 75         | 34         | 14         | 17        | 4  | M12 |
| 32        |      | 25         | 16 | 727 700 408 | 80 | -  | 0.140 | 115       | 85         | 42         | 14         | 18        | 4  | M12 |
| 40        |      | 32         | 16 | 727 700 409 | 40 | -  | 0.220 | 140       | 100        | 51         | 18         | 20        | 4  | M16 |
| 50        |      | 40         | 16 | 727 700 410 | 30 | -  | 0.210 | 150       | 110        | 62         | 18         | 22        | 4  | M16 |
| 63        |      | 50         | 16 | 727 700 411 | 25 | -  | 0.380 | 165       | 125        | 78         | 18         | 24        | 4  | M16 |
| 75        |      | 65         | 16 | 727 700 412 | 19 | -  | 0.480 | 185       | 145        | 92         | 18         | 26        | 4  | M16 |
| 90        |      | 80         | 16 | 727 700 413 | 15 | -  | 0.520 | 200       | 160        | 110        | 18         | 27        | 8  | M16 |
| 110       |      | 100        | 16 | 727 700 414 | 13 | -  | 0.680 | 220       | 180        | 133        | 18         | 28        | 8  | M16 |
| 140       |      | 125        | 16 | 727 700 416 | 10 | -  | 0.800 | 250       | 210        | 167        | 18         | 30        | 8  | M16 |
| 160       | 6    | 150        | 16 | 727 700 417 | -  | -  | 1.200 | 285       | 241        | 190        | 22         | 32        | 8  | M20 |
| 200       |      | 200        | 16 | 727 700 419 | -  | -  | 1.500 | 340       | 296        | 226        | 22         | 34        | 8  | M20 |
| 225       | 8    | 200        | 16 | 727 700 420 | -  | -  | 1.400 | 340       | 295        | 250        | 22         | 34        | 8  | M20 |
| 250       |      | 250        | 16 | 727 700 421 | -  | -  | 1.700 | 395       | 350        | 277        | 22         | 38        | 12 | M20 |
| 280       |      | 250        | 16 | 727 700 422 | -  | -  | 1.700 | 395       | 350        | 310        | 22         | 38        | 12 | M20 |
| 315       |      | 300        | 16 | 727 700 423 | -  | -  | 2.400 | 445       | 400        | 348        | 22         | 42        | 12 | M20 |
| 355       |      | 350        | 10 | 727 700 424 | -  | -  | 3.000 | 515       | 460        | 388        | 22         | 46        | 16 | M20 |
| 400       |      | 400        | 10 | 727 700 425 | -  | -  | 3.500 | 574       | 515        | 442        | 26         | 50        | 16 | M24 |

27 70 14  
27 70 15



## Backing flange PP-V For butt fusion systems Inch ANSI

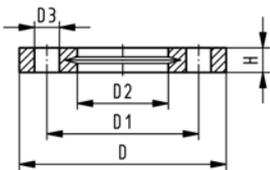
### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

<sup>1)</sup> Suitable for socket- and butt fusion systems (no pictograph on flange)  
AL: number of holes

| Inch  | DN<br>[mm] | PN | Code        | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-------|------------|----|-------------|-------|-----------|------------|------------|------------|-----------|----|-----|
| 1/2   | 15         | 16 | 727 701 406 | 0.080 | 95        | 60         | 28         | 16         | 16        | 4  | M12 |
| 3/4   | 20         | 16 | 727 701 407 | 0.100 | 105       | 70         | 34         | 16         | 17        | 4  | M12 |
| 1     | 25         | 16 | 727 701 408 | 0.140 | 115       | 79         | 42         | 16         | 18        | 4  | M12 |
| 1 1/4 | 32         | 16 | 727 701 409 | 0.220 | 140       | 89         | 51         | 16         | 20        | 4  | M16 |
| 1 1/2 | 40         | 16 | 727 701 410 | 0.210 | 150       | 98         | 62         | 16         | 22        | 4  | M16 |
| 2     | 50         | 16 | 727 701 411 | 0.380 | 165       | 121        | 78         | 19         | 24        | 4  | M16 |
| 2 1/2 | 65         | 16 | 727 701 412 | 0.480 | 185       | 140        | 92         | 19         | 26        | 4  | M16 |
| 3     | 80         | 16 | 727 701 513 | 0.520 | 200       | 152        | 108        | 19         | 27        | 4  | M16 |
| 4     | 100        | 16 | 727 701 514 | 0.680 | 229       | 190        | 128        | 19         | 28        | 8  | M16 |
| 6     | 150        | 16 | 727 700 517 | 1.200 | 285       | 241        | 178        | 22         | 32        | 8  | M20 |
| 8     | 200        | 16 | 727 700 519 | 1.400 | 340       | 295        | 235        | 22         | 34        | 8  | M20 |
| 9     | 200        | 16 | 727 700 520 | 1.400 | 340       | 295        | 238        | 22         | 34        | 8  | M20 |
| 10    | 250        | 16 | 727 701 521 | 1.800 | 406       | 362        | 288        | 26         | 38        | 12 | M20 |
| 10    | 250        | 16 | 727 701 522 | 1.700 | 406       | 362        | 294        | 26         | 38        | 12 | M20 |
| 12    | 300        | 16 | 727 701 523 | 2.400 | 483       | 432        | 338        | 26         | 42        | 12 | M20 |

27 70 14  
27 70 15



## Backing flange PP-V For socket systems Inch/ANSI

### Model:

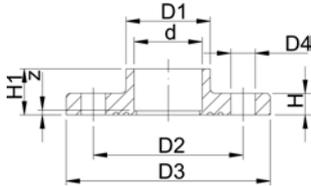
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

<sup>1)</sup> Suitable for socket- and butt fusion systems (no pictograph on flange)  
AL: number of holes

| Inch  | DN<br>[mm] | PN | Code        | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-------|------------|----|-------------|-------|-----------|------------|------------|------------|-----------|----|-----|
| 1/2   | 15         | 16 | 727 701 406 | 0.080 | 95        | 60         | 28         | 16         | 16        | 4  | M12 |
| 3/4   | 20         | 16 | 727 701 407 | 0.100 | 105       | 70         | 34         | 16         | 17        | 4  | M12 |
| 1     | 25         | 16 | 727 701 408 | 0.140 | 115       | 79         | 42         | 16         | 18        | 4  | M12 |
| 1 1/4 | 32         | 16 | 727 701 409 | 0.220 | 140       | 89         | 51         | 16         | 20        | 4  | M16 |
| 1 1/2 | 40         | 16 | 727 701 410 | 0.210 | 150       | 98         | 62         | 16         | 22        | 4  | M16 |
| 2     | 50         | 16 | 727 701 411 | 0.380 | 165       | 121        | 78         | 19         | 24        | 4  | M16 |
| 2 1/2 | 65         | 16 | 727 701 412 | 0.480 | 185       | 140        | 92         | 19         | 26        | 4  | M16 |
| 3     | 80         | 16 | 727 701 413 | 0.520 | 200       | 152        | 110        | 19         | 27        | 4  | M16 |
| 4     | 100        | 16 | 727 701 414 | 0.680 | 229       | 190        | 133        | 19         | 28        | 8  | M16 |
| 6     | 150        | 16 | 727 700 417 | 1.200 | 285       | 241        | 190        | 22         | 32        | 8  | M20 |
| 8     | 200        | 16 | 727 700 420 | 1.400 | 340       | 295        | 250        | 22         | 34        | 8  | M20 |
| 10    | 250        | 16 | 727 701 422 | 1.700 | 406       | 362        | 310        | 26         | 38        | 12 | M20 |
| 12    | 300        | 16 | 727 701 423 | 2.400 | 483       | 432        | 348        | 26         | 42        | 12 | M20 |

# Fixed flanges PVC-U JIS

## Fixed flange PVC-U Jointing face serrated JIS



### Model:

- Solvent cement socket JIS
- Connecting dimensions: JIS B 2220, 10K

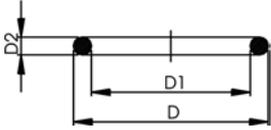
AL: number of holes

| DN<br>[mm] | Inch  | PN | Code               | SP | GP | kg    |
|------------|-------|----|--------------------|----|----|-------|
| 20         | 3/4   | 16 | <b>161 481 552</b> | -  | -  | 0.137 |
| 2          | 16    | 16 | <b>161 481 553</b> | -  | -  | 0.217 |
| 32         | 1 1/4 | 16 | <b>161 481 554</b> | -  | -  | 0.317 |
| 40         | 1 1/2 | 16 | <b>161 481 555</b> | -  | -  | 0.380 |
| 50         | 2     | 16 | <b>161 481 556</b> | -  | -  | 0.480 |

| DN<br>[mm] | z<br>[mm] | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | H1<br>[mm] | AL | SC  |
|------------|-----------|-----------|------------|------------|------------|-----------|------------|----|-----|
| 20         | 3         | 100       | 75         | 33         | 15         | 13        | 22         | 4  | M12 |
| 2          | 3         | 125       | 90         | 41         | 19         | 15        | 25         | 4  | M12 |
| 32         | 3         | 135       | 100        | 51         | 19         | 17        | 29         | 4  | M16 |
| 40         | 3         | 140       | 105        | 62         | 19         | 18        | 34         | 4  | M16 |
| 50         | 3         | 155       | 120        | 77         | 19         | 20        | 41         | 4  | M16 |

# Seals

EPDM 48 41 00  
FPM 49 41 00



## O-Ring gasket

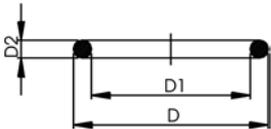
### Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

\* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

| d<br>[mm] | DN<br>[mm] | EPDM<br>Code | FPM<br>Code | SP  | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] |
|-----------|------------|--------------|-------------|-----|-------|-----------|------------|------------|
| 10 - 12   | 8          | 748 410 004  | 749 410 004 | -   | 0.002 | 18        | 12         | 2.62       |
| 16        | 10         | 748 410 005  | 749 410 005 | -   | 0.002 | 21        | 16         | 2.62       |
| 20        | 15         | 748 410 006  | 749 410 006 | -   | 0.002 | 27        | 20         | 3.53       |
| 25        | 20         | 748 410 007  | 749 410 007 | 100 | 0.002 | 35        | 28         | 3.53       |
| 32        | 25         | 748 410 008  | 749 410 008 | 100 | 0.002 | 40        | 33         | 3.53       |
| 40        | 32         | 748 410 009  | 749 410 009 | -   | 0.006 | 51        | 41         | 5.34       |
| 50        | 40         | 748 410 010  | 749 410 010 | -   | 0.007 | 58        | 47         | 5.34       |
| 63        | 50         | 748 410 011  | 749 410 011 | 100 | 0.010 | 70        | 60         | 5.34       |
| 75        | 65         | 748 410 014  | 749 410 014 | 100 | 0.012 | 93        | 82         | 5.34       |
| 90        | 80         | 748 410 015  | 749 410 015 | 100 | 0.015 | 112       | 101        | 5.34       |
| 110       | 100        | 748 410 016  | 749 410 016 | 50  | 0.031 | 134       | 120        | 6.99       |

EPDM 48 41 01  
FPM 49 41 01

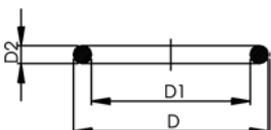


## O-Ring gasket

### Model:

- For Flange Adaptors
- Hardness approx. 65° Shore

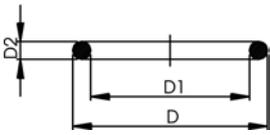
| d<br>[mm] | DN<br>[mm] | EPDM<br>Code | FPM<br>Code | SP  | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] |
|-----------|------------|--------------|-------------|-----|-------|-----------|------------|------------|
| 16        | 10         | 748 410 000  | 749 410 000 | -   | 0.002 | 26        | 19         | 3.53       |
| 20        | 15         | 748 410 001  | 749 410 001 | 100 | 0.002 | 31        | 23         | 3.53       |
| 25        | 20         | 748 410 007  | 749 410 007 | 100 | 0.002 | 35        | 28         | 3.53       |
| 32        | 25         | 748 410 002  | 749 410 002 | 100 | 0.003 | 43        | 36         | 3.53       |
| 40        | 32         | 748 410 003  | 749 410 003 | -   | 0.007 | 55        | 44         | 5.34       |
| 50        | 40         | 748 410 012  | 749 410 012 | 100 | 0.008 | 64        | 53         | 5.34       |
| 63        | 50         | 748 410 013  | 749 410 013 | 100 | 0.011 | 80        | 69         | 5.34       |
| 75        | 65         | 748 410 014  | 749 410 014 | 100 | 0.012 | 93        | 82         | 5.34       |
| 90        | 80         | 748 410 015  | 749 410 015 | 100 | 0.015 | 112       | 101        | 5.34       |
| 110       | 100        | 748 410 016  | 749 410 016 | 50  | 0.031 | 134       | 120        | 6.99       |
| 125       | 100        | 748 410 017  | 749 410 017 | 200 | 0.036 | 150       | 136        | 6.99       |
| 140       | 125        | 748 410 018  | 749 410 018 | 200 | 0.039 | 166       | 152        | 6.99       |
| 160       | 150        | 748 410 019  | 749 410 019 | 200 | 0.044 | 191       | 177        | 6.99       |
| 200       | 200        | 748 410 163  | 749 410 163 | -   | 0.056 | 236       | 222        | 6.99       |
| 225       | 200        | 748 410 022  | 749 410 022 | 150 | 0.060 | 255       | 241        | 6.99       |
| 250       | 250        | 748 410 182  | 749 410 182 | -   | 0.003 | 280       | 266        | 6.99       |
| 280       | 250        | 748 410 173  | 749 410 173 | -   | 0.044 | 306       | 292        | 6.99       |
| 315       | 300        | 748 410 174  | 749 410 174 | -   | 0.051 | 356       | 342        | 6.99       |



## O-Ring gasket Union end seal

| d<br>[mm] | EPDM<br>Code | FPM<br>Code | SP  | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] |
|-----------|--------------|-------------|-----|-------|-----------|------------|------------|
| 20        | 748 410 038  | 749 410 038 | -   | 0.002 | 27        | 23         | 2.00       |
| 25        | 748 410 044  | 749 410 044 | -   | 0.003 | 33        | 28         | 2.50       |
| 32        | 748 410 195  | 749 410 195 | -   | 0.003 | 41        | 36         | 2.50       |
| 40        | 748 410 052  | 749 410 052 | 100 | 0.003 | 52        | 45         | 3.50       |
| 50        | 748 410 134  | 749 410 134 | -   | 0.003 | 58        | 52         | 3.00       |
| 63        | 748 410 135  | 749 410 135 | -   | 0.003 | 73        | 66         | 3.53       |

## O-Ring gasket



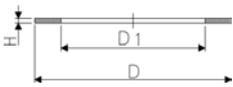
| d<br>[mm] | DN<br>[mm] | EPDM<br>Code | FPM<br>Code | SP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] |
|-----------|------------|--------------|-------------|----|-------|-----------|------------|------------|
| 75        | 65         |              | 749 410 119 | -  | 0.010 | 83        | 72         | 5.34       |
| 90        | 80         | 748 410 112  | 749 410 112 | -  | 0.070 | 96        | 85         | 5.34       |
| 110       | 100        | 748 410 099  | 749 410 099 | -  | 0.015 | 118       | 107        | 5.34       |
| 160       | 150        | -            | -           | -  | -     | -         | -          | -          |

EPDM 48 40 00  
FPM 49 40 00

## Flat gasket

Model:

- Hardness approx. 65° Shore
- For adaptor unions



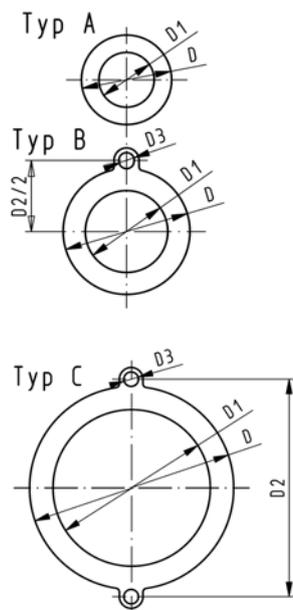
| d<br>[mm] | Inch | EPDM<br>Code | FPM<br>Code | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] |
|-----------|------|--------------|-------------|-------|-----------|------------|-----------|
| 12        | ¼    | 748 400 004  | -           | 0.002 | 20        | 13         | 2         |
| 16        | ⅜    | 748 400 005  | 749 400 005 | 0.002 | 24        | 17         | 2         |
| 20        | ½    | 748 400 006  | 749 400 006 | 0.003 | 30        | 21         | 3         |
| 25        | ¾    | 748 400 007  | 749 400 007 | 0.004 | 38        | 27         | 3         |
| 32        | 1    | 748 400 008  | 749 400 008 | 0.002 | 44        | 32         | 3         |
| 40        | 1 ¼  | 748 400 009  | 749 400 009 | 0.003 | 55        | 42         | 3         |
| 50        | 1 ½  | 748 400 010  | 749 400 010 | 0.004 | 62        | 46         | 3         |
| 63        | 2    | 748 400 011  | 749 400 011 | 0.006 | 78        | 60         | 3         |
| 75        | 2 ½  | 748 400 012  | 749 400 012 | 0.009 | 97        | 75         | 3         |
| 90        | 3    | 748 400 013  | 749 400 013 | 0.011 | 109       | 88         | 3         |

EPDM 48 40 03

## Flat gasket

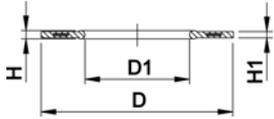
Model:

- For all metric GF Flange Adaptors
  - Hardness approx. 65° Shore
  - Integrated fixation aids from d110
  - Centering on the inner diameter of the screw crown
- di FA are the suitable inner diameters of flange adaptors



| d<br>[mm] | DN<br>[mm] | PN | Type | EPDM<br>Code | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | di FA<br>[mm] |
|-----------|------------|----|------|--------------|-------|-----------|------------|------------|------------|-----------|---------------|
| 16        | 10         | 10 | A    | 748 400 305  | 0.005 | 46        | 16         |            |            | 2         | 6 - 26        |
| 20        | 15         | 10 | A    | 748 400 306  | 0.010 | 51        | 20         |            |            | 2         | 10 - 30       |
| 25        | 20         | 10 | A    | 748 400 307  | 0.020 | 61        | 25         |            |            | 2         | 15 - 35       |
| 32        | 25         | 10 | A    | 748 400 308  | 0.025 | 71        | 32         |            |            | 2         | 22 - 42       |
| 40        | 32         | 10 | A    | 748 400 309  | 0.030 | 82        | 40         |            |            | 3         | 30 - 50       |
| 50        | 40         | 10 | A    | 748 400 310  | 0.035 | 92        | 50         |            |            | 3         | 40 - 60       |
| 63        | 50         | 10 | A    | 748 400 311  | 0.040 | 107       | 63         |            |            | 3         | 53 - 73       |
| 75        | 65         | 10 | A    | 748 400 312  | 0.045 | 127       | 71         |            |            | 3         | 61 - 81       |
| 90        | 80         | 10 | A    | 748 400 313  | 0.050 | 142       | 84         |            |            | 3         | 74 - 94       |
| 110       | 100        | 10 | B    | 748 400 314  | 0.032 | 162       | 104        | 180        | 18         | 4         | 94 - 114      |
| 125       | 100        | 10 | B    | 748 400 315  | 0.058 | 162       | 119        | 180        | 18         | 4         | 109 - 129     |
| 140       | 125        | 10 | B    | 748 400 316  | 0.062 | 192       | 134        | 210        | 18         | 4         | 124 - 144     |
| 160 / 180 | 150        | 10 | B    | 748 400 317  | 0.068 | 218       | 155        | 241        | 22         | 4         | 145 - 165     |
| 200       | 200        | 6  | C    | 748 400 319  | 0.075 | 273       | 195        | 295        | 22         | 5         | 185 - 205     |
| 225       | 200        | 6  | C    | 748 400 320  | 0.079 | 273       | 216        | 295        | 22         | 5         | 206 - 226     |
| 250       | 250        | 6  | C    | 748 400 321  | 0.103 | 328       | 250        | 350        | 22         | 5         | 240 - 260     |
| 280       | 250        | 6  | C    | 748 400 322  | 0.150 | 328       | 273        | 350        | 22         | 5         | 263 - 283     |
| 315       | 300        | 6  | C    | 748 400 323  | 0.230 | 378       | 305        | 400        | 22         | 5         | 295 - 315     |

EPDM 48 44 07  
FPM 49 44 07



## Profile flange gasket metric

### Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- **EPDM**: approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors

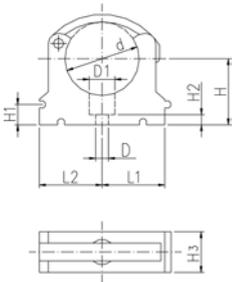
| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code | FPM<br>Code | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] | H1<br>[mm] | di FA<br>[mm] |
|-----------|------------|----|--------------|-------------|-------|-----------|------------|-----------|------------|---------------|
| 20        | 15         | 16 | 748 440 706  | 749 440 706 | 0.008 | 51        | 20         | 4         | 3          | 10 - 20       |
| 25        | 20         | 16 | 748 440 707  | 749 440 707 | 0.011 | 61        | 22         | 4         | 3          | 12 - 22       |
| 32        | 25         | 16 | 748 440 708  | 749 440 708 | 0.014 | 71        | 28         | 4         | 3          | 18 - 28       |
| 40        | 32         | 16 | 748 440 709  | 749 440 709 | 0.021 | 82        | 40         | 4         | 3          | 30 - 40       |
| 50        | 40         | 16 | 748 440 710  | 749 440 710 | 0.022 | 92        | 46         | 4         | 3          | 36 - 46       |
| 63        | 50         | 16 | 748 440 711  | 749 440 711 | 0.041 | 107       | 58         | 5         | 4          | 48 - 58       |
| 75        | 65         | 16 | 748 440 712  | 749 440 712 | 0.055 | 127       | 69         | 5         | 4          | 59 - 69       |
| 90        | 80         | 16 | 748 440 713  | 749 440 713 | 0.062 | 142       | 84         | 5         | 4          | 73 - 84       |
| 110       | 100        | 16 | 748 440 714  | 749 440 714 | 0.085 | 162       | 104        | 6         | 5          | 94 - 104      |
| 125       | 100        | 16 | 748 440 715  | 749 440 715 | 0.158 | 162       | 123        | 6         | 5          | 113 - 123     |
| 140       | 125        | 16 | 748 440 716  | 749 440 716 | 0.118 | 192       | 137        | 6         | 5          | 127 - 137     |
| 160 / 180 | 150        | 16 | 748 440 717  | 749 440 717 | 0.153 | 218       | 160        | 8         | 6          | 150 - 160     |
| 200       | 200        | 16 | 748 440 719  | 749 440 719 | 0.263 | 273       | 203        | 8         | 6          | 192 - 203     |
| 225       | 200        | 16 | 748 440 720  | 749 440 720 | 0.181 | 273       | 220        | 8         | 6          | 207 - 220     |
| 250       | 250        | 16 | 748 440 721  | 749 440 721 | 0.410 | 328       | 252        | 8         | 6          | 238 - 252     |
| 280       | 250        | 16 | 748 440 722  | 749 440 722 | 0.226 | 328       | 274        | 8         | 6          | 264 - 274     |
| 315       | 300        | 16 | 748 440 723  | 749 440 723 | 0.334 | 378       | 306        | 8         | 6          | 296 - 306     |
| 355       | 350        | 16 | 748 440 724  | 749 440 724 | 0.410 | 438       | 355        | 10        | 7          | 340 - 355     |
| 400       | 400        | 16 | 748 440 725  | 749 440 725 | 0.513 | 489       | 400        | 10        | 7          | 385 - 400     |
| 450       | 500        | 16 | 748 440 726  | 749 440 726 | 0.718 | 594       | 403        | 10        | 7          | 393 - 403     |
| 500       | 500        | 16 | 748 440 727  | 749 440 727 | 0.718 | 594       | 447        | 10        | 7          | 437 - 447     |
| 560       | 600        | 16 | 748 440 728  | 749 440 728 | 0.923 | 695       | 494        | 10        | 7          | 484 - 494     |
| 630       | 600        | 16 | 748 440 729  | 749 440 729 | 0.923 | 695       | 555        | 10        | 7          | 545 - 555     |

# Pipe clips metric

## KLIP-IT pipe clip type 061 PP metric

### Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**

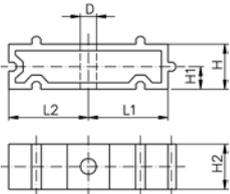


| d<br>[mm] | Code               | SP  | GP  | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|-----------|--------------------|-----|-----|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| * 10      | <b>167 061 003</b> | 10  | 500 | 5         | 8          | 11         | 14         | 20        | 10         | 6          | 12         | M4 |
| * 12      | <b>167 061 004</b> | 10  | 500 | 5         | 8          | 11         | 14         | 21        | 10         | 6          | 12         | M5 |
| * 16      | <b>167 061 035</b> | 200 | -   | 6         | 11         | 14         | 17         | 27        | 10         | 6          | 16         | M5 |
| * 20      | <b>167 061 036</b> | 200 | -   | 6         | 11         | 17         | 19         | 27        | 10         | 6          | 16         | M5 |
| * 25      | <b>167 061 037</b> | 10  | 200 | 6         | 11         | 19         | 22         | 30        | 10         | 6          | 16         | M5 |
| * 32      | <b>167 061 038</b> | 10  | 150 | 6         | 11         | 24         | 27         | 36        | 10         | 6          | 16         | M5 |
| 40        | <b>167 061 039</b> | 10  | 140 | 7         | 14         | 34         | 34         | 44        | 10         | 7          | 22         | M6 |
| 50        | <b>167 061 040</b> | 10  | 100 | 7         | 14         | 37         | 37         | 51        | 10         | 7          | 22         | M6 |
| 63        | <b>167 061 041</b> | 10  | 80  | 9         | 17         | 45         | 45         | 64        | 10         | 10         | 25         | M8 |
| 75        | <b>167 061 012</b> | 10  | 60  | 9         | 17         | 52         | 52         | 58        | 10         | 10         | 25         | M8 |
| 90        | <b>167 061 013</b> | 10  | 80  | 9         | 17         | 65         | 65         | 65        | 10         | 10         | 28         | M8 |
| 110       | <b>167 061 014</b> | 10  | 40  | 9         | 17         | 79         | 79         | 75        | 10         | 10         | 28         | M8 |
| 125       | <b>167 061 015</b> | 10  | 30  | 9         | 17         | 88         | 88         | 90        | 10         | 10         | 32         | M8 |
| 140       | <b>167 061 016</b> | 10  | 20  | 9         | 17         | 98         | 98         | 110       | 10         | 10         | 32         | M8 |
| 160       | <b>167 061 017</b> | 10  | 20  | 9         | 17         | 109        | 109        | 108       | 10         | 10         | 32         | M8 |

## KLIP-IT spacer type 061 PP

### Model:

- For pipe clips Type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**



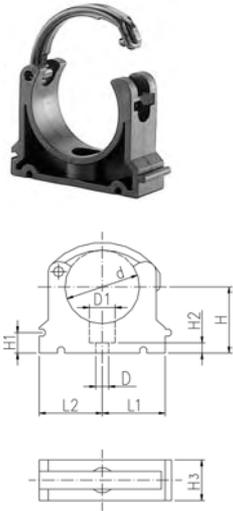
| d<br>[mm] | Inch<br>[inch] | Code               | SP | GP  | kg    | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | SC |
|-----------|----------------|--------------------|----|-----|-------|-----------|------------|------------|-----------|------------|------------|----|
| 10 - 12   | 1/8 - 1/4      | <b>167 061 153</b> | 10 | 500 | 0.003 | 5         | 11         | 14         | 20        | 10         | 12         | M4 |
| 16        | 3/8            | <b>167 061 155</b> | 10 | 200 | 0.006 | 6         | 14         | 17         | 20        | 10         | 16         | M5 |
| 20        | 1/2            | <b>167 061 156</b> | 10 | 200 | 0.006 | 6         | 17         | 19         | 20        | 10         | 16         | M5 |
| 25        | 3/4            | <b>167 061 157</b> | 10 | 200 | 0.007 | 6         | 19         | 22         | 20        | 10         | 16         | M5 |
| 32        | 1              | <b>167 061 158</b> | 10 | 200 | 0.008 | 6         | 24         | 27         | 20        | 10         | 16         | M5 |
| 40        | 1 1/4          | <b>167 061 159</b> | 10 | 150 | 0.016 | 7         | 34         | 34         | 20        | 10         | 22         | M6 |
| 50        | 1 1/2          | <b>167 061 160</b> | 10 | 140 | 0.017 | 7         | 37         | 37         | 20        | 10         | 22         | M6 |
| 63        | 2              | <b>167 061 161</b> | 10 | 80  | 0.024 | 9         | 45         | 45         | 20        | 10         | 25         | M8 |
| 75        | 2 1/2          | <b>167 061 162</b> | 10 | 60  | 0.027 | 9         | 52         | 52         | 20        | 10         | 25         | M8 |
| 90        | 3              | <b>167 061 163</b> | 10 | 140 | 0.040 | 9         | 65         | 65         | 20        | 10         | 28         | M8 |
| 110       | 4              | <b>167 061 164</b> | 10 | 100 | 0.048 | 9         | 79         | 79         | 20        | 10         | 28         | M8 |
| 125       | 4 1/2          | <b>167 061 165</b> | 10 | 100 | 0.059 | 9         | 88         | 88         | 20        | 10         | 32         | M8 |
| 140       | 5              | <b>167 061 166</b> | 10 | 80  | 0.065 | 9         | 98         | 98         | 20        | 10         | 32         | M8 |
| 160       | 6              | <b>167 061 167</b> | 10 | 80  | 0.074 | 9         | 109        | 109        | 20        | 10         | 32         | M8 |

## KLIP-IT pipe clip type 061 PE metric



### Model:

- Material: Clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.



| d<br>[mm] | Code               | SP | GP  | kg    | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|-----------|--------------------|----|-----|-------|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| * 10      | <b>173 061 003</b> | 10 | 500 | 0.003 | 5         | 8          | 11         | 14         | 20        | 10         | 6          | 12         | M4 |
| * 12      | <b>173 061 004</b> | 10 | 500 | 0.006 | 5         | 8          | 11         | 14         | 21        | 10         | 6          | 12         | M5 |
| * 16      | <b>173 061 005</b> | 10 | 200 | 0.007 | 6         | 11         | 14         | 17         | 23        | 10         | 6          | 16         | M5 |
| * 20      | <b>173 061 006</b> | 10 | 200 | 0.008 | 6         | 11         | 17         | 19         | 25        | 10         | 6          | 16         | M5 |
| * 25      | <b>173 061 007</b> | 10 | 200 | 0.009 | 6         | 11         | 19         | 22         | 28        | 10         | 6          | 16         | M5 |
| * 32      | <b>173 061 008</b> | 10 | 200 | 0.012 | 6         | 11         | 24         | 27         | 31        | 10         | 6          | 16         | M5 |
| 40        | <b>173 061 009</b> | 10 | 150 | 0.022 | 7         | 14         | 34         | 34         | 35        | 10         | 7          | 22         | M6 |
| 50        | <b>173 061 010</b> | 10 | 140 | 0.030 | 7         | 14         | 37         | 37         | 40        | 10         | 7          | 22         | M6 |
| 63        | <b>173 061 011</b> | 10 | 80  | 0.044 | 9         | 17         | 45         | 45         | 52        | 10         | 10         | 25         | M8 |
| 75        | <b>173 061 012</b> | 10 | 60  | 0.062 | 9         | 17         | 52         | 52         | 58        | 10         | 10         | 25         | M8 |
| 90        | <b>173 061 013</b> | 10 | 80  | 0.090 | 9         | 17         | 65         | 65         | 65        | 10         | 10         | 28         | M8 |
| 110       | <b>173 061 014</b> | 10 | 40  | 0.114 | 9         | 17         | 79         | 79         | 75        | 10         | 10         | 28         | M8 |
| 125       | <b>173 061 015</b> | 10 | 30  | 0.174 | 9         | 17         | 88         | 88         | 90        | 10         | 10         | 32         | M8 |
| 140       | <b>173 061 016</b> | 10 | 20  | 0.217 | 9         | 17         | 98         | 98         | 110       | 10         | 10         | 32         | M8 |
| 160       | <b>173 061 017</b> | 10 | 20  | 0.237 | 9         | 17         | 109        | 109        | 108       | 10         | 10         | 32         | M8 |

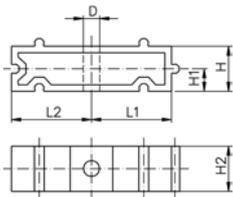
## 73 06 11

## KLIP-IT spacer type 061 PE



### Model:

- For pipe clips Type 061, PE black, UV resistant
- **Minimum order quantity: standard packaging SP**

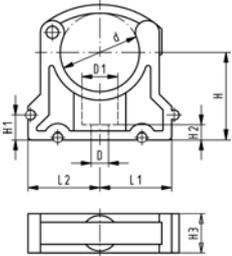


| d<br>[mm] | Inch    | Code               | SP | GP  | kg    | D<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | SC |
|-----------|---------|--------------------|----|-----|-------|-----------|------------|------------|-----------|------------|------------|----|
| 16        | 1/8-1/4 | <b>173 061 153</b> | 10 | 500 | 0.003 | 5         | 11         | 14         | 20        | 10         | 12         | M4 |
| 20        | 3/8     | <b>173 061 155</b> | 10 | 200 | 0.005 | 6         | 14         | 17         | 20        | 10         | 16         | M5 |
| 25        | 1/2     | <b>173 061 156</b> | 10 | 200 | 0.006 | 6         | 17         | 19         | 20        | 10         | 16         | M5 |
| 32        | 3/4     | <b>173 061 157</b> | 10 | 200 | 0.007 | 6         | 19         | 22         | 20        | 10         | 16         | M5 |
| 40        | 1       | <b>173 061 158</b> | 10 | 200 | 0.008 | 6         | 24         | 27         | 20        | 10         | 16         | M5 |
| 50        | 1 1/4   | <b>173 061 159</b> | 10 | 150 | 0.016 | 7         | 34         | 34         | 20        | 10         | 22         | M6 |
| 63        | 1 1/2   | <b>173 061 160</b> | 10 | 140 | 0.017 | 7         | 37         | 37         | 20        | 10         | 22         | M6 |
| 75        | 2       | <b>173 061 161</b> | 10 | 80  | 0.025 | 9         | 45         | 45         | 20        | 10         | 25         | M8 |
| 90        | 2 1/2   | <b>173 061 162</b> | 10 | 60  | 0.027 | 9         | 52         | 52         | 20        | 10         | 25         | M8 |
| 110       | 3       | <b>173 061 163</b> | 10 | 140 | 0.040 | 9         | 65         | 65         | 20        | 10         | 28         | M8 |
| 125       | 4       | <b>173 061 164</b> | 10 | 100 | 0.048 | 9         | 79         | 79         | 20        | 10         | 28         | M8 |
| 140       | 4 1/2   | <b>173 061 165</b> | 10 | 100 | 0.059 | 9         | 88         | 88         | 20        | 10         | 32         | M8 |
| 160       | 5       | <b>173 061 166</b> | 10 | 80  | 0.065 | 9         | 98         | 98         | 20        | 10         | 32         | M8 |
|           | 6       | <b>173 061 167</b> | 10 | 80  | 0.074 | 9         | 109        | 109        | 20        | 10         | 32         | M8 |

## KLIP-IT pipe clip type 061H PP BS/ASTM

### Model:

- Material: PP black, UV resistant
- **Minimum order quantity: standard packaging SP**
- 3/8" - 2": height designed for Ball Valve Type 546 and 543

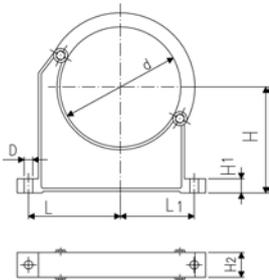


| Code               | SP  | GP  | kg    | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|--------------------|-----|-----|-------|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| <b>167 061 085</b> | 200 | -   | 0.006 | 6         | 10         | 14         | 17         | 27        | 10         | 6          | 16         | M5 |
| <b>167 061 086</b> | 200 | -   | 0.008 | 6         | 10         | 17         | 19         | 27        | 10         | 6          | 16         | M5 |
| <b>167 061 087</b> | 200 | -   | 0.009 | 6         | 10         | 19         | 22         | 30        | 10         | 6          | 16         | M5 |
| <b>167 061 088</b> | 150 | -   | 0.012 | 6         | 10         | 24         | 27         | 36        | 10         | 6          | 16         | M5 |
| <b>167 061 089</b> | 10  | 140 | 0.027 | 7         | 14         | 34         | 34         | 44        | 10         | 7          | 22         | M6 |
| <b>167 061 090</b> | 10  | 100 | 0.031 | 7         | 14         | 37         | 37         | 51        | 10         | 7          | 22         | M6 |
| <b>167 061 091</b> | 80  | -   | 0.054 | 9         | 17         | 45         | 45         | 64        | 10         | 10         | 25         | M8 |

## Pipe clip type 060 PP metric

### Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly



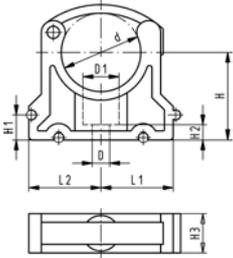
| d<br>[mm] | Code               | SP | GP | kg    | D<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | SC  |
|-----------|--------------------|----|----|-------|-----------|-----------|------------|-----------|------------|------------|-----|
| 90        | <b>167 060 038</b> | 10 | 40 | 0.163 | 9         | 89        | 71         | 105       | 15         | 33         | M 8 |
| 110       | <b>167 060 039</b> | 10 | 30 | 0.179 | 9         | 94        | 80         | 115       | 15         | 33         | M 8 |
| 125       | <b>167 060 040</b> | 10 | 20 | 0.300 | 11        | 116       | 91         | 130       | 20         | 35         | M10 |
| 140       | <b>167 060 041</b> | 10 | 20 | 0.309 | 11        | 121       | 98         | 130       | 20         | 35         | M10 |
| 160       | <b>167 060 042</b> | 10 | 20 | 0.348 | 11        | 131       | 107        | 148       | 20         | 35         | M10 |
| 180       | <b>167 060 043</b> | 10 | -  | 0.378 | 11        | 143       | 115        | 163       | 20         | 35         | M10 |
| 200       | <b>167 060 019</b> | 5  | -  | 0.582 | 13        | 152       | 120        | 175       | 25         | 39         | M12 |
| 225       | <b>167 060 020</b> | 5  | -  | 0.612 | 13        | 165       | 132        | 175       | 25         | 39         | M12 |
| 250       | <b>167 060 021</b> | 5  | -  | 0.698 | 13        | 183       | 143        | 200       | 25         | 39         | M12 |
| 280       | <b>167 060 022</b> | 5  | -  | 0.722 | 13        | 198       | 156        | 200       | 25         | 39         | M12 |
| 315       | <b>167 060 023</b> | 5  | -  | 0.842 | 13        | 219       | 172        | 225       | 25         | 39         | M12 |
| 355       | <b>167 060 024</b> | 5  | -  | 1.250 | 17        | 275       | 209        | 258       | 30         | 50         | M16 |
| 400       | <b>167 060 025</b> | 5  | -  | 1.450 | 17        | 300       | 228        | 288       | 30         | 50         | M16 |

## KLIP-IT pipe clip type 061H PP metric

### Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packagings SP**
- d16 - d63: height designed for Ball Valve Type 546 und 543
- \* d16 to d32 without bracket

| d<br>[mm] | Code               | SP  | GP  | kg    | D<br>[mm] | D1<br>[mm] | L1<br>[mm] | L2<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | SC |
|-----------|--------------------|-----|-----|-------|-----------|------------|------------|------------|-----------|------------|------------|------------|----|
| * 16      | <b>167 061 035</b> | 200 | -   | 0.006 | 6         | 11         | 14         | 17         | 27        | 10         | 6          | 16         | M5 |
| * 20      | <b>167 061 036</b> | 200 | -   | 0.008 | 6         | 11         | 17         | 19         | 27        | 10         | 6          | 16         | M5 |
| * 25      | <b>167 061 037</b> | 10  | 200 | 0.009 | 6         | 11         | 19         | 22         | 30        | 10         | 6          | 16         | M5 |
| * 32      | <b>167 061 038</b> | 10  | 150 | 0.012 | 6         | 11         | 24         | 27         | 36        | 10         | 6          | 16         | M5 |
| 40        | <b>167 061 039</b> | 10  | 140 | 0.027 | 7         | 14         | 34         | 34         | 44        | 10         | 7          | 22         | M6 |
| 50        | <b>167 061 040</b> | 10  | 100 | 0.031 | 7         | 14         | 37         | 37         | 51        | 10         | 7          | 22         | M6 |
| 63        | <b>167 061 041</b> | 10  | 80  | 0.054 | 9         | 17         | 45         | 45         | 64        | 10         | 10         | 25         | M8 |



# Fuseal Sea Drain

|   |  | Page |
|---|--|------|
|    | Corrosive Waste Pipe - Sch.40 1_1/2"-6"      | 415  |
|    | PPFR Fusion Fittings - Schedule 40           | 416  |
|    | Fuseal Cleanouts and Floor Drains            | 427  |
|    | Fuseal Traps                                 | 429  |
|    | Fuseal Fusion Accessories                    | 430  |
|   | Fuseal Sea Drain Tools                       | 431  |
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|  | Fuseal Fusion Accessories for large Diameter | 438  |

# FUSEAL Sea Drain

FUSEAL Sea Drain has excellent chemical and physical properties to make the system ideal for handling corrosive chemical waste solutions present in laboratory and industrial DWV applications. Fuseal is suitable for use in the ship building industries as well as in areas where mixtures of acids, bases, and solvents are drained.

The FUSEAL Sea Drain piping system's polypropylene PPFR compound (FR=flame retardant) yields a combination of high chemical resistance, toughness and high strength at elevated temperatures which is ideal for a wide range of conditions including corrosive chemical waste solutions. FUSEAL Sea Drain is also suitable for use in black and grey water sanitary drains as cabins, galleys and laundries etc., scuppers and discharges (overboard), sounding air and venting of water tanks / dry spaces, vent pipes etc.

The MSA 250SE power unit features barcode operation, multiple joint and advanced transformer technology.

The Fuseal II fusion collar (1 1/2" to 6") provides simple insertion of pipe without coil removal.

## Advantages of FUSEAL Sea Drain

- High thermal ageing and thermal forming resistance
- Low creep elongation
- Handles corrosive drainage fluids up to 180°F (80°C) for short intervals up to 210°F (approx. 100°C)
- Non-essential and non-pressure drainage system rated to 1.76 bars (25 %)
- full vacuum
- No corrosion
- Conforms to the ASTM F-1412 standard specifications for polyolefine pipe and fittings for corrosive waste drainage system
- The piping system is not tested with respect to Fire Endurance
- Tested to Low Flame Spread acc. ASTM D635.
- High stress fracture resistance
- Easy installation (electrofusion)
- Long service life
- Pipe and fitting size dimensions range from 1 1/2" to 6" (bigger on request)

## Application for Ship Building

- Grey and black water
- scuppers and discharges (overboard), sounding air and venting of water tanks / dry spaces, vent pipes etc.

## Dimension range

- 1 1/2" to 6" (bigger size on request)

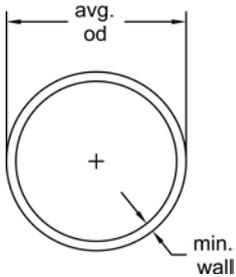
## Temperature range

0°C to +80°C (short term 100°C)

# Corrosive Waste Pipe - Sch.40 1\_1/2"-6"

## Group 1 Homopolymer - 10 ft. Lengths

1 1/2" - 6" Available in 20' lengths upon request



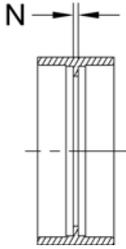
| Inch Size<br>[inch] | lengths<br>[ft] | Code               | Lift Qty<br>[m] | avg. od<br>[mm] | min. wall<br>[mm] |
|---------------------|-----------------|--------------------|-----------------|-----------------|-------------------|
| 1 1/2               | 10              | <b>F8004-015AA</b> | 549             | 48              | 4                 |
| 2                   | 10              | <b>F8004-020AA</b> | 320             | 60              | 4                 |
| 3                   | 10              | <b>F8004-030AA</b> | 177             | 89              | 5                 |
| 4                   | 10              | <b>F8004-040AA</b> | 155             | 114             | 6                 |
| 6                   | 10              | <b>F8004-060AA</b> | 67              | 168             | 7                 |

### FUSEAL Sea Drain

| pipe size<br>[inch] | pipe outer diameter |        | wall thickness |      |
|---------------------|---------------------|--------|----------------|------|
|                     | [inch]              | [mm]   | [inch]         | [mm] |
| 1 1/2               | 1.900               | 48.26  | 0.145          | 3.68 |
| 2                   | 2.375               | 60.33  | 0.154          | 3.91 |
| 3                   | 3.500               | 88.90  | 0.216          | 5.49 |
| 4                   | 4.500               | 114.30 | 0.237          | 6.02 |
| 6                   | 6.625               | 168.28 | 0.280          | 7.11 |

# PPFR Fusion Fittings - Schedule 40

## Coupling (SxS)



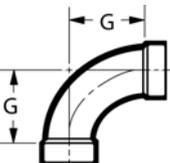
| Inch Size<br>[inch] | Code          | SP | N<br>[mm] |
|---------------------|---------------|----|-----------|
| 1 ½                 | <b>527001</b> | 50 | 2         |
| 2                   | <b>527002</b> | 45 | 2         |
| 3                   | <b>527003</b> | 60 | 3         |
| 4                   | <b>527004</b> | 20 | 3         |
| 6                   | <b>527006</b> | 10 | 5         |

## Sleeve Coupling (SxS)



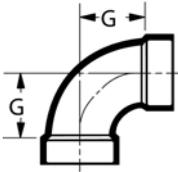
| Inch Size<br>[inch] | Code          | L<br>[mm] |
|---------------------|---------------|-----------|
| 1 ½                 | <b>527041</b> | 40        |
| 2                   | <b>527042</b> | 46        |
| 3                   | <b>527043</b> | 51        |
| 4                   | <b>527044</b> | 51        |
| 6                   | <b>527046</b> | 68        |

## 1/4 Bend - Long Sweep (SxS) 88,5°



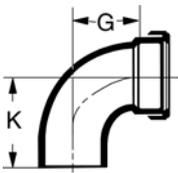
| Inch Size<br>[inch] | Code           | G<br>[mm] |
|---------------------|----------------|-----------|
| 1 ½                 | <b>526276</b>  | 70        |
| 2                   | <b>526277</b>  | 83        |
| 3                   | <b>526278</b>  | 103       |
| 4                   | <b>526279</b>  | 125       |
| 6                   | <b>526280F</b> | 279       |

## 1/4 Bend - Short Sweep (SxS) 88,5°



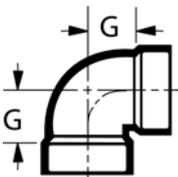
| Inch Size<br>[inch] | Code          | G<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 1/2               | <b>526251</b> | 44        |  |
| 2                   | <b>526252</b> | 59        |  |
| 3                   | <b>526253</b> | 78        |  |
| 4                   | <b>526254</b> | 99        |  |
| 6                   | <b>526256</b> | 143       |  |

## 1/4 Bend - Short Sweep (SpgxS) 88,5°



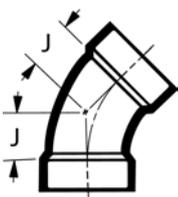
| Inch Size<br>[inch] | Code           | G<br>[mm] | K<br>[mm] |  |
|---------------------|----------------|-----------|-----------|--|
| 1 1/2               | <b>526451</b>  | 44        | 79        |  |
| 2                   | <b>526452</b>  | 59        | 94        |  |
| 3                   | <b>526453</b>  | 78        | 121       |  |
| 4                   | <b>526454</b>  | 99        | 137       |  |
| 6                   | <b>526456F</b> | 279       | 275       |  |

## 1/4 Bend - Vent (SxS) 88,5°



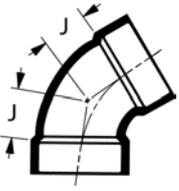
| Inch Size<br>[inch] | Code          | G<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 1/2               | <b>526201</b> | 30        |  |
| 2                   | <b>526202</b> | 38        |  |
| 3                   | <b>526203</b> | 48        |  |

## 1/6 Bend (SxS) 60°



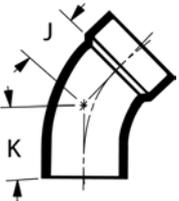
| Inch Size<br>[inch] | Code          | J<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 1/2               | <b>526601</b> | 25        |  |
| 2                   | <b>526602</b> | 33        |  |
| 3                   | <b>526603</b> | 43        |  |
| 4                   | <b>526604</b> | 52        |  |

### 1/8 Bend (SxS) 45°



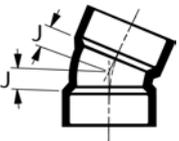
| Inch Size<br>[inch] | Code          | J<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 ½                 | <b>526501</b> | 29        |  |
| 2                   | <b>526502</b> | 38        |  |
| 3                   | <b>526503</b> | 44        |  |
| 4                   | <b>526504</b> | 56        |  |
| 6                   | <b>526506</b> | 86        |  |

### 1/8 Bend (SpgxS) 45°



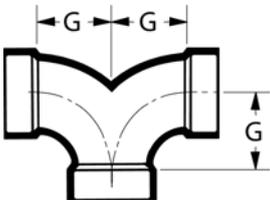
| Inch Size<br>[inch] | Code          | J<br>[mm] | K<br>[mm] |  |
|---------------------|---------------|-----------|-----------|--|
| 1 ½                 | <b>526401</b> | 29        | 62        |  |
| 2                   | <b>526402</b> | 38        | 64        |  |
| 3                   | <b>526403</b> | 44        | 83        |  |
| 4                   | <b>526404</b> | 56        | 83        |  |
| 6                   | <b>526406</b> | 86        | 121       |  |

### 1/16 Bend (SxS) 22,5°



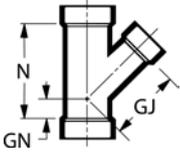
| Inch Size<br>[inch] | Code          | J<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 ½                 | <b>526551</b> | 13        |  |
| 2                   | <b>526552</b> | 18        |  |
| 3                   | <b>526553</b> | 21        |  |
| 4                   | <b>526554</b> | 25        |  |

### 3-Way Ell (SxSxS)



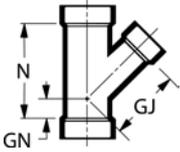
| Inch Size<br>[inch] | Code          | G<br>[mm] |  |
|---------------------|---------------|-----------|--|
| 1 ½                 | <b>526261</b> | 44        |  |
| 2                   | <b>526262</b> | 59        |  |

## 45° Wye (SxSxS)



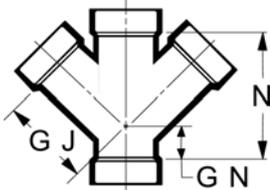
| Inch Size<br>[inch] | Code          | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|---------------|------------|------------|-----------|
| 1 ½                 | <b>526301</b> | 73         | 29         | 102       |
| 2                   | <b>526302</b> | 92         | 35         | 127       |
| 3                   | <b>526303</b> | 127        | 41         | 168       |
| 4                   | <b>526304</b> | 162        | 48         | 210       |
| 6                   | <b>526306</b> | 232        | 41         | 273       |

## 45° Wye - Reducing (SxSxS)



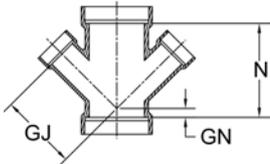
| Inch Size<br>[inch] | Code          | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|---------------|------------|------------|-----------|
| 2 x 2 x 1 ½         | <b>526325</b> | 87         | 27         | 111       |
| 3 x 3 x 1 ½         | <b>526324</b> | 118        | 22         | 127       |
| 3 x 3 x 2           | <b>526326</b> | 118        | 22         | 127       |
| 4 x 4 x 2           | <b>526328</b> | 141        | 10         | 129       |
| 4 x 4 x 3           | <b>526327</b> | 152        | 27         | 168       |
| 6 x 6 x 2           | <b>526342</b> | 171        | -29        | 120       |
| 6 x 6 x 3           | <b>526343</b> | 189        | 5          | 162       |
| 6 x 6 x 4           | <b>526344</b> | 197        | 17         | 196       |

## 45° Wye - Double equal (SxSxSxS)

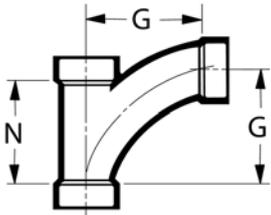


| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 1 ½                 | <b>526380</b>  | 89         | 29         | 118       |
| 2                   | <b>526381</b>  | 102        | 35         | 137       |
| 3                   | <b>526382</b>  | 127        | 41         | 194       |
| 4                   | <b>526383</b>  | 162        | 48         | 235       |
| 6                   | <b>526351F</b> | 309        | 157        | 467       |

## 45° Wye - Double Reducing (SxSxSxS)

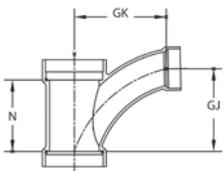


| Size<br>[inch]    | Code           | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|-------------------|----------------|------------|------------|-----------|
| 2 x 2 x 1 ½ x 1 ½ | <b>526384</b>  | 87         | 27         | 137       |
| 3 x 3 x 1 ½ x 1 ½ | <b>526389</b>  | 109        | 13         | 133       |
| 3 x 3 x 2 x 2     | <b>526385</b>  | 118        | 22         | 152       |
| 4 x 4 x 2 x 2     | <b>526386</b>  | 141        | 10         | 154       |
| 4 x 4 x 3 x 3     | <b>526387</b>  | 152        | 27         | 194       |
| 6 x 6 x 3 x 3     | <b>526390T</b> | 252        | 44         | 314       |
| 6 x 6 x 4 x 4     | <b>526388T</b> | 257        | 57         | 314       |



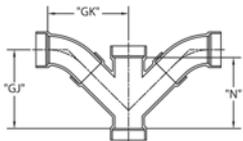
## Long Turn Tee Wye (SxSxS)

| Inch Size<br>[inch] | Code          | G<br>[mm] | N<br>[mm] |
|---------------------|---------------|-----------|-----------|
| 1 ½                 | <b>527301</b> | 100       | 92        |
| 2                   | <b>527302</b> | 130       | 113       |
| 3                   | <b>527303</b> | 192       | 165       |
| 4                   | <b>527304</b> | 249       | 222       |



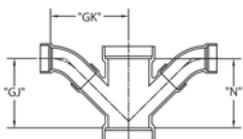
## Long Turn Tee Wye - Reducing (SxSxS)

| Inch Size<br>[inch] | Code          | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|---------------------|---------------|------------|------------|-----------|
| 2 x 2 x 1 ½         | <b>527320</b> | 100        | 106        | 92        |
| 3 x 3 x 1 ½         | <b>527326</b> | 100        | 121        | 97        |
| 3 x 3 x 2           | <b>527327</b> | 130        | 145        | 121       |
| 4 x 4 x 2           | <b>527337</b> | 130        | 156        | 114       |
| 4 x 4 x 3           | <b>527338</b> | 192        | 205        | 165       |



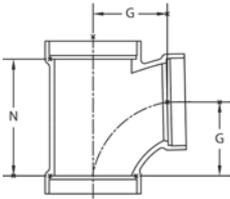
## Combo Wye and 1/8 Bend - Double (SxSxS)

| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 1 ½                 | <b>526801</b>  | 135        | 135        | 118       |
| 2                   | <b>526802</b>  | 152        | 155        | 137       |
| 3                   | <b>526803</b>  | 190        | 193        | 194       |
| 4                   | <b>526804</b>  | 221        | 229        | 235       |
| 6                   | <b>526806F</b> | 462        | 392        | 467       |



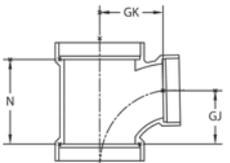
## Long Turn Tee Wye (SxSxS)

| Size<br>[inch]    | Code           | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|-------------------|----------------|------------|------------|-----------|
| 2 x 2 x 1 ½ x 1 ½ | <b>526825</b>  | 133        | 134        | 137       |
| 3 x 3 x 1 ½ x 1 ½ | <b>526824</b>  | 134        | 150        | 133       |
| 3 x 3 x 2 x 2     | <b>526826</b>  | 150        | 166        | 152       |
| 4 x 4 x 2 x 2     | <b>526828</b>  | 154        | 183        | 154       |
| 4 x 4 x 3 x 3     | <b>526827</b>  | 193        | 211        | 194       |
| 6 x 6 x 3 x 3     | <b>526843T</b> | 284        | 284        | 314       |
| 6 x 6 x 4 x 4     | <b>526844T</b> | 300        | 298        | 314       |



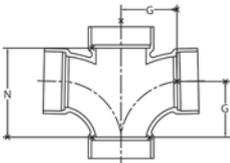
## Sanitary Tee (SxSxS)

| Inch Size<br>[inch] | Code           | G<br>[mm] | N<br>[mm] |
|---------------------|----------------|-----------|-----------|
| 1 ½                 | <b>526151</b>  | 44        | 70        |
| 2                   | <b>526152</b>  | 59        | 94        |
| 3                   | <b>526153</b>  | 78        | 124       |
| 4                   | <b>526154</b>  | 99        | 156       |
| 6                   | <b>526156F</b> | 362       | 467       |



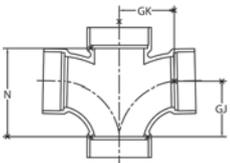
## Sanitary Tee - Reducing (SxSxS)

| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 2 x 2 x 1 ½         | <b>526126</b>  | 50         | 56         | 81        |
| 3 x 3 x 1 ½         | <b>526131</b>  | 44         | 65         | 68        |
| 3 x 3 x 2           | <b>526130</b>  | 54         | 73         | 84        |
| 4 x 4 x 2           | <b>526134</b>  | 52         | 84         | 81        |
| 4 x 4 x 3           | <b>526136</b>  | 76         | 90         | 121       |
| 6 x 6 x 3           | <b>526138F</b> | 100        | 163        | 156       |
| 6 x 6 x 4           | <b>526139</b>  | 100        | 124        | 156       |



## Sanitary Tee - Double (SxSxSxS)

| Inch Size<br>[inch] | Code          | G<br>[mm] | N<br>[mm] |
|---------------------|---------------|-----------|-----------|
| 1 ½                 | <b>526187</b> | 44        | 70        |
| 2                   | <b>526186</b> | 59        | 94        |
| 3                   | <b>526183</b> | 78        | 124       |
| 4                   | <b>526185</b> | 99        | 156       |



## Sanitary Tee - Double Reducing (SxSxSxS)

| Size<br>[inch]    | Code           | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|-------------------|----------------|------------|------------|-----------|
| 2 x 2 x 1 ½ x 1 ½ | <b>526188</b>  | 49         | 56         | 80        |
| 3 x 3 x 1 ½ x 1 ½ | <b>526184F</b> | 54         | 111        | 84        |
| 3 x 3 x 2 x 2     | <b>526181</b>  | 54         | 73         | 84        |

## Combo Wye and 1/8 Bend - Reducing (S x S x S)



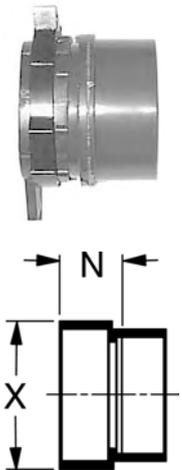
| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GK<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 6 x 6 x 2           | <b>527344F</b> | 138        | 205        | 120       |
| 6 x 6 x 3           | <b>527339F</b> | 178        | 233        | 162       |
| 6 x 6 x 4           | <b>527340F</b> | 214        | 252        | 196       |

## Pipe Increaser (SxS)



| Inch Size<br>[inch] | Code           | N<br>[mm] |
|---------------------|----------------|-----------|
| 1 ½ x 2             | <b>527022</b>  | 13        |
| 1 ½ x 3             | <b>527023F</b> | 67        |
| 2 x 3               | <b>527024</b>  | 22        |
| 2 x 4               | <b>527025</b>  | 35        |
| 3 x 4               | <b>527026</b>  | 24        |
| 3 x 6               | <b>527027F</b> | 46        |
| 4 x 6               | <b>527028F</b> | 41        |

## Reducer Bushing (SpgxS) - Extended Style



| Inch Size<br>[inch] | Code          | N<br>[mm] | X<br>[mm] |
|---------------------|---------------|-----------|-----------|
| 2 x 1 ½             | <b>526752</b> | 41        | 60        |
| 3 x 1 ½             | <b>526762</b> | 38        | 89        |
| 3 x 2               | <b>526754</b> | 38        | 89        |
| 4 x 2               | <b>526758</b> | 29        | 114       |
| 4 x 3               | <b>526756</b> | 38        | 114       |
| 6 x 4               | <b>526767</b> | 33        | 168       |

## Cap (S)



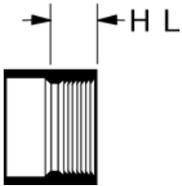
| Inch Size<br>[inch] | Code          | HL<br>[mm] |
|---------------------|---------------|------------|
| 1 ½                 | <b>527081</b> | 13         |
| 2                   | <b>527082</b> | 8          |
| 3                   | <b>527083</b> | 23         |
| 4                   | <b>527084</b> | 28         |
| 6                   | <b>527087</b> | 40         |

## Male Adapter (MTxS)



| Inch Size<br>[inch] | Code    | HL<br>[mm] |
|---------------------|---------|------------|
| 1 ½                 | 526871  | 30         |
| 2                   | 526872  | 32         |
| 3                   | 526873  | 47         |
| 4                   | 526874  | 51         |
| 6                   | 526876F | 89         |

## Female Adapter (SxFT)



| Inch Size<br>[inch] | Code   | HL<br>[mm] |
|---------------------|--------|------------|
| 1 ½                 | 526891 | 28         |
| 2                   | 526892 | 29         |
| 3                   | 526893 | 44         |
| 4                   | 526894 | 46         |
| 6                   | 526896 | 72         |

## Male Adapter - Reducing (SxBSP)

| Inch Size<br>[inch] | Code    |
|---------------------|---------|
| 2 x 1 ½             | 526870B |

## Male Adapter (SxBSP)

| Inch Size<br>[inch] | Code    |
|---------------------|---------|
| 1 ½                 | 526871B |
| 2                   | 526872B |

## Female Adapter - Reducing (SxBSP)

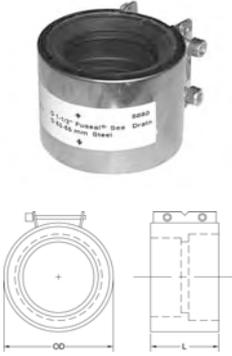
Threads ISO 7-1 DIN 2999

| Inch Size<br>[inch] | Code    |
|---------------------|---------|
| 2 x 1 ½             | 526890B |

## Female Adapter (SxBSP)

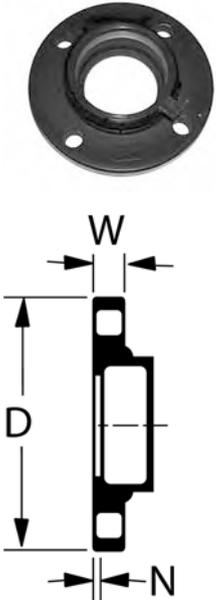
| Inch Size<br>[inch] | Code    |
|---------------------|---------|
| 1 ½                 | 526891B |
| 2                   | 526892B |

## Metal Transition Coupling



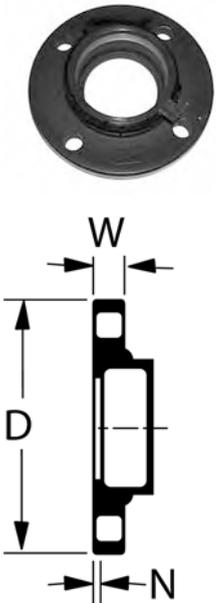
| Inch | DN-DN<br>[mm] | Code        | L<br>[inch] | O.D.<br>[inch] |
|------|---------------|-------------|-------------|----------------|
| 1 ½  | 48 - 50       | <b>8887</b> | 2.25        | 2.95           |
| 1 ½  | 53 - 55       | <b>8880</b> | 2.25        | 2.95           |
| 2    | 53 - 55       | <b>8881</b> | 2.25        | 3.31           |
| 2    | 75 - 76       | <b>8882</b> | 2.25        | 3.54           |
| 3    | 75 - 76       | <b>8883</b> | 2.25        | 4.09           |
| 4    | 102 - 110     | <b>8884</b> | 2.25        | 4.96           |
| 6    | 159 - 160     | <b>8886</b> | 2.75        | 6.85           |

## Flange - ANSI 150lb. Pattern (S)

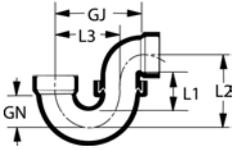


| Inch Size<br>[inch] | Code          | # holes | bolt hole dia.<br>[mm] | bolt cir. dia.<br>[mm] | D<br>[mm] | N<br>[mm] | W<br>[inch] |
|---------------------|---------------|---------|------------------------|------------------------|-----------|-----------|-------------|
| 1 ½                 | <b>526931</b> | 4       | 14                     | 99                     | 127       | 8         | 0.75        |
| 2                   | <b>526932</b> | 4       | 17                     | 121                    | 152       | 9         | 0.81        |
| 3                   | <b>526933</b> | 4       | 19                     | 152                    | 191       | 11        | 1.00        |
| 4                   | <b>526934</b> | 8       | 19                     | 191                    | 229       | 11        | 1.10        |
| 6                   | <b>526936</b> | 8       | 22                     | 241                    | 279       | 11        | 1.26        |

## DIN Flange Adapter (S)

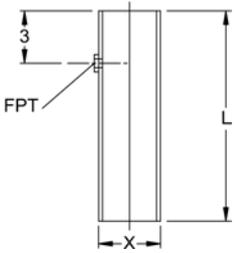


| Inch | DN<br>[mm] | Code           | # holes | bolt cir. dia.<br>[mm] | bolt hole dia.<br>[mm] | D<br>[mm] | N<br>[inch] | W<br>[inch] |
|------|------------|----------------|---------|------------------------|------------------------|-----------|-------------|-------------|
| 1 ½  | 40         | <b>526931M</b> | 4       | 110                    | 18                     | 152       | 2.10        | 0.81        |
| 2    | 50         | <b>526932M</b> | 4       | 125                    | 18                     | 152       | 0.34        | 0.81        |
| 3    | 65         | <b>526933M</b> | 4       | 145                    | 18                     | 191       | 0.44        | 1.00        |
| 4    | 100        | <b>526934M</b> | 8       | 180                    | 22                     | 229       | 0.42        | 1.10        |
| 6    | 150        | <b>526936M</b> | 8       | 240                    | 22                     | 279       | 0.45        | 1.26        |



## P Trap - Union Connection (SxS)

| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GN<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] |
|---------------------|----------------|------------|------------|------------|------------|------------|
| 1 ½                 | <b>527211E</b> | 123        | 43         | 60         | 102        | 89         |
| 2                   | <b>527212E</b> | 165        | 62         | 72         | 124        | 129        |



## Trap Primer w/FPT Tap (Spg x Spg)

| Inch Size<br>[inch] | Code        | L<br>[mm] | X<br>[mm] | FPT<br>[inch] |
|---------------------|-------------|-----------|-----------|---------------|
| 1 ½                 | <b>7201</b> | 305       | 48        | ½             |
| 2                   | <b>7202</b> | 305       | 60        | ½             |
| 3                   | <b>7203</b> | 305       | 89        | ½             |
| 4                   | <b>7204</b> | 305       | 114       | ½             |
| 6                   | <b>7206</b> | 305       | 168       | ¾             |

27 70 04  
27 70 05



## Backing flange PP-V For socket systems metric

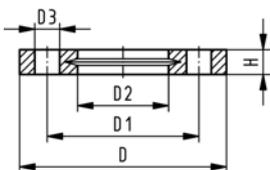
### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes



| d<br>[mm] | Inch | DN<br>[mm] | PN | Code               | SP | kg    | D<br>[mm] | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | H<br>[mm] | AL | SC  |
|-----------|------|------------|----|--------------------|----|-------|-----------|------------|------------|------------|-----------|----|-----|
| 50        |      | 40         | 16 | <b>727 700 410</b> | 30 | 0.210 | 150       | 110        | 62         | 18         | 22        | 4  | M16 |
| 63        |      | 50         | 16 | <b>727 700 411</b> | 25 | 0.380 | 165       | 125        | 78         | 18         | 24        | 4  | M16 |
| 90        |      | 80         | 16 | <b>727 700 413</b> | 15 | 0.520 | 200       | 160        | 110        | 18         | 27        | 8  | M16 |
| 110       |      | 100        | 16 | <b>727 700 414</b> | 13 | 0.680 | 220       | 180        | 133        | 18         | 28        | 8  | M16 |
| 160       | 6    | 150        | 16 | <b>727 700 417</b> | -  | 1.200 | 285       | 241        | 190        | 22         | 32        | 8  | M20 |



EPDM 48 44 03  
FPM 49 44 03

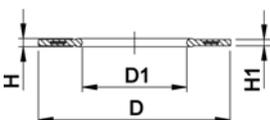
## Profile flange gasket for flange connections metric

### Model:

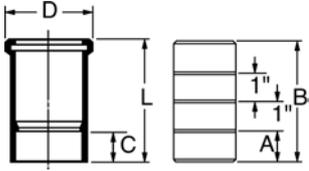
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- suitable for flange adaptors



| d<br>[mm] | EPDM<br>Code       | SP | kg    | D<br>[mm] | D1<br>[mm] | H<br>[mm] | H1<br>[mm] |
|-----------|--------------------|----|-------|-----------|------------|-----------|------------|
| 50        | <b>748 440 305</b> | -  | 0.030 | 92        | 42         | 4         | 3          |
| 63        | <b>748 440 306</b> | -  | 0.047 | 107       | 53         | 5         | 4          |
| 90        | <b>748 440 308</b> | -  | 0.073 | 142       | 76         | 5         | 4          |
| 110       | <b>748 440 309</b> | -  | 0.117 | 162       | 93         | 6         | 5          |
| 160       | <b>748 440 312</b> | -  | 0.240 | 218       | 135        | 8         | 6          |



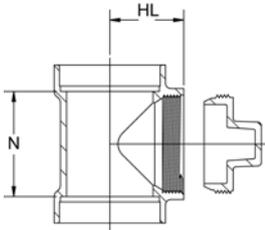
## Vertical and Horizontal Expansion Joint w / EPDM O-Ring



| Inch Size<br>[inch] | Code           | A<br>[mm] | B<br>[mm] | C<br>[mm] | D<br>[mm] | L<br>[mm] |
|---------------------|----------------|-----------|-----------|-----------|-----------|-----------|
| 1 ½                 | <b>527811A</b> | 25        | 104       | 19        | 67        | 104       |
| 2                   | <b>527812A</b> | 30        | 115       | 22        | 80        | 114       |
| 3                   | <b>527813A</b> | 40        | 135       | 24        | 118       | 133       |
| 4                   | <b>527814A</b> | 53        | 161       | 24        | 147       | 145       |

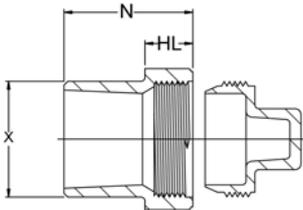
# Fuseal Cleanouts and Floor Drains

## Cleanout Tee with Plug



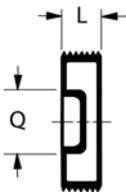
| Inch Size<br>[inch] | Code            | HL<br>[mm] | N<br>[mm] |
|---------------------|-----------------|------------|-----------|
| 1 ½                 | <b>526114A</b>  | 46         | 54        |
| 2                   | <b>526115A</b>  | 54         | 70        |
| 3                   | <b>526116A</b>  | 67         | 95        |
| 4                   | <b>526117A</b>  | 86         | 127       |
| 6                   | <b>526118AF</b> | 197        | 457       |

## Cleanout Adapter with Plug



| Inch Size<br>[inch] | Code         | HL<br>[mm] | N<br>[mm] | X<br>[mm] |
|---------------------|--------------|------------|-----------|-----------|
| 1 ½                 | <b>7701A</b> | 20         | 53        | 48        |
| 2                   | <b>7702A</b> | 20         | 56        | 60        |
| 3                   | <b>7703A</b> | 28         | 68        | 89        |
| 4                   | <b>7704A</b> | 29         | 75        | 114       |
| 6                   | <b>7706A</b> | 33         | 67        | 168       |

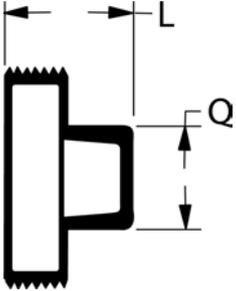
## Countersunk Plug for Cleanout



| Inch Size<br>[inch] | Code        | L<br>[mm] | Q<br>[mm] |
|---------------------|-------------|-----------|-----------|
| 3                   | <b>7063</b> | 26        | 33        |
| 4                   | <b>7064</b> | 29        | 41        |

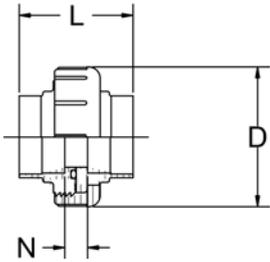
## Plug

Used with cleanout tees, cleanout adapters and cleanout p-traps only



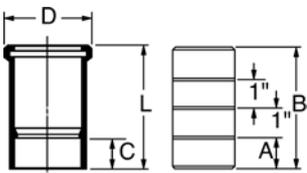
| Inch Size<br>[inch] | Code        | L<br>[mm] | Q<br>[mm] |                            |
|---------------------|-------------|-----------|-----------|----------------------------|
| 1                   | <b>7049</b> | 25        | 19        | Used for 527201A & 527202A |
| 1 ½                 | <b>7051</b> | 40        | 25        | Used for 527203A & 527204A |
| 2                   | <b>7052</b> | 39        | 32        |                            |
| 3                   | <b>7053</b> | 52        | 41        |                            |
| 4                   | <b>7054</b> | 55        | 51        |                            |
| 6                   | <b>7057</b> | 60        | 60        |                            |

## Union (PPFR x PPFR)/PPFR Nut (S x S)



| Inch Size<br>[inch] | FPM<br>Code   | EPDM<br>Code  | D<br>[mm] | L<br>[mm] | N<br>[mm] |
|---------------------|---------------|---------------|-----------|-----------|-----------|
| 1 ½                 | <b>528291</b> | <b>527271</b> | 95        | 86        | 16        |
| 2                   | <b>528292</b> | <b>527272</b> | 118       | 95        | 19        |
| 3                   | <b>528293</b> | <b>527273</b> | 171       | 119       | 23        |
| 4                   | <b>528294</b> | <b>527274</b> | 216       | 141       | 25        |

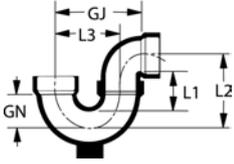
## Vertical and Horizontal Expansion Joint w / EPDM O-Ring



| Inch Size<br>[inch] | Code           | A<br>[mm] | B<br>[mm] | C<br>[mm] | D<br>[mm] | L<br>[mm] |
|---------------------|----------------|-----------|-----------|-----------|-----------|-----------|
| 1 ½                 | <b>527811A</b> | 25        | 104       | 19        | 67        | 104       |
| 2                   | <b>527812A</b> | 30        | 115       | 22        | 80        | 114       |
| 3                   | <b>527813A</b> | 40        | 135       | 24        | 118       | 133       |
| 4                   | <b>527814A</b> | 53        | 161       | 24        | 147       | 145       |

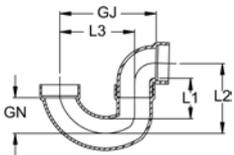
# Fuseal Traps

## P Trap - Fuseal Connection (SxS)



| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GN<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] |
|---------------------|----------------|------------|------------|------------|------------|------------|
| 1 ½                 | <b>527201A</b> | 120        | 43         | 52         | 92         | 89         |
| 2                   | <b>527202A</b> | 176        | 62         | 69         | 121        | 129        |
| 3                   | <b>527203A</b> | 226        | 71         | 87         | 163        | 171        |
| 4                   | <b>527204A</b> | 273        | 99         | 99         | 205        | 216        |

## P Trap - Fuseal Connection w / Cleanout (SxS)



| Inch Size<br>[inch] | Code           | GJ<br>[mm] | GN<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] |
|---------------------|----------------|------------|------------|------------|------------|------------|
| 1 ½                 | <b>527201</b>  | 120        | 43         | 52         | 92         | 89         |
| 2                   | <b>527202</b>  | 176        | 62         | 69         | 121        | 129        |
| 3                   | <b>527203</b>  | 226        | 71         | 87         | 163        | 171        |
| 4                   | <b>527204</b>  | 273        | 99         | 99         | 205        | 216        |
| 6                   | <b>527206F</b> | 530        | 143        | 233        | 387        | 387        |

# Fuseal Fusion Accessories

## Fusion Collar with Clamp

6" fusion collars without plastic clamp



| Inch Size<br>[inch] | Code        | Pack Qty |  |
|---------------------|-------------|----------|--|
| 1 ½                 | <b>6282</b> | 10       |  |
| 2                   | <b>6283</b> | 10       |  |
| 3                   | <b>6284</b> | 10       |  |
| 4                   | <b>6285</b> | 10       |  |
| 6                   | <b>6287</b> | 10       |  |

## Clamp-Ratchet Closure Style



| Inch Size<br>[inch] | Code          | SP | kg    | Pack Qty |  |
|---------------------|---------------|----|-------|----------|--|
| 1 ½                 | <b>FU1282</b> | -  | 0.010 | 10       |  |
| 2                   | <b>FU1283</b> | -  | 0.015 | 10       |  |
| 3                   | <b>FU1284</b> | -  | 0.019 | 10       |  |
| 4                   | <b>FU1285</b> | -  | 0.050 | 10       |  |

## Clamp (Metal)



| Inch Size<br>[inch] | Code         | SP | kg    | Pack Qty |  |
|---------------------|--------------|----|-------|----------|--|
| 6                   | <b>FU112</b> | -  | 0.181 | 1        |  |

# Fuseal Sea Drain Tools

6008



## MSA 250 EX MULTI PLUS Automatic Electrofusion Unit

- INSTAFLEX BIG/ELGEF/FUSEAL
- including transportation case
- including Barcodescanner
- only available in 230V

| d-d [mm]  | Code               | SP | kg     | Type             |
|-----------|--------------------|----|--------|------------------|
| 125 - 225 | <b>761 069 007</b> | -  | 16.800 | MSA 250 EX MULTI |



## Barcode Set with Continuity Tester

Replacement barcode set with barcode cards for the following systems:  
Fuseal 1 1/2"-12", Fuseal 25/50 1 1/2"-6" and PPro-Seal 1/2"-3".

| Description                          | Code               | SP | kg    |
|--------------------------------------|--------------------|----|-------|
| Barcode Set with Continuity Tester   | <b>799 350 900</b> | -  | 0.300 |
| Continuity Tester                    | <b>799 350 901</b> | -  | 0.200 |
| Operation Mode Cards MSA250 EX Multi | <b>799 350 902</b> | -  | 0.100 |

5314



## Fuseal-Template, electrofusion jointing

| Dimension   | Code               | SP | kg    |
|-------------|--------------------|----|-------|
| 1 1/2" - 6" | <b>761 069 622</b> | 1  | 0.065 |

90 10 90



## PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

| d-d [mm]  | Article                  | Code               | kg    |
|-----------|--------------------------|--------------------|-------|
| 10 - 63   | PPC 63, s max. = 7.2mm   | <b>790 109 001</b> | 0.710 |
| 50 - 110  | PPC 110, s max. = 12.7mm | <b>790 109 002</b> | 1.400 |
| 110 - 160 | PPC 160, s max. = 19.0mm | <b>790 109 003</b> | 2.220 |

90 10 90



## Replacement cutting wheels

- for plastic pipe cutter

| d-d [mm]  | Article                   | Code               | kg    |
|-----------|---------------------------|--------------------|-------|
| 10 - 63   | SR 63 max. s=7,2 mm       | <b>790 109 011</b> | 0.004 |
| 50 - 110  | SR 110/160 max. s=12,7 mm | <b>790 109 012</b> | 0.015 |
| 110 - 160 | SR 160 max. s=19,0 mm     | <b>790 109 013</b> | 0.023 |



## Chamfering tool

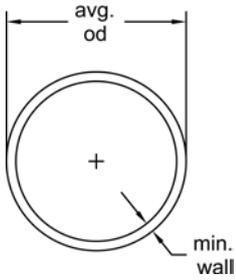
| Size | d-d [mm] | Code               | kg    |
|------|----------|--------------------|-------|
| 1    | 16 - 75  | <b>799 495 145</b> | 0.720 |
| 2    | 32 - 200 | <b>799 495 146</b> | 0.992 |



# Corrosive Waste Pipe - Sch.40 8"-12"

## Group 1 Homopolymer - 20 ft. Lengths

1 1/2" - 6" Available in 20' lengths upon request



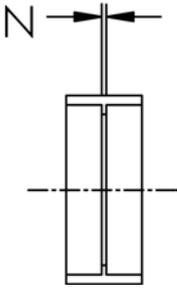
| Inch Size<br>[inch] | lengths<br>[ft] | Code               | Lift Qty<br>[m] | avg. od<br>[mm] | min. wall<br>[mm] |
|---------------------|-----------------|--------------------|-----------------|-----------------|-------------------|
| 8                   | 20              | <b>F8004-080AB</b> | 85              | 219             | 8                 |
| 10                  | 20              | <b>F8004-100AB</b> | 67              | 273             | 9                 |
| 12                  | 20              | <b>F8004-120AB</b> | 30              | 324             | 10                |

### FUSEAL Sea Drain for Large Diameter

| pipe size<br>[inch] | pipe outer diameter |         | wall thickness |         |
|---------------------|---------------------|---------|----------------|---------|
|                     | [inch]              | [mm]    | [inch]         | [mm]    |
| 8                   | 8.625               | 219.075 | 0.500          | 12.7    |
| 10                  | 10.750              | 273.05  | 0.593          | 15.0622 |
| 12                  | 12.750              | 323.85  | 0.687          | 17.4498 |

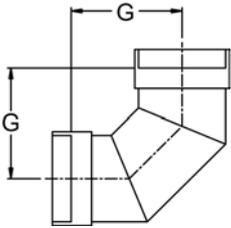
# Large Diameter Fusion Fittings - PPR

## Coupling (SxS)



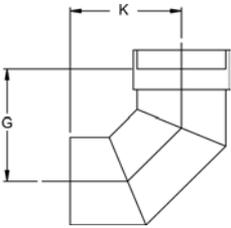
| Inch Size<br>[inch] | FR<br>Code | Pack<br>Qty | N<br>[mm] |  |
|---------------------|------------|-------------|-----------|--|
| 8                   | 527008     | 5           | 6         |  |
| 10                  | 527100     | 3           | 6         |  |
| 12                  | 527120     | 3           | 6         |  |

## 1/4 Bend (SxS)



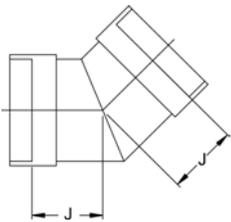
| Inch Size<br>[inch] | FR<br>Code | G<br>[mm] |  |  |
|---------------------|------------|-----------|--|--|
| 8                   | 526258F    | 311       |  |  |
| 10                  | 526255F    | 362       |  |  |
| 12                  | 526257F    | 413       |  |  |

## 1/4 Bend (SxS)



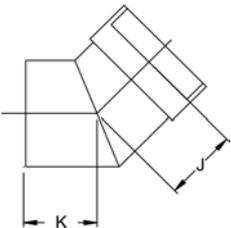
| Inch Size<br>[inch] | FR<br>Code | G<br>[mm] | K<br>[mm] |  |
|---------------------|------------|-----------|-----------|--|
| 8                   | 526458F    | 311       | 305       |  |
| 10                  | 526455F    | 362       | 356       |  |
| 12                  | 526457F    | 413       | 406       |  |

## 1/8 Bend (SxS)



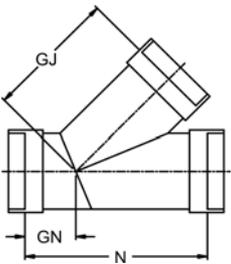
| Inch Size<br>[inch] | FR<br>Code | J<br>[mm] |  |  |
|---------------------|------------|-----------|--|--|
| 8                   | 526508F    | 176       |  |  |
| 10                  | 526505F    | 197       |  |  |
| 12                  | 526507F    | 216       |  |  |

## 1/8 Bend (SxS)



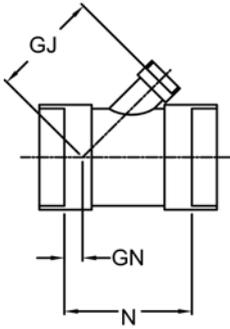
| Inch Size<br>[inch] | FR<br>Code | J<br>[mm] | K<br>[mm] |  |
|---------------------|------------|-----------|-----------|--|
| 8                   | 526408F    | 176       | 170       |  |
| 10                  | 526405F    | 197       | 184       |  |
| 12                  | 526407F    | 216       | 210       |  |

## 45° Wye (SxSxS)



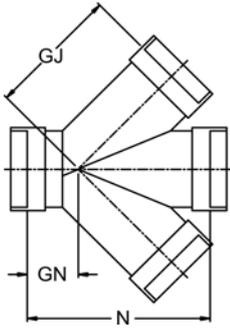
| Inch Size<br>[inch] | FR<br>Code | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |  |
|---------------------|------------|------------|------------|-----------|--|
| 8                   | 526308F    | 394        | 178        | 572       |  |
| 10                  | 526305F    | 527        | 197        | 724       |  |
| 12                  | 526300F    | 559        | 216        | 775       |  |

## 45° Wye (SxSxS)



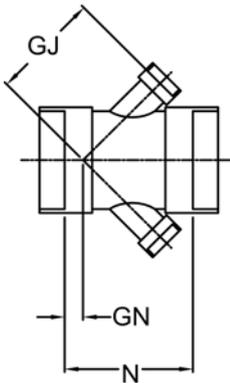
| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 8 x 8 x 3           | <b>526347T</b> | 267        | 38         | 305       |
| 8 x 8 x 4           | <b>526346T</b> | 279        | 51         | 330       |
| 8 x 8 x 6           | <b>526345T</b> | 318        | 89         | 406       |
| 10 x 10 x 3         | <b>526321T</b> | 305        | 51         | 356       |
| 10 x 10 x 4         | <b>526322T</b> | 321        | 54         | 375       |
| 10 x 10 x 6         | <b>526323T</b> | 368        | 102        | 470       |
| 10 x 10 x 8         | <b>526324T</b> | 400        | 133        | 533       |
| 12 x 12 x 4         | <b>526332T</b> | 356        | 38         | 394       |
| 12 x 12 x 6         | <b>526333T</b> | 394        | 76         | 470       |
| 12 x 12 x 8         | <b>526334T</b> | 438        | 114        | 629       |
| 12 x 12 x 10        | <b>526335T</b> | 489        | 152        | 641       |

## 45° Wye - Double (S x S x S x S)



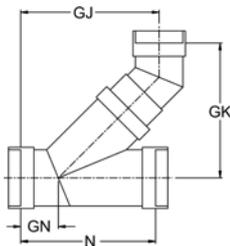
| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|-----------|
| 8                   | <b>526352F</b> | 394        | 178        | 572       |
| 10                  | <b>526355F</b> | 527        | 197        | 724       |
| 12                  | <b>526350F</b> | 559        | 216        | 775       |

## Double 45° Wye (SxSxSxS)



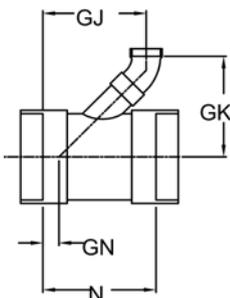
| Size<br>[inch]    | FR<br>Code     | GJ<br>[mm] | GN<br>[mm] | N<br>[mm] |
|-------------------|----------------|------------|------------|-----------|
| 8 x 8 x 3 x 3     | <b>526393T</b> | 267        | 38         | 305       |
| 8 x 8 x 4 x 4     | <b>526391T</b> | 279        | 51         | 330       |
| 8 x 8 x 6 x 6     | <b>526392T</b> | 318        | 89         | 406       |
| 10 x 10 x 3 x 3   | <b>526370T</b> | 335        | 55         | 391       |
| 10 x 10 x 4 x 4   | <b>526371T</b> | 321        | 54         | 375       |
| 10 x 10 x 6 x 6   | <b>526372T</b> | 368        | 102        | 470       |
| 10 x 10 x 8 x 8   | <b>526373T</b> | 400        | 133        | 533       |
| 12 x 12 x 4 x 4   | <b>526394T</b> | 356        | 38         | 394       |
| 12 x 12 x 6 x 6   | <b>526395T</b> | 394        | 76         | 470       |
| 12 x 12 x 8 x 8   | <b>526396T</b> | 438        | 114        | 552       |
| 12 x 12 x 10 x 10 | <b>526397T</b> | 489        | 152        | 641       |

## Combination Wye and 1/8 Bend (S x S x S)



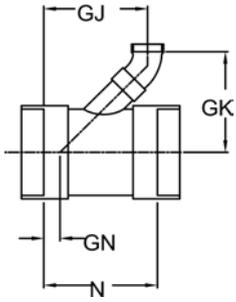
| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GK<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|------------|-----------|
| 8                   | <b>526716F</b> | 575        | 575        | 178        | 572       |
| 10                  | <b>526700F</b> | 705        | 705        | 197        | 724       |
| 12                  | <b>526701F</b> | 762        | 762        | 216        | 775       |

## Combination Wye and 1/8 Bend (S x S x S)



| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GK<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|------------|-----------|
| 8 x 8 x 3           | <b>526709T</b> | 286        | 292        | 38         | 305       |
| 8 x 8 x 4           | <b>526717T</b> | 305        | 311        | 51         | 330       |
| 8 x 8 x 6           | <b>526715T</b> | 399        | 395        | 89         | 406       |
| 10 x 10 x 3         | <b>526707T</b> | 325        | 319        | 51         | 356       |
| 10 x 10 x 4         | <b>526721T</b> | 340        | 341        | 54         | 375       |
| 10 x 10 x 6         | <b>526711T</b> | 448        | 432        | 102        | 470       |
| 10 x 10 x 8         | <b>526712T</b> | 537        | 578        | 133        | 533       |
| 12 x 12 x 4         | <b>526720T</b> | 348        | 365        | 38         | 394       |

table continued next page

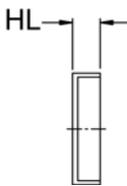


| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GK<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|------------|-----------|
| 12 x 12 x 6         | <b>526718T</b> | 440        | 449        | 76         | 470       |
| 12 x 12 x 8         | <b>526719T</b> | 545        | 605        | 114        | 552       |
| 12 x 12 x 10        | <b>526710T</b> | 632        | 678        | 152        | 641       |



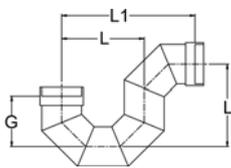
### Increaser (SpgxSpg)

| Inch Size<br>[inch] | FR<br>Code     | N<br>[mm] |
|---------------------|----------------|-----------|
| 8 x 3               | <b>527035F</b> | 51        |
| 8 x 4               | <b>527034F</b> | 44        |
| 8 x 6               | <b>527033F</b> | 41        |
| 10 x 3              | <b>527040F</b> | 25        |
| 10 x 4              | <b>527030F</b> | 30        |
| 10 x 6              | <b>527031F</b> | 38        |
| 10 x 8              | <b>527032F</b> | 54        |
| 12 x 4              | <b>527036F</b> | 25        |
| 12 x 6              | <b>527037F</b> | 38        |
| 12 x 8              | <b>527038F</b> | 51        |
| 12 x 10             | <b>527039F</b> | 76        |



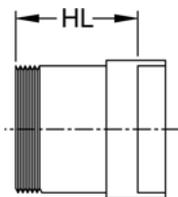
### Cap (S)

| Inch Size<br>[inch] | FR<br>Code     | HL<br>[mm] |
|---------------------|----------------|------------|
| 8                   | <b>527088</b>  | 46         |
| 10                  | <b>527090F</b> | 86         |
| 12                  | <b>527092F</b> | 86         |



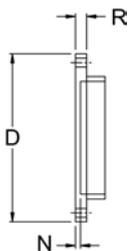
### P-Trap - Fuseal Connection

| Inch Size<br>[inch] | FR<br>Code     | G<br>[mm] | L<br>[mm] | L1<br>[mm] |
|---------------------|----------------|-----------|-----------|------------|
| 8                   | <b>527208F</b> | 311       | 464       | 775        |
| 10                  | <b>527210F</b> | 362       | 565       | 927        |
| 12                  | <b>527212F</b> | 413       | 673       | 1086       |



### Male Adapter (S x MPT)

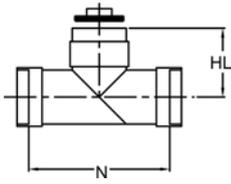
| Inch Size<br>[inch] | NFR<br>Code  | HL<br>[mm] |
|---------------------|--------------|------------|
| 8                   | <b>6878F</b> | 111        |



### Flange - Van Stone 150 lb. Pattern (S)

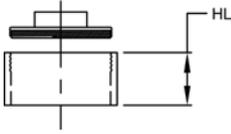
Flange ring material: PVC

| Inch Size<br>[inch] | NFR<br>Code | #<br>holes | bolt<br>hole<br>dia.<br>[mm] | bolt<br>cir.<br>dia.<br>[mm] | D<br>[mm] | N<br>[mm] | R<br>[mm] | Bolt Length<br>[inch] |
|---------------------|-------------|------------|------------------------------|------------------------------|-----------|-----------|-----------|-----------------------|
| 8                   | <b>6928</b> | 8          | 22                           | 298                          | 343       | 11        | 43        | 3.50                  |
| 10                  | <b>6930</b> | 12         | 25                           | 362                          | 406       | 13        | 44        | 3.75                  |
| 12                  | <b>6932</b> | 12         | 25                           | 432                          | 483       | 13        | 43        | 4.00                  |



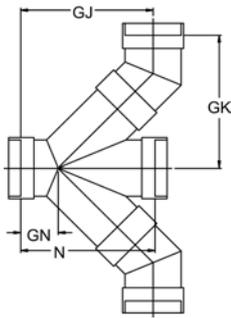
### Cleanout Tee w / Plug (SxSxST)

| Inch Size<br>[inch] | NFR<br>Code   | HL<br>[mm] | N<br>[mm] |
|---------------------|---------------|------------|-----------|
| 8                   | <b>6119AF</b> | 279        | 572       |
| 10                  | <b>6120AF</b> | 356        | 724       |
| 12                  | <b>6121AF</b> | 381        | 775       |



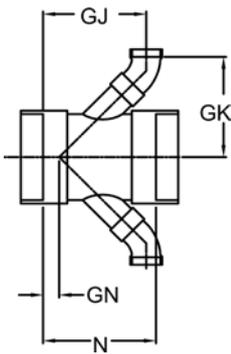
### Cleanout Adapter with Plug (S x FT)

| Inch Size<br>[inch] | NFR<br>Code   | HL<br>[mm] |
|---------------------|---------------|------------|
| 8                   | <b>7708AF</b> | 102        |
| 10                  | <b>7710AF</b> | 127        |
| 12                  | <b>7712AF</b> | 127        |



### Combo Wye (90°) - Double (SxSxSxS)

| Inch Size<br>[inch] | FR<br>Code     | GJ<br>[mm] | GK<br>[mm] | GN<br>[mm] | N<br>[mm] |
|---------------------|----------------|------------|------------|------------|-----------|
| 8                   | <b>526816F</b> | 575        | 575        | 178        | 572       |
| 10                  | <b>526800F</b> | 705        | 705        | 197        | 724       |
| 12                  | <b>526801F</b> | 762        | 762        | 216        | 775       |



### Combo Wye (90°) - Double Reducing (SxSxSxS)

| Size<br>[inch]    | FR<br>Code     | GJ<br>[mm] | GK<br>[mm] | GN<br>[mm] | N<br>[mm] |
|-------------------|----------------|------------|------------|------------|-----------|
| 8 x 8 x 3 x 3     | <b>526809T</b> | 286        | 292        | 38         | 305       |
| 8 x 8 x 4 x 4     | <b>526817T</b> | 305        | 311        | 51         | 330       |
| 8 x 8 x 6 x 6     | <b>526815T</b> | 399        | 395        | 89         | 406       |
| 10 x 10 x 3 x 3   | <b>526807T</b> | 325        | 319        | 51         | 356       |
| 10 x 10 x 4 x 4   | <b>526821T</b> | 340        | 341        | 54         | 375       |
| 10 x 10 x 6 x 6   | <b>526811T</b> | 448        | 432        | 102        | 470       |
| 10 x 10 x 8 x 8   | <b>526812T</b> | 537        | 578        | 133        | 533       |
| 12 x 12 x 4 x 4   | <b>526820T</b> | 348        | 365        | 38         | 394       |
| 12 x 12 x 6 x 6   | <b>526818T</b> | 440        | 449        | 76         | 470       |
| 12 x 12 x 8 x 8   | <b>526819T</b> | 545        | 605        | 114        | 552       |
| 12 x 12 x 10 x 10 | <b>526810T</b> | 632        | 678        | 152        | 641       |

# Fuseal Fusion Accessories for large Diameter

## Coils (for use with Fuseal LD)



| Inch Size<br>[inch] | Code        | Pack Qty |  |
|---------------------|-------------|----------|--|
| 8                   | <b>6088</b> | 10       |  |
| 10                  | <b>6090</b> | 10       |  |
| 12                  | <b>6092</b> | 10       |  |



## Clamp (Metal)

| Inch Size<br>[inch] | Code         | SP | GP | kg    | kg/m  | Pack Qty |  |
|---------------------|--------------|----|----|-------|-------|----------|--|
| 8                   | <b>FU118</b> | -  | -  | 0.227 | 0.227 | 1        |  |
| 10                  | <b>FU119</b> | -  | -  | 0.272 | 0.272 | 1        |  |
| 12                  | <b>FU120</b> | -  | -  | 0.272 | 0.272 | 1        |  |

# Signet

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# Signet

## Electrodes

### Type 2819 Conductivity/Resistivity Electrode



#### Conductivity/Resistivity:

- Wetted Materials: 316 SST or Titanium
- Process Connection Choices: 3/4 inch threads for In-line or Submersion, 1.5 inch Sanitary Tri-clamp flange and 2 inch Sanitary Tri-clamp flange
- Cell constants and corresponding measuring ranges: 0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)  
20.0 cm<sup>-1</sup> / 200 to 400,000 μS (100 to 200,000 ppm)
- Compatible Instruments: Signet Instrument Types: 5800CR, 5900, 8850, 8860 or the 8900 (when used with the 2850)
- Thread styles are reversible threads or fixed threads

| MFR #      | Cell Constant<br>[cm <sup>-1</sup> ] | Electrode | Process Connection | Thread     | Code               |
|------------|--------------------------------------|-----------|--------------------|------------|--------------------|
| 3-2819-1   | 0.01                                 | 316 SST   | Threaded           | Reversible | <b>198 844 010</b> |
| 3-2819-1C  | 0.01                                 | 316 SST   | Threaded           | Reversible | <b>159 000 651</b> |
| 3-2819-S1  | 0.01                                 | 316 SST   | 1.5 inch flange    |            | <b>159 000 085</b> |
| 3-2819-S1C | 0.01                                 | 316 SST   | 1.5 inch flange    |            | <b>159 000 087</b> |
| 3-2819-S2  | 0.01                                 | 316 SST   | 2 inch flange      |            | <b>159 000 086</b> |
| 3-2819-S2C | 0.01                                 | 316 SST   | 2 inch flange      |            | <b>159 000 088</b> |
| 3-2819-T1  | 0.01                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 081</b> |
| 3-2819-T1C | 0.01                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 083</b> |
| 3-2819-T2  | 0.01                                 | Titanium  | 2 inch flange      |            | <b>159 000 082</b> |
| 3-2819-T2C | 0.01                                 | Titanium  | 2 inch flange      |            | <b>159 000 084</b> |

### Type 2820 Conductivity/Resistivity Electrode



#### Conductivity/Resistivity:

- Wetted Materials: 316 SST or Titanium
- Process Connection Choices: 3/4 inch threads for In-line or Submersion, 1.5 inch Sanitary Tri-clamp flange and 2 inch Sanitary Tri-clamp flange
- Cell constants and corresponding measuring ranges: 0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)  
20.0 cm<sup>-1</sup> / 200 to 400,000 μS (100 to 200,000 ppm)
- Compatible Instruments: Signet Instrument Types: 5800CR, 5900, 8850, 8860 or the 8900 (when used with the 2850)
- Thread styles are reversible threads or fixed threads

| MFR #      | Cell Constant<br>[cm <sup>-1</sup> ] | Electrode | Process Connection | Thread     | Code               |
|------------|--------------------------------------|-----------|--------------------|------------|--------------------|
| 3-2820-1   | 0.10                                 | 316 SST   | Threaded           | Reversible | <b>198 844 000</b> |
| 3-2820-1C  | 0.10                                 | 316 SST   | Threaded           | Reversible | <b>159 000 654</b> |
| 3-2820-S1  | 0.10                                 | 316 SST   | 1.5 inch flange    |            | <b>159 000 089</b> |
| 3-2820-S1C | 0.10                                 | 316 SST   | 1.5 inch flange    |            | <b>159 000 091</b> |
| 3-2820-S2  | 0.10                                 | 316 SST   | 2 inch flange      |            | <b>159 000 090</b> |
| 3-2820-S2C | 0.10                                 | 316 SST   | 2 inch flange      |            | <b>159 000 092</b> |
| 3-2820-T1  | 0.10                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 624</b> |
| 3-2820-T1C | 0.10                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 655</b> |
| 3-2820-T2  | 0.10                                 | Titanium  | 2 inch flange      |            | <b>159 000 625</b> |
| 3-2820-T2C | 0.10                                 | Titanium  | 2 inch flange      |            | <b>159 000 656</b> |

# Signet

## Type 2821 Conductivity/Resistivity Electrode



### Conductivity/Resistivity:

- Wetted Materials: 316 SST or Titanium
- Process Connection Choices: 3/4 inch threads for In-line or Submersion, 1.5 inch Sanitary Tri-clamp flange and 2 inch Sanitary Tri-clamp flange
- Cell constants and corresponding measuring ranges: 0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)  
20.0 cm<sup>-1</sup> / 200 to 400,000 μS (100 to 200,000 ppm)
- Compatible Instruments: Signet Instrument Types: 5800CR, 5900, 8850, 8860 or the 8900 (when used with the 2850)
- Thread styles are reversible threads or fixed threads

| MFR #      | Cell Constant<br>[cm <sup>-1</sup> ] | Electrode | Process Connection | Thread     | Code               |
|------------|--------------------------------------|-----------|--------------------|------------|--------------------|
| 3-2821-1   | 1.00                                 | 316 SST   | Threaded           | Reversible | <b>198 844 001</b> |
| 3-2821-1C  | 1.00                                 | 316 SST   | Threaded           | Reversible | <b>159 000 650</b> |
| 3-2821-S1  | 1.00                                 | 316 SST   | Threaded           |            | <b>159 000 093</b> |
| 3-2821-S1C | 1.00                                 | 316 SST   | Threaded           |            | <b>159 000 095</b> |
| 3-2821-S2  | 1.00                                 | 316 SST   | Threaded           |            | <b>159 000 094</b> |
| 3-2821-S2C | 1.00                                 | 316 SST   | Threaded           |            | <b>159 000 096</b> |
| 3-2821-T1  | 1.00                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 626</b> |
| 3-2821-T1C | 1.00                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 652</b> |
| 3-2821-T2  | 1.00                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 627</b> |
| 3-2821-T2C | 1.00                                 | Titanium  | 1.5 inch flange    |            | <b>159 000 653</b> |

## Type 2822/2823 Conductivity/Resistivity Electrode



### Conductivity/Resistivity:

- Wetted Materials: 316 SST or Titanium
- Process Connection Choices: 3/4 inch threads for In-line or Submersion, 1.5 inch Sanitary Tri-clamp flange and 2 inch Sanitary Tri-clamp flange
- Cell constants and corresponding measuring ranges: 0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)  
20.0 cm<sup>-1</sup> / 200 to 400,000 μS (100 to 200,000 ppm)
- Compatible Instruments: Signet Instrument Types: 5800CR, 5900, 8850, 8860 or the 8900 (when used with the 2850)
- Additional Features: (2823) Thread is reversible for submersion mounting

| MFR #    | Cell Constant<br>[cm <sup>-1</sup> ] | Electrode | Code               |
|----------|--------------------------------------|-----------|--------------------|
| 3-2822-1 | 10.00                                | 316 SST   | <b>198 844 002</b> |
| 3-2823-1 | 20.00                                | 316 SST   | <b>198 844 003</b> |

# Signet

## Type 2839-2842 Conductivity Electrodes Dual-threaded



### Conductivity/Resistivity:

- Wetted Materials: 316 SST and PEEK
- Process Connection Choices: 3/4 inch or ISO 7/1-R 3/4 threads for In-line or Submersion
- Cell constants and corresponding measuring ranges:  
0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)
- Compatible Instruments: Signet Instrument Types: 5800CR, 5900, 8850, 8860 or the 8900 (when used with the 2850)
- Additional Features: Short sensor bodies allow for insertion into smaller pipes
- Thread style is fixed NPT

| MFR #     | Cell Constant<br>[cm <sup>-1</sup> ] | Thread size   | Code               |
|-----------|--------------------------------------|---------------|--------------------|
| 3-2839-1  | 0.01                                 | 3/4 inch NPT  | <b>159 000 921</b> |
| 3-2839-1D | 0.01                                 | ISO 7/1-R 3/4 | <b>159 000 923</b> |
| 3-2840-1  | 0.10                                 | 3/4 inch NPT  | <b>159 000 786</b> |
| 3-2840-1D | 0.10                                 | ISO 7/1-R 3/4 | <b>159 000 788</b> |
| 3-2841-1  | 1.00                                 | 3/4 inch NPT  | <b>159 000 790</b> |
| 3-2841-1D | 1.00                                 | ISO 7/1-R 3/4 | <b>159 000 792</b> |
| 3-2842-1  | 10.00                                | 3/4 inch NPT  | <b>159 000 794</b> |
| 3-2842-1D | 10.00                                | ISO 7/1-R 3/4 | <b>159 000 796</b> |



## Type 2850 Conductivity/Resistivity Integral Systems

### Conductivity/Resistivity:

- Wetted Materials: 316 SST and PEEK
- Process Connection Choices: 3/4 inch or ISO 7/1-R 3/4 threads for In-line or Submersion
- Cell constants and corresponding measuring ranges:  
0.01 cm<sup>-1</sup> / 0.55 to 100 μS (18.3 mΩ to 10 KΩ)  
0.1 cm<sup>-1</sup> / 1 to 1000 μS (1 mΩ to 1 KΩ)  
1.0 cm<sup>-1</sup> / 10 to 10,000 μS (5 to 5,000 ppm)  
10.0 cm<sup>-1</sup> / 100 to 200,000 μS (50 to 100,000 ppm)
- Compatible Instruments: Signet Instrument Type: 8900
- Additional Features: Output choices are digital (S3L) for use with the Signet 8900 or 4 to 20mA
- Thread style is fixed NPT

| MFR #         | Mounting              | Cell Constant<br>[cm <sup>-1</sup> ] | Output        | Code               |
|---------------|-----------------------|--------------------------------------|---------------|--------------------|
| 3-2850-51-39  | In-line, 3/4 inch NPT | 0.01                                 | Digital (S3L) | <b>159 001 339</b> |
| 3-2850-51-40  | In-line, 3/4 inch NPT | 0.10                                 | Digital (S3L) | <b>159 001 340</b> |
| 3-2850-51-41  | In-line, 3/4 inch NPT | 1.00                                 | Digital (S3L) | <b>159 001 341</b> |
| 3-2850-51-42  | In-line, 3/4 inch NPT | 10.00                                | Digital (S3L) | <b>159 001 342</b> |
| 3-2850-51-39D | In-line, 3/4 ISO      | 0.01                                 | Digital (S3L) | <b>159 001 343</b> |
| 3-2850-51-40D | In-line, 3/4 ISO      | 0.10                                 | Digital (S3L) | <b>159 001 344</b> |
| 3-2850-51-41D | In-line, 3/4 ISO      | 1.00                                 | Digital (S3L) | <b>159 001 345</b> |
| 3-2850-51-42D | In-line, 3/4 ISO      | 10.00                                | Digital (S3L) | <b>159 001 346</b> |
| 3-2850-52-39  | In-line, 3/4 inch NPT | 0.01                                 | 4 - 20mA      | <b>159 001 347</b> |
| 3-2850-52-40  | In-line, 3/4 inch NPT | 0.10                                 | 4 - 20mA      | <b>159 001 348</b> |
| 3-2850-52-41  | In-line, 3/4 inch NPT | 1.00                                 | 4 - 20mA      | <b>159 001 349</b> |
| 3-2850-52-42  | In-line, 3/4 inch NPT | 10.00                                | 4 - 20mA      | <b>159 001 350</b> |
| 3-2850-52-39D | In-line, 3/4 ISO      | 0.01                                 | 4 - 20mA      | <b>159 001 351</b> |
| 3-2850-52-40D | In-line, 3/4 ISO      | 0.10                                 | 4 - 20mA      | <b>159 001 352</b> |
| 3-2850-52-41D | In-line, 3/4 ISO      | 1.00                                 | 4 - 20mA      | <b>159 001 353</b> |
| 3-2850-52-42D | In-line, 3/4 ISO      | 10.00                                | 4 - 20mA      | <b>159 001 354</b> |

# Signet

## Type 2850 Conductivity/Resistivity Sensor Electronics



### Conductivity/Resistivity:

- Accepts any cell constant
- Compatible with all Signet Conductivity Sensors
- Output choices include digital (S3L) for use with the Signet 8900 of 4 to 20mA
- Compatible with Signet Instrument Type 8900 or instruments accepting a 4 to 20mA output
- Single or dual input available for remote mount version (S3L) only

| MFR #     | Mounting        | Output                           | Code               |  |
|-----------|-----------------|----------------------------------|--------------------|--|
| 3-2850-51 | 3/4 inch FNPT   | Digital (S3L), one input         | <b>159 001 398</b> |  |
| 3-2850-52 | 3/4 inch FNPT   | 4 - 20mA, one input              | <b>159 001 399</b> |  |
| 3-2850-61 | Universal Mount | Digital (S3L), one input         | <b>159 001 400</b> |  |
| 3-2850-62 | Universal Mount | 4 - 20mA, one input              | <b>159 001 401</b> |  |
| 3-2850-63 | Universal Mount | Digital (S3L), one or two inputs | <b>159 001 402</b> |  |

# Signet

## Needle Dial/LCD Display Instruments

### Type 5800CR Conductivity/Resistivity Monitor with Relays



#### Instruments:

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: 2 SPDT Relays
- Current Output: 4-20 mA output, non-isolated, internally-powered (active)
- Compatible Sensors: 28xx Electrodes

| MFR #    | Description                      | Code        |  |
|----------|----------------------------------|-------------|--|
| 3-5800CR | Conductivity/Resistivity Monitor | 198 825 005 |  |



### Type 5900 Salinity Monitor

#### Instruments:

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: 2 SPDT Relays
- Current Output: 4-20 mA output, non-isolated, internally-powered (active)
- Compatible Sensors: 28xx Series Sensors

| MFR #  | Description      | Code        |  |
|--------|------------------|-------------|--|
| 3-5900 | Salinity Monitor | 198 825 008 |  |

# Signet

## Digital Display Instruments

### Type 8850 Conductivity Transmitter



#### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: 1 input
- Power Input: 9.9 - 26.4 VDC or 85 - 240 VAC option
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): Up to 2 SPDT Relays or Open Collector Outputs
- Compatible Sensor(s): 28xx Series Conductivity Sensors

| MFR #     | Mount | Inputs | Current O/P | Relays | O.C. | Code               |
|-----------|-------|--------|-------------|--------|------|--------------------|
| 3-8850-1  | Field | 1      | 1           |        | 1    | <b>159 000 228</b> |
| 3-8850-1P | Panel | 1      | 1           |        | 1    | <b>159 000 229</b> |
| 3-8850-2  | Field | 1      | 1           | 2      |      | <b>159 000 230</b> |
| 3-8850-2P | Panel | 1      | 1           | 2      |      | <b>159 000 231</b> |
| 3-8850-3  | Field | 1      | 2           |        | 2    | <b>159 000 232</b> |
| 3-8850-3P | Panel | 1      | 2           |        | 2    | <b>159 000 233</b> |



### Type 8860 Two-Channel Conductivity/Resistivity Controller

#### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: 2 inputs
- Power Input: 12-24 Volts, DC, regulated
- Current Output(s): 3, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): 4 Relays, 3 Open Collector Outputs (switch-selectable)
- Compatible Sensor(s): 28xx Series Conductivity Sensors

| MFR #     | Inputs | Current O/P | Relays/O.C. | Code               |
|-----------|--------|-------------|-------------|--------------------|
| 3-8860    | 2      | 3           | 4/3         | <b>159 000 677</b> |
| 3-8860-AC | 2      | 3           | 4/3         | <b>159 000 678</b> |

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**Integral Mounted ProcessPro: Conductivity**

# Signet

## Preamplifiers

### Type 2721 Remote pH/ORP Preamplifier



**pH/ORP:**

- Input Power:  $\pm 4.5$  to  $\pm 8$  VDC dual supply (provided by Signet pH/ORP instruments)
- Material: Housing low density polyethylene
- Max. Temperature/Pressure Rating:  $-15^{\circ}\text{C}$  to  $65^{\circ}\text{C}$  ( $-5^{\circ}\text{F}$  to  $150^{\circ}\text{F}$ )
- Compatible Instruments: Signet 5700 and 8750

| MFR #  | Description  | Mounting     | Connection | Code               | For Type   |
|--------|--------------|--------------|------------|--------------------|------------|
| 3-2721 | Preamplifier | Remote mount | Twist Lock | <b>198 864 610</b> | 5700, 8750 |

### Type 2750 pH/ORP Sensor Electronics



**pH/ORP:**

- Connection: Durable DryLoc® with gold plated connections
- Compatible Sensors: 2754 - 2757, 2764 - 2767, 2774 - 2777, 2724 - 2726
- Compatible Instruments: Signet 8900
- Additional Features: Options for S3L and 4 - 20mA outputs
- Mounting styles: In-line integral mount and submersion



| MFR #    | Mounting             | Connection | Code               |
|----------|----------------------|------------|--------------------|
| 3-2750-1 | In-line              | DryLoc     | <b>159 000 744</b> |
| 3-2750-2 | In-line with Easycal | DryLoc     | <b>159 000 745</b> |
| 3-2750-3 | NPT, submersible     | DryLoc     | <b>159 000 746</b> |
| 3-2750-4 | ISO, submersible     | DryLoc     | <b>159 000 842</b> |

### Type 2760 pH/ORP Preamplifier



**pH/ORP:**

- Compatible Instruments: Signet 5700 and 8750
- Connection: Durable DryLoc® with gold plated connections
- Compatible Sensors: 2754 - 2757, 2764 - 2767, 2774 - 2777, 2724 - 2726
- Mounting styles: In-line integral mount and submersion



| MFR #     | Description  | Mounting         | Connection | Code               |
|-----------|--------------|------------------|------------|--------------------|
| 3-2760-1  | Preamplifier | NPT, submersible | DryLoc     | <b>159 000 939</b> |
| 3-2760-2  | Preamplifier | ISO, submersible | DryLoc     | <b>159 000 940</b> |
| 3-2760-3  | Connector    | NPT, submersible | DryLoc     | <b>159 000 941</b> |
| 3-2760-4  | Connector    | ISO, submersible | DryLoc     | <b>159 000 942</b> |
| 3-2760-11 | Preamplifier | NPT, in-line     | DryLoc     | <b>159 001 367</b> |
| 3-2760-21 | Preamplifier | ISO, in-line     | DryLoc     | <b>159 001 368</b> |
| 3-2760-31 | Connector    | NPT, in-line     | DryLoc     | <b>159 001 369</b> |
| 3-2760-41 | Connector    | ISO, in-line     | DryLoc     | <b>159 001 370</b> |

# Signet

## Electrodes



### Type 2714/2716 Twist-Lock pH Electrodes

**pH/ORP:**

- Wetted Materials: CPVC, FPM, UHMW polyethylene, glass
- Connection: Twist-lock
- Compatible Preamp: 2720
- Compatible Instruments: Signet 5700 and 8750
- Additional features: HF and DI options are available
- In-line Mounting styles: Uses Signet installation fittings
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, etc.

| MFR #       | Electrode | Style           | Code               |
|-------------|-----------|-----------------|--------------------|
| * 3-2714    | pH        | Flat            | <b>198 844 300</b> |
| * 3-2714-HF | pH        | Flat, HF resist | <b>198 844 305</b> |
| * 3-2716    | pH        | Bulb            | <b>198 844 302</b> |
| * 3-2716-DI | pH        | Bulb, DI resist | <b>198 844 306</b> |



### Type 2715/2717 Twist-Lock ORP Electrodes

**pH/ORP:**

- Wetted Materials: CPVC, FPM, UHMW polyethylene, glass
- Connection: Twist-lock
- Compatible Preamp: 2720
- In-line Mounting styles: Uses Signet installation fittings
- Applications: Water treatment, water quality monitoring, etc.
- Additional features: HF and DI options are available
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Compatible Instruments: Signet 5700 and 8750

| MFR #    | Electrode | Style | Code               |
|----------|-----------|-------|--------------------|
| * 3-2715 | ORP       | Flat  | <b>198 844 301</b> |
| * 3-2717 | ORP       | Bulb  | <b>198 844 303</b> |



### Type 2716-WT Wet-Tap Twist-Lock pH Electrodes

**pH/ORP:**

- Wetted Materials: Glass or plastic bodies, PTFE, glass sensing tips, FPM
- Connection: Twist-lock
- Compatible Preamp: 2720
- Compatible Instruments: Use the 2720 preamplifier with the Signet 5700 or 8750
- In-line Mounting styles: Used only with the 3719 Wet-Tap Assembly
- Applications: Water treatment, water quality monitoring, etc.

| MFR #       | Electrode | Style         | Mounting              | Code               |
|-------------|-----------|---------------|-----------------------|--------------------|
| * 3-2716-WT | pH        | Bulb, Wet-Tap | with wet-tap assembly | <b>159 000 809</b> |

# Signet

## Type 2717-WT Wet-Tap Twist-Lock ORP Electrodes



### pH/ORP:

- Wetted Materials: Glass or plastic bodies, PTFE, glass sensing tips, FPM
- Connection: Twist-lock
- Compatible Preamp: 2720
- Compatible Instruments: Use the 2720 preamplifier with the Signet 5700 or 8750
- In-line Mounting styles: Used only with the 3719 Wet-Tap Assembly
- Applications: Water treatment, water quality monitoring, etc.

| MFR #       | Electrode | Style         | Mounting              | Code        |
|-------------|-----------|---------------|-----------------------|-------------|
| * 3-2717-WT | ORP       | Bulb, Wet-Tap | with wet-tap assembly | 159 000 811 |



## Type 2754/2756 DryLoc pH Electrodes

### pH/ORP:

- 2754-2757 will be discontinued in 2009
- Wetted Materials: CPVC, FPM, UHMW polyethylene, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional features: HF and DI options are available
- In-line Mounting styles: Uses Signet installation fittings
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, etc.

| MFR #       | Electrode           | Compatible Pre-amplifier | Code        |
|-------------|---------------------|--------------------------|-------------|
| 3-2754      | pH, Flat            | 2750 DryLoc              | 159 000 747 |
| 3-2754-1    | pH, Flat            | 2760 DryLoc              | 159 001 380 |
| 3-2754-HF   | pH, Flat, HF resist | 2750 DryLoc              | 159 000 748 |
| 3-2754-HF-1 | pH, Flat, HF resist | 2760 DryLoc              | 159 001 381 |
| 3-2756      | pH, Bulb            | 2750 DryLoc              | 159 000 750 |
| 3-2756-1    | pH, Bulb            | 2760 DryLoc              | 159 001 397 |
| 3-2756-DI   | pH, Bulb, DI resist | 2750 DryLoc              | 159 000 751 |
| 3-2756-DI-1 | pH, Bulb, DI resist | 2760 DryLoc              | 159 001 382 |



## Type 2724/2726 DryLoc pH/ORP Electrodes

### pH/ORP:

- Wetted Materials: Ryton, UHMW polyethylene, FPM, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional Features: HF and LC options available
- In-line Mounting styles: Standard 3/4 inch or ISO threaded fittings
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, etc.

| MFR #     | Electrode | Style | Temperature Compensation | Code        |
|-----------|-----------|-------|--------------------------|-------------|
| 3-2724-00 | pH        | Flat  | PT1000                   | 159 001 545 |
| 3-2724-01 | pH        | Flat  | PT1000                   | 159 001 546 |
| 3-2724-10 | pH        | Flat  | 3K                       | 159 001 547 |

table continued next page

# Signet

| MFR #        | Electrode | Style                  | Temperature Compensation | Code               |
|--------------|-----------|------------------------|--------------------------|--------------------|
| 3-2724-11    | pH        | Flat                   | 3K                       | <b>159 001 548</b> |
| 3-2725-60    | ORP       | Flat                   |                          | <b>159 001 561</b> |
| 3-2725-61    | ORP       | Flat                   |                          | <b>159 001 562</b> |
| 3-2726-00    | pH        | Bulb                   | PT1000                   | <b>159 001 553</b> |
| 3-2726-01    | pH        | Bulb                   | PT1000                   | <b>159 001 554</b> |
| 3-2726-10    | pH        | Bulb                   | 3K                       | <b>159 001 555</b> |
| 3-2726-11    | pH        | Bulb                   | 3K                       | <b>159 001 556</b> |
| 3-2726-HF-00 | pH        | Bulb, HF resist        | PT1000                   | <b>159 001 549</b> |
| 3-2726-HF-01 | pH        | Bulb, HF resist        | PT1000                   | <b>159 001 550</b> |
| 3-2726-HF-10 | pH        | Bulb, HF resist        | 3K                       | <b>159 001 551</b> |
| 3-2726-HF-11 | pH        | Bulb, HF resist        | 3K                       | <b>159 001 552</b> |
| 3-2726-LC-00 | pH        | Bulb, Low Conductivity | PT1000                   | <b>159 001 557</b> |
| 3-2726-LC-01 | pH        | Bulb, Low Conductivity | PT1000                   | <b>159 001 558</b> |
| 3-2726-LC-10 | pH        | Bulb, Low Conductivity | 3K                       | <b>159 001 559</b> |
| 3-2726-LC-11 | pH        | Bulb, Low Conductivity | 3K                       | <b>159 001 560</b> |



## Type 2755/2757 DryLoc ORP Electrodes

### pH/ORP:

- Wetted Materials: CPVC, FPM, UHMW polyethylene, glass
- Additional features: HF and DI options are available
- In-line Mounting styles: Uses Signet installation fittings
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, etc.
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Connection: Durable DryLoc® with gold plated connections
- 2754-2757 will be discontinued in 2009

| MFR #    | Style | Compatible Preamplifier | Code               |
|----------|-------|-------------------------|--------------------|
| * 3-2755 | Flat  | 2750, 2760 DryLoc       | <b>159 000 749</b> |
| * 3-2757 | Bulb  | 2750, 2760 DryLoc       | <b>159 000 752</b> |

## Type 2756-WT Wet-Tap DryLoc pH Electrodes



| MFR #          | Style                 | Compatible Preamplifier | Code               |
|----------------|-----------------------|-------------------------|--------------------|
| * 3-2756-WT    | Bulb, Wet-Tap         | 2750 DryLoc             | <b>159 000 834</b> |
| * 3-2756-WT-1  | Bulb, Wet-Tap         | 2760 DryLoc             | <b>159 001 383</b> |
| * 3-2756-WTP   | Bulb, Plastic Wet-Tap | 2750 DryLoc             | <b>159 001 390</b> |
| * 3-2756-WTP-1 | Bulb, Plastic Wet-Tap | 2760 DryLoc             | <b>159 001 384</b> |

# Signet

## Type 2757-WT Wet-Tap DryLoc ORP Electrodes



| MFR #        | Style                 | Compatible Preamplifier | Code               |
|--------------|-----------------------|-------------------------|--------------------|
| * 3-2757-WT  | Bulb, Wet-Tap         | 2750, 2760 DryLoc       | <b>159 000 835</b> |
| * 3-2757-WTP | Bulb, Plastic Wet-Tap | 2750, 2760 DryLoc       | <b>159 001 391</b> |



## Type 2774/2776 DryLoc pH Electrodes

### pH/ORP:

- Wetted Materials: Ryton, PTFE, FPM, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional Features: Quick temperature response and can be mounted upside-down
- In-line Mounting styles: Standard 3/4 inch or ISO threaded fittings
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, some harsh chemicals

| MFR #    | Style | Compatible Preamplifier | Mounting                 | Code               |
|----------|-------|-------------------------|--------------------------|--------------------|
| 3-2774   | Flat  | 2760 DryLoc             | with threaded connection | <b>159 000 955</b> |
| 3-2774-1 | Flat  | 2750 DryLoc             | with threaded connection | <b>159 000 956</b> |
| 3-2776   | Bulb  | 2760 DryLoc             | with threaded connection | <b>159 000 959</b> |
| 3-2776-1 | Bulb  | 2750 DryLoc             | with threaded connection | <b>159 000 960</b> |



## Type 2775/2777 DryLoc ORP Electrodes

### pH/ORP:

- Wetted Materials: Ryton, PTFE, FPM, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional Features: Quick temperature response and can be mounted upside-down
- In-line Mounting styles: Use the sensors 3/4 inch thread to mount to any in-line tee
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, some harsh chemicals

| MFR #      | Style | Compatible Preamplifier | Mounting                 | Code               |
|------------|-------|-------------------------|--------------------------|--------------------|
| * 3-2775   | Flat  | 2750, 2760 DryLoc       | with threaded connection | <b>159 000 957</b> |
| * 3-2775-1 | Flat  | 2750, 2760 DryLoc       | with threaded connection | <b>159 000 958</b> |
| * 3-2777   | Bulb  | 2750, 2760 DryLoc       | with threaded connection | <b>159 000 961</b> |
| * 3-2777-1 | Bulb  | 2750, 2760 DryLoc       | with threaded connection | <b>159 000 962</b> |

# Signet

## Type 2764/2766 DryLoc pH Electrodes



### pH/ORP:

- Wetted Materials: Ryton, PTFE, FPM, carbon graphite, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional Features: Differential reference for additional protection in harsh chemicals; also quick temperature response
- In-line Mounting styles: Use the sensors 1 inch thread to mount to any in-line tee
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, scrubbers, heavy metal removal, harsh chemicals, etc.

| MFR #      | Style | Compatible Pre-amplifier | Mounting                 | Code               |
|------------|-------|--------------------------|--------------------------|--------------------|
| * 3-2764-1 | Flat  | 2760 DryLoc              | with threaded connection | <b>159 000 943</b> |
| * 3-2764-2 | Flat  | 2750 DryLoc              | with threaded connection | <b>159 000 944</b> |
| * 3-2764-3 | Flat  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 945</b> |
| * 3-2766-1 | Bulb  | 2760 DryLoc              | with threaded connection | <b>159 000 949</b> |
| * 3-2766-2 | Bulb  | 2750 DryLoc              | with threaded connection | <b>159 000 950</b> |
| * 3-2766-3 | Bulb  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 951</b> |

## Type 2765/2767 DryLoc ORP Electrodes



### pH/ORP:

- Wetted Materials: Ryton, PTFE, FPM, carbon graphite, glass
- Connection: Durable DryLoc® with gold plated connections
- Compatible Preamp/Sensor Electronics: 2750 and 2760
- Compatible Instruments: Use the 2760 preamplifier with the Signet 5700 or 8750; Use the 2750 sensor electronics with the Signet 8900
- Additional Features: Differential reference for additional protection in harsh chemicals; also quick temperature response
- In-line Mounting styles: Use the sensors 1 inch thread to mount to any in-line tee
- Submersible mounting: Available using the back of the preamplifier or sensor electronics
- Applications: Water treatment, water quality monitoring, scrubbers, heavy metal removal, harsh chemicals, etc.

| MFR #      | Style | Compatible Pre-amplifier | Mounting                 | Code               |
|------------|-------|--------------------------|--------------------------|--------------------|
| * 3-2765-1 | Flat  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 946</b> |
| * 3-2765-2 | Flat  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 947</b> |
| * 3-2765-3 | Flat  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 948</b> |
| * 3-2767-1 | Bulb  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 952</b> |
| * 3-2767-2 | Bulb  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 953</b> |
| * 3-2767-3 | Bulb  | 2750, 2760 DryLoc        | with threaded connection | <b>159 000 954</b> |

## Type 3719 pH/ORP Wet-Tap Assembly



### pH/ORP:

- Wetted Materials: CPVC, FPM
- Connection: 1.5 or 2 inch NPT or ISO Process Threads
- Additional Features: Use only with either the 2716 & 2717 or 2756 & 2757 Wet-Tap series electrodes
- Applications: Water treatment, water quality monitoring, etc.

| MFR #     | Style            | Mounting     | Code               |
|-----------|------------------|--------------|--------------------|
| 3-3719-11 | Wet-Tap assembly | 1.5 inch NPT | <b>159 000 804</b> |
| 3-3719-12 | Wet-Tap assembly | 1.5 inch ISO | <b>159 000 806</b> |
| 3-3719-21 | Wet-Tap assembly | 2 inch NPT   | <b>159 000 805</b> |
| 3-3719-22 | Wet-Tap assembly | 2 inch ISO   | <b>159 000 807</b> |

# Signet

## Needle Dial/LCD Display Instruments

### Type 5700 pH/ORP Monitor with Relays



#### Instruments:

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: 2 SPDT Relays
- Current Output: 4-20 mA output, non-isolated, internally-powered (active)
- Compatible Sensors: 27xx pH/ORP Electrodes
- Compatible Preamplifiers: 2720 or 2760

| MFR #  | Description    | Code        |  |
|--------|----------------|-------------|--|
| 3-5700 | pH/ORP Monitor | 198 825 003 |  |

# Signet

## Digital Display Instruments

### Type 8750 pH/ORP Transmitter

#### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: 1 input
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output: 2 SPDT Relays
- Compatible Sensors: 27xx pH/ORP Electrodes
- Compatible Preamplifiers: 2720 or 2760



| MFR #     | Mount | Inputs | Current O/P | Relays | O.C. | Code               |  |
|-----------|-------|--------|-------------|--------|------|--------------------|--|
| 3-8750-1  | Field | 1      | 1           |        | 1    | <b>159 000 053</b> |  |
| 3-8750-1P | Panel | 1      | 1           |        | 1    | <b>159 000 054</b> |  |
| 3-8750-2  | Field | 1      | 1           | 2      |      | <b>159 000 055</b> |  |
| 3-8750-2P | Panel | 1      | 1           | 2      |      | <b>159 000 056</b> |  |
| 3-8750-3  | Field | 2      | 2           |        | 2    | <b>159 000 057</b> |  |
| 3-8750-3P | Panel | 2      | 2           |        | 2    | <b>159 000 058</b> |  |

# Signet

## Paddlewheel Flow Sensors

### Type 515 Rotor-X Standard Mount Paddlewheel



**Flow:**

- Rotor: PVDF
- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.3 to 6 m/s, 1 to 20 ft/s
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: Self powered
- Compatibility: 5075, 5090, 5500, 5600, 8150, 8550, 8900
- \*Only Signet installation fittings

| MFR #     | Body | Pin         | Pipe Size<br>[inch] | Sensor Type | Code               |
|-----------|------|-------------|---------------------|-------------|--------------------|
| P51530-H0 | PP   | Hastelloy C | 0.5 - 4.0           | -X0         | <b>198 801 659</b> |
| P51530-P0 | PP   | Titanium    | 0.5 - 4.0           | -X0         | <b>198 801 620</b> |
| P51530-P1 | PP   | Titanium    | 5.0 - 8.0           | -X1         | <b>198 801 621</b> |
| P51530-P2 | PP   | Titanium    | 10.0 - 36.0         | -X2         | <b>198 801 622</b> |
| P51530-S0 | PP   | PVDF        | 0.5 - 4.0           | -X0         | <b>198 801 661</b> |
| P51530-T0 | PVDF | PVDF        | 0.5 - 4.0           | -X0         | <b>198 801 663</b> |
| P51530-T1 | PVDF | PVDF        | 5.0 - 8.0           | -X1         | <b>198 801 664</b> |
| P51530-V0 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>198 801 623</b> |
| P51530-V1 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>198 801 624</b> |
| P51530-V2 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>198 801 625</b> |

### Type 515 Rotor-X 8510 Integral Mount Paddlewheel (use with 3-8051 Accessory)



**Flow:**

- Highly chemical resistant materials
- Self powered, no power supply needed
- Rotor: PVDF

| MFR #     | Body | Pin         | Pipe Size<br>[inch] | DN-DN*<br>[mm] | Sensor Type | Code               |
|-----------|------|-------------|---------------------|----------------|-------------|--------------------|
| 3-8510-P0 | PP   | Titanium    | 0.5 - 4.0           | 15-100         | -X0         | <b>198 864 504</b> |
| 3-8510-P1 | PP   | Titanium    | 5.0 - 8.0           | 125-200        | -X1         | <b>198 864 505</b> |
| 3-8510-T0 | PVDF | PVDF        | 0.5 - 4.0           | 15-100         | -X0         | <b>159 000 622</b> |
| 3-8510-V0 | PVDF | Hastelloy-C | 0.5 - 4.0           | 15-100         | -X0         | <b>198 864 506</b> |

### Type 515 Rotor-X Wet-Tap Mount Paddlewheel (use with Type 3519 wet tap valve)



**Flow:**

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.3 to 6 m/s, 1 to 20 ft/s
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: Self powered
- Compatibility: 5075, 5090, 5500, 5600, 8150, 8550, 8900

| MFR #     | Pipe Size<br>[inch] | DN-DN*<br>[mm] | Code               |
|-----------|---------------------|----------------|--------------------|
| P51530-P3 | 0.5 - 4.0           | 15-100         | <b>198 840 310</b> |
| P51530-P4 | 5.0 - 8.0           | 125-200        | <b>198 840 311</b> |
| P51530-P5 | 10.0 - 36.0         | 250-900        | <b>198 840 312</b> |

# Signet

## Type 2536 Rotor-X Standard Mount Paddlewheel



### Flow:

- Open collector output
- Rotor: PVDF
- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Compatibility: 5075, 5500, 5600, 8550, 8900
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: <20mA @ 3.3 to 24 VDC
- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- \*Only Signet installation fittings

| MFR #     | Body | Pin         | Pipe Size<br>[inch] | Sensor Type | Code               |
|-----------|------|-------------|---------------------|-------------|--------------------|
| 3-2536-H0 | PP   | Hastelloy C | 0.5 - 4.0           | -X0         | <b>198 840 151</b> |
| 3-2536-H1 | PP   | Hastelloy C | 5.0 - 8.0           | -X1         | <b>198 840 153</b> |
| 3-2536-P0 | PP   | Titanium    | 0.5 - 4.0           | -X0         | <b>198 840 143</b> |
| 3-2536-P1 | PP   | Titanium    | 5.0 - 8.0           | -X1         | <b>198 840 144</b> |
| 3-2536-P2 | PP   | Titanium    | 10.0 - 36.0         | -X2         | <b>198 840 145</b> |
| 3-2536-S0 | PP   | PVDF        | 0.5 - 4.0           | -X0         | <b>198 840 152</b> |
| 3-2536-S1 | PP   | PVDF        | 5.0 - 8.0           | -X1         | <b>198 840 154</b> |
| 3-2536-T0 | PVDF | PVDF        | 0.5 - 4.0           | -X0         | <b>198 840 149</b> |
| 3-2536-T1 | PVDF | PVDF        | 5.0 - 8.0           | -X1         | <b>198 840 150</b> |
| 3-2536-V0 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>198 840 146</b> |
| 3-2536-V1 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>198 840 147</b> |

## Type 2536 Rotor-X 8512 Integral Mount Paddlewheel (use with 3-8051 Accessory)



### Flow:

- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Installs into pipe sizes: DN15 to DN200, 0.5 to 8 in
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: <20mA @ 3.3 to 24 VDC
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Only Signet installation fittings
- Rotor: PVDF
- Open collector output

| MFR #     | Body | Pin         | Pipe Size<br>[inch] | DN-DN*<br>[mm] | Sensor Type | Code               |
|-----------|------|-------------|---------------------|----------------|-------------|--------------------|
| 3-8512-P0 | PP   | Titanium    | 0.5 - 4.0           | 15-100         | -X0         | <b>198 864 513</b> |
| 3-8512-P1 | PP   | Titanium    | 5.0 - 8.0           | 125-200        | -X1         | <b>198 864 514</b> |
| 3-8512-T0 | PVDF | PVDF        | 0.5 - 4.0           | 15-100         | -X0         | <b>198 864 518</b> |
| 3-8512-V0 | PVDF | Hastelloy C | 0.5 - 4.0           | 15-100         | -X0         | <b>198 864 516</b> |

# Signet

## Type 2536 Rotor-X

### Wet-Tap Mount Paddlewheel (use with type 3519 wet tap valve)



**Flow:**

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: <20mA @ 3.3 to 24 VDC
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Only Signet installation fittings
- Rotor: PVDF
- Open collector output

| MFR #     | Body | Pin      | Pipe Size<br>[inch] | DN-DN*<br>[mm] | Code               |
|-----------|------|----------|---------------------|----------------|--------------------|
| 3-2536-P3 | PP   | Titanium | 0.5 - 4.0           | 15-100         | <b>159 000 758</b> |
| 3-2536-P4 | PP   | Titanium | 5.0 - 8.0           | 125-200        | <b>159 000 759</b> |
| 3-2536-P5 | PP   | Titanium | 10.0 - 36.0         | 250-900        | <b>159 000 760</b> |

## Type 2537 Rotor-X



**Flow:**

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Outputs: Digital S3L, 4 to 20mA, flow switch, or pulse mode
- Max Pressure rating: PP 12.5 bar @ 20C, 180psi @ 68F  
PVDF 14 bar @ 20C, 200psi @ 68F
- Power source: Digital - 5 VDC nominal, Relay & 4-20 mA - 24 VDC nominal
- Compatibility: 5075, 5500, 5600, 8550, 8900
- Rotor: PVDF

| MFR #        | Output               | Body | Pin    | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|----------------------|------|--------|---------------------|-------------|--------------------|
| 3-2537-1C-P0 | Pulse w/DC Relay     | PP   | Titan. | 0.5 - 4.0           | -X0         | <b>159 001 291</b> |
| 3-2537-2C-P0 | Pulse w/SS Relay     | PP   | Titan. | 0.5 - 4.0           | -X0         | <b>159 001 292</b> |
| 3-2537-5C-P0 | Digital (S3L) output | PP   | Titan. | 0.5 - 4.0           | -X0         | <b>159 001 295</b> |
| 3-2537-6C-P0 | 4-20mA output        | PP   | Titan. | 0.5 - 4.0           | -X0         | <b>159 001 296</b> |
| 3-2537-1C-P1 | Pulse w/DC Relay     | PP   | Titan. | 5.0 - 8.0           | -X1         | <b>159 001 303</b> |
| 3-2537-2C-P1 | Pulse w/SS Relay     | PP   | Titan. | 5.0 - 8.0           | -X1         | <b>159 001 304</b> |
| 3-2537-5C-P1 | Digital (S3L) output | PP   | Titan. | 5.0 - 8.0           | -X1         | <b>159 001 307</b> |
| 3-2537-6C-P1 | 4-20 mA output       | PP   | Titan. | 5.0 - 8.0           | -X1         | <b>159 001 308</b> |
| 3-2537-1C-T0 | Pulse w/DC Relay     | PVDF | PVDF   | 0.5 - 4.0           | -X0         | <b>159 001 315</b> |
| 3-2537-2C-T0 | Pulse w/SS Relay     | PVDF | PVDF   | 0.5 - 4.0           | -X0         | <b>159 001 316</b> |
| 3-2537-5C-T0 | Digital (S3L) output | PVDF | PVDF   | 0.5 - 4.0           | -X0         | <b>159 001 319</b> |
| 3-2537-6C-T0 | 4-20mA output        | PVDF | PVDF   | 0.5 - 4.0           | -X0         | <b>159 001 320</b> |

## Type 525 Metalex

### (use with Metalex Weld-On Mini-Tap, Socket Weld Mini-Tap or Strap-On Saddle only)



**Flow:**

- Installs into pipe sizes: 0.5 to 12 in, DN15 to DN300
- Flow rate range: 1.6 to 20 ft/s, 0.5 to 6 m/s
- Max Pressure rating: Socket weld or weld on fittings 103 bar, 1500 psi (@ safety factor 1.5)
- Power source: Self powered
- Compatibility: 5075, 5500, 5600, 8150, 8550, 8900

| MFR #  | Pin              | DN-DN<br>[mm] | Code               |
|--------|------------------|---------------|--------------------|
| P525-1 | Tungsten Carbide | 15 - 25       | <b>198 801 494</b> |
| P525-2 | Tungsten Carbide | 32 - 300      | <b>198 801 495</b> |
| P525-3 | Tungsten Carbide | 50 - 300      | <b>198 801 496</b> |

table continued next page

# Signet

| MFR #   | Pin                 | DN-DN<br>[mm] | Code               |
|---------|---------------------|---------------|--------------------|
| P525-1S | 316 Stainless Steel | 15 - 25       | <b>159 000 963</b> |
| P525-2S | 316 Stainless Steel | 32 - 300      | <b>159 000 964</b> |
| P525-3S | 316 Stainless Steel | 50 - 300      | <b>159 000 965</b> |

## Type 3519 Flow Wet-Tap Valve

### Flow:

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Material: PVC body, seals viton or EPDM
- Max Pressure rating: 7 bar @ 20C, (100psi @ 68F)



| MFR #        | Description           | Pipe Size<br>[inch] | DN-DN<br>[mm] | Code               |
|--------------|-----------------------|---------------------|---------------|--------------------|
| 3-3519       | Wet-Tap Valve only    | -                   | -             | <b>159 000 757</b> |
| 3519/515-P3  | Valve with Model 515  | 0.5 - 4.0           | 15 - 100      | <b>159 000 819</b> |
| 3519/515-P4  | Valve with Model 515  | 5.0 - 8.0           | 125 - 200     | <b>159 000 820</b> |
| 3519/515-P5  | Valve with Model 515  | 10.0 - 36.0         | 250 - 900     | <b>159 000 821</b> |
| 3519/2536-P3 | Valve with Model 2536 | 0.5 - 4.0           | 15 - 100      | <b>159 000 822</b> |
| 3519/2536-P4 | Valve with Model 2536 | 5.0 - 8.0           | 125 - 200     | <b>159 000 823</b> |
| 3519/2536-P5 | Valve with Model 2536 | 10.0 - 36.0         | 250 - 900     | <b>159 000 824</b> |

## Type 2540 Stainless Steel Standard

### Flow:

- Installs into pipe sizes: DN40 to DN600, 1.5 to 24 in
- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Max Pressure rating: 17 bar @ 100C, 250psi @ 212F  
Optional EPDM: 17 bar @ 82C, 250psi @ 180F
- Power source: 5 to 24 VDC, 1.5mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900



| MFR #     | Mounting           | Rotor Pin       | Code               |
|-----------|--------------------|-----------------|--------------------|
| 3-2540-1  | 1.5 in. NPT thread | Tungsten Carb.  | <b>198 840 035</b> |
| 3-2540-2  | 1.5 in. ISO thread | Tungsten Carb.  | <b>198 840 036</b> |
| 3-2540-1S | 1.5 in. NPT thread | Stainless Steel | <b>159 001 501</b> |
| 3-2540-2S | 1.5 in. ISO thread | Stainless Steel | <b>159 001 502</b> |

# Signet

## Type 2540 Stainless Steel Hot Tap



### Flow:

- Installs into pipe sizes: DN40 to DN 900, 1.5 in. to 36 in.
- Flow rate range: 0.1 to 6 m/s, 0.3 to 20 ft/s
- Max Pressure rating: 17 bar @ 100C, 250psi @ 212F  
Optional EPDM: 17 bar @ 82C, 250psi @ 180F
- Power source: 5 to 24 VDC, 1.5mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Recommended 198 820 008 (3-1500.663) Hot Tap installation tool (sold separately)

| MFR #       | Mounting           | Rotor Pin       | Code               |  |
|-------------|--------------------|-----------------|--------------------|--|
| * 3-2540-3  | 1.5 in. NPT thread | Tungsten Carb.  | <b>198 840 037</b> |  |
| * 3-2540-4  | 1.5 in. ISO thread | Tungsten Carb.  | <b>198 840 038</b> |  |
| * 3-2540-3S | 1.5 in. NPT thread | Stainless Steel | <b>159 001 503</b> |  |
| * 3-2540-4S | 1.5 in. ISO thread | Stainless Steel | <b>159 001 504</b> |  |

# Signet

## Turbine Flow Sensors

### Type 2100



**Flow:**

- Installs into pipe sizes: 0.5 in, DN15  
Hose size: DN8, 1/4 in, DN10, 3/8 in, DN15, 0.5 in
- Flow rate range: 0.38 to 38 Lpm, 0.8 to 38 gpm
- Max Pressure rating: 16 bar @ 20C, 232psi @ 68F
- Power source: 5 to 24 VDC, 1.5mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*End connector kits must be ordered separately. See accessories
- \*-H version can be used with flare fitting. Flow range: 3 - 27 lpm

| MFR #       | Description | Flow Range                | Code               |
|-------------|-------------|---------------------------|--------------------|
| * 3-2100-1L | FPM o-ring  | 0.38-3.8 lpm (0.10-1 gpm) | <b>159 000 001</b> |
| * 3-2100-2L | EPDM o-ring | 0.38-3.8 lpm (0.10-1 gpm) | <b>159 000 003</b> |
| * 3-2100-1H | FPM o-ring  | 3.0-38.0 lpm (0.8-10 gpm) | <b>159 000 002</b> |
| * 3-2100-2H | EPDM o-ring | 3.0-38.0 lpm (0.8-10 gpm) | <b>159 000 004</b> |

# Signet

## In-line Rotor Flow Sensors

### Type 2000 Micro-Flow



**Flow:**

- Installs into pipe sizes: .25 NPT or ISO 7/1-R1/4 Threads
- Flow rate range: 0.11 to 12.11 Lpm  
0.03 to 3.2 U.S. gpm
- Max Pressure rating: 0 to 80C 5.5 Bar, 32 to 176F at 80psi max
- Power source: 5 to 24 VDC @ 10mA
- Compatibility: 5075, 5500, 5600, 8550, 8900

| MFR #     | Description          | Flow Range<br>[l/min] | Code               |  |
|-----------|----------------------|-----------------------|--------------------|--|
| 3-2000-11 | 0.25 NPT threads     | 0.110 - 2.610         | <b>198 822 000</b> |  |
| 3-2000-12 | ISO 7/1-R1/4 threads | 0.110 - 2.610         | <b>198 822 001</b> |  |
| 3-2000-21 | 0.25 NPT threads     | 1.130 - 12.100        | <b>198 822 002</b> |  |
| 3-2000-22 | ISO 7/1-R1/4 threads | 1.130 - 12.100        | <b>198 822 003</b> |  |

### Type 2507 Mini-Flow



**Flow:**

- Installs into pipe sizes: G 1/4 in, 1/4 NPT
- Flow rate range: .100 to 12.00 Lpm
- Max Pressure rating: 5.5 Bar 24C, 80 psi @ 75F
- Power source: 5 to 24 VDC @ 10mA
- Compatibility: 5075, 5500, 5600, 8550, 8900

| MFR #     | Description           | Flow Range<br>[l/min] | Seal | Code               |  |
|-----------|-----------------------|-----------------------|------|--------------------|--|
| 3-2507-1V |                       | 0.100 - 2.000         | FPM  | <b>198 801 731</b> |  |
| 3-2507-2V | 2 mm insert           | 0.400 - 2.800         | FPM  | <b>198 801 732</b> |  |
| 3-2507-3V | 3 mm insert           | 0.700 - 4.200         | FPM  | <b>198 801 733</b> |  |
| 3-2507-4V | 4 mm insert           | 1.300 - 6.000         | FPM  | <b>198 801 734</b> |  |
| 3-2507-6V | 6 mm inlet, no insert | 3.200 - 12.000        | FPM  | <b>198 801 736</b> |  |

# Signet

## Insertion Magmeter

### Type 2551 Magmeter; Blind Version Frequency or Digital (S<sup>3</sup>L) output



**Flow:**

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power Source:
  - Frequency: 5 to 26.4 VDC, 15 mA max.
  - Digital (S<sup>3</sup>L): 5 to 6.5 VDC, 15 mA max.
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-11 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 105</b> |
| 3-2551-P1-11 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 106</b> |
| 3-2551-P2-11 | PP   | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 107</b> |
| 3-2551-T0-11 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 108</b> |
| 3-2551-T1-11 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 109</b> |
| 3-2551-T2-11 | PVDF | Titanium    | 10.0 - 36.0         | -X2         | <b>159 001 448</b> |
| 3-2551-V0-11 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 257</b> |
| 3-2551-V1-11 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 258</b> |
| 3-2551-V2-11 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>159 001 450</b> |
| 3-2551-W0-11 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 230</b> |
| 3-2551-W1-11 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 232</b> |
| 3-2551-W2-11 | PVDF | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 452</b> |

### Type 2551 Magmeter; Blind Version Current output (4 to 20 mA)



**Flow:**

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power source: 4 to 20mA: 21.6 to 26.4 VDC, 22.1mA max
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-12 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 110</b> |
| 3-2551-P1-12 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 111</b> |
| 3-2551-P2-12 | PP   | 316L SS     | 10.0 - 12.0         | -X2         | <b>159 001 112</b> |
| 3-2551-T0-12 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 113</b> |
| 3-2551-T1-12 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 114</b> |
| 3-2551-T2-12 | PVDF | Titanium    | 10.0 - 12.0         | -X2         | <b>159 001 449</b> |
| 3-2551-V0-12 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 259</b> |
| 3-2551-V1-12 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 260</b> |
| 3-2551-V2-12 | PVDF | Hastelloy C | 10.0 - 12.0         | -X2         | <b>159 001 451</b> |
| 3-2551-W0-12 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 231</b> |
| 3-2551-W1-12 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 233</b> |
| 3-2551-W2-12 | PVDF | 316L SS     | 10.0 - 12.0         | -X2         | <b>159 001 453</b> |

# Signet

## Type 2551 Magmeter; Display Version with relays Frequency or Digital (S<sup>3</sup>L) output



### Flow:

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power Source:  
Frequency: 5 to 26.4 VDC, 15 mA max.  
Digital (S<sup>3</sup>L): 5 to 6.5 VDC, 15 mA max.
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-21 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 267</b> |
| 3-2551-P1-21 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 268</b> |
| 3-2551-P2-21 | PP   | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 435</b> |
| 3-2551-T0-21 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 436</b> |
| 3-2551-T1-21 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 437</b> |
| 3-2551-T2-21 | PVDF | Titanium    | 10.0 - 36.0         | -X2         | <b>159 001 454</b> |
| 3-2551-V0-21 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 269</b> |
| 3-2551-V1-21 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 270</b> |
| 3-2551-V2-21 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>159 001 456</b> |
| 3-2551-W0-21 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 271</b> |
| 3-2551-W1-21 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 272</b> |
| 3-2551-W2-21 | PVDF | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 458</b> |

## Type 2551 Magmeter; Display Version with relays Current output (4 to 20 mA)



### Flow:

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power source: 4 to 20mA, 21.6 to 26.4 VDC, 22.1mA max  
Aux Power for relays, 9 to 24 VDC, 0.4A max
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-22 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 273</b> |
| 3-2551-P1-22 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 274</b> |
| 3-2551-P2-22 | PP   | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 438</b> |
| 3-2551-T0-22 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 439</b> |
| 3-2551-T1-22 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 440</b> |
| 3-2551-T2-22 | PVDF | Titanium    | 10.0 - 36.0         | -X2         | <b>159 001 455</b> |
| 3-2551-V0-22 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 275</b> |
| 3-2551-V1-22 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 276</b> |
| 3-2551-V2-22 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>159 001 457</b> |
| 3-2551-W0-22 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 277</b> |
| 3-2551-W1-22 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 278</b> |
| 3-2551-W2-22 | PVDF | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 459</b> |

# Signet

## Type 2551 Magmeter; Display Version no relays Frequency or Digital (S<sup>3</sup>L) output



### Flow:

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power Source:  
Frequency: 5 to 26.4 VDC, 15 mA max.  
Digital (S<sup>3</sup>L): 5 to 6.5 VDC, 15 mA max.
- Compatibility: 5075, 5500, 5600, 8550, 8900
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-41 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 261</b> |
| 3-2551-P1-41 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 262</b> |
| 3-2551-P2-41 | PP   | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 432</b> |
| 3-2551-T0-41 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 433</b> |
| 3-2551-T1-41 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 434</b> |
| 3-2551-T2-41 | PVDF | Titanium    | 10.0 - 36.0         | -X2         | <b>159 001 460</b> |
| 3-2551-V0-41 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 263</b> |
| 3-2551-V1-41 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 264</b> |
| 3-2551-V2-41 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>159 001 462</b> |
| 3-2551-W0-41 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 265</b> |
| 3-2551-W1-41 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 266</b> |
| 3-2551-W2-41 | PVDF | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 464</b> |

## Type 2551 Magmeter; Display Version no relays Current output (4 to 20 mA)



### Flow:

- Installs into pipe sizes: DN15 to DN900, 0.5 to 36 in
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power source: 4 to 20mA: 21.6 to 26.4 VDC, 22.1mA max
- \*Only Signet installation fittings

| MFR #        | Body | Electrode   | Pipe Size<br>[inch] | Sensor Type | Code               |
|--------------|------|-------------|---------------------|-------------|--------------------|
| 3-2551-P0-42 | PP   | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 279</b> |
| 3-2551-P1-42 | PP   | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 280</b> |
| 3-2551-P2-42 | PP   | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 441</b> |
| 3-2551-T0-42 | PVDF | Titanium    | 0.5 - 4.0           | -X0         | <b>159 001 442</b> |
| 3-2551-T1-42 | PVDF | Titanium    | 5.0 - 8.0           | -X1         | <b>159 001 443</b> |
| 3-2551-T2-42 | PVDF | Titanium    | 10.0 - 36.0         | -X2         | <b>159 001 461</b> |
| 3-2551-V0-42 | PVDF | Hastelloy C | 0.5 - 4.0           | -X0         | <b>159 001 281</b> |
| 3-2551-V1-42 | PVDF | Hastelloy C | 5.0 - 8.0           | -X1         | <b>159 001 282</b> |
| 3-2551-V2-42 | PVDF | Hastelloy C | 10.0 - 36.0         | -X2         | <b>159 001 463</b> |
| 3-2551-W0-42 | PVDF | 316L SS     | 0.5 - 4.0           | -X0         | <b>159 001 283</b> |
| 3-2551-W1-42 | PVDF | 316L SS     | 5.0 - 8.0           | -X1         | <b>159 001 284</b> |
| 3-2551-W2-42 | PVDF | 316L SS     | 10.0 - 36.0         | -X2         | <b>159 001 465</b> |

# Signet

## Type 2552 Magmeter Frequency or Digital (S<sup>3</sup>L) output



### Flow:

- Installs into pipe sizes: 0.5 to 12 in, DN15 to DN300
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power source: 5 to 26.4 VDC, 15mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900

| MFR #          | Mounting       | Connection    | Code               |  |
|----------------|----------------|---------------|--------------------|--|
| 3-2552-21-A-11 | 9.4 in. depth  | 1 1/4 in. NPT | <b>159 001 513</b> |  |
| 3-2552-21-B-11 | 9.4 in. depth  | 1 1/4 in. NPT | <b>159 001 515</b> |  |
| 3-2552-22-A-11 | 9.4 in. depth  | 1 1/4 in. ISO | <b>159 001 517</b> |  |
| 3-2552-22-B-11 | 9.4 in. depth  | 1 1/4 in. ISO | <b>159 001 519</b> |  |
| 3-2552-33-A-11 | 14.8 in. depth | 1 1/2 in. NPT | <b>159 001 521</b> |  |
| 3-2552-33-B-11 | 14.8 in. depth | 1 1/2 in. NPT | <b>159 001 523</b> |  |
| 3-2552-34-A-11 | 14.8 in. depth | 1 1/2 in. ISO | <b>159 001 522</b> |  |
| 3-2552-34-B-11 | 14.8 in. depth | 1 1/2 in. ISO | <b>159 001 524</b> |  |

## Type 2552 Magmeter Current output (4 to 20 mA)



### Flow:

- Installs into pipe sizes: 0.5 to 12 in, DN15 to DN300
- Flow rate range: 0.05 to 10 m/s, 0.15 to 33 ft/s
- Max Pressure rating: PP 10.3 bar @ 25C, 150psi @ 77F
- Power source: 4 to 20mA: 21.6 to 26.4 VDC, 22.1mA max

| MFR #          | Mounting       | Connection    | Code               |  |
|----------------|----------------|---------------|--------------------|--|
| 3-2552-21-A-12 | 9.4 in. depth  | 1 1/4 in. NPT | <b>159 001 514</b> |  |
| 3-2552-21-B-12 | 9.4 in. depth  | 1 1/4 in. NPT | <b>159 001 516</b> |  |
| 3-2552-22-A-12 | 9.4 in. depth  | 1 1/4 in. ISO | <b>159 001 518</b> |  |
| 3-2552-22-B-12 | 9.4 in. depth  | 1 1/4 in. ISO | <b>159 001 520</b> |  |
| 3-2552-33-A-12 | 14.8 in. depth | 1 1/2 in. NPT | <b>159 001 525</b> |  |
| 3-2552-33-B-12 | 14.8 in. depth | 1 1/2 in. NPT | <b>159 001 527</b> |  |
| 3-2552-34-A-12 | 14.8 in. depth | 1 1/2 in. ISO | <b>159 001 526</b> |  |
| 3-2552-34-B-12 | 14.8 in. depth | 1 1/2 in. ISO | <b>159 001 528</b> |  |

# Signet

## Vortex Flow Sensors

### Type 7000 Frequency Output PVC-U Sch 80 , EPDM



**Flow:**

- Installs into pipe sizes:  
DN15 - DN20, (.5 to .75 in) 0.5 to 4.0 m/s (1.6 to 13 ft/s)  
DN25 - DN32 (1.0 - 1.25 in) 0.4 - 4.0 m/s (1.3 - 13 ft/s)  
DN40 - DN50 (1.5 - 2.0 in) 0.3 - 4.0 m/s (1.0 - 13 ft/s)
- Flow rate range: .3 to 4 m/s, (1.0 to 13 ft/s)
- Max Pressure rating: PVC 16 bar @ 0C, 3.7 bar @ 60C  
PVC 232 psi @ 32F, 54 psi @ 140F
- Power source: 3.5 to 24 VDC, regulated, 1.5mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900

| MFR #     | D<br>[mm] | Inch | Code               |
|-----------|-----------|------|--------------------|
| 3-7000-51 | 20        | ¾    | <b>159 000 130</b> |
| 3-7000-52 | 25        | ¾    | <b>159 000 131</b> |
| 3-7000-53 | 32        | 1    | <b>159 000 132</b> |
| 3-7000-54 | 40        | 1 ¼  | <b>159 000 133</b> |
| 3-7000-55 | 50        | 1 ½  | <b>159 000 134</b> |
| 3-7000-56 | 63        | 2    | <b>159 000 135</b> |

### Type 7000 Frequency Output PVC-U metric, EPDM



**Flow:**

- Installs into pipe sizes:  
DN15 - DN20, (.5 to .75 in) 0.5 to 4.0 m/s (1.6 to 13 ft/s)  
DN25 - DN32 (1.0 - 1.25 in) 0.4 - 4.0 m/s (1.3 - 13 ft/s)  
DN40 - DN50 (1.5 - 2.0 in) 0.3 - 4.0 m/s (1.0 - 13 ft/s)
- Flow rate range: .3 to 4 m/s, (1.0 to 13 ft/s)
- Max Pressure rating: PVC 16 bar @ 0C, 3.7 bar @ 60C  
PVC 232 psi @ 32F, 54 psi @ 140F
- Power source: 3.5 to 24 VDC, regulated, 1.5mA max
- Compatibility: 5075, 5500, 5600, 8550, 8900

| MFR #     | D<br>[mm] | DN<br>[mm] | L<br>[mm] | H<br>[mm] | Code               |
|-----------|-----------|------------|-----------|-----------|--------------------|
| 3-7000-61 | 20        | 15         | 90        | 117       | <b>159 000 136</b> |
| 3-7000-62 | 25        | 20         | 100       | 120       | <b>159 000 137</b> |
| 3-7000-63 | 32        | 25         | 110       | 123       | <b>159 000 138</b> |
| 3-7000-64 | 40        | 32         | 110       | 127       | <b>159 000 139</b> |
| 3-7000-65 | 50        | 40         | 120       | 132       | <b>159 000 140</b> |
| 3-7000-66 | 63        | 50         | 130       | 139       | <b>159 000 141</b> |

# Signet

## Type 7001 Current Output PVC-U Sch 80, EPDM



### Flow:

- Installs into pipe sizes:  
DN15 - DN20, (.5 to .75 in) 0.5 to 4.0 m/s (1.6 to 13 ft/s)  
DN25 - DN32 (1.0 - 1.25 in) 0.4 - 4.0 m/s (1.3 - 13 ft/s)  
DN40 - DN50 (1.5 - 2.0 in) 0.3 - 4.0 m/s (1.0 - 13 ft/s)
- Flow rate range: .3 to 4 m/s, (1.0 to 13 ft/s)
- Max Pressure rating: PVC 16 bar @ 0C, 3.7 bar @ 60C  
PVC 232 psi @ 32F, 54 psi @ 140F
- Power source: 7 to 30 VDC, regulated , 20mA max
- Compatibility: 4 to 20mA devices

| MFR #     | D<br>[mm] | DN<br>[mm] | Inch | L<br>[mm] | H<br>[mm] | Code               |
|-----------|-----------|------------|------|-----------|-----------|--------------------|
| 3-7001-51 | 20        | 15         | ½    | 128       | 117       | <b>159 000 172</b> |
| 3-7001-52 | 25        | 20         | ¾    | 144       | 120       | <b>159 000 173</b> |
| 3-7001-53 | 32        | 25         | 1    | 160       | 123       | <b>159 000 174</b> |
| 3-7001-54 | 40        | 32         | 1 ¼  | 168       | 127       | <b>159 000 175</b> |
| 3-7001-55 | 50        | 40         | 1 ½  | 188       | 132       | <b>159 000 176</b> |
| 3-7001-56 | 63        | 50         | 2    | 212       | 139       | <b>159 000 177</b> |

## Type 7001 Current Output PVC-U metric, EPDM



### Flow:

- Installs into pipe sizes:  
DN15 - DN20, (.5 to .75 in) 0.5 to 4.0 m/s (1.6 to 13 ft/s)  
DN25 - DN32 (1.0 - 1.25 in) 0.4 - 4.0 m/s (1.3 - 13 ft/s)  
DN40 - DN50 (1.5 - 2.0 in) 0.3 - 4.0 m/s (1.0 - 13 ft/s)
- Flow rate range: .3 to 4 m/s, (1.0 to 13 ft/s)
- Max Pressure rating: PVC 16 bar @ 0C, 3.7 bar @ 60C  
PVC 232 psi @ 32F, 54 psi @ 140F
- Power source: 7 to 30 VDC, regulated , 20mA max
- Compatibility: 4 to 20mA devices

| MFR #     | D<br>[mm] | DN<br>[mm] | Inch | L<br>[mm] | H<br>[mm] | Code               |
|-----------|-----------|------------|------|-----------|-----------|--------------------|
| 3-7001-61 | 20        | 15         | ½    | 90        | 117       | <b>159 000 178</b> |
| 3-7001-62 | 25        | 20         | ¾    | 100       | 120       | <b>159 000 179</b> |
| 3-7001-63 | 32        | 25         | 1    | 110       | 123       | <b>159 000 180</b> |
| 3-7001-64 | 40        | 32         | 1 ¼  | 110       | 127       | <b>159 000 181</b> |
| 3-7001-65 | 50        | 40         | 1 ½  | 120       | 132       | <b>159 000 182</b> |
| 3-7001-66 | 63        | 50         | 2    | 130       | 139       | <b>159 000 183</b> |

# Signet

## Needle Dial/LCD Display Instruments

### Type 5075 Totalizing Flow Monitor



**Instruments:**

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: Programmable Open Collector Pulse
- Compatible Sensors: All Signet Flow Sensors with a Frequency Pulse Output

| MFR #  | Description             | Code        |
|--------|-------------------------|-------------|
| 3-5075 | Totalizing Flow Monitor | 198 825 007 |

### Type 5090 Sensor-Powered Flow Monitor



**Instruments:**

- Display: Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: None
- Relay/O.C. Output: None
- Current Output: None
- Compatible Sensors: 515 sensor only

| MFR #  | Description                 | Code        |
|--------|-----------------------------|-------------|
| 3-5090 | Sensor-Powered Flow Monitor | 198 825 000 |

### Type 5500 Flow Monitor with Relays



**Instruments:**

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: 2 SPDT Relays, programmable open collector pulse output
- Current Output: 4-20 mA output, non-isolated, internally-powered (active)
- Compatible Sensors: All Signet Flow Sensors with a Frequency Pulse Output

| MFR #  | Description             | Code        |
|--------|-------------------------|-------------|
| 3-5500 | Totalizing Flow Monitor | 198 825 002 |

### Type 5600 Batch Controller



**Instruments:**

- Display: Backlit 2x16 alphanumeric LCD and Analog Dial with reversible dial kits
- Sensor Input: 1 input
- Power Input: 12-24 Volts, AC/DC, unregulated, 50-60 Hz, 10 Watts maximum
- Relay/O.C. Output: 2 SPDT Relays, End-of-Batch open collector pulse
- Current Output: 4-20 mA output, non-isolated, internally-powered (active)
- Compatible Sensors: All Signet Flow Sensors with a Frequency Pulse Output

| MFR #  | Description      | Code        |
|--------|------------------|-------------|
| 3-5600 | Batch Controller | 198 825 006 |

# Signet

## Digital Display Instruments

### Type 6500 COOL-FIT Easy Flow



#### Instruments:

- Fluids and concentrations pre-calibrated
- Simple speedy change of parameters
- Velocity from .3 m/s to 6 m/s (1 fps to 20 fps)
- Battery life up to 1,000 hours
- Initial start up of hydronic secondary cooling systems
- Balancing hydronic secondary cooling systems

| Type     | Description                       | Code               |  |
|----------|-----------------------------------|--------------------|--|
| 3-6500   | COOL-FIT Easy Flow Hand Held Kit  | <b>159 001 537</b> |  |
| 3-6515P0 | COOL-FIT Rotor-X Flow Sensor      | <b>159 001 535</b> |  |
| 3-6536P0 | COOL-FIT High Res Low Flow Sensor | <b>159 001 536</b> |  |

### COOL-FIT Flow Kit

- With sensor, installation fitting and Type 315 Cool-Fit ABS valve

| d<br>[mm] |   | 3-6515<br>Sensor<br>Part No. | USD  | 3-6536<br>Sensor<br>Part No. | USD  |
|-----------|---|------------------------------|------|------------------------------|------|
| 25        | with installation fitting Type 310 ABS            | Inquire                      | Call | Inquire                      | Call |
| 32        | with installation fitting Type 310 ABS            | Inquire                      | Call | Inquire                      | Call |
| 40        | with installation fitting Type 310 ABS            | Inquire                      | Call | Inquire                      | Call |
| 50        | with installation fitting Type 310 ABS            | Inquire                      | Call | Inquire                      | Call |
| 63        | with installation fitting Type 310 ABS            | Inquire                      | Call | Inquire                      | Call |
| 25x90     | with installation fitting Type 310 COOL-FIT black | Inquire                      | Call | Inquire                      | Call |
| 32x90     | with installation fitting Type 310 COOL-FIT black | Inquire                      | Call | Inquire                      | Call |
| 40x110    | with installation fitting Type 310 COOL-FIT black | Inquire                      | Call | Inquire                      | Call |
| 50x110    | with installation fitting Type 310 COOL-FIT black | Inquire                      | Call | Inquire                      | Call |
| 63x125    | with installation fitting Type 310 COOL-FIT black | Inquire                      | Call | Inquire                      | Call |

### Type 8150 Battery Powered Flow Totalizer

#### Instruments:

- Display: 4-digit upper line and 8-digit lower line
- Sensor Input: 1 input
- Power Input: Two 3.6V Lithium Thionyl Chloride, AA size, 4 years nominal battery life
- Relay/O.C. Output: None
- Current Output: None
- Compatible Sensors: 515, 2517, 525 Flow Sensors



| MFR #     | Integral Sensor | Sensor Type | Code               |  |
|-----------|-----------------|-------------|--------------------|--|
| 3-8150-1  | N/A             |             | <b>159 000 929</b> |  |
| 3-8150-1P | N/A             |             | <b>159 000 930</b> |  |
| 3-8150-P0 | 3-8510-P0       | -X0         | <b>159 000 931</b> |  |
| 3-8150-P1 | 3-8510-P1       | -X1         | <b>159 000 932</b> |  |
| 3-8150-T0 | 3-8510-T0       | -X0         | <b>159 001 011</b> |  |
| 3-8150-V0 | 3-8510-V0       | -X0         | <b>159 001 012</b> |  |

# Signet

## Type 8550 Flow Transmitter

### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: Up to 2 inputs
- Power Input: 12-24 Volts, DC, regulated
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): Up to 2 SPDT Relays or Open Collector Outputs
- Compatible with all Signet sensors with frequency output



| MFR #     | Mount | Inputs | Current O/P | Relays | O.C. | Code               |  |
|-----------|-------|--------|-------------|--------|------|--------------------|--|
| 3-8550-1  | Field | 1      | 1           |        | 1    | <b>159 000 047</b> |  |
| 3-8550-1P | Panel | 1      | 1           |        | 1    | <b>159 000 048</b> |  |
| 3-8550-2  | Field | 1      | 1           | 2      |      | <b>159 000 049</b> |  |
| 3-8550-2P | Panel | 1      | 1           | 2      |      | <b>159 000 050</b> |  |
| 3-8550-3  | Field | 2      | 2           |        | 2    | <b>159 000 051</b> |  |
| 3-8550-3P | Panel | 2      | 2           |        | 2    | <b>159 000 052</b> |  |

# Signet

## Integral Systems ProcessPro®: Flow

# Signet

## Temperature/Pressure Sensors

### Type 2350 Temperature Sensor



**Temperature/Pressure:**

- Wetted Materials: PDVF
- Additional features: Platinum RTD in extended tip for quick response
- In-line Mounting styles: 3/4 inch NPT
- Submersible mounting: 3/4 inch NPT
- Operating Temperature:\*\* In-line: -10° to 100°C (14 to 212°F)  
Submersible: -10° to 85°C (14° to 185°F)
- Operating Pressures:\*\* 0 to 16 bar (0 to 232 psi)
- Compatibility: 8350 or 8900
- \*\*check operating temperature/pressure graphs in catalog for derating information

| MFR #    | Output                     | Cable Length    | Code               |
|----------|----------------------------|-----------------|--------------------|
| 3-2350-1 | Digital (S <sup>3</sup> L) | 4.6m (15 ft.)   | <b>159 000 021</b> |
| 3-2350-2 | Digital (S <sup>3</sup> L) | 15.2 cm (6 in.) | <b>159 000 022</b> |
| 3-2350-3 | 4-20 mA                    | 4.6m (15 ft.)   | <b>159 000 920</b> |

### Type 2450 Pressure Sensor 3/4 inch male NPT



**Temperature/Pressure:**

- Wetted Materials: PVDF, ceramic, FPM
- Additional features: Level and depth measurement capability
- In-line Mounting styles: 3/4 inch NPT or 1/2 inch male union
- Submersible mounting: 3/4 inch NPT
- Operating Temperature:\*\* 15° to 85°C (5° to 185°F)
- Operating Pressures:\*\*
  - XU Ultra Low: 0 to 0.7 bar (0 to 10 psi)
  - XL Low: 0 to 3.4 bar (0 to 50 psi)
  - XH High: 0 to 17 bar (0 to 250 psi)
- Level Ranges:\*
  - XU Ultra Low: 0 to 7.03 m (0 to 23.06 ft)
  - XL Low: 0 to 35.15 m (0 to 115.32 ft)
  - XL High: 0 to 176 m (0 to 576 ft)
- Compatibility: 8250, 8450 and 8900
- \*Level ranges calculated using specific gravity of water. Maximum ranges may vary for other liquids
- \*\*check operating temperature/pressure graphs in catalog for derating information

| MFR #     | Output                     | Maximum Operation | Cable Length    | Code               |
|-----------|----------------------------|-------------------|-----------------|--------------------|
| 3-2450-1L | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi)  | 4.6m (15 ft)    | <b>159 000 024</b> |
| 3-2450-1H | Digital (S <sup>3</sup> L) | 17 bar (250 psi)  | 4.6m (15 ft)    | <b>159 000 026</b> |
| 3-2450-2L | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi)  | 15.2 cm (6 in.) | <b>159 000 025</b> |
| 3-2450-2H | Digital (S <sup>3</sup> L) | 17 bar (250 psi)  | 15.2 cm (6 in.) | <b>159 000 027</b> |
| 3-2450-5L | 4-20 mA                    | 3.4 bar (50 psi)  | 4.6m (15 ft)    | <b>159 000 907</b> |
| 3-2450-5H | 4-20 mA                    | 17 bar (250 psi)  | 4.6m (15 ft)    | <b>159 000 909</b> |

# Signet

## Type 2450 Pressure Sensor 1/2 inch male union



### Temperature/Pressure:

- Wetted Materials: PVDF, ceramic, FPM
- Additional features: Level and depth measurement capability
- In-line Mounting styles: 3/4 inch NPT or 1/2 inch male union
- Submersible mounting: 3/4 inch NPT
- Operating Temperature:\*\* 15° to 85°C (5° to 185°F)
- Operating Pressures:\*\*
  - XU Ultra Low: 0 to 0.7 bar (0 to 10 psi)
  - XL Low: 0 to 3.4 bar (0 to 50 psi)
  - XH High: 0 to 17 bar (0 to 250 psi)
- Level Ranges:\*
  - XU Ultra Low: 0 to 7.03 m (0 to 23.06 ft)
  - XL Low: 0 to 35.15 m (0 to 115.32 ft)
  - XL High: 0 to 176 m (0 to 576 ft)
- Compatibility: 8250, 8450 and 8900
- \*Level ranges calculated using specific gravity of water. Maximum ranges may vary for other liquids
- \*\*check operating temperature/pressure graphs in catalog for derating information

| MFR #     | Output                     | Maximum Operation | Cable Length    | Code               |
|-----------|----------------------------|-------------------|-----------------|--------------------|
| 3-2450-3U | Digital (S <sup>3</sup> L) | 0.7 bar (10 psi)  | 4.6m (15 ft.)   | <b>159 000 683</b> |
| 3-2450-3L | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi)  | 4.6m (15 ft.)   | <b>159 000 682</b> |
| 3-2450-3H | Digital (S <sup>3</sup> L) | 17 bar (250 psi)  | 4.6m (15 ft.)   | <b>159 000 681</b> |
| 3-2450-4U | Digital (S <sup>3</sup> L) | 0.7 bar (10 psi)  | 15.2 cm (6 in.) | <b>159 000 686</b> |
| 3-2450-4L | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi)  | 15.2 cm (6 in.) | <b>159 000 685</b> |
| 3-2450-4H | Digital (S <sup>3</sup> L) | 17 bar (250 psi)  | 15.2 cm (6 in.) | <b>159 000 684</b> |
| 3-2450-7U | 4-20 mA                    | 0.7 bar (10 psi)  | 4.6m (15 ft.)   | <b>159 000 906</b> |
| 3-2450-7L | 4-20 mA                    | 3.4 bar (50 psi)  | 4.6m (15 ft.)   | <b>159 000 908</b> |
| 3-2450-7H | 4-20 mA                    | 17 bar (250 psi)  | 4.6m (15 ft.)   | <b>159 000 910</b> |

# Signet

## Submersible Hydrostatic Pressure Sensor

### Type 2250 For Level and Depth Control 1/2 inch union connector



| MFR #        | Output                     | Maximum Operation                  | Code               |  |
|--------------|----------------------------|------------------------------------|--------------------|--|
| 3-2250-11U   | Digital (S <sup>3</sup> L) | 0.7 bar (10 psi); 7.03 m (23 ft)   | <b>159 001 242</b> |  |
| 3-2250-11L   | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi); 35.15 m (115 ft) | <b>159 001 241</b> |  |
| 3-2250-21U   | 4-20 mA                    | 0.7 bar (10 psi); 7.03 m (23 ft)   | <b>159 001 248</b> |  |
| 3-2250-21L   | 4-20 mA                    | 3.4 bar (50 psi); 35.15 m (115 ft) | <b>159 001 247</b> |  |
| 3-2250-11U-1 | Digital (S <sup>3</sup> L) | 0.7 bar (10 psi); 7.03 m (23 ft)   | <b>159 001 478</b> |  |
| 3-2250-11L-1 | Digital (S <sup>3</sup> L) | 3.4 bar (50 psi); 35.15 m (115 ft) | <b>159 001 479</b> |  |
| 3-2250-21U-1 | 4-20 mA                    | 0.7 bar (10 psi); 7.03 m (23 ft)   | <b>159 001 482</b> |  |
| 3-2250-21L-1 | 4-20 mA                    | 3.4 bar (50 psi); 35.15 m (115 ft) | <b>159 001 483</b> |  |

# Signet

## Digital Display Instruments

### Type 8250 Level Transmitter



#### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: Up to 2 input, Digital (S3L) or 4-20mA via 8058-x
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): 2 Relays (internal) plus 2 External Relays optional
- Compatible Sensor(s): 2250, 2450, 4-20 mA signal via 8058-x

| MFR #     | Mount | Inputs | Current O/P | Relay Outputs | Code        |
|-----------|-------|--------|-------------|---------------|-------------|
| 3-8250-2  | Field | 1      | 1           | 2             | 159 000 766 |
| 3-8250-2P | Panel | 1      | 1           | 2             | 159 000 767 |
| 3-8250-3  | Field | 2      | 2           | 2             | 159 000 768 |
| 3-8250-3P | Panel | 2      | 2           | 2             | 159 000 769 |

### Type 8350 Temperature Transmitter



#### Instruments:

- Integral Mounting Kit is included
- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: Up to 2 inputs
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): Up to 2 SPDT Relays or Open Collector Outputs
- Compatible Sensor(s): 2350 only

| MFR #     | Inputs | Current O/P | Relays | O.C. | Code        |
|-----------|--------|-------------|--------|------|-------------|
| 3-8350-1  | 1      | 1           |        | 1    | 159 000 192 |
| 3-8350-1P | 1      | 1           |        | 1    | 159 000 193 |
| 3-8350-2  | 1      | 1           | 2      |      | 159 000 194 |
| 3-8350-2P | 1      | 1           | 2      |      | 159 000 195 |
| 3-8350-3  | 2      | 2           |        | 2    | 159 000 196 |
| 3-8350-3P | 2      | 2           |        | 2    | 159 000 197 |

### Type 8450 Pressure Transmitters



#### Instruments:

- Display: LCD, 2x16 alphanumeric characters
- Sensor Input: Up to 2 inputs
- Power Input: 12-24 Volts, DC, regulated
- Current Output(s): Up to 2, 4-20 mA outputs, isolated, passive
- Relay/O.C. Output(s): Up to 2 SPDT Relays or Open Collector Outputs
- Compatible Sensor(s): 2250, 2450, 4-20 mA signal via 8058-x

| MFR #     | Inputs | Current O/P | Relays | O.C. | Code        |
|-----------|--------|-------------|--------|------|-------------|
| 3-8450-1  | 1      | 1           |        | 1    | 159 000 041 |
| 3-8450-1P | 1      | 1           |        | 1    | 159 000 042 |
| 3-8450-2  | 1      | 1           | 2      |      | 159 000 043 |
| 3-8450-2P | 1      | 1           | 2      |      | 159 000 044 |
| 3-8450-3  | 2      | 2           |        | 2    | 159 000 045 |
| 3-8450-3P | 2      | 2           |        | 2    | 159 000 046 |

# Signet

## Integral Systems ProcessPro®: Temp., Level, Pressure

### Type 8350 Integral Temperature Transmitter

\*The universal mounting kit has to be ordered seperately, see accessories.



| MFR #             | Description      | Code               |  |
|-------------------|------------------|--------------------|--|
| 3-8350-1 + 2350-2 | 1 open collector | <b>198 864 880</b> |  |
| 3-8350-2 + 2350-2 | 2 relays         | <b>198 864 881</b> |  |
| 3-8350-3 + 2350-2 | 2 in-/outputs    | <b>198 864 882</b> |  |

# Signet

## Turbidity

### 4150 Turbidimeter



#### Turbidity:

- Simple and easy one-unit installation with built-in pressure regulator
- EPA compliant per U.S. EPA 180.1
- Programmable 4-20 mA output
- Easy access for wiring and maintenance
- Ultrasonic cleaning option insures long and steady on-line measurement
- Compatibility: 8058 i-Go Signal Converter

| MFR #    | Description  | Code               |
|----------|--|--------------------|
| 3-4150-1 | White Light, 0 to 1000 NTU/FNU, no self cleaning                   | <b>159 001 596</b> |
| 3-4150-2 | Infrared, 0-1000 NTU/FNU, no self cleaning                         | <b>159 001 597</b> |
| 3-4150-3 | White Light, 0 to 100 NTU/FNU, with ultrasonic auto self cleaning  | <b>159 001 598</b> |
| 3-4150-4 | Infrared, 0-100 NTU/FNU, with ultrasonic auto self cleaning        | <b>159 001 599</b> |
| 3-4150-5 | White Light, 0 to 1000 NTU/FNU, with ultrasonic auto self cleaning | <b>159 001 600</b> |
| 3-4150-6 | Infrared, 0-1000 NTU/FNU, with ultrasonic auto self cleaning       | <b>159 001 601</b> |

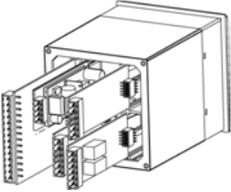
# Signet

## Multi-Parameter Controller

### 8900 Multi-Parameter Controller

#### Instruments:

- Display: Backlit LCD, 2x16 alphanumeric characters
- Sensor Input: Up to 6 inputs, Analog or Digital (S3L) or Pulse (2 max for pulse)
- Analog Output: Up to Four, 4-20mA isolated, passive/active option or 0-5VDC or 0-10VDC
- Relay/Solid-State Output: Up to 4 Internal and up 2 or 4 more external contact relays (via 8059)
- Compatible Sensors: All Signet Digital/Pulse Output Flow Sensors, 2250, 2350, 2450, 2750, 2850, 8058-x



| MFR #         | Description                                | *        | Code               |
|---------------|--|----------|--------------------|
| 3-8900        | Base Unit with LCD                         | Required | <b>159 000 868</b> |
| 3-8900.401-1  | Two inputs, no outputs                     | Required | <b>159 000 870</b> |
| 3-8900.401-2  | Two inputs, two passive 4 to 20mA outputs  | Required | <b>159 000 871</b> |
| 3-8900.401-3  | Two inputs, two active 4 to 20mA outputs   | Required | <b>159 000 872</b> |
| 3-8900.401-4  | Two inputs, two 0 to 5/10 VDC outputs      | Required | <b>159 000 873</b> |
| 3-8900.401-5  | Four inputs, no outputs                    | Required | <b>159 000 874</b> |
| 3-8900.401-6  | Four inputs, two passive 4 to 20mA outputs | Required | <b>159 000 875</b> |
| 3-8900.401-7  | Four inputs, two active 4 to 20mA outputs  | Required | <b>159 000 876</b> |
| 3-8900.401-8  | Four inputs, two 0 to 5/10 VDC outputs     | Required | <b>159 000 877</b> |
| 3-8900.401-9  | Six inputs, no outputs                     | Required | <b>159 000 968</b> |
| 3-8900.401-10 | Six inputs, two passive 4 to 20mA outputs  | Required | <b>159 000 969</b> |
| 3-8900.401-11 | Six inputs, two active 4 to 20mA outputs   | Required | <b>159 000 970</b> |
| 3-8900.401-12 | Six inputs, two 0 to 5/10 VDC outputs      | Required | <b>159 000 971</b> |
| 3-8900.402-1  | 85 to 264 VAC power                        | Required | <b>159 000 878</b> |
| 3-8900.402-2  | 12 to 24 VDC power                         | Required | <b>159 000 879</b> |
| 3-8900.403-1  | Two dry-contact relays                     | Optional | <b>159 000 880</b> |
| 3-8900.403-2  | Two solid-state relays                     | Optional | <b>159 000 881</b> |
| 3-8900.405-1  | Two passive 4 to 20mA outputs              | Optional | <b>159 000 883</b> |
| 3-8900.405-2  | Two active 4 to 20mA outputs               | Optional | <b>159 000 884</b> |
| 3-8900.405-3  | Two 0 to 5/10 VDC outputs                  | Optional | <b>159 000 885</b> |

### 8900 Multi-Parameter Controller Accessories and Replacement Parts



| MFR #      | Description                                      | Code               |
|------------|--|--------------------|
| 3-8900.614 | 14-terminal plug (for I/O Module)                | <b>159 000 902</b> |
| 3-8900.604 | 4-terminal plug (for Power Module)               | <b>159 000 903</b> |
| 3-8900.606 | 6-terminal plug (for Dry-contact Relays)         | <b>159 000 937</b> |
| 3-8900.390 | DB-9 crossover cable (for clone mode)            | <b>159 000 891</b> |
| 3-8900.391 | Rear Panel w/ Captive Screws                     | <b>159 000 918</b> |
| 3-8900.561 | Front Face Panel Gasket                          | <b>159 000 919</b> |
| 3-8900.602 | 2-terminal plug, 2 ea. (for SSR & Outputs 3 & 4) | <b>159 000 904</b> |

### 8900 Multi-Parameter Controller Manuals



| description                  | Code               |
|------------------------------|--------------------|
| Manual all 6 languages on CD | <b>159 000 911</b> |
| Manual English               | <b>159 000 912</b> |

# Signet

## Saftey Barriers



### Type 6400 Intrinsic Saftey Barriers

#### Signet Other:

- Single channel intrinsic safety barriers for use with the 515, 525 and 2517 paddle-wheel flow sensors.
- Both versions use a 1/2 inch wide housing which snaps directly to a 35mm DIN rail.
- Once mounted, an electrical connection is formed between the barrier and the rail.
- Two additional ground lugs are provided and may be used as a redundant grounding method or for terminating shields.
- Each barrier also contains a replaceable 160mA fuse cartridge for each channel.
- Safety barriers are polarity sensitive devices and are available in +DC and AC voltage ratings.

| MFR #       | Description                           | Code               |  |
|-------------|---------------------------------------|--------------------|--|
| * 6400-9001 | For use with 515 flow sensor          | <b>159 001 466</b> |  |
| * 6402-9001 | For use with 525 and 2517 flow sensor | <b>159 001 486</b> |  |

# Signet

## Buffer Solutions for pH/ORP

### Buffer Solutions



#### pH/ORP:

- NIST Traceable
- Temperature compensated values
- Liquid or powder versions
- Kits available for easy use
- Easily identifiable color coded buffer solutions

| MFR #      | Description                                   | Code               |  |
|------------|---|--------------------|--|
| 3822-7004  | pH 4 buffer solution, 1 pt (473 ml)           | <b>159 001 581</b> |  |
| 3822-7007  | pH 7 buffer solution, 1 pt (473 ml)           | <b>159 001 582</b> |  |
| 3822-7010  | pH 10 buffer solution, 1 pt (473 ml)          | <b>159 001 583</b> |  |
| 3-0700.390 | pH buffer kit (1 ea 4, 7, 10 powder form)     | <b>198 864 403</b> |  |
| 3-2700.395 | Calibration kit, 3 PP cups, 1 pt ea 4, 7 solu | <b>159 001 605</b> |  |
| 3822-7115  | 20 gm bottle Quinhydrone for ORP calibration  | <b>159 001 606</b> |  |

# Signet

## Switching Power Supplies

### Type 7300 Switching Power Supplies



| MFR #     | Description   | Code               |  |
|-----------|---------------|--------------------|--|
| 7300-7524 | 7.5 W, 300 mA | <b>159 000 687</b> |  |
| 7300-1524 | 15 W, 600 mA  | <b>159 000 688</b> |  |
| 7300-3024 | 30 W, 1.3 A   | <b>159 000 689</b> |  |
| 7300-5024 | 50 W, 2.1 A   | <b>159 000 690</b> |  |
| 7300-1024 | 100 W, 4.2 A  | <b>159 000 691</b> |  |

# Signet Converter

## i-Go™ 8058 Signal Converter



### Signet Other:

- Features: Connects with level, temperature, pressure and multi-parameter Signet instruments
- Up to two 4 to 20mA sensor inputs
- Connects additional measurement parameters to Signet 8900 Multi-Parameter instrument
- Wire or DIN rail mountable

| MFR #    | description                              | For Type | Code               |  |
|----------|--|----------|--------------------|--|
| 3-8058-1 | Single input wire-mount with short cable | 8900     | <b>159 000 966</b> |  |
| 3-8058-2 | Two input DIN rail mount                 | 8900     | <b>159 000 967</b> |  |

# Signet

## Relay

### 8059 External Relay Modules



#### Instruments:

- Relay Outputs: 2 or 4 external contact relays. SPDT 250VAC/30VDC/5A
- Operating Temperature: -10°C to 55°C (14°F to 131°F)
- Relative Humidity: 0 to 90% (non-condensing)
- Pass-through Output: S3L signals can be passed through this unit
- Material: Enclosure: Noryl® UL 94 V-O
- Compatible Instruments: 8250, 8900 (S3L Instruments only)

| MFR #      | Description  | Code               |  |
|------------|--|--------------------|--|
| 3-8059-2   | Two external dry-contact relays                    | <b>159 000 770</b> |  |
| 3-8059-2AC | Two external dry-contact relays with power supply  | <b>159 000 771</b> |  |
| 3-8059-4   | Four external dry-contact relays                   | <b>159 000 772</b> |  |
| 3-8059-4AC | Four external dry-contact relays with power supply | <b>159 000 773</b> |  |

# Signet

## pH/ORP System Tester

### Type 2759 pH/ORP System Tester



#### pH/ORP:

- Connection: Twist-lock or DryLoc
- Compatible Instruments: Signet 5700, 8750 or 8900
- Additional Features: Battery powered millivolt generator
- Simulated pH or ORP values
- Verifies instrument and preamplifier functionality

| MFR #      | Description                       | Compatible Preamplifier | Code               |
|------------|-----------------------------------|-------------------------|--------------------|
| 3-2759     | Connects directly to instrument   | n/a                     | <b>159 000 762</b> |
| 3-2759.391 | Use with DryLoc preamplifiers     | 2750, 2760 DryLoc       | <b>159 000 764</b> |
| 3-2759.393 | Use with Twist-Lock preamplifiers | 2720 Twist-Lock         | <b>159 000 765</b> |

# Signet

## Conductivity/Resistivity Tools

### Conductivity/Resistivity Tools



#### Conductivity/Resistivity:

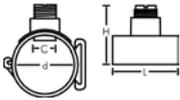
- NIST traceable certification tools
- NIST certificate ships with each tool
- Simulates various values to validate or calibrate instruments and sensor electronics
- 2850 tools are temperature compensated to 25C for various conductivity or resistive values
- 2850 sensor electronics tool is "plug-in" style. The 2830 connects to 8850, 8860 and 5800CR terminal
- Signet Instrument Types: 5800CR, 5900, 8850, 8860, 8900 or the 2850

| MFR #        | Input Simulated           | Code               |  |
|--------------|---------------------------|--------------------|--|
| 3-2830       | 1.0 $\mu$ S + 2.5 $\mu$ S | <b>159 000 628</b> |  |
| 3-2850.101-1 | 1.0 $\mu$ S               | <b>159 001 392</b> |  |
| 3-2850.101-2 | 2.5 $\mu$ S               | <b>159 001 393</b> |  |
| 3-2850.101-3 | 10.0 $\mu$ S              | <b>159 001 394</b> |  |
| 3-2850.101-4 | 18.2 M $\Omega$           | <b>159 001 395</b> |  |
| 3-2850.101-5 | 10 M $\Omega$             | <b>159 001 396</b> |  |

# Signet

## Plastic Installation Fittings

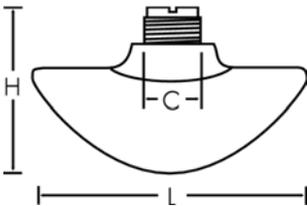
### PVC Clamp-on Saddles SCH 80



- Mounts on PVC pipe
- C - Clearance dimension
- EPDM O-ring

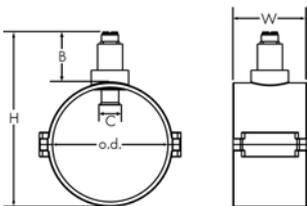
| Type    | Size<br>[inch] | L<br>[inch] | H<br>[inch] | d<br>[inch] | C<br>[inch] | Sensor Type     | Code               |
|---------|----------------|-------------|-------------|-------------|-------------|-----------------|--------------------|
| PV8S020 | 2.00           | 4.00        | 5.00        | 2.375       | 1.43        | Flow -X0, pH-XX | <b>159 000 637</b> |
| PV8S025 | 2.50           | 4.75        | 5.40        | 2.875       | 1.43        | Flow -X0, pH-XX | <b>159 000 638</b> |
| PV8S030 | 3.00           | 5.00        | 6.00        | 3.500       | 1.43        | Flow -X0, pH-XX | <b>198 150 577</b> |
| PV8S040 | 4.00           | 5.00        | 7.10        | 4.500       | 1.43        | Flow -X0        | <b>198 150 578</b> |
| PV8S060 | 6.00           | 5.00        | 10.00       | 6.625       | 2.25        | Flow -X1        | <b>198 150 579</b> |
| PV8S080 | 8.00           | 5.00        | 11.50       | 8.625       | 2.25        | Flow -X1        | <b>159 000 639</b> |

### PVC Glue-on Saddle



| Type    | Size<br>[inch] | W<br>[inch] | H<br>[inch] | o.d.<br>[inch] | C<br>[inch] | Sensor Type | Code               |
|---------|----------------|-------------|-------------|----------------|-------------|-------------|--------------------|
| PV8S100 | 10.00          | 9.00        | 5.43        | 10.75          | 2.25        | Flow -X2    | <b>159 000 695</b> |
| PV8S120 | 12.00          | 9.00        | 5.15        | 12.75          | 2.25        | Flow -X2    | <b>159 000 696</b> |

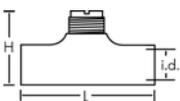
### PP Screw-On Saddle



- Buna Nitrile O-ring

| Type   | Size<br>[inch] | L<br>[inch] | H<br>[inch] | o.d.<br>[inch] | C<br>[inch] | Sensor Type | Code               |
|--------|----------------|-------------|-------------|----------------|-------------|-------------|--------------------|
| PPS100 | 10.00          | 7.04        | 16.75       | 10.75          | 2.25        | Flow -X2    | <b>159 000 693</b> |
| PPS120 | 12.00          | 9.68        | 18.18       | 12.75          | 2.25        | Flow -X2    | <b>159 000 694</b> |

### Fiberglass Glue-on Tees

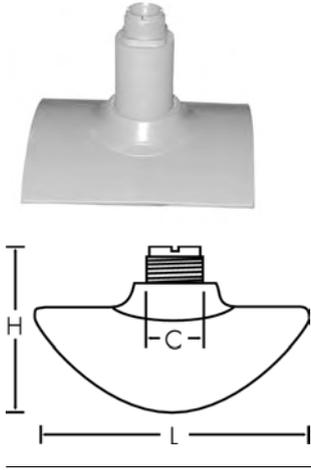


- PVDF insert - all sizes
- PTFE tape wetted material. Consult factory for available options.

| Type   | Size<br>[inch] | L<br>[inch] | H<br>[inch] | i.d.<br>[inch] | Sensor Type      | Code               |
|--------|----------------|-------------|-------------|----------------|------------------|--------------------|
| FPT015 | 1.50           | 5.50        | 4.70        | 1.92           | Flow -X0, pH -XX | <b>159 000 446</b> |
| FPT020 | 2.00           | 7.70        | 8.00        | 2.38           | Flow -X0, pH -XX | <b>159 000 447</b> |

# Signet

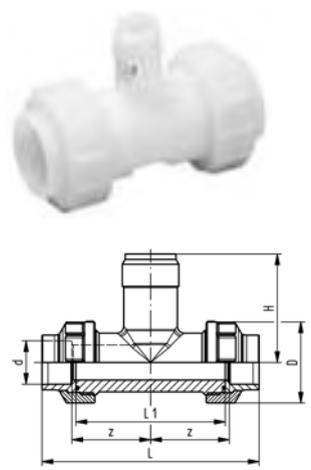
## Fiberglass Glue-on Saddles



- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- Mounts on fiberglass pipe
- PTFE tape wetted material. Consult factory for available options.

| Type   | Size<br>[inch] | L<br>[inch] | H<br>[inch] | o.d.<br>[inch] | C<br>[inch] | Sensor Type      | Code               |
|--------|----------------|-------------|-------------|----------------|-------------|------------------|--------------------|
| FPS030 | 3.00           | 5.90        | 4.50        | 3.50           | 1.44        | Flow -X0, pH -XX | <b>159 000 441</b> |
| FPS040 | 4.00           | 8.00        | 4.50        | 4.50           | 1.44        | Flow -X0, pH -XX | <b>159 000 442</b> |
| FPS060 | 6.00           | 8.00        | 6.50        | 6.62           | 2.25        | Flow -X1         | <b>159 000 443</b> |
| FPS080 | 8.00           | 10.00       | 8.00        | 8.62           | 2.25        | Flow -X1         | <b>198 801 417</b> |
| FPS100 | 10.00          | 12.00       | 8.50        | 10.75          | 2.25        | Flow -X2         | <b>159 000 444</b> |
| FPS120 | 12.00          | 12.00       | 8.50        | 12.75          | 2.25        | Flow -X2         | <b>159 000 445</b> |

## SYGEF Standard installation fitting type 310 (FPM black) PN16 for socket fusion systems



### Model:

- Material: PVDF
- Threaded outlet 1 ¼" NPSM
- Union end with fusion socket PVDF

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

### Attention:

- sensor length depends on installation fitting
- supplied with sealing

| d<br>[mm] | PN | Code               | D<br>[mm] | z<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | Sensor Type    |
|-----------|----|--------------------|-----------|-----------|-----------|------------|-----------|----------------|
| 20        | 16 | <b>735 310 036</b> | 45        | 50        | 128       | 90         | 76        | flow X0, pH XX |
| 25        | 16 | <b>735 310 037</b> | 55        | 55        | 142       | 100        | 78        | flow X0, pH XX |
| 32        | 16 | <b>735 310 038</b> | 62        | 60        | 156       | 110        | 81        | flow X0, pH XX |
| 40        | 16 | <b>735 310 039</b> | 75        | 60        | 160       | 110        | 85        | flow X0, pH XX |
| 50        | 16 | <b>735 310 040</b> | 84        | 65        | 176       | 120        | 89        | flow X0, pH XX |
| 63        | 16 | <b>735 310 041</b> | 101       | 70        | 194       | 130        | 95        | flow X0, pH XX |

## SYGEF Standard installation fitting type 311 (FPM black)



### Model:

- Material: PVDF
- Threaded outlet 1 ¼" NPSM
- Suitable for backing flanges metric and inch
- Delivered with profile O-ring

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

### Attention:

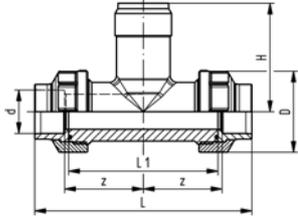
- sensor length depends on installation fitting

| d<br>[mm] | DN<br>[mm] | PN<br>[bar] | Code               | H<br>[mm] | D<br>[mm] | L<br>[mm] | L1<br>[mm] | Sensor Type |
|-----------|------------|-------------|--------------------|-----------|-----------|-----------|------------|-------------|
| 75        | 65         | 10 / 16     | <b>735 311 042</b> | 135       | 88        | 48        | 61         | flow X1     |
| 90        | 80         | 10 / 16     | <b>735 311 043</b> | 141       | 102       | 48        | 69         | flow X1     |
| 110       | 100        | 10 / 16     | <b>735 311 044</b> | 152       | 132       | 48        | 79         | flow X1     |
| 125       | 100        | 10 / 16     | <b>735 311 045</b> | 147       | 132       | 48        | 79         | flow X1     |
| 140       | 125        | 10 / 16     | <b>735 311 046</b> | 153       | 157       | 48        | 94         | flow X1     |
| 160       | 150        | 10 / 16     | <b>735 311 047</b> | 161       | 482       | 48        | 106        | flow X1     |
| 200       | 200        | 10 / 16     | <b>735 311 049</b> | 175       | 236       | 48        | 134        | flow X1     |
| 225       | 200        | 10 / 16     | <b>735 311 050</b> | 185       | 236       | 48        | 134        | flow X1     |

# Signet

27 31 00

## PROGEF Standard installation fitting type 310 S5/SDR11 for socket systems metric



### Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with fusion socket PP-H

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

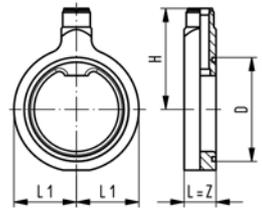
### Attention:

- sensor length depends on installation fitting

| d<br>[mm] | DN<br>[mm] | PN | FPM<br>Code | D<br>[mm] | z<br>[mm] | L<br>[mm] | L1<br>[mm] | H<br>[mm] | Sensor Type    |
|-----------|------------|----|-------------|-----------|-----------|-----------|------------|-----------|----------------|
| 20        | 15         | 10 | 727 310 036 | 48        | 50        | 128       | 90         | 76        | flow X0, pH XX |
| 25        | 20         | 10 | 727 310 037 | 58        | 55        | 142       | 100        | 78        | flow X0, pH XX |
| 32        | 25         | 10 | 727 310 038 | 65        | 60        | 156       | 110        | 81        | flow X0, pH XX |
| 40        | 32         | 10 | 727 310 039 | 79        | 60        | 160       | 110        | 85        | flow X0, pH XX |
| 50        | 40         | 10 | 727 310 040 | 91        | 65        | 176       | 120        | 89        | flow X0, pH XX |
| 63        | 50         | 10 | 727 310 041 | 105       | 70        | 194       | 130        | 95        | flow X0, pH XX |

27 31 10

## PROGEF Standard installation fitting type 311



### Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Suitable for backing flanges metric and inch
- Suitable for SDR 11 - SDR 17.6
- Delivered with profile O-ring

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

### Attention:

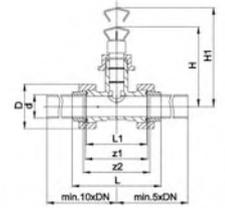
- sensor length depends on installation fitting

| d<br>[mm] | DN<br>[mm] | PN | EPDM<br>Code | FPM<br>Code | D<br>[mm] | H<br>[mm] | L<br>[mm] | L1<br>[mm] | Sensor Type |
|-----------|------------|----|--------------|-------------|-----------|-----------|-----------|------------|-------------|
| 75        | 65         | 16 | 727 311 012  | 727 311 042 | 88        | 133       | 48        | 61         | flow X1     |
| 90        | 80         | 16 | 727 311 013  | 727 311 043 | 102       | 140       | 48        | 69         | flow X1     |
| 110       | 100        | 16 | 727 311 014  | 727 311 044 | 132       | 149       | 48        | 79         | flow X1     |
| 125       | 100        | 16 | 727 311 015  |             | 132       | 144       | 48        | 79         | flow X1     |
| 140       | 125        | 16 | 727 311 016  | 727 311 046 | 157       | 149       | 48        | 94         | flow X1     |
| 160       | 150        | 16 | 727 311 017  | 727 311 047 | 182       | 156       | 48        | 106        | flow X1     |
| 225       | 200        | 16 | 727 311 020  | 727 311 050 | 236       | 178       | 48        | 134        | flow X1     |
| 280       | 250        | 16 | 727 311 022  | 727 311 052 | 289       | 273       | 48        | 160        | flow X2     |
| 315       | 300        | 16 | 727 311 023  | 727 311 053 | 329       | 285       | 48        | 185        | flow X2     |

# Signet

## Plastic Installation Fittings (metric)

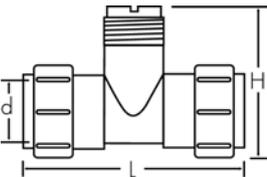
### Metric PVC-U Tee



- FPM O-ring
- These fittings are only available from your local Georg Fischer sales office

| Type    | d<br>[mm] | DN<br>[mm] | Code               | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|---------|-----------|------------|--------------------|-----------|------------|-----------|------------|
| PVMT005 | 20        | 15         | <b>198 150 480</b> | 145       | 225        | 128       | 90         |
| PVMT007 | 25        | 20         | <b>198 150 481</b> | 148       | 228        | 144       | 100        |
| PVMT010 | 32        | 25         | <b>198 150 482</b> | 151       | 231        | 160       | 110        |
| PVMT012 | 40        | 32         | <b>198 150 483</b> | 155       | 235        | 168       | 110        |
| PVMT015 | 50        | 40         | <b>198 150 484</b> | 159       | 239        | 188       | 120        |
| PVMT020 | 63        | 50         | <b>198 150 485</b> | 164       | 244        | 212       | 130        |

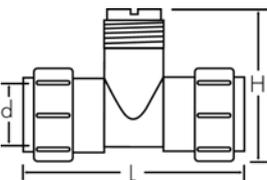
### Metric PP Union Tee



- Socket fusion equipment is required to install PVDF and PP union tees.
- FPM O-ring

| Type    | d<br>[mm] | DN<br>[mm] | Code               | L<br>[mm] | H<br>[mm] |
|---------|-----------|------------|--------------------|-----------|-----------|
| PPMT005 | 20        | 15         | <b>198 150 522</b> | 128       | 97        |
| PPMT007 | 25        | 20         | <b>198 150 523</b> | 142       | 105       |
| PPMT010 | 32        | 25         | <b>198 150 524</b> | 156       | 110       |
| PPMT012 | 40        | 32         | <b>198 150 525</b> | 160       | 120       |
| PPMT015 | 50        | 40         | <b>198 150 526</b> | 176       | 130       |
| PPMT020 | 63        | 50         | <b>198 150 527</b> | 194       | 146       |

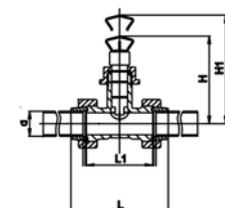
### Metric PVDF Union Tee



- Socket fusion equipment is required to install PVDF and PP union tees.
- FPM O-ring

| Type    | DN<br>[mm] | L<br>[mm] | H<br>[mm] | d<br>[mm] | Sensor Type      | Code               |
|---------|------------|-----------|-----------|-----------|------------------|--------------------|
| SFMT005 | 15         | 128       | 97        | 20        | Flow -X0, pH -XX | <b>198 150 529</b> |
| SFMT007 | 20         | 142       | 105       | 25        | Flow -X0, pH -XX | <b>198 150 530</b> |
| SFMT010 | 25         | 156       | 110       | 32        | Flow -X0, pH -XX | <b>198 150 531</b> |
| SFMT012 | 32         | 160       | 120       | 40        | Flow -X0, pH -XX | <b>198 150 532</b> |
| SFMT015 | 40         | 176       | 130       | 50        | Flow -X0, pH -XX | <b>198 150 533</b> |
| SFMT020 | 50         | 194       | 146       | 63        | Flow -X0, pH -XX | <b>198 150 534</b> |

### BSP PVC-U Tee Fittings



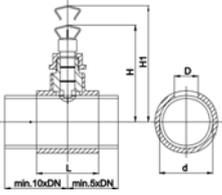
- FPM O-ring
- These fittings are only available from your local Georg Fischer sales office

| Type    | d<br>[mm] | Size<br>[inch] | Code               | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] |
|---------|-----------|----------------|--------------------|-----------|------------|-----------|------------|
| PVAT005 | 20        | 0.50           | <b>198 150 494</b> | 145       | 225        | 128       | 90         |
| PVAT007 | 25        | 0.75           | <b>198 150 495</b> | 148       | 228        | 144       | 100        |
| PVAT010 | 32        | 1.00           | <b>198 150 496</b> | 151       | 231        | 160       | 110        |
| PVAT012 | 40        | 1.25           | <b>198 150 497</b> | 155       | 235        | 168       | 110        |
| PVAT015 | 50        | 1.75           | <b>198 150 498</b> | 159       | 239        | 188       | 120        |
| PVAT020 | 63        | 2.00           | <b>198 150 499</b> | 164       | 244        | 212       | 130        |

# Signet

## BSP PVC-U Clamp-on Saddle

- EPDM Gasket
- These fittings are only available from your local Georg Fischer sales office



| Type    | d<br>[mm] | Size<br>[inch] | Sensor Type      | Code               | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] |
|---------|-----------|----------------|------------------|--------------------|-----------|-----------|------------|-----------|
| PVAS030 | 90        | 3.00           | Flow -X0, pH -XX | <b>198 150 550</b> | 39        | 175       | 255        | 105       |
| PVAS040 | 110       | 4.00           | Flow -X0, pH -XX | <b>198 150 551</b> | 39        | 184       | 264        | 105       |
| PVAS060 | 160       | 6.00           | Flow -X1         | <b>198 150 554</b> | 39        | 224       | 339        | 120       |

# Signet

## Metal Fittings

### Iron Strap-on saddle



- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- Buna Nitrile O-ring
- For use with SCH 80 & 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | H<br>[inch] | o.d. min<br>[inch] | o.d. max<br>[inch] | C<br>[inch] | Sensor Type      | Code               |
|---------|----------------|-------------|--------------------|--------------------|-------------|------------------|--------------------|
| IR8S020 | 2.00           | 5.50        | 2.35               | 2.56               | 1.44        | Flow -X0, pH -XX | <b>198 801 425</b> |
| IR8S025 | 2.50           | 5.50        | 2.44               | 2.91               | 1.44        | Flow -X0, pH -XX | <b>198 801 426</b> |
| IR8S030 | 3.00           | 6.50        | 2.97               | 3.54               | 1.44        | Flow -X0, pH -XX | <b>198 801 427</b> |
| IR8S040 | 4.00           | 7.50        | 3.74               | 4.55               | 1.44        | Flow -X0, pH -XX | <b>198 801 420</b> |
| IR8S050 | 5.00           | 9.00        | 4.74               | 5.63               | 2.25        | Flow -X1         | <b>198 801 429</b> |
| IR8S060 | 6.00           | 10.50       | 5.94               | 6.70               | 2.25        | Flow -X1         | <b>198 801 430</b> |
| R8S080  | 8.00           | 12.00       | 7.69               | 8.72               | 2.25        | Flow -X1         | <b>198 801 431</b> |
| IR8S100 | 10.00          | 18.00       | 10.64              | 12.12              | 2.25        | Flow -X2         | <b>198 801 432</b> |
| IR8S120 | 12.00          | 20.00       | 12.62              | 14.32              | 2.25        | Flow -X2         | <b>198 801 433</b> |

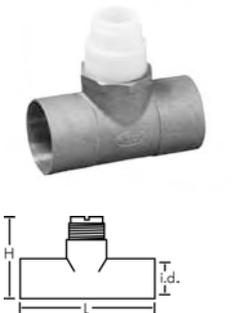
### Carbon Steel Threaded Tees with NPT Thread



- PVDF insert - all sizes
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | L<br>[inch] | H<br>[inch] | Code               |
|---------|----------------|-------------|-------------|--------------------|
| CS4T005 | 0.50           | 3.60        | 4.00        | <b>198 801 459</b> |
| CS4T007 | 0.75           | 3.60        | 4.20        | <b>198 801 460</b> |
| CS4T010 | 1.00           | 3.60        | 4.20        | <b>198 801 461</b> |
| CS4T012 | 1.25           | 3.80        | 4.50        | <b>198 801 462</b> |
| CS4T015 | 1.50           | 4.10        | 4.80        | <b>198 801 419</b> |
| CS4T020 | 2.00           | 4.90        | 5.30        | <b>198 801 463</b> |

### Copper Sweat-on Tee with PVDF insert

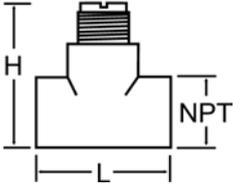


- No insert up to 1 in., over 1 in. - PVDF insert
- For use with copper pipe (SCH K)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | L<br>[inch] | H<br>[inch] | i.d.<br>[inch] | Sensor Type      | Code               |
|---------|----------------|-------------|-------------|----------------|------------------|--------------------|
| CUKT005 | 0.50           | 3.15        | 3.57        | 0.62           | Flow -X0, pH -XX | <b>198 801 687</b> |
| CUKT007 | 0.75           | 2.96        | 3.52        | 0.87           | Flow -X0, pH -XX | <b>198 801 688</b> |
| CUKT010 | 1.00           | 3.23        | 3.80        | 1.12           | Flow -X0, pH -XX | <b>198 801 689</b> |
| CUKT012 | 1.25           | 4.16        | 4.12        | 1.38           | Flow -X0, pH -XX | <b>198 801 690</b> |
| CUKT015 | 1.50           | 4.43        | 4.34        | 1.63           | Flow -X0, pH -XX | <b>198 801 691</b> |
| CUKT020 | 2.00           | 5.31        | 4.86        | 2.11           | Flow -X0, pH -XX | <b>198 801 418</b> |

# Signet

## Galvanized Iron Threaded Tee with NPT Threads and PVDF insert



- PVDF insert - all sizes
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | NPT  | L<br>[inch] | H<br>[inch] | Sensor Type      | Code               |
|---------|----------------|------|-------------|-------------|------------------|--------------------|
| IR4T010 | 1.00           | 1.00 | 3.40        | 4.10        | Flow -X0, pH -XX | <b>198 801 421</b> |
| IR4T012 | 1.25           | 1.25 | 3.56        | 4.34        | Flow -X0, pH -XX | <b>198 801 422</b> |
| IR4T015 | 1.50           | 1.50 | 3.75        | 4.67        | Flow -X0, pH -XX | <b>198 801 423</b> |
| IR4T020 | 2.00           | 2.00 | 3.90        | 5.05        | Flow -X0, pH -XX | <b>198 801 424</b> |

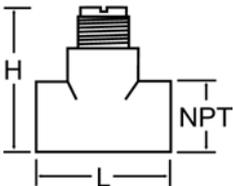
## 316 SS (1.4401) Threaded Tees with NPT Threads with PVDF insert



- PVDF insert - all sizes
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | L<br>[inch] | H<br>[inch] | Sensor Type      | Code               |
|---------|----------------|-------------|-------------|------------------|--------------------|
| CR4T005 | 0.50           | 3.60        | 4.00        | Flow -X0, pH -XX | <b>198 801 554</b> |
| CR4T007 | 0.75           | 3.60        | 4.20        | Flow -X0, pH -XX | <b>198 801 555</b> |
| CR4T010 | 1.00           | 3.60        | 4.20        | Flow -X0, pH -XX | <b>198 801 556</b> |
| CR4T012 | 1.25           | 3.80        | 4.50        | Flow -X0, pH -XX | <b>198 801 783</b> |
| CR4T015 | 1.50           | 4.10        | 4.80        | Flow -X0, pH -XX | <b>198 801 784</b> |
| CR4T020 | 2.00           | 4.90        | 5.30        | Flow -X0, pH -XX | <b>198 801 785</b> |

## Brass Threaded Tee with NPT Threads and PVDF insert



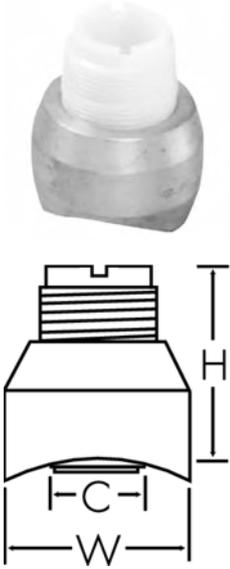
- PVDF insert - all sizes
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.

| Type    | Size<br>[inch] | NPT  | L<br>[inch] | H<br>[inch] | Sensor Type      | Code               |
|---------|----------------|------|-------------|-------------|------------------|--------------------|
| BR4T010 | 1.00           | 1.00 | 3.36        | 4.09        | Flow -X0, pH -XX | <b>198 801 770</b> |
| BR4T012 | 1.25           | 1.25 | 3.42        | 4.42        | Flow -X0, pH -XX | <b>198 801 771</b> |
| BR4T015 | 1.50           | 1.50 | 3.46        | 4.70        | Flow -X0, pH -XX | <b>198 801 772</b> |
| BR4T020 | 2.00           | 2.00 | 3.68        | 5.19        | Flow -X0, pH -XX | <b>198 801 773</b> |

# Signet

## Brass Brazolet with PVDF insert

- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- PTFE tape wetted material. Consult factory for available options.



| Type    | Size<br>[inch] | W<br>[inch] | H<br>[inch] | C<br>[inch] | Sensor Type      | Code               |
|---------|----------------|-------------|-------------|-------------|------------------|--------------------|
| BR4B025 | 2.50           | 2.50        | 2.48        | 1.31        | Flow -X0, pH -XX | <b>198 801 794</b> |
| BR4B030 | 3.00           | 2.50        | 2.47        | 1.31        | Flow -X0, pH -XX | <b>198 801 795</b> |
| BR4B040 | 4.00           | 2.50        | 2.45        | 1.31        | Flow -X0, pH -XX | <b>198 801 796</b> |
| BR4B050 | 5.00           | 3.50        | 3.24        | 2.10        | Flow -X1         | <b>198 801 797</b> |
| BR4B060 | 6.00           | 3.50        | 3.11        | 2.10        | Flow -X1         | <b>198 801 798</b> |
| BR4B080 | 8.00           | 3.50        | 2.88        | 2.10        | Flow -X1         | <b>198 801 799</b> |
| BR4B100 | 10.00          | 3.50        | 5.63        | 2.10        | Flow -X2         | <b>198 801 800</b> |
| BR4B120 | 12.00          | 3.50        | 5.40        | 2.10        | Flow -X2         | <b>198 801 801</b> |

## 316 SS (1.4401) Weldolets with PVDF insert

- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.



| Type    | Size<br>[inch] | W<br>[inch] | H<br>[inch] | C<br>[inch] | Code               |
|---------|----------------|-------------|-------------|-------------|--------------------|
| CR4W025 | 2.50           | 2.96        | 2.50        | 1.44        | <b>198 801 786</b> |
| CR4W030 | 3.00           | 2.90        | 2.55        | 1.44        | <b>198 801 787</b> |
| CR4W040 | 4.00           | 2.50        | 2.75        | 1.44        | <b>198 801 788</b> |
| CR4W050 | 5.00           | 3.50        | 3.98        | 2.25        | <b>198 801 789</b> |
| CR4W060 | 6.00           | 3.50        | 4.00        | 2.25        | <b>198 801 790</b> |
| CR4W080 | 8.00           | 3.50        | 4.00        | 2.25        | <b>198 801 791</b> |
| CR4W100 | 10.00          | 3.50        | 4.00        | 2.25        | <b>198 801 792</b> |
| CR4W120 | 12.00          | 3.50        | 7.00        | 2.25        | <b>198 801 793</b> |

## Carbon Steel Weld-on Weldolets with PVDF insert

- C - Clearance dimension
- Up to 8 in. - PVDF insert, over 8 in. - PVC insert
- For use with SCH 40 metal pipe (ASTM)
- PTFE tape wetted material. Consult factory for available options.



| Type    | Size<br>[inch] | W<br>[inch] | H<br>[inch] | C<br>[inch] | Sensor Type      | Code               |
|---------|----------------|-------------|-------------|-------------|------------------|--------------------|
| CS4W025 | 2.50           | 2.60        | 2.48        | 1.31        | Flow -X0, pH -XX | <b>198 801 464</b> |
| CS4W030 | 3.00           | 2.60        | 2.47        | 1.31        | Flow -X0, pH -XX | <b>198 801 557</b> |
| CS4W040 | 4.00           | 2.60        | 2.45        | 1.31        | Flow -X0, pH -XX | <b>198 801 552</b> |
| CS4W050 | 5.00           | 3.50        | 3.24        | 2.10        | Flow -X1         | <b>198 801 465</b> |
| CS4W060 | 6.00           | 3.50        | 3.11        | 2.10        | Flow -X1         | <b>198 801 553</b> |
| CS4W080 | 8.00           | 3.50        | 2.88        | 2.10        | Flow -X1         | <b>198 801 574</b> |
| CS4W100 | 10.00          | 3.50        | 5.63        | 2.10        | Flow -X2         | <b>198 801 575</b> |
| CS4W120 | 12.00          | 3.50        | 5.40        | 2.10        | Flow -X2         | <b>198 801 576</b> |

# Signet

## Metalex Weld-on Mini-Tap (1.4401)

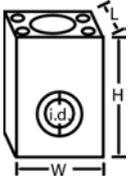
- For use with SS pipe
- Gasket Klinger C4401 Thermoseal



| Type      | DN<br>[mm] | Size<br>[inch] | for sensor | Code               | W<br>[inch] | H<br>[inch] | C<br>[inch] |
|-----------|------------|----------------|------------|--------------------|-------------|-------------|-------------|
| P526-2012 | 32         | 1.25           | P525-X     | <b>159 000 494</b> | 1.66        | 2.25        | 1.260       |
| P526-2015 | 40         | 1.50           | P525-X     | <b>198 840 506</b> | 1.66        | 2.2         | 1.260       |
| P526-2020 | 50         | 2.00           | P525-X     | <b>159 000 495</b> | 1.66        | 2.17        | 1.260       |
| P526-2025 | 65         | 2.50           | P525-X     | <b>159 000 496</b> | 1.66        | 2.1         | 1.260       |
| P526-2030 | 80         | 3.00           | P525-X     | <b>159 000 497</b> | 1.66        | 2           | 1.260       |
| P526-2040 | 100        | 4.00           | P525-X     | <b>159 000 498</b> | 1.66        | 1.95        | 1.260       |
| P526-2050 | 125        | 5.00           | P525-X     | <b>159 000 499</b> | 1.66        | 1.83        | 1.260       |
| P526-2060 | 150        | 6.00           | P525-X     | <b>159 000 500</b> | 1.66        | 1.75        | 1.260       |
| P526-2080 | 200        | 8.00           | P525-X     | <b>159 000 501</b> | 1.66        | 1.56        | 1.260       |
| P526-2100 | 250        | 10.00          | P525-X     | <b>159 000 502</b> | 1.66        | 1.35        | 1.260       |
| P526-2120 | 300        | 12.00          | P525-X     | <b>159 000 503</b> | 1.66        | 1.15        | 1.260       |

## Metalex Socket Weld Mini-Tap (1.4401)

- For use with SS pipe



| Type      | DN<br>[mm] | Size<br>[inch] | for sensor | Code               | L<br>[inch] | W<br>[inch] | H<br>[inch] | i.d.<br>[inch] |
|-----------|------------|----------------|------------|--------------------|-------------|-------------|-------------|----------------|
| P526-2005 | 15         | 0.50           | P525-X     | <b>198 840 501</b> | 2           | 2.4         | 3           | 0.85           |
| P526-2007 | 20         | 0.75           | P525-X     | <b>198 840 502</b> | 2           | 2.4         | 3           | 1.06           |
| P526-2010 | 25         | 1.00           | P525-X     | <b>198 840 503</b> | 2           | 2.4         | 3           | 1.325          |

## Metalex Strap-on Saddle (1.4401)

- Buna Nitrile O-ring



| Type      | Size<br>[inch] | H<br>[inch] | W<br>[inch] | o.d. min<br>[inch] | o.d. max<br>[inch] | Code               |
|-----------|----------------|-------------|-------------|--------------------|--------------------|--------------------|
| P526-1020 | 2.00           | 7.00        | 5.50        | 2.35               | 2.56               | <b>159 000 484</b> |
| P526-1025 | 2.50           | 7.00        | 5.50        | 2.44               | 2.91               | <b>159 000 485</b> |
| P526-1030 | 3.00           | 7.50        | 6.00        | 2.97               | 3.54               | <b>159 000 486</b> |
| P526-1040 | 4.00           | 8.00        | 7.00        | 3.74               | 4.55               | <b>159 000 487</b> |
| P526-1050 | 5.00           | 10.00       | 8.00        | 4.74               | 5.63               | <b>159 000 488</b> |
| P526-1060 | 6.00           | 10.50       | 9.50        | 5.94               | 6.70               | <b>159 000 489</b> |
| P526-1080 | 8.00           | 12.75       | 12.00       | 7.69               | 8.72               | <b>159 000 490</b> |
| P526-1100 | 10.00          | 14.50       | 15.00       | 10.64              | 12.12              | <b>159 000 491</b> |
| P526-1120 | 12.00          | 17.00       | 17.00       | 12.62              | 14.32              | <b>159 000 492</b> |

# Signet

## Flow Sensor Accessories and Replacement Parts

### Vortex End Connector Kits PVC Sch 80

| MFR #         | Size: d/DN/inches        | End Fitting    | Code               |
|---------------|--------------------------|----------------|--------------------|
| 3-7000.391-51 | 20 mm/15 mm/0.5 inches   | Solvent Socket | <b>159 000 581</b> |
| 3-7000.391-52 | 25 mm/20 mm/ 0.75 inches | Solvent Socket | <b>159 000 582</b> |
| 3-7000.391-53 | 32 mm/25 mm/1.0 inch     | Solvent Socket | <b>159 000 583</b> |
| 3-7000.391-54 | 40 mm/32 mm/1.25 inch    | Solvent Socket | <b>159 000 584</b> |
| 3-7000.391-55 | 50 mm/40 mm/1.5 inch     | Solvent Socket | <b>159 000 585</b> |
| 3-7000.391-56 | 63 mm/50 mm/2 inch       | Solvent Socket | <b>159 000 586</b> |

### Vortex End Connector Kits PVC Metric

| MFR #         | Size: d/DN/inches        | End Fitting    | Code               |
|---------------|--------------------------|----------------|--------------------|
| 3-7000.391-61 | 20 mm/15 mm/0.5 inches   | Solvent Socket | <b>159 000 587</b> |
| 3-7000.391-62 | 25 mm/20 mm/ 0.75 inches | Solvent Socket | <b>159 000 588</b> |
| 3-7000.391-63 | 32 mm/25 mm/1.0 inch     | Solvent Socket | <b>159 000 589</b> |
| 3-7000.391-64 | 40 mm/32 mm/1.25 inch    | Solvent Socket | <b>159 000 590</b> |
| 3-7000.391-65 | 50 mm/40 mm/1.5 inch     | Solvent Socket | <b>159 000 591</b> |
| 3-7000.391-66 | 63 mm/50 mm/2 inch       | Solvent Socket | <b>159 000 592</b> |

### Rotors and Rotor Kits 515

| MFR #        | description                        | For Type     | Code               |
|--------------|------------------------------------|--------------|--------------------|
| M1538-2      | Rotor, PVDF Black                  | 515          | <b>198 801 181</b> |
| P51547-3     | Rotor, PVDF Natural                | 515          | <b>159 000 474</b> |
| M1538-4      | Rotor, Tefzel®                     | 515          | <b>198 820 018</b> |
| P51550-3     | Rotor and Pin, PVDF Natural        | 515          | <b>198 820 043</b> |
| 3-0515.322-1 | Sleeved Rotor, PVDF Black          | 515          | <b>198 820 059</b> |
| 3-0515.322-2 | Sleeved Rotor, PVDF Natural        | 515          | <b>198 820 060</b> |
| 3-0515.322-3 | Sleeved Rotor, Tefzel®             | 515          | <b>198 820 017</b> |
| M1546-1      | Pin, Titanium                      | 515,<br>2536 | <b>198 801 182</b> |
| M1546-2      | Pin, Hastelloy-C                   | 515,<br>2536 | <b>198 801 183</b> |
| M1546-3      | Pin, Tantalum                      | 515,<br>2536 | <b>198 820 014</b> |
| M1546-4      | Pin, Stainless Steel 316 (1 .4401) | 515,<br>2536 | <b>198 820 015</b> |
| P51545       | Pin, Ceramic                       | 515,<br>2536 | <b>198 820 016</b> |

### Rotors and Rotor Kits 2536

| MFR #        | description                 | Code               | For Type |
|--------------|-----------------------------|--------------------|----------|
| 3-2536.320-1 | Rotor, PVDF Black           | <b>198 820 052</b> | 2536     |
| 3-2536.320-2 | Rotor, PVDF Natural         | <b>159 000 272</b> | 2536     |
| 3-2536.320-3 | Rotor, Tefzel®              | <b>159 000 273</b> | 2536     |
| 3-2536.321   | Rotor and Pin, PVDF Natural | <b>198 820 054</b> | 2536     |
| 3-2536.322-1 | Sleeved Rotor, PVDF Black   | <b>198 820 056</b> | 2536     |
| 3-2536.322-2 | Sleeved Rotor, PVDF Natural | <b>198 820 057</b> | 2536     |
| 3-2536.322-3 | Sleeved Rotor, Tefzel®      | <b>198 820 058</b> | 2536     |
| M1546-1      | Pin, Titanium               | <b>198 801 182</b> |          |
| M1546-2      | Pin, Hastelloy-C            | <b>198 801 183</b> |          |

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| MFR #   | description                        | Code               | For Type |
|---------|------------------------------------|--------------------|----------|
| M1546-3 | Pin, Tantalum                      | <b>198 820 014</b> |          |
| M1546-4 | Pin, Stainless Steel 316 (1 .4401) | <b>198 820 015</b> |          |
| P51545  | Pin, Ceramic                       | <b>198 820 016</b> |          |

## Rotor Kit, Pin, O-ring, Cable for 2517

| MFR #      | description                          | Code               | For Type   |
|------------|--------------------------------------|--------------------|------------|
| 3-1500.663 | Hot-Tap Install. Tool                | <b>198 820 008</b> | 2517, 2540 |
| 1220-0121  | O-ring, FPM                          | <b>159 000 852</b> | 2517, 2540 |
| 1224-0021  |                                      | <b>198 820 006</b> |            |
| P52509-1   | Rotor Kit, 316SS Pin (1 .4401)       | <b>159 000 479</b> | 2517       |
| P52509-3   | Rotor Kit, Tungsten Carbide Pin      | <b>159 001 068</b> | 2517       |
| P52503     | Bearing, Rulon B (Fluoroloy B®/PTFE) | <b>198 820 013</b> | 525, 2517  |
| 3-2517.567 | Cable, per ft.                       | <b>159 000 269</b> | 2517       |
| P51589     | Conduit Adapter Kit                  | <b>159 000 476</b> | 515, 2536  |
| P31934     | Conduit Cap                          | <b>159 000 466</b> | 515, 2536  |

## Rotor Kit, Pin, Cable, Conduit Adapter for 525

| MFR #     | description                               | Code               | For Type  |
|-----------|---|--------------------|-----------|
| P52509    | Rotor kit (with stainless pin)            | <b>198 801 501</b> | 525       |
| P52509-2  | Rotor kit (with tungsten carbide pin)     | <b>159 000 480</b> | 525       |
| P52504-1  | Rotor pin, Stainless steel 316 (1 .4401)  | <b>198 801 500</b> | 525       |
| P52504-2  | Rotor pin, Tungsten Carbide               | <b>198 820 023</b> | 525       |
| P52618    | Gasket                                    | <b>159 000 493</b> | 525       |
| P52503    | Bearing, Rulon B (Fluoroloy B®/PTFE)      | <b>198 820 013</b> | 525, 2517 |
| P52527    | Retainers, Stainless steel                | <b>159 000 481</b> | 525, 2540 |
| P52628    | Fitting cap kit (cap and gasket)          | <b>159 000 504</b> | 525       |
| P51589    | Conduit Adapter Kit                       | <b>159 000 476</b> | 515, 2536 |
| 5523-3222 | Cable (per foot) 2 cond. w/shield, 22 AWG | <b>159 000 393</b> | 525       |

## Rotor Kit, O-ring, Cable for 2540 Hot-Tap

| MFR #        | description                     | Code               | For Type   |
|--------------|---------------------------------|--------------------|------------|
| 3-1500.663   | Hot-Tap Install. Tool           | <b>198 820 008</b> | 2517, 2540 |
| 1220-0021    |                                 | <b>198 801 186</b> |            |
| 1224-0021    |                                 | <b>198 820 006</b> |            |
| 1228-0021    |                                 | <b>198 820 007</b> |            |
| 3-2540.320   | Rotor Kit/(old)                 | <b>198 820 040</b> | 2540       |
| 3-2540.321   | Rotor Kit, Tungsten Carbide Pin | <b>159 000 623</b> | 2540       |
| 3-2540.520   | Bearing, Fluoroloy B®/PTFE      | <b>159 000 648</b> | 2540       |
| P52527       | Retainers, Stainless steel      | <b>159 000 481</b> | 525, 2540  |
| 3-2541.260-1 | Standard module                 | <b>159 000 849</b> | 2540       |
| 3-2541.260-2 | Hot-Tap module                  | <b>159 000 850</b> | 2540       |
| P51589       | Conduit Adapter Kit             | <b>159 000 476</b> | 515, 2536  |
| P31934       | Conduit Cap                     | <b>159 000 466</b> | 515, 2536  |

## Spare Parts 515/2536

| MFR #  | description         | Code               | For Type  |
|--------|---------------------|--------------------|-----------|
| P31542 | Sensor Cap, Red     | <b>198 801 630</b> | 515       |
| P31934 | Conduit Cap         | <b>159 000 466</b> | 515, 2536 |
| P51589 | Conduit Adapter Kit | <b>159 000 476</b> | 515, 2536 |
| 3-8051 | Integral Adapter    | <b>159 000 187</b> | 515, 2536 |

# Signet

## Spare Parts for 2100

| MFR #         | description                          | Code               | For Type |
|---------------|--------------------------------------|--------------------|----------|
| 1220-0018     | O-rings FPM (2 required per sensor)  | <b>159 000 019</b> | 2100     |
| 1224-0018     | O-rings EPDM (2 required per sensor) | <b>159 000 020</b> | 2100     |
| 3-2100.390-1L | Turbine Lo F low with F PM O-rings   | <b>159 000 015</b> | 2100     |
| 3-2100.390-1H | Turbine Hi F low with F PM O-rings   | <b>159 000 016</b> | 2100     |
| 3-2100.390-2L | Turbine Lo F low with E PDM O-rings  | <b>159 000 017</b> | 2100     |
| 3-2100.390-2H | Turbine Hi F low with E PDM O-rings  | <b>159 000 018</b> | 2100     |
| 3-2100.390    | Electronics Module with cable        | <b>159 000 014</b> | 2100     |

## Spare Parts for 2000

| MFR #      | description           | Code               | For Type |
|------------|-----------------------|--------------------|----------|
| 3-2000.390 | Replacement rotor kit | <b>159 000 248</b> | 2000     |
| 1220-0029  | Cover O-ring          | <b>198 820 049</b> | 2000     |
| 2450-0620  | Cover screw           | <b>198 820 051</b> | 2000     |

## Spare Parts for 2507

| MFR #        | description | Code               |
|--------------|-------------|--------------------|
| 3-2507.081-2 | 2 mm Insert | <b>198 801 502</b> |
| 3-2507.081-3 | 3 mm Insert | <b>198 801 503</b> |
| 3-2507.081-4 | 4 mm Insert | <b>198 801 558</b> |

## Spare Parts for 2551

| MFR #     | description   | Code               |
|-----------|---|--------------------|
| 3-2551-P0 | PP/316L SS, DN15 to DN100 (½ to 4 in.) pipe             | <b>159 001 211</b> |
| 3-2551-P1 | PP/316L SS, DN125 to DN200 (5 to 8 in.) pipe            | <b>159 001 212</b> |
| 3-2551-W0 | PVDF/316L SS, DN15 to DN100 (½ to 4 in.) pipe           | <b>159 001 234</b> |
| 3-2551-W1 | PVDF/316L SS, DN125 to DN200 (5 to 8 in.) pipe          | <b>159 001 235</b> |
| 3-2551-11 | Magmeter electronics, frequency or digital (S3L) output | <b>159 001 215</b> |
| 3-2551-12 | Magmeter electronics, 4 to 20 mA output                 | <b>159 001 216</b> |
| 1220-0021 |   | <b>198 801 186</b> |
| 1224-0021 |   | <b>198 820 006</b> |
| 1228-0021 |   | <b>198 820 007</b> |
| 3-0250    | USB to Digital (S3L) Configuration/Diagnostic Tool      | <b>159 001 538</b> |

## Spare Parts for 2560

| MFR #     | description     | Code               | For Type |
|-----------|-----------------|--------------------|----------|
| 1500-0101 | Cable Connector | <b>159 000 239</b> | 2560     |

## O-Rings 515/2536

| MFR #     | Description                                | Compatible Instruments | Code               |
|-----------|--|------------------------|--------------------|
| 1220-0021 | O-ring, FPM (2 required per sensor)        | 515, 2536              | <b>198 801 186</b> |
| 1224-0021 | O-ring, EPR (EPDM) (2 required per sensor) | 515, 2536              | <b>198 820 006</b> |
| 1228-0021 | O-ring, FFPM (2 required per sensor)       | 515, 2536              | <b>198 820 007</b> |

## Sensor Plug 515/2536

| MFR #  | description     | Code               | For Type  |
|--------|-----------------|--------------------|-----------|
| P31536 | Sensor Plug, PP | <b>198 840 201</b> | 515, 2536 |

# Signet

## End fittings for 2100

| MFR #     | description                       | Size      | Material | Code               |
|-----------|-----------------------------------|-----------|----------|--------------------|
| 3-2100-31 | Hose barb connector kit           | 1/2"      | PVDF     | <b>159 000 005</b> |
| 3-2100-32 | Hose barb connector kit           | 3/8"      | PVDF     | <b>159 000 006</b> |
| 3-2100-33 | Hose barb connector kit           | 1/4"      | PVDF     | <b>159 000 007</b> |
| 3-2100-34 | Fusion socket connector kit       | DN15 1/2" | PVDF     | <b>159 000 008</b> |
| 3-2100-35 | Butt Fusion/IR connector kit      | DN15 1/2" | PVDF     | <b>159 000 009</b> |
| 3-2100-36 | Metris socket connector kit       | 1/2"      | PVC      | <b>159 000 010</b> |
| 3-2100-37 | SCH 80 socket connector kit       | 1/2"      | PVC      | <b>159 000 011</b> |
| 3-2100-38 | NPT threaded socket connector kit | 1/2"      | PVC      | <b>159 000 012</b> |

## Replacement Cable 22 AWG for Type 2540

| MFR #     | Description                                  | Code               |
|-----------|--|--------------------|
| 5523-0322 | Cable, 3cond. plus shield, 22 AWG, black/red | <b>159 000 761</b> |

## O-Rings and Gaskets

| MFR #     | description                          | Code               | For Type   |
|-----------|--------------------------------------|--------------------|------------|
| 1220-0018 | O-rings FPM (2 required per sensor)  | <b>159 000 019</b> | 2100       |
| 1220-0021 |                                      | <b>198 801 186</b> |            |
| 1220-0029 | Cover O-ring                         | <b>198 820 049</b> | 2000       |
| 1223-0151 | Cap O-ring                           | <b>159 000 236</b> | 7000, 7001 |
| 1220-0121 | O-ring, FPM                          | <b>159 000 852</b> | 2517, 2540 |
| 1224-0018 | O-rings EPDM (2 required per sensor) | <b>159 000 020</b> | 2100       |
| 1224-0021 |                                      | <b>198 820 006</b> |            |
| 1228-0021 |                                      | <b>198 820 007</b> |            |
| P52618    | Gasket                               | <b>159 000 493</b> | 525        |
| 1222-0032 | PTFE Coated O-ring                   | <b>159 000 234</b> | 7000, 7001 |
| 1222-0439 | Gasket, outer cover                  | <b>159 000 235</b> | 2550       |

## Miscellaneous

| MFR #        | description                                     | Code               |
|--------------|---|--------------------|
| 3-0000.393   | Liquid Tight Connector w/ PG13.5 to NPT Adapter | <b>159 000 618</b> |
| 3-1500.663   | Hot-Tap Install. Tool                           | <b>198 820 008</b> |
| 3-8050       | Universal Mount Kit                             | <b>159 000 184</b> |
| 3-8055       | HPV/IVS Retro Kit                               | <b>159 000 629</b> |
| 1203-1121    | Base Seal                                       | <b>198 864 920</b> |
| P31520-1V    | Pipe Adapter Insert, PVDF                       | <b>159 000 460</b> |
| P31520-2P    | Pipe Adapter Insert, PVC                        | <b>159 000 461</b> |
| P31536       | Sensor Plug, PP                                 | <b>198 840 201</b> |
| P31542       | Sensor Cap, Red                                 | <b>198 801 630</b> |
| P31542-2     | Sensor Cap, Yellow                              | <b>198 840 232</b> |
| P31542-3     | Sensor Cap, Blue                                | <b>159 000 464</b> |
| P31671-1     | Pipe Adapter Insert, PVDF 1 .5 in.              | <b>159 000 465</b> |
| P31934       | Conduit Cap                                     | <b>159 000 466</b> |
| 2450-0620    | Cover screw                                     | <b>198 820 051</b> |
| 3-2541.260-1 | Standard module                                 | <b>159 000 849</b> |
| 3-2541.260-2 | Hot-Tap module                                  | <b>159 000 850</b> |
| P52527       | Retainers, Stainless steel                      | <b>159 000 481</b> |
| P52628       | Fitting cap kit (cap and gasket)                | <b>159 000 504</b> |
| 1500-0101    | Cable Connector                                 | <b>159 000 239</b> |
| P51589       | Conduit Adapter Kit                             | <b>159 000 476</b> |
| 5523-0322    |   | <b>159 000 761</b> |
| 5523-3222    | Cable (per foot) 2 cond. w/shield, 22 AWG       | <b>159 000 393</b> |
| 3-2517.567   | Cable, per ft.                                  | <b>159 000 269</b> |
| 6400-0020    | Fuse, Slo-Blo                                   | <b>159 000 647</b> |
| 3-8051       | Integral Adapter                                | <b>159 000 187</b> |

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# Signet

| MFR #        | For Type                     |
|--------------|------------------------------|
| 3-0000.393   | 7000, 7002                   |
| 3-1500.663   | 2517, 2540                   |
| 3-8050       | 8000 series                  |
| 3-8055       | 7000                         |
| 1203-1121    | 7000, 7001                   |
| P31520-1V    | 5 in. to 8 in. pipe fittings |
| P31520-2P    | 5 in. to 8 in. pipe fittings |
| P31536       | 515, 2536                    |
| P31542       | 515                          |
| P31542-2     | 2560                         |
| P31542-3     | 2536                         |
| P31671-1     | 1 .5 in. pipe fittings       |
| P31934       | 515, 2536                    |
| 2450-0620    | 2000                         |
| 3-2541.260-1 | 2540                         |
| 3-2541.260-2 | 2540                         |
| P52527       | 525, 2540                    |
| P52628       | 525                          |
| 1500-0101    | 2560                         |
| P51589       | 515, 2536                    |
| 5523-0322    |                              |
| 5523-3222    | 525                          |
| 3-2517.567   | 2517                         |
| 6400-0020    | 2550                         |
| 3-8051       | 515, 2536                    |

# Signet

## Analytical Sensor Accessories and Replacement Parts

### pH/ORP Electrode Mounting

| MFR #        | description                        | Code               |  |
|--------------|------------------------------------|--------------------|--|
| P31515-0P200 | PVC Pipe Adapter, 1 .25 in. o.d.   | <b>159 000 630</b> |  |
| P31515-0C200 | PVC-C Pipe Adapter, 1 .25 in. o.d. | <b>159 000 631</b> |  |
| P31515-0V200 | PVDF Pipe Adapter, 1 .25 in. o.d.  | <b>159 000 459</b> |  |
| P31542       | Sensor Cap, Red                    | <b>198 801 630</b> |  |
| P31542-2     | Sensor Cap, Yellow                 | <b>198 840 232</b> |  |
| P31542-3     | Sensor Cap, Blue                   | <b>159 000 464</b> |  |

### pH/ORP Miscellaneous

| MFR #     | Description                                | Code               | For Type   |
|-----------|--|--------------------|------------|
| 1220-0021 | O-ring, FPM (2 required per sensor)        | <b>198 801 186</b> |            |
| 1224-0021 | O-ring, EPR (EPDM) (2 required per sensor) | <b>198 820 006</b> |            |
| 1228-0021 | O-ring, FFPM (2 required per sensor)       | <b>198 820 007</b> |            |
| 5523-0624 | Cable, 24 AWG, 6-conductor                 | <b>159 000 636</b> | 2720, 2760 |
| 3-2721    | Preamplifier                               | <b>198 864 610</b> | 5700, 8750 |
| 3864-0001 | Replacement Salt Bridge                    | <b>159 001 007</b> | 2764-2767  |
| 3864-0002 | Replacement Reference                      | <b>159 001 008</b> | 2764-2767  |
| 2120-0015 | PVC-C Adapter,                             | <b>159 001 009</b> | 2764-2767  |
| 2122-0015 | 316 SS (1 .4401) Adapter,                  | <b>159 001 010</b> | 2764-2767  |

### Mounting Saddles for Wet-Tap

| MFR #     | Description | Size                           | For Type | Code               |
|-----------|-------------|--------------------------------|----------|--------------------|
| 2007-0225 | PP Saddle   | 2.5 in. x 1 .5 in. (ASTM, NPT) | 3719     | <b>159 000 812</b> |
| 2007-0230 | PP Saddle   | 3 in. x 1 .5 in. (ASTM, NPT)   | 3719     | <b>159 000 813</b> |
| 2007-0240 | PP Saddle   | 4 in. x 1 .5 in. (ASTM, NPT)   | 3719     | <b>159 000 814</b> |
| 2007-0260 | PP Saddle   | 6 in. x 2 in. (ASTM, NPT)      | 3719     | <b>159 000 815</b> |
| 2007-0280 | PP Saddle   | 8 in. x 2 in. (ASTM, NPT)      | 3719     | <b>159 000 816</b> |
| 2007-0210 | PP Saddle   | 10 in. x 2 in. (ASTM, NPT)     | 3719     | <b>159 000 817</b> |
| 2007-0212 | PP Saddle   | 12 in. x 2 in. (ASTM, NPT)     | 3719     | <b>159 000 818</b> |

### Wet-Tap Replacement Parts

| MFR #      | description    | For Type | Code               |
|------------|----------------|----------|--------------------|
| 1220-0114  | O-ring, FPM    | 3719     | <b>159 000 854</b> |
| 3-3719.390 | Locking Shroud | 3719     | <b>159 000 855</b> |
| 1220-9458  | O-ring, FPM    | 3719     | <b>159 000 927</b> |

### Miscellaneous

| MFR #      | description                                | Code               | For Type         |
|------------|--|--------------------|------------------|
| 3-2842.390 | 2842 Replacement Insulator                 | <b>159 000 925</b> | 2842             |
| 3-2820.392 | 1/2 in. NPT fitting, 316SS                 | <b>198 840 222</b> | 2820-1, 2821-1   |
| 3-2820.390 | 3/4 in. NPT fitting, 316SS                 | <b>198 840 223</b> | 2822-1           |
| 3-2820.391 | Cable (2 Conductors, shield)               | <b>198 840 221</b> | 8058, 8059, 7300 |
| 3-8050-2   | Universal Junction Box with EasyCal        | <b>159 000 754</b> | 2750             |
| 3-8052-2   | 3/4 in. NPT Junction Box with EasyCal      | <b>159 000 756</b> | 2750             |
| 3-8050-1CR | Universal Junction Box with CR Cell Ranges | <b>159 000 889</b> | 2850             |
| 6205-0002  | DIN Rail (1m length)                       | <b>159 000 858</b> | 8058, 8059, 7300 |
| 6205-0003  | End Clips for DIN Rail                     | <b>159 000 859</b> | 8058, 8059, 7300 |
| 5523-0222  | Cable (2 Conductors, shield)               | <b>159 000 392</b> | 8058, 8059, 7300 |

# Signet

## Instrument Accessories and Replacement Parts

### Power Supply, RC Filter, Batteries, Converter

| MFR #      | description                              | For Type | Code               |
|------------|--|----------|--------------------|
| 3-8050.396 | RC Filter Kit                            | 8000     | <b>159 000 617</b> |
| 7400-0010  | Battery                                  | 5100     | <b>198 829 024</b> |
| 7400-0011  | Lithium Repl. Battery                    | 8150     | <b>159 000 935</b> |
| 3-8058-1   | Single input wire-mount with short cable | 8900     | <b>159 000 966</b> |
| 3-8058-2   | Two input DIN rail mount                 | 8900     | <b>159 000 967</b> |

### Liquid Tight Connector Kits

| MFR #        | description            | Code               | For Type        |
|--------------|------------------------|--------------------|-----------------|
| 3-9000.392   | For rear cover (3 pc.) | <b>159 000 368</b> | All instruments |
| 3-9000.392-1 | NPT (1 pc.)            | <b>159 000 839</b> | All instruments |
| 3-9000.392-2 | PG13.5 (1 pc.)         | <b>159 000 841</b> | All instruments |

### Instrument mounting/accessories 5000 Series

| MFR #        | description                 | Code               | For Type                 |
|--------------|-----------------------------|--------------------|--------------------------|
| 3-5000.395   | Splashproof rear cover kit  | <b>198 840 227</b> | 5000 series              |
| 3-5000.399   | 5 x 5 in. adapter plate     | <b>198 840 224</b> | 5000 series              |
| 3-5000.390   | Installation kit            | <b>159 000 323</b> | 5000 series              |
| 3-5000.398   | Protective overlay kit      | <b>159 000 646</b> | 5000 series              |
| 3-5000.397   | Window kit                  | <b>159 000 326</b> | 5000 series              |
| 3-8050.392   | Model 200 retrofit adapter  | <b>159 000 640</b> | 5000 series, 8900        |
| 3-5000.525-1 | Bezel, 5000 Series          | <b>198 840 226</b> | 5000 series              |
| 3-5000.598   | Surface mount bracket       | <b>198 840 225</b> | All instruments          |
| 3-0000.596   | Heavy duty wall mnt bracket | <b>159 000 641</b> | All instruments          |
| 3-5500.390   | Dial kit                    | <b>159 000 347</b> | 5075, 5500, 5600, 5800CR |
| 3-5500.611   | Unit tags                   | <b>198 840 230</b> | 5075, 5500, 5600, 5800CR |
| 3-5090.611   | Unit tags                   | <b>198 840 228</b> | 5090                     |
| 3-5090.390   | Dial kit                    | <b>159 000 334</b> | 5090                     |
| 3-0000.596-1 | Wall mount                  | <b>159 000 892</b> | 5000, 8000 series        |

### Instrument mounting 8000 Series

| MFR #        | description                  | Code               | For Type               |
|--------------|------------------------------|--------------------|------------------------|
| 3-8050       | Universal Mount Kit          | <b>159 000 184</b> | 8000 series            |
| 3-8050-1     | Universal Mount Junction Box | <b>159 000 753</b> | 8000 series            |
| 3-8050.395   | Splashproof rear cover       | <b>159 000 186</b> | 8000 series            |
| 3-8050.396   | RC Filter Kit                | <b>159 000 617</b> |                        |
| 3-0000.596-2 | Wall mount                   | <b>159 000 893</b> | 8860, 8900             |
| 3-8052       | 3/4 in. Integral Mount Kit   | <b>159 000 188</b> | 8150, 8350, 8450, 8850 |
| 3-8052-1     | 3/4 in. Junction Box         | <b>159 000 755</b> | 8150, 8350, 8450, 8850 |
| 3-0000.596-1 | Wall mount                   | <b>159 000 892</b> | 5000, 8000 series      |

# Signet

## Turbidimeter Accessories and Replacement Parts

### Spare Parts for 4150

| MFR #      | Description   | Code               |  |
|------------|---|--------------------|--|
| 3822-4001  | Calibration kit, Turbidity, 100, 10 & 0.02 NTU/FNU  | <b>159 001 585</b> |  |
| 3822-4003  | Calibration kit, Turbidity, 1000, 10 & 0.02 NTU/FNU | <b>159 001 586</b> |  |
| 3-4150.380 | Replacement Desiccant                               | <b>159 001 588</b> |  |
| 3822-4002  | Formazin Stock Kit                                  | <b>159 001 591</b> |  |
| 3822-4000  | Formazin Stock Solution, 4000 NTU/FNU, 500 ml       | <b>159 001 592</b> |  |
| 4150-0007  | Replacement Cuvette Set (3 glass cuvettes)          | <b>159 001 602</b> |  |
| 4150-0004  | Replacement Cuvette with Ultrasonic Transducer      | <b>159 001 589</b> |  |
| 3-4150.386 | O-ring for cuvette                                  | <b>159 001 652</b> |  |

# Signet

## Miscellaneous Accessories

### 3-0250 Blind Sensor Configuration / Diagnostic Tool



**Signet Other:**

- User-Friendly Interface
- Monitor mV readings in pH/ORP sensors
- Configure all blind sensors
- Monitor sensor data or log sensor data to a file
- Multi-Language software

| MFR #  | Code        |  |
|--------|-------------|--|
| 3-0250 | 159 001 538 |  |



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| 159 000 022 | 474  | 159 000 193 | 477  | 159 000 584 | 497  |
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| 159 000 049 | 472  | 159 000 236 | 500  | 159 000 624 | 442  |
| 159 000 050 | 472  | 159 000 239 | 499  | 159 000 625 | 442  |
| 159 000 051 | 472  | 159 000 248 | 499  | 159 000 626 | 443  |
| 159 000 052 | 472  | 159 000 269 | 498  | 159 000 627 | 443  |
| 159 000 053 | 456  | 159 000 272 | 497  | 159 000 628 | 487  |
| 159 000 054 | 456  | 159 000 273 | 497  | 159 000 629 | 500  |
| 159 000 055 | 456  | 159 000 323 | 503  | 159 000 630 | 502  |
| 159 000 056 | 456  | 159 000 326 | 503  | 159 000 631 | 502  |
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# General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

## 1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser. They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

## 2 Tenders

- Tenders shall only be binding if they contain a specifically stated period for acceptance.

## 3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

## 4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

## 5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

## 6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

## 7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import duties etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

## 8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still out-standing provided that the Products already delivered are not rendered unusable as a result.

## 9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

## 10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
  - a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
  - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.  
Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.  
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
  - c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.  
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to liquidated damages in the amount of 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage.

## 11 Packing

- If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

## 12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

## 13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.  
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

## 14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

## 15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workman-ship or from faulty operating or installation instructions.  
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via [www.piping.georgfischer.com](http://www.piping.georgfischer.com). Replaced parts shall become property of Georg Fischer.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
  - Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object as well as, in case of negligence, all other direct damages caused by the defective Product (damage to property and injury to or death of persons) up to CHF 1 000 000 per occurrence.
  - the statute of limitations for warranty or damage claims - contrary to Section 15.6 - will be 5 years from the date of installation.

## 16 Limitation of Liability

- All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability statutes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations.

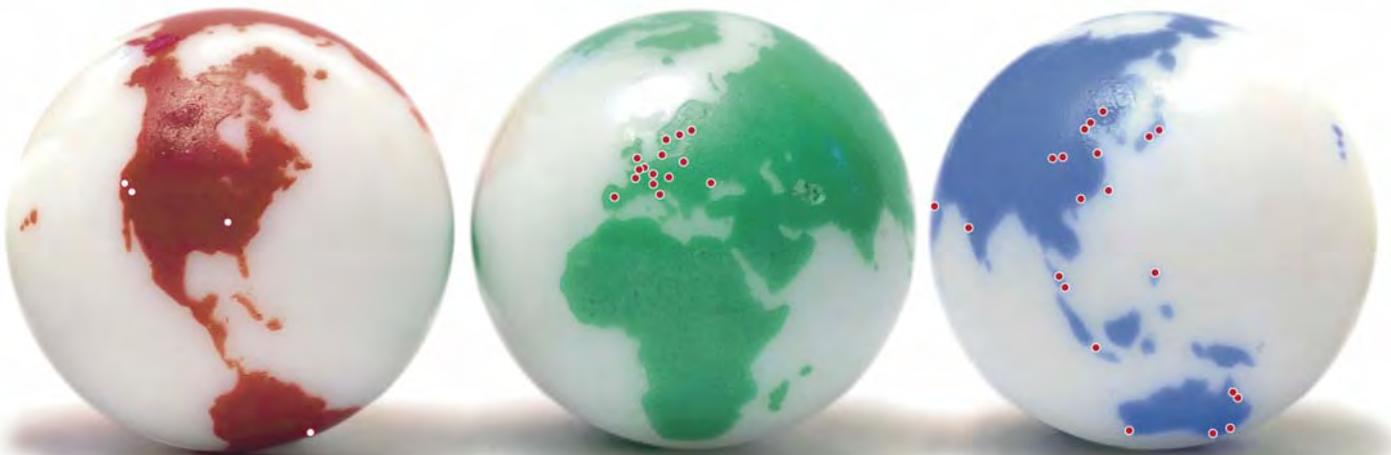
## 17 Severability

- Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

## 18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.  
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.
- 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

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SCINT 8275\_4a (02.10)

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8201 Schaffhausen/Switzerland, 2006  
Printed in Switzerland

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