GF Piping Systems

+GF+

Marine

Product Range 2015



Application Environment

Offshore with Piping Systems from GF

Offshore drilling rigs are exposed to the forces of nature day and night. Wind, rain and saltwater can be very harsh on structures, housing and supply lines. The pipelines for hot and cold water, effluent and greywater, rain catchment and chemical distribution are particularly affected, internally and externally, by corrosion as well as incrustation. The solutions from GF Piping Systems warrants the safe conveyance of drinking water and other process fluids – without altering their quality in the least.



+ Applications for offshore


Hot and Cold, Fresh Water


Grey and BlackWater


Ballast Water Treatment


Ballast Water


Sea and Fresh Water Cooling


Water Tank Venting


AC Cooling


Drain Deck


Compressed Air


Water Treatment

Application Environment

Shipbuilding with Piping Systems from GF

Ships are not only floating cities but are also essential for the worlds economy. Preventing corrosion is more important here than anywhere else. With GF Piping Systems, corrosion is no longer an issue. Cost-effective and high-quality, plastics are your right choice. We will help you increase production by reducing maintenance time and overall operational cost.

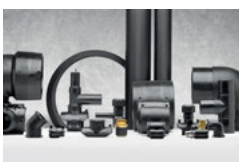


+ Applications for Merchant Fleet


Water Tank Venting


Grey and BlackWater


Ballast Water Treatment


Ballast Water


Hot and Cold, Fresh Water


AC Cooling


Gas Scrubber


Sea and Fresh Water Cooling


Compressed Air


Water Treatment

GF Piping Systems for Marine Applications

GF Piping Systems used in marine applications

Material / Application	SeaCor™	Sea Drain™ Plus	UPVC	CPVC	COOL-FIT ABS	eco FIT	PROGEF PP-H	AQUASYSTEM™ PP-R	INSTAFLEX™ PB	iFIT™ PB/ML	SeaDrain™ PPFR	SANIPEX MT
Hot Water	■			■				■	■	■		■
Cold Water	■		■	■		■	■	■	■	■		■
Compressed Air						■			■			■
Black Water	■	■	■	■		■					■	
Grey Water	■	■	■	■		■					■	
Water Treatment	■		■	■		■	■					
Desalination	■		■	■			■		■			
Reverse Osmosis	■	■	■				■		■			
Air Conditioning Lines					■	■		■	■	■		■
Refrierated Water Below 0°C					■	■						
Sea and Freshwater Cooling	■					■						
Ballast Water Treatment	■		■	■		■	■					
AWP Systems		■				■	■				■	
Ventilation Lines	■	■		■		■	■				■	
Heating							■		■	■		
Condensation and/or Recirculation Lines					■	■		■	■	■	■	■
Deck Drain		■				■					■	

Your benefits at a glance

- **Low pressure drop**
- **Light weight**
- **Long service life**
- **Economical upkeep**
- **Fast installation**
- **Less noise emission**
- **Global availability**
- **Environmental friendly**

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.

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

	Classification Society									
Material System	GL	LR	BV	RINA	ABS	DNV	CCS	RMRS	NK	USCG
ABS	•	•	•	•	•	•		•	•	
PVC-C	•	•	•	•	•	•	•	•	•	
PVC-U	•	•	•	•	•	•	•	•	•	
ecoFIT	•	•	•	•	•	•	•	•	•	
PP-H		•	•	•		•			•	
INSTAFLEX	•	•	•	•	•	•	•	•	•	
AQUASYSTEM	•	•	•	•	•	•				
iFIT	•	•	•	•	•	•		•	•	
Sanipex MT	•	•	•	•		•				
Sea Drain	•	•		•	•	•		•		
SeaCor					•					•
Sea Drain Plus					•					•

Cooling systems. For indirect cooling goes below 0 °C, plastics which can withstand these temperatures are required. This is where ABS and ecoFIT show their strengths because they can be used down to –50 °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, AQUASYSTEM (PP-R) and SANIPEX MT. All systems are resistant to hot water and chlorine desinfection. 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 ecoFIT, 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, ecoFIT 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. ecoFIT is ideal for such applications. It is on offer in the dimension range 20–630 mm, 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.

Ships and platform are also essential for the worlds 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 profitBesides, 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. 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 you have any questions regarding application and location when using plastic piping systems in classed vessels.

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

	Diameter			
kg	d25	d50	d110	d160
Plastic	16	53	248	550
Carbon steel	119	233	737	1093
Stainless steel	79	197	505	1542
Copper	59	292	737	-
Savings plastic to steel	**103**	**239**	**489**	**992**

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INSTAFLEX

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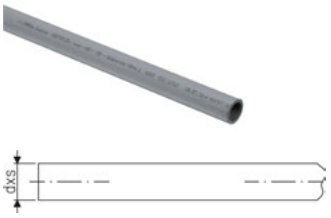
Pipes and Accessories



PB pipe (coiled)

Packed in cardboard boxes
Packed in protective wrap
* on request

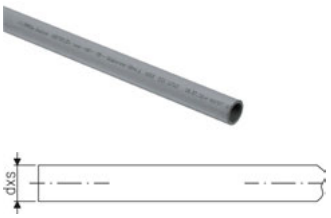
d [mm]	s [mm]	Code	Weight [kg]
16	2	**760 853 389**	0.100
16	2	**760 856 624**	0.100
20	3	**760 853 390**	0.150
25	2	**760 854 946**	0.165



Pipe PB 3 m (bars)

Packed in cardboard boxes

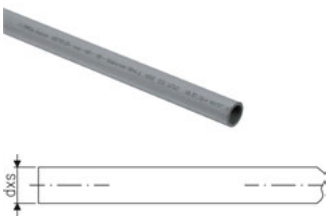
d [mm]	s [mm]	Code	Weight [kg]
25	2	**760 854 964**	0.165
32	3	**760 854 965**	0.270
40	4	**760 854 966**	0.416
50	5	**760 854 967**	0.645
63	6	**760 854 968**	1.020
75	7	**760 856 620**	1.440
90	8	**760 856 621**	2.060
110	10	**760 856 622**	3.050



PB pipe 5,8 m (bars)

Packed in cardboard boxes / PN 16

d [mm]	s [mm]	Code	Weight [kg]
16	2.20	**760 856 606**	0.097
20	2.80	**760 856 607**	0.151
25	2.30	**760 856 608**	0.165
32	2.90	**760 856 609**	0.270
40	3.70	**760 856 610**	0.416
50	4.60	**760 856 611**	0.645
63	5.80	**760 856 612**	1.020
75	6.80	**760 856 613**	1.440
90	8.20	**760 856 614**	2.060
110	10.00	**760 856 615**	3.050

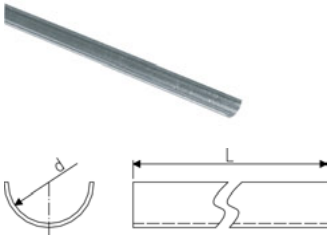


PB pipe 5,8 m (bars)

Packed in PE-Bag / PN 16

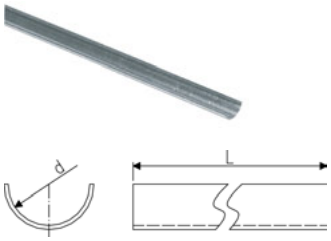
d [mm]	s [mm]	Code	Weight [kg]	Length [m]
125	11	**761 065 290**	3.950	6
160	15	**761 065 291**	6.460	6
225	21	**761 065 292**	12.700	6

Clip pipe support tray



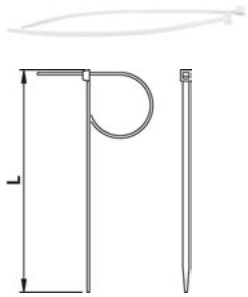
d [mm]	Code	Weight [kg]	L [mm]
16	**760 856 602**	0.550	3000
20	**760 856 603**	0.680	3000
25	**760 856 604**	0.844	3000
32	**760 856 605**	1.073	3000

Pipe support tray



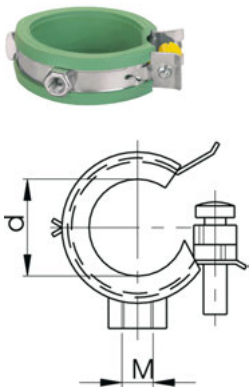
d [mm]	Code	Weight [kg]	L [mm]
40	**760 854 928**	1.335	3000
50	**760 854 929**	1.662	3000
63	**760 854 930**	0.570	3000
75	**760 854 985**	2.480	3000

Pipe binder



d-d [mm]	Code	Weight [kg]	L [mm]
16 - 40	**760 853 283**	0.001	200
50 - 75	**760 853 284**	0.001	300
90 - 110	**760 854 984**	0.003	430

Pipe clamp



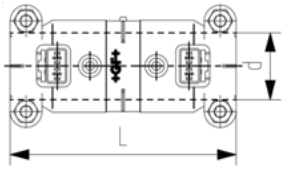
d [mm]	Code	Weight [kg]	M [mm]
16	**761 066 296**	0.039	8
20	**761 066 297**	0.045	8
25	**761 066 298**	0.053	8
32	**761 066 299**	0.046	8
40	**761 066 300**	0.071	8
50	**761 066 301**	0.087	8
63	**761 066 302**	0.134	8
75	**761 066 303**	0.135	8
90	**761 066 304**	0.156	10
110	**761 066 305**	0.228	10

Fittings for Electrofusion Jointing

Fittings for electrofusion jointing

Electrofusion coupler



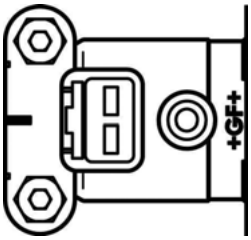


Suitable as sliding coupling

d [mm]	Code	Weight [kg]	L [mm]
16	**761 069 200**	0.023	76
20	**761 069 201**	0.027	80
25	**761 069 202**	0.041	85
32	**761 069 203**	0.053	85
40	**761 069 204**	0.084	95
50	**761 069 205**	0.121	99
63	**761 069 206**	0.184	102
75	**761 069 265**	0.317	134
90	**761 069 266**	0.519	147
110	**761 069 267**	0.766	160

Bracket clamp



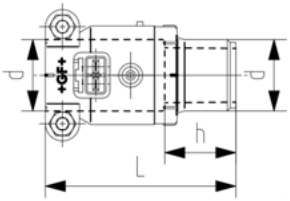


on request

d [mm]	Code	Weight [kg]
16	**761 069 490**	0.016
20	**761 069 491**	0.018
25	**761 069 492**	0.023
32	**761 069 493**	0.030
40	**761 069 494**	0.050
50	**761 069 495**	0.073
63	**761 069 496**	0.102
75	**761 069 497**	0.166
90	**761 069 498**	0.244
110	**761 069 499**	0.380

Electrofusion adaptor



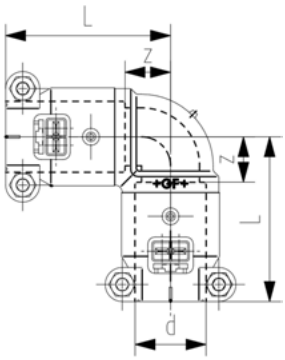


Transition to socket fusion - HMS

d [mm]	Code	Weight [kg]	L [mm]	h [mm]
16	**761 069 207**	0.026	60	23
20	**761 069 208**	0.017	61	22
25	**761 069 209**	0.026	67	25
32	**761 069 210**	0.037	71	29
40	**761 069 211**	0.060	79	32
50	**761 069 212**	0.095	85	36
63	**761 069 213**	0.151	94	43

Electrofusion elbow 90°

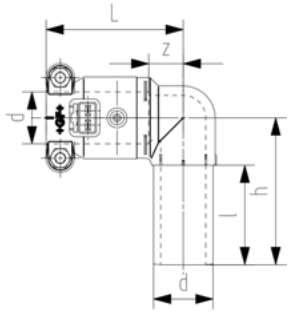




d [mm]	Code	Weight [kg]	L [mm]	z [mm]
16	**761 069 214**	0.023	47	10
20	**761 069 215**	0.027	54	14
25	**761 069 216**	0.039	58	16
32	**761 069 217**	0.079	60	18
40	**761 069 218**	0.128	69	22
50	**761 069 219**	0.206	78	29
63	**761 069 220**	0.328	86	36
75	**761 069 221**	0.515	112	45
90	**761 069 222**	0.811	127	54
110	**761 069 223**	1.330	146	66

Elbow 90° socket-spigot

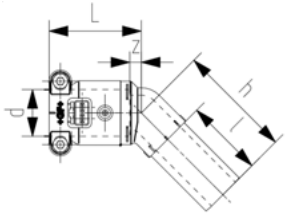




d [mm]	Code	Weight [kg]	L [mm]	l [mm]	h [mm]	z [mm]
16	**761 069 434**	0.025	47	40	53	10
20	**761 069 435**	0.035	54	40	58	14
25	**761 069 436**	0.047	58	42	62	16
32	**761 069 437**	0.071	60	42	66	18
40	**761 069 438**	0.113	69	47	77	22
50	**761 069 439**	0.181	78	49	85	29
63	**761 069 440**	0.290	86	51	96	36

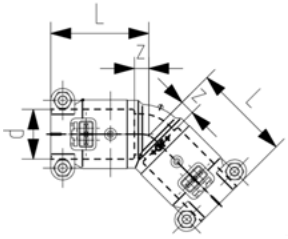
Elbow 45° socket-spigot





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





Electrofusion elbow 45°

d [mm]	Code	Weight [kg]	L [mm]	z [mm]
16	**761 069 227**	0.033	44	6
20	**761 069 228**	0.027	46	7
25	**761 069 229**	0.039	50	8
32	**761 069 230**	0.059	51	9
40	**761 069 231**	0.070	58	11
50	**761 069 232**	0.147	63	14
63	**761 069 233**	0.275	68	17
75	**761 069 234**	0.451	88	21
90	**761 069 235**	0.700	98	25
110	**761 069 236**	1.098	111	31

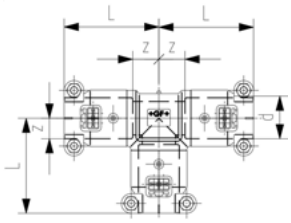


Elbow 15°

on request

d [mm]	Code	Weight [kg]	L [mm]	h [mm]
63	**761 069 589**	0.306	1	1
75	**761 069 590**	0.576	1	1
90	**761 069 591**	0.824	1	1
110	**761 069 592**	1.340	1	1



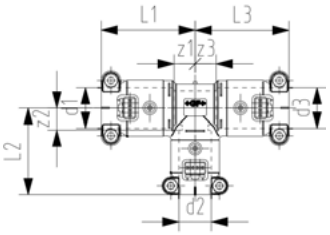


Electrofusion T-piece 90°- equal

d [mm]	Code	Weight [kg]	L [mm]	z [mm]
16	**761 069 237**	0.053	47	10
20	**761 069 238**	0.067	54	14
25	**761 069 239**	0.089	58	16
32	**761 069 240**	0.116	60	18
40	**761 069 241**	0.185	69	22
50	**761 069 242**	0.290	78	29
63	**761 069 243**	0.452	86	36
75	**761 069 244**	0.747	112	45
90	**761 069 245**	0.890	127	54
110	**761 069 246**	1.884	146	66

Electrofusion T-piece 90°- reducer

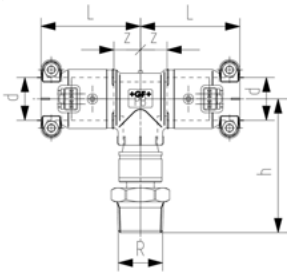




d1 [mm]	d2 [mm]	d3 [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	L3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
20	16	16	**761 069 249**	0.058	54	47	47	14	10	10
20	16	20	**761 069 250**	0.041	54	49	54	14	11	14
25	16	25	**761 069 251**	0.082	58	54	58	16	16	16
25	20	20	**761 069 256**	0.079	58	54	54	16	14	14
25	20	25	**761 069 252**	0.079	58	54	58	16	14	16
25	25	20	**761 069 257**	0.081	58	58	54	16	16	14
32	20	32	**761 069 253**	0.088	60	58	60	18	18	18
32	25	25	**761 069 258**	0.098	60	58	58	18	16	16
32	25	32	**761 069 254**	0.095	60	58	60	18	16	18
40	20	40	**761 069 259**	0.157	69	63	69	22	23	22
40	25	40	**761 069 255**	0.115	69	63	69	22	21	22
40	32	40	**761 069 260**	0.168	69	63	69	22	21	22
50	25	50	**761 069 261**	0.246	78	72	78	29	30	29
50	32	50	**761 069 262**	0.360	78	72	78	29	30	29
63	25	63	**761 069 263**	0.360	86	81	86	36	39	36
63	40	63	**761 069 264**	0.384	86	85	86	36	38	36

Electrofusion adaptor T-piece 90° - male thread

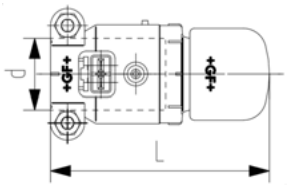




d [mm]	R [inch]	Code	Weight [kg]	L [mm]	h [mm]	z [mm]
25	¾	**761 069 430**	0.173	58	78	15
32	1	**761 069 431**	0.254	60	86	17

Electrofusion - end cap

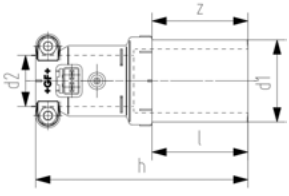




d [mm]	Code	Weight [kg]	L [mm]
16	**761 069 270**	0.022	67
20	**761 069 271**	0.025	70
25	**761 069 272**	0.036	77
32	**761 069 273**	0.054	83
40	**761 069 274**	0.095	95
50	**761 069 275**	0.153	104
63	**761 069 276**	0.265	116

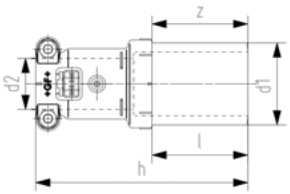
Electrofusion-reducer





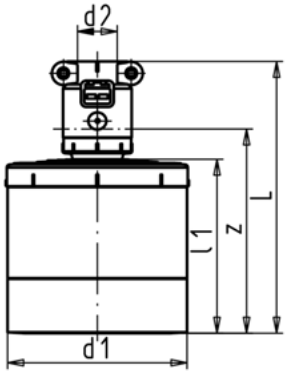
d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]	h [mm]	z [mm]
20	16	**761 069 277**	0.023	40	83	45
25	16	**761 069 278**	0.026	42	83	46
25	20	**761 069 279**	0.026	42	86	47
32	16	**761 069 457**	0.033	42	86	48
32	20	**761 069 280**	0.030	42	84	45
32	25	**761 069 281**	0.038	42	89	47
40	20	**761 069 458**	0.055	47	102	62
40	25	**761 069 459**	0.060	47	104	62
40	32	**761 069 282**	0.060	47	95	53

table continued next page



d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]	h [mm]	z [mm]
50	20	**761 069 460**	0.070	49	102	62
50	25	**761 069 461**	0.075	49	104	62
50	32	**761 069 462**	0.075	49	95	53
50	40	**761 069 283**	0.091	49	103	56
63	20	**761 069 463**	0.096	51	102	62
63	25	**761 069 464**	0.109	51	104	62
63	32	**761 069 284**	0.101	51	95	53
63	40	**761 069 465**	0.121	51	103	56
63	50	**761 069 285**	0.141	51	106	57
75	63	**761 069 286**	0.232	67	129	78
90	63	**761 069 287**	0.289	74	128	77
90	75	**761 069 288**	0.354	74	143	76
110	63	**761 069 289**	0.414	80	135	84
110	75	**761 069 290**	0.464	80	150	83
110	90	**761 069 291**	0.576	80	165	92





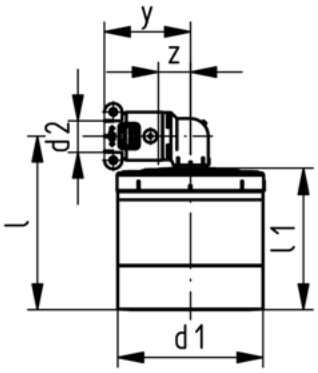
Electrofusion special reducer with adaptor

* on request

	d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]	l1 [mm]	z [mm]
*	75	16	**761 069 604**	0.212	134	88	97
*	75	20	**761 069 605**	0.216	134	88	95
*	75	25	**761 069 606**	0.221	137	88	95
*	75	32	**761 069 607**	0.237	139	88	97
*	75	40	**761 069 608**	0.254	145	88	98
*	75	50	**761 069 609**	0.270	148	88	99
*	90	16	**761 069 610**	0.254	133	87	96
*	90	20	**761 069 611**	0.265	133	87	94
*	90	25	**761 069 612**	0.267	136	87	94
*	90	32	**761 069 613**	0.277	138	87	96
*	90	40	**761 069 614**	0.297	144	87	97
*	90	50	**761 069 615**	0.322	147	87	98
*	110	16	**761 069 518**	0.405	140	94	103
*	110	20	**761 069 519**	0.405	140	94	101
*	110	25	**761 069 520**	0.414	143	94	101
*	110	32	**761 069 521**	0.433	145	94	103
*	110	40	**761 069 522**	0.461	151	94	104
*	110	50	**761 069 523**	0.469	154	94	105

Electrofusion special reducer with transition on elbow



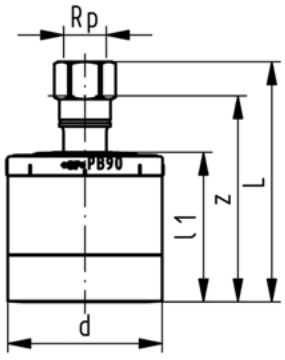


* Additional diameter on request

	d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]	l1 [mm]	z [mm]	y [mm]
*	75	20	**761 069 619**	0.228	109	88	14	54
*	75	25	**761 069 524**	0.235	111	88	16	58
*	75	32	**761 069 525**	0.249	115	88	18	60
*	75	40	**761 069 526**	0.300	121	88	22	96
*	75	50	**761 069 527**	0.326	127	88	29	78
*	90	20	**761 069 620**	0.273	108	87	14	54
	90	25	**761 069 528**	0.283	110	87	16	58
*	90	32	**761 069 529**	0.300	114	87	18	60
*	90	40	**761 069 530**	0.350	120	87	22	69
*	90	50	**761 069 531**	0.415	126	87	29	78
*	110	20	**761 069 621**	0.423	115	94	14	54
*	110	25	**761 069 532**	0.435	117	94	16	58
*	110	32	**761 069 533**	0.453	121	94	18	60
*	110	40	**761 069 534**	0.500	127	94	22	69
*	110	50	**761 069 535**	0.565	183	94	29	78

Special reducer - female thread



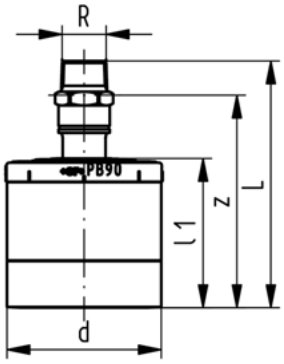


* on request

	d-d [mm]	Rp [inch]	Code	Weight [kg]	l [mm]	l1 [mm]	z [mm]
*	75 - 20	½	**761 069 577**	0.281	144	88	129
*	75 - 25	¾	**761 069 578**	0.326	145	88	125
*	75 - 32	1	**761 069 596**	0.383	149	88	124
*	90 - 20	½	**761 069 579**	0.344	143	87	128
*	90 - 25	¾	**761 069 580**	0.396	144	87	124
*	90 - 32	1	**761 069 597**	0.445	148	87	123
*	110 - 20	½	**761 069 581**	0.484	152	94	137
*	110 - 25	¾	**761 069 582**	0.529	156	94	136
*	110 - 32	1	**761 069 598**	0.585	158	94	133

Special reducer - male thread



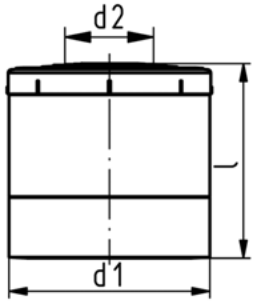


* on request

	d-d [mm]	R [inch]	Code	Weight [kg]	l [mm]	l1 [mm]	z [mm]
*	75 - 20	½	**761 069 583**	0.278	146	88	131
*	75 - 25	¾	**761 069 584**	0.316	150	88	130
*	75 - 32	1	**761 069 593**	0.363	152	88	127
*	90 - 20	½	**761 069 585**	0.328	145	87	130
*	90 - 25	¾	**761 069 586**	0.354	149	87	129
*	90 - 32	1	**761 069 594**	0.416	151	87	126
*	110 - 20	½	**761 069 587**	0.480	150	94	135
*	110 - 25	¾	**761 069 588**	0.513	151	94	131
*	110 - 32	1	**761 069 595**	0.585	155	94	130

Special reducer - predrilled





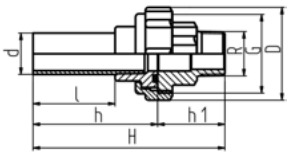
Drilled hole d16 to d50
* on request

	d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]
*	75	16	**761 069 500**	0.193	88
*	75	20	**761 069 501**	0.214	88
*	75	25	**761 069 502**	0.200	88
*	75	32	**761 069 503**	0.182	88
*	75	40	**761 069 504**	0.175	88
*	75	50	**761 069 505**	0.161	88
*	90	16	**761 069 506**	0.254	87
*	90	20	**761 069 507**	0.242	87
*	90	25	**761 069 508**	0.240	87
*	90	32	**761 069 509**	0.236	87
*	90	40	**761 069 510**	0.226	87
*	90	50	**761 069 511**	0.213	87
*	110	16	**761 069 512**	0.400	94
*	110	20	**761 069 513**	0.387	94
*	110	25	**761 069 514**	0.373	94
*	110	32	**761 069 515**	0.376	94
*	110	40	**761 069 516**	0.372	94
*	110	50	**761 069 517**	0.357	94

Unions

Adaptor union



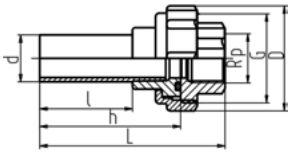


Spigot for electrofusion and socket fusion - male thread
Including EPDM O-Ring, quality suitable for potable water

d [mm]	R [inch]	Code	Weight [kg]	D [mm]	H [mm]	G [inch]	h [mm]	h1 [mm]	l [mm]
16	½	**761 069 400**	0.221	41	106	1	68	38	45
20	½	**761 069 401**	0.232	46	110	1 ¼	70	40	47
25	¾	**761 069 402**	0.340	52	117	1 ½	76	41	50
32	1	**761 069 403**	0.489	64	123	2	78	45	50
40	1 ¼	**761 069 404**	0.673	79	136	2 ½	88	48	56
50	1 ½	**761 069 405**	0.783	85	141	2 ¾	93	48	58
63	2	**761 069 406**	1.100	104	152	3 ½	98	54	60

Adaptor union



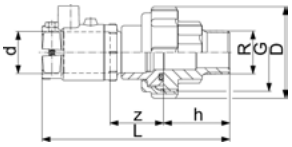


Spigot for electrofusion and socket fusion - female thread
Including EPDM O-Ring, quality suitable for potable water

d [mm]	Rp [inch]	Code	Weight [kg]	D [mm]	L [mm]	G [inch]	l [mm]	h [mm]	z [mm]
16	½	**761 069 407**	0.171	41	90	1	45	68	9
20	½	**761 069 408**	0.225	46	94	1 ¼	47	70	10
25	¾	**761 069 409**	0.274	52	100	1 ½	50	76	9
32	1	**761 069 410**	0.391	64	103	2	50	78	8
40	1 ¼	**761 069 411**	0.620	79	114	2 ½	56	88	7
50	1 ½	**761 069 412**	0.678	85	119	2 ¾	58	93	7
63	2	**761 069 413**	1.036	104	126	3 ½	60	98	5

Electrofusion adaptor union



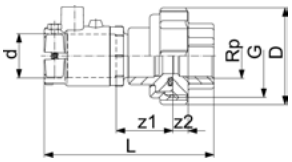


Including EPDM O-Ring, quality suitable for potable water

d [mm]	R [inch]	Code	Weight [kg]	D [mm]	L [mm]	G [inch]	h [mm]	z [mm]
16	½	**761 069 475**	0.236	41	106	1	38	31
20	½	**761 069 476**	0.248	50	109	1 ¼	40	30
25	¾	**761 069 477**	0.331	56	116	1 ½	41	33
32	1	**761 069 478**	0.476	69	124	2	45	37
40	1 ¼	**761 069 479**	0.728	83	137	2 ½	48	42
50	1 ½	**761 069 480**	0.842	90	143	2 ¾	48	46
63	2	**761 069 481**	1.196	110	158	3 ½	54	53

Electrofusion adaptor union





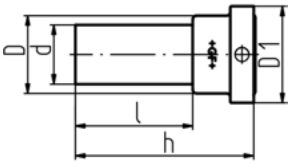
Including EPDM O-Ring, quality suitable for potable water

d [mm]	Rp [inch]	Code	Weight [kg]	D [mm]	L [mm]	G [inch]	z1 [mm]	z2 [mm]
16	½	**761 069 482**	0.185	41	90	1	31	9
20	½	**761 069 483**	0.250	50	93	1 ¼	30	10
25	¾	**761 069 484**	0.298	56	99	1 ½	33	9
32	1	**761 069 485**	0.425	69	104	2	37	8
40	1 ¼	**761 069 486**	0.686	83	115	2 ½	42	7
50	1 ½	**761 069 487**	0.738	90	121	2 ¾	46	7
63	2	**761 069 488**	1.133	110	132	3 ½	53	5

Flange connections

Flange adaptor flat with groove and spigots for electrofusion



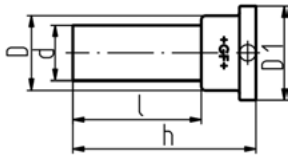


Suitable for flange or union nut
Including EPDM O-Ring, quality suitable for potable water
* on request

	d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	l [mm]	h [mm]
*	16	**761 069 306**	0.011	22	29	45	68
*	20	**761 069 307**	0.018	27	34	47	70
*	25	**761 069 308**	0.023	33	41	50	76
*	32	**761 069 309**	0.039	41	50	50	78
*	40	**761 069 310**	0.061	50	61	56	88
*	50	**761 069 311**	0.096	61	73	58	93
*	63	**761 069 312**	0.168	76	90	60	98
*	75	**761 069 313**	0.343	90	106	118	158
*	90	**761 069 314**	0.515	109	125	125	172
*	110	**761 069 315**	0.840	131	150	131	186

Flange adaptor flat with spigot for electrofusion





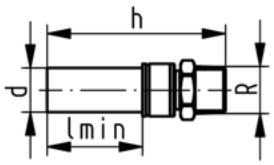
Suitable for flange or union nut
* on request

	d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	l [mm]	h [mm]
*	20	**761 069 321**	0.017	27	34	45	67
*	25	**761 069 322**	0.021	33	41	50	73
*	32	**761 069 323**	0.034	41	50	50	75
*	40	**761 069 324**	0.066	50	61	56	83
*	50	**761 069 325**	0.091	61	73	58	88
	63	**761 069 326**	0.172	76	90	60	93
	75	**761 069 327**	0.311	90	106	118	153
	90	**761 069 328**	0.469	109	125	125	167
	110	**761 069 329**	0.770	131	150	131	180

Adaptor on thread and valves

Adaptor - male thread

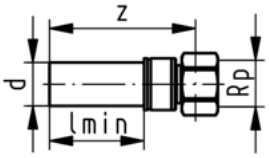




Spigot for electrofusion and socket fusion - male thread
SF = socket fusionELF = electrofusion
* on request

	d [mm]	R [inch]	Code	Weight [kg]	L min. ELF [mm]	L min. SF [mm]	h [mm]
	16	½	**761 069 385**	0.083	47	30	91
	20	½	**761 069 386**	0.093	49	30	93
	20	¾	**761 069 387**	0.112	49	30	96
	25	¾	**761 069 388**	0.134	55	33	103
*	25	¾	**761 069 399**	0.347	55	33	600
	25	1	**761 069 389**	0.174	55	33	105
	32	1	**761 069 390**	0.210	55	35	105
	40	1 ¼	**761 069 391**	0.408	50	27	145
	50	1 ½	**761 069 392**	0.554	52	30	158
	63	2	**761 069 393**	0.926	54	33	173



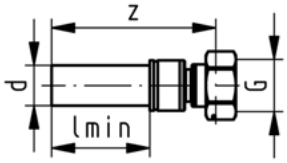


Adaptor - female thread

Spigot for electrofusion and socket fusion - female thread
SF = socket fusionELF = electrofusion

d [mm]	Rp [inch]	Code	Weight [kg]	L min. SF [mm]	L min. ELF [mm]	z [mm]
16	½	**761 069 360**	0.117	30	47	75
20	½	**761 069 361**	0.095	30	49	77
20	¾	**761 069 362**	0.137	30	49	78
25	¾	**761 069 363**	0.147	33	55	83
25	1	**761 069 364**	0.188	33	55	85
32	1	**761 069 365**	0.206	35	55	85
40	1 ¼	**761 069 366**	0.417	27	50	118
50	1 ½	**761 069 367**	0.543	30	52	124
63	2	**761 069 368**	0.848	33	55	133



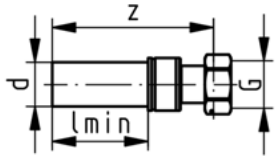


Adaptor loose union nut - flat seal

Spigot for electrofusion and socket fusion - female thread
Including flat seal EPDM
SF = socket fusionELF = electrofusion

d [mm]	G [inch]	Code	Weight [kg]	L min. ELF [mm]	L min. SF [mm]	z [mm]
16	¾	**761 069 370**	0.092	47	30	78
20	¾	**761 069 369**	0.116	49	30	88
20	1	**761 069 371**	0.155	49	30	82
25	¾	**761 069 372**	0.145	55	33	95
25	1	**761 069 373**	0.232	55	33	99
25	1 ¼	**761 069 374**	0.233	55	33	89
32	1	**761 069 375**	0.249	55	35	99
32	1 ¼	**761 069 377**	0.255	55	35	100
32	1 ½	**761 069 376**	0.282	55	35	89
40	1 ¼	**761 069 378**	0.515	50	27	138
40	1 ½	**761 069 379**	0.595	50	27	138
40	2	**761 069 381**	0.744	50	27	140
50	1 ¾	**761 069 384**	0.785	53	30	147
50	2 ¼	**761 069 383**	0.752	53	30	126
63	2 ⅜	**761 069 394**	1.272	53	33	158
63	2 ¾	**761 069 395**	1.087	54	33	135



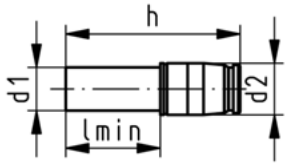


Adaptor loose union nut - flat seal - centering

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

d [mm]	G [inch]	Code	Weight [kg]	L min. ELF [mm]	L min. SF [mm]	z [mm]
16	½	**761 069 380**	0.085	47	30	83
20	¾	**761 069 382**	0.125	49	30	85





iFIT-INSTAFLEX transition module

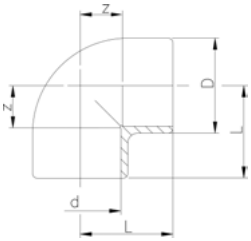
d1 [mm]	d2 [mm]	Code	Weight [kg]	h [mm]	L min. ELF [mm]	L min. SF [mm]
16	16 - 20	**762 101 057**	0.059	84	46	30
20	16 - 20	**762 101 058**	0.068	86	48	30
25	16 - 20	**762 101 067**	0.091	94	56	33
25	25 - 32	**762 101 059**	0.143	101	56	33
32	25 - 32	**762 101 060**	0.176	101	56	35

Fittings for Socket Fusion Jointing

Fittings for socket fusion jointing

Elbow 90°

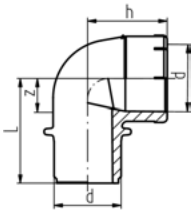




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	**761 066 600**	0.014	22	25	10
20	**761 066 601**	0.015	26	28	13
25	**761 066 602**	0.020	32	32	14
32	**761 066 603**	0.035	40	38	18
40	**761 066 604**	0.080	51	44	22
50	**761 066 605**	0.116	64	51	26
63	**761 066 606**	0.200	81	62	34
75	**761 066 607**	0.303	91	75	44
90	**761 066 608**	0.466	108	88	52
110	**761 066 609**	0.856	132	105	63

Elbow 90° - socket spigot

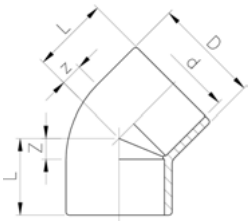




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	h [mm]	z [mm]
16	**761 066 900**	0.009	22	34	25	10
20	**761 066 901**	0.012	26	36	28	13
25	**761 066 902**	0.021	32	44	32	14
32	**761 066 903**	0.037	40	50	38	18
40	**761 066 904**	0.067	51	58	44	22
50	**761 066 905**	0.122	64	70	51	26
63	**761 066 906**	0.233	81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

Elbow 45°

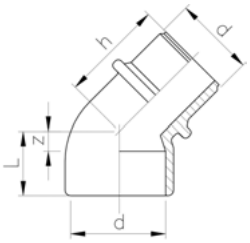




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	**761 066 610**	0.008	22	21	6
20	**761 066 611**	0.016	26	22	7
25	**761 066 612**	0.026	32	25	7
32	**761 066 613**	0.030	40	30	10
40	**761 066 614**	0.064	51	34	12
50	**761 066 615**	0.093	64	39	14
63	**761 066 616**	0.145	81	45	17
75	**761 066 617**	0.223	92	51	20
90	**761 066 618**	0.337	109	58	22
110	**761 066 619**	0.616	134	68	26

Elbow 45° - socket spigot

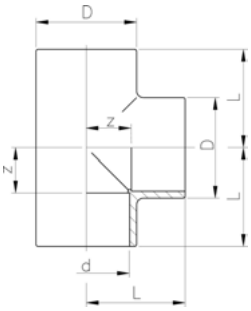




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	h [mm]	z [mm]
16	**761 066 907**	0.008	22	21	29	6
20	**761 066 908**	0.011	26	22	30	7
25	**761 066 909**	0.017	32	25	35	7
32	**761 066 910**	0.032	40	30	40	10
40	**761 066 911**	0.055	51	34	46	12
50	**761 066 912**	0.101	64	39	53	14
63	**761 066 913**	0.258	81	45	62	17

T-piece 90° - equal

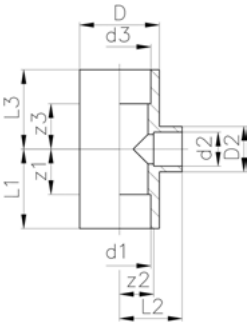




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	**761 066 620**	0.017	22	25	10
20	**761 066 621**	0.025	26	28	13
25	**761 066 622**	0.036	32	32	14
32	**761 066 623**	0.045	40	38	18
40	**761 066 624**	0.105	51	44	22
50	**761 066 625**	0.147	64	51	26
63	**761 066 626**	0.315	81	62	34
75	**761 066 627**	0.375	91	75	44
90	**761 066 628**	0.694	112	88	52
110	**761 066 629**	1.120	132	105	63

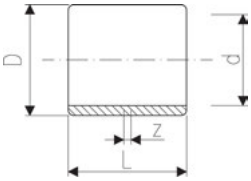
T-piece 90° - reduced





d1 [mm]	d2 [mm]	d3 [mm]	Code	Weight [kg]	D [mm]	D2 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
20	16	20	**761 066 914**	0.015	26	22	28	28	28	13	13	13
20	16	16	**761 066 915**	0.016	26	22	28	28	28	13	13	13
20	20	16	**761 066 916**	0.017	26	26	28	28	28	13	13	13
25	16	25	**761 066 917**	0.025	32	26	32	32	32	14	17	14
25	20	25	**761 066 918**	0.025	32	26	32	32	32	14	17	14
25	20	20	**761 066 919**	0.026	32	26	32	32	32	14	17	17
25	25	20	**761 066 920**	0.027	32	32	32	32	32	14	14	17
32	16	32	**761 066 921**	0.041	40	26	38	38	38	18	23	18
32	20	32	**761 066 922**	0.040	40	26	38	38	38	18	23	18
32	25	32	**761 066 923**	0.036	40	32	38	38	38	18	20	18
40	16	40	**761 066 295**	0.083	51	34	44	44	44	22	29	22
40	25	40	**761 066 924**	0.077	51	34	44	44	44	22	26	22
40	32	40	**761 068 049**	0.076	51	40	44	44	44	22	24	22
50	16	50	**761 066 309**	0.135	64	34	51	51	51	26	36	26
50	25	50	**761 066 925**	0.131	64	34	51	51	51	26	33	26
50	32	50	**761 068 050**	0.133	64	40	51	51	51	26	31	26
63	16	63	**761 066 310**	0.257	81	35	62	62	62	34	47	34
63	25	63	**761 066 926**	0.252	81	35	62	62	62	34	44	34
63	32	63	**761 068 051**	0.255	81	40	62	62	62	34	42	34

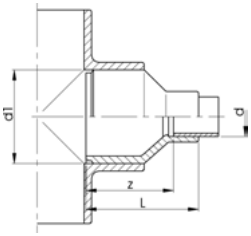




Socket

d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	**761 066 660**	0.009	22	33	3
20	**761 066 661**	0.014	26	33	3
25	**761 066 662**	0.020	32	39	3
32	**761 066 663**	0.033	40	43	3
40	**761 066 664**	0.048	51	48	4
50	**761 066 665**	0.069	64	54	4
63	**761 066 666**	0.120	81	60	4
75	**761 066 667**	0.153	91	69	7
90	**761 066 668**	0.236	110	80	8
110	**761 066 669**	0.417	133	94	10

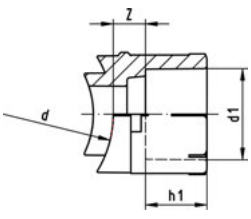




Reducing bush

d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]	z [mm]
16	20	**761 066 670**	0.005	30	15
16	25	**761 066 671**	0.010	33	18
20	25	**761 066 672**	0.015	33	18
20	32	**761 066 674**	0.018	40	25
25	32	**761 066 675**	0.022	40	22
20	40	**761 066 677**	0.024	42	27
25	40	**761 066 678**	0.028	42	24
32	40	**761 066 679**	0.034	42	22
20	50	**761 066 681**	0.035	55	40
25	50	**761 066 682**	0.035	55	37
32	50	**761 066 683**	0.042	55	35
40	50	**761 066 684**	0.050	55	33
20	63	**761 066 686**	0.055	58	43
25	63	**761 066 687**	0.060	58	40
32	63	**761 066 688**	0.066	58	38
40	63	**761 066 689**	0.074	58	36
50	63	**761 066 690**	0.079	58	33
63	75	**761 066 742**	0.115	67	39
63	90	**761 066 746**	0.150	74	46
75	90	**761 066 745**	0.160	74	43
63	110	**761 066 747**	0.229	86	58
75	110	**761 066 749**	0.234	86	55
90	110	**761 066 748**	0.270	86	50





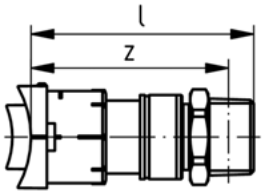
Weld-in-Saddle

* on request

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

Weld-in Saddle - male thread



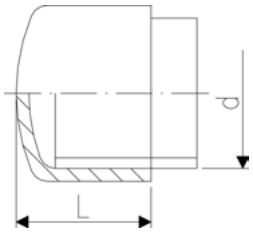


* on request

	d - d1 [mm]	R [inch]	Code	Weight [kg]	l [mm]	z [mm]
*	50 - 25	¾	**761 068 041**	0.130	91	66
*	63 - 32	1	**761 068 042**	0.204	95	70
*	75 - 32	1	**761 068 043**	0.204	96	71
*	90 - 32	1	**761 068 044**	0.208	97	72
*	110 - 32	1	**761 068 045**	0.208	98	73

End cap



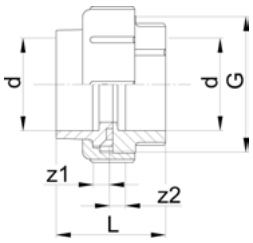


d [mm]	Code	Weight [kg]	L [mm]
16	**761 066 650**	0.006	22
20	**761 066 651**	0.010	24
25	**761 066 652**	0.014	28
32	**761 066 653**	0.022	32
40	**761 066 654**	0.024	38
50	**761 066 655**	0.050	44
63	**761 066 656**	0.079	50

Union

Union, socket-socket



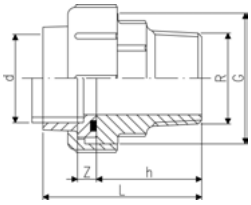


Including EPDM O-Ring, quality suitable for potable water

d [mm]	Code	Weight [kg]	G [inch]	L [mm]	z1 [mm]	z2 [mm]
16	**761 066 691**	0.135	1	43	8	5
20	**761 066 692**	0.164	1 ¼	43	8	5
25	**761 066 693**	0.208	1 ½	49	8	5
32	**761 066 694**	0.300	2	53	8	5
40	**761 066 695**	0.469	2 ½	59	10	5
50	**761 066 696**	0.525	2 ¾	65	10	5
63	**761 066 697**	0.766	3 ½	71	10	5

Adaptor union - socket-male thread



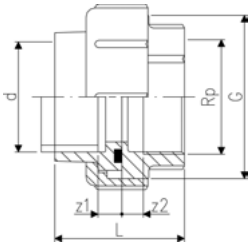


Including EPDM O-Ring, quality suitable for potable water

d [mm]	R [inch]	Code	Weight [kg]	G [inch]	L [mm]	h [mm]	z [mm]
16	½	**761 066 698**	0.215	1	61	38	8
20	½	**761 066 699**	0.217	1 ¼	63	40	8
25	¾	**761 066 700**	0.324	1 ½	67	41	8
32	1	**761 066 701**	0.474	2	73	45	8
40	1 ¼	**761 066 702**	0.634	2 ½	80	48	10
50	1 ½	**761 066 703**	0.719	2 ¾	83	48	10
63	2	**761 066 704**	1.006	3 ½	92	54	10

Adaptor union - socket-female thread





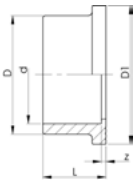
Including EPDM O-Ring, quality suitable for potable water

d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]	z1 [mm]	z2 [mm]	G [inch]
16	½	**761 066 705**	0.164	45	8	9	1
20	½	**761 066 706**	0.219	47	8	10	11/4
25	¾	**761 066 707**	0.268	50	8	9	11/2
32	1	**761 066 708**	0.270	53	8	8	2
40	1 ¼	**761 066 709**	0.600	58	10	7	21/2
50	1 ½	**761 066 710**	0.700	61	10	7	23/4
63	2	**761 066 711**	0.950	66	10	5	31/2

Flange connections

Flange adaptor flat

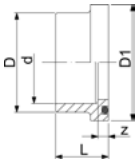




Suitable for flange or union nut

d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	h [mm]	z [mm]
16	**761 066 630**	0.005					
20	**761 066 631**	0.007	27	34	20	6	5
25	**761 066 632**	0.010	33	41	23	7	5
32	**761 066 633**	0.017	41	50	25	7	5
40	**761 066 634**	0.026	50	61	27	8	5
50	**761 066 635**	0.039	61	73	30	8	5
63	**761 066 636**	0.063	76	90	33	9	5
75	**761 066 637**	0.093	90	106	35	10	4
90	**761 066 638**	0.140	109	125	42	11	6
110	**761 066 639**	0.230	131	150	49	12	7



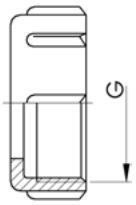


Flange adaptor with groove

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

d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	z [mm]
16	**761 066 640**	0.006	22	29	23	8
20	**761 066 641**	0.008	27	34	23	8
25	**761 066 642**	0.012	33	41	26	8
32	**761 066 643**	0.021	41	50	28	8
40	**761 066 644**	0.034	50	61	32	10
50	**761 066 645**	0.049	61	73	35	10
63	**761 066 646**	0.077	76	90	38	10
75	**761 066 647**	0.111	90	106	40	9
90	**761 066 648**	0.179	109	125	47	11
110	**761 066 649**	0.292	131	150	55	13



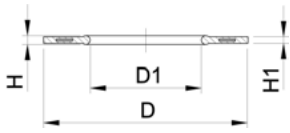


Union nut

Suitable for flange or union nut

d [mm]	G [inch]	Code	Weight [kg]
16	1	**761 066 188**	0.090
20	1 ¼	**761 066 100**	0.083
25	1 ½	**761 066 101**	0.104
32	2	**761 066 102**	0.142
40	2 ½	**761 066 103**	0.226
50	2 ¾	**761 066 104**	0.261
63	3 ½	**761 066 105**	0.334





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

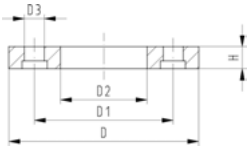
di FA are the suitable inner diameters of flanges adaptors

d [mm]	PN [bar]	DN [mm]	EPDM Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
20	16	15	**748 440 706**	51	20	4	3	10 - 20
25	16	20	**748 440 707**	61	22	4	3	12 - 22
32	16	25	**748 440 708**	71	28	4	3	18 - 28
40	16	32	**748 440 709**	82	40	4	3	30 - 40
50	16	40	**748 440 710**	92	46	4	3	36 - 46
63	16	50	**748 440 711**	107	58	5	4	48 - 58
75	16	65	**748 440 712**	127	69	5	4	59 - 69
90	16	80	**748 440 713**	142	84	5	4	73 - 84
110	16	100	**748 440 714**	162	104	6	5	94 - 104



Backing flanges PN 16 IPP

Material: Casting, GFK coated
Suitable for flange adaptor
Tighten the screws with torque as indicated
Commercially available scews, nuts, washers
* on request



	d [mm]	Code	Weight [kg]
*	20	**761 065 270**	0.378
*	25	**761 065 271**	0.463
	32	**761 065 272**	0.412
	40	**761 065 273**	0.551
	50	**761 065 274**	0.747
	63	**761 065 275**	0.842
	75	**761 065 276**	1.131
	90	**761 065 277**	1.092
	110	**761 065 278**	1.465

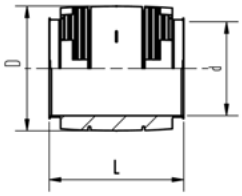
	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	Tightening torque [mm]	AL	SC
*	20	106	65	28	14	18	10	4	M 12x 70
*	25	118	75	34	14	18	15	4	M 12x 75
	32	122	85	42	14	17	15	4	M 12x 75
	40	142	100	51	18	17	20	4	M 16x 80
	50	156	110	62	18	19	25	4	M 16x 85
	63	171	125	78	18	20	35	4	M 16x 85
	75	191	145	92	18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

Fittings for Butt Fusion and electrofusion

Fittings for electrofusion and butt fusion

Electrofusion coupler - PN 16

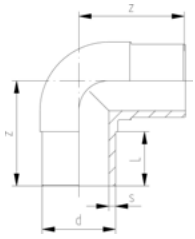




d [mm]	Code	Weight [kg]	L [mm]
125	**761 069 555**	1.500	186
160	**761 069 556**	2.021	190
225	**761 069 557**	4.472	220

Elbow 90° - PN 10

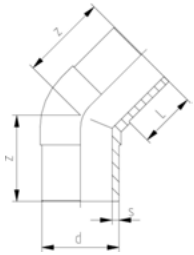




d [mm]	Code	Weight [kg]	L [mm]	z [mm]
125	**761 065 258**	1.615	93	182
160	**761 065 259**	3.077	104	213
225	**761 065 260**	7.588	122	270

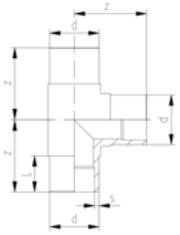
Elbow 45° - PN 10





d [mm]	Code	Weight [kg]	L [mm]	z [mm]
125	**761 065 261**	1.246	92	140
160	**761 065 262**	2.379	102	162
225	**761 065 263**	6.065	122	200

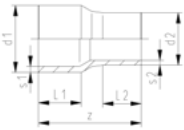




Tee 90° - equal - PN 10

d [mm]	Code	Weight [kg]	L [mm]	z [mm]
125	**761 065 255**	2.397	93	183
160	**761 065 256**	4.312	102	210
225	**761 065 257**	11.984	122	270

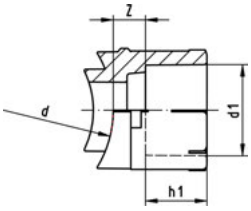




Reducer - PN 10

d1 [mm]	d2 [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	z [mm]
125	110	**761 065 267**	0.729	92	85	215
160	125	**761 065 268**	1.263	102	92	245
225	160	**761 065 269**	2.800	122	102	280

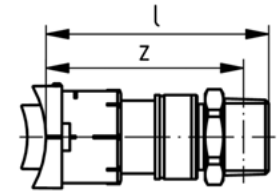




Weld-in-Saddle

d - d1 [mm]	Code	Weight [kg]	h1 [mm]	z [mm]
125 - 32	**761 068 018**	0.035	20	16
125 - 40	**761 068 019**	0.056	22	16
125 - 50	**761 068 020**	0.072	25	16
160 - 32	**761 068 021**	0.045	20	16
160 - 40	**761 068 022**	0.061	22	16
160 - 50	**761 068 023**	0.077	25	16
225 - 32	**761 068 024**	0.076	20	16
225 - 40	**761 068 025**	0.076	22	16
225 - 50	**761 068 026**	0.092	25	16





Weld-in-Saddle - male thread

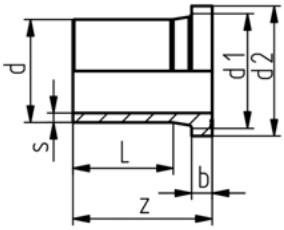
* on request

	d - d1 [mm]	R [inch]	Code	Weight [kg]	l [mm]	z [mm]
*	125 - 32	1	**761 068 046**	0.215	100	90
*	160 - 32	1	**761 068 047**	0.228	100	90
*	225 - 32	1	**761 068 048**	0.261	100	90

Flange connections for butt fusion

Flange adaptor - flat

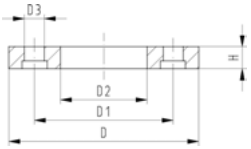




d [mm]	Code	Weight [kg]	d1 [mm]	d2 [mm]	L [mm]	b [mm]	z [mm]
125	**761 065 264**	0.864	132	162	123	25	170
160	**761 065 265**	1.667	176	218	147	25	200
225	**761 065 266**	3.003	236	274	122	32	200

Backing flanges



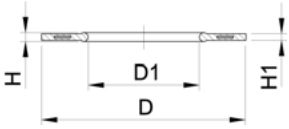


d [mm]	Code	Weight [kg]
125	**761 065 279**	1.284
160	**761 065 280**	2.406
225	**761 065 281**	3.600

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	Screws	Tightening torque [mm]
125	226	180	135	18	23	8	M16 x 130	50
160	296	240	178	22	28	8	M20 x 140	60
225	350	295	238	22	31	8	M20 x 160	75

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 flanges adaptors

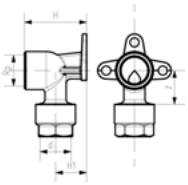
d [mm]	PN [bar]	DN [mm]	EPDM Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
125	16	100	**748 440 715**	162	123	6	5	113 - 123
160 - 180	16	150	**748 440 717**	218	160	8	6	150 - 160
225	16	200	**748 440 720**	273	220	8	6	207 - 220

Outlet Joints and Accessories

Outlet joints without box

Single pipe outlet - flange



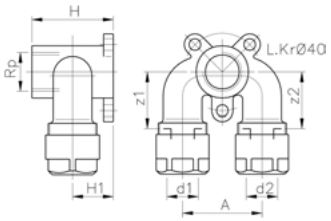


Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting

	d [mm]	Rp [inch]	Code	Weight [kg]	H [mm]	H1 [mm]	z [mm]
	16	½	**760 853 013**	0.180	44	22	28
	16	½	**760 856 036**	0.279	60	22	28
	16	½	**760 856 037**	0.319	80	22	28
*	16	½	**760 856 043**	0.333	100	22	28
	20	½	**760 854 682**	0.213	44	25	28
	20	¾	**760 853 038**	0.313	44	25	28

Dual pipe outlet - flange



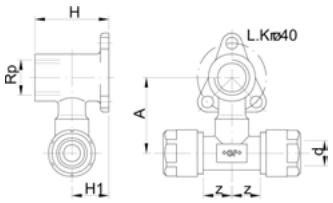


Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting

	d1 [mm]	d2 [mm]	Rp [inch]	Code	Weight [kg]	H [mm]	H1 [mm]	z1 [mm]	z2 [mm]	A [mm]
	16	16	½	**760 853 059**	0.380	44	22	30	30	40
*	16	16	½	**760 856 045**	0.385	100	22	30	30	40
	20	20	½	**760 869 902**	0.439	44	25	32	32	40

Dual pipe outlet - flange



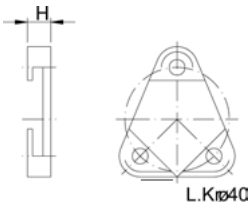


Screw 760 856 040, self tapping M6 x 16

d [mm]	Rp [inch]	Code	Weight [kg]	H [mm]	H1 [mm]	z [mm]
16	½	**760 853 014**	0.344	44	22	19

Rubber isolator for pipe outlets

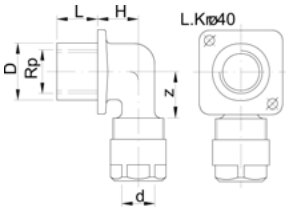




Suitable for dual pipe outlets

Code	Weight [kg]	H [mm]	z [mm]
760 856 205	0.007	9	3



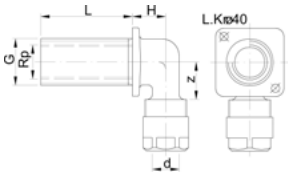


Single pipe outlet - mounting flange

Screw 760 856 040, self tapping M6 x 16

d [mm]	Rp [inch]	Code	Weight [kg]	D [mm]	L [mm]	H [mm]	z [mm]
16	½	**760 869 904**	0.222	27	20	22	26



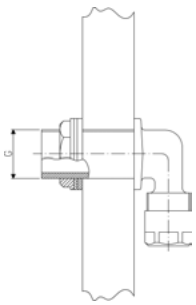


Single pipe outlet - mounting flange

Screw 760 856 040, self tapping M6 x 16
* on request

	d [mm]	Rp [inch]	G [inch]	Code	Weight [kg]	L [mm]	H [mm]	z [mm]
	16	½	¾	**760 856 041**	0.236	30	20	26
*	16	½	¾	**760 856 050**	0.254	42	20	26
	16	½	¾	**760 869 906**	0.273	55	20	26





Fastening set

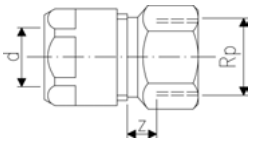
Appropriate to outlet joint - male thread
Consists of: Union nut washer, seal
From the INSTAFLEX range

G [inch]	Code	Weight [kg]
¾	**760 854 699**	0.031

Fittings for Compression Joints

Compression Joint Fittings - CJF

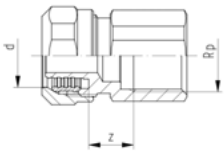




Transition - female thread

d [mm]	Rp [inch]	Code	Weight [kg]	z [mm]
16	½	**760 853 104**	0.078	12
16	¾	**760 853 105**	0.144	15
20	½	**760 853 194**	0.204	14
20	¾	**760 853 153**	0.174	15



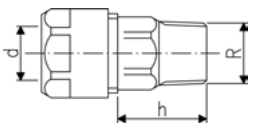


Transition - female thread

* on request

	d [mm]	Rp [inch]	Code	Weight [kg]	z [mm]	Remarks
	25	¾	**760 856 231**	0.124	7	
	25	1	**760 856 232**	0.202	13	
	32	1	**760 856 233**	0.261	7	
	40	1 ¼	**760 856 234**	0.364	7	
	50	1 ½	**760 856 235**	0.506	7	
	63	2	**760 856 236**	1.896	9	
	75	2 ½	**760 856 248**	1.907	10	without approval
*	90	3	**760 856 261**	0.800	9	without approval
*	110	4	**760 856 262**	5.800	38	without approval

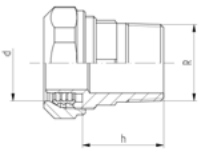




Transition - male thread

d [mm]	R [inch]	Code	Weight [kg]	h [mm]
16	½	**760 853 107**	0.111	30
16	¾	**760 853 108**	0.156	34
20	½	**760 853 195**	0.148	38
20	¾	**760 853 138**	0.230	36





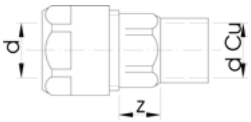
Transition - male thread

* on request

	d [mm]	R [inch]	Code	Weight [kg]	h [mm]	Remarks
	25	¾	**760 856 241**	0.144	35	
	25	1	**760 856 242**	0.177	41	
	32	1	**760 856 243**	0.293	42	
	40	1 ¼	**760 856 244**	0.409	44	
	50	1 ½	**760 856 245**	0.576	47	
	63	2	**760 856 246**	1.736	32	
	75	2 ½	**760 856 247**	2.093	37	without approval
*	90	3	**760 856 263**	2.806	32	without approval
*	110	4	**760 856 264**	3.429	38	without approval

Transition - soldering end, socket

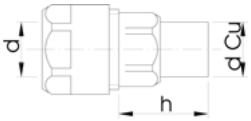




d [mm]	dCu [mm]	Code	Weight [kg]	z [mm]
16	15	**760 853 114**	0.010	14
16	18	**760 853 196**	0.093	12
20	18	**760 853 197**	0.188	14
20	22	**760 853 139**	0.158	11

Transition - soldering end, spigot

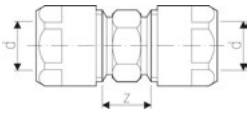




d [mm]	dCu [mm]	Code	Weight [kg]	h [mm]
16	15	**760 853 113**	0.100	28
16	18	**760 853 198**	0.104	30
20	18	**760 853 199**	0.142	35
20	22	**760 854 700**	0.190	38

Socket

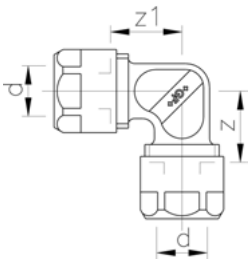




d [mm]	Code	Weight [kg]	z [mm]
16	**760 853 124**	0.156	26
20	**760 853 151**	0.300	28

Elbow 90°

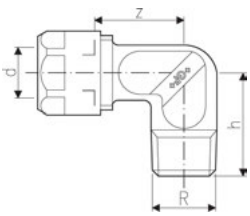




d [mm]	Code	Weight [kg]	z [mm]	z1 [mm]
16	**760 854 842**	0.206	22	22
20	**760 854 843**	0.280	24	24

Transition elbow 90° - male thread

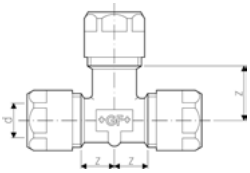




d [mm]	R [inch]	Code	Weight [kg]	h [mm]	z [mm]
16	½	**760 854 838**	0.171	35	27
16	¾	**760 854 839**	0.188	35	27
20	¾	**760 854 840**	0.208	35	29
25	¾	**760 854 819**	0.236	44	34
20	½	**760 869 991**	0.207	35	29

T-piece 90° - equal

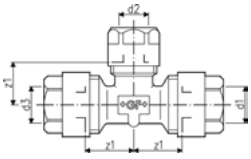




d [mm]	Code	Weight [kg]	z [mm]
16	**760 853 125**	0.275	22
20	**760 853 131**	0.416	24

T-piece 90° - reduced

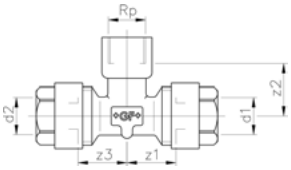




d1 [mm]	d2 [mm]	d3 [mm]	Code	Weight [kg]	z1 [mm]	z2 [mm]	z3 [mm]
20	16	20	**760 853 136**	0.380	24	23	23
20	16	16	**760 853 140**	0.342	24	23	23
20	20	16	**760 853 137**	0.375	24	24	23

Transition T-piece - female thread

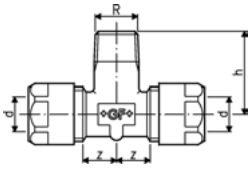




d [mm]	Rp [inch]	Code	Weight [kg]	z1 [mm]	z2 [mm]	z3 [mm]
20	½	**760 854 841**	0.340	24	22	24

Transition T-piece - male thread

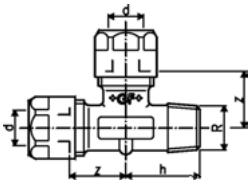




d [mm]	R [inch]	Code	Weight [kg]	h [mm]	z [mm]
16	½	**760 854 711**	0.225	38	19
20	½	**760 856 211**	0.327	39	24

Transition T-piece - male thread





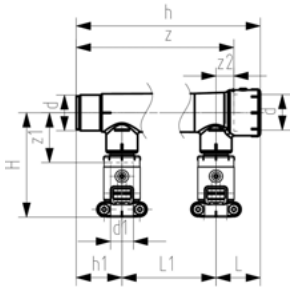
d [mm]	R [inch]	Code	Weight [kg]	h [mm]	z [mm]	
16	½	**760 869 987**	0.209	30	22	

Manifolds and Accessories

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

Polybutene Manifold for electrofusion

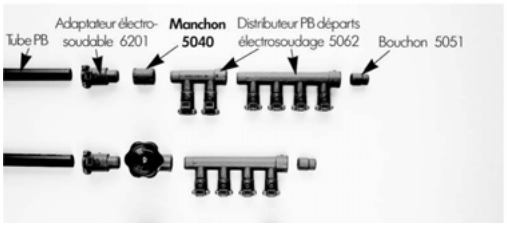


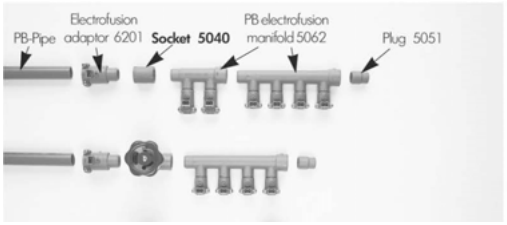


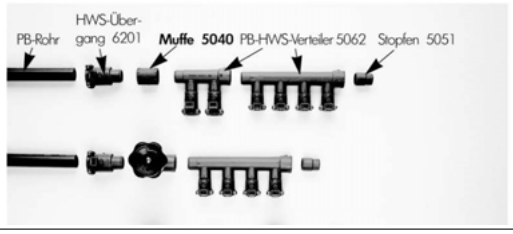
Eletrofusion connections

	d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	H [mm]	h [mm]	h1 [mm]	z [mm]	z1 [mm]	z2 [mm]
single	25	16	**761 066 250**	0.040	31	0	60	63	32	45	36	13
single	25	20	**761 066 251**	0.050	39	0	64	78	39	60	35	21
double	25	16	**761 066 252**	0.074	31	45	60	108	32	90	36	13
triple	25	16	**761 066 253**	0.112	31	45	60	153	32	135	36	13
4 fold	25	16	**761 066 254**	0.144	31	45	60	198	32	180	36	13

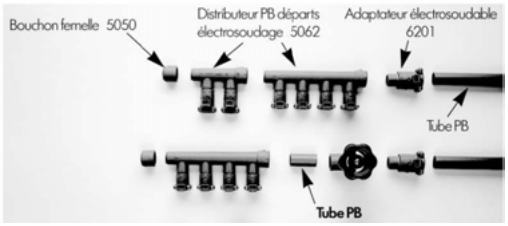
Raccordement à gauche

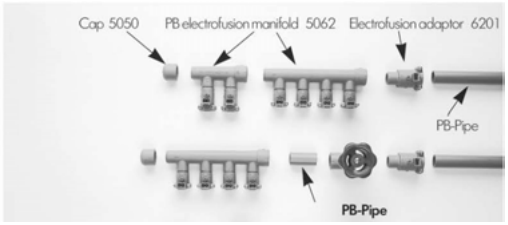


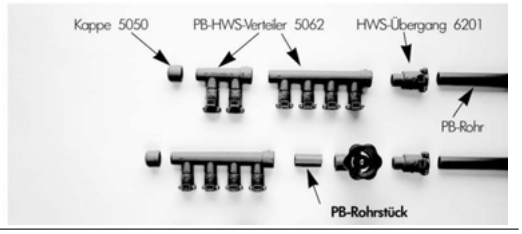




Raccordement à droite



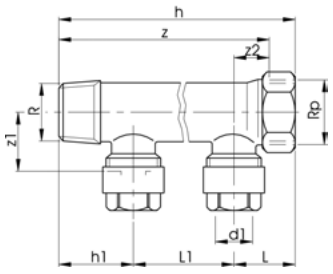




Manifolds in nonferrous metal

Manifold 90° - 3/4" (DN 20)



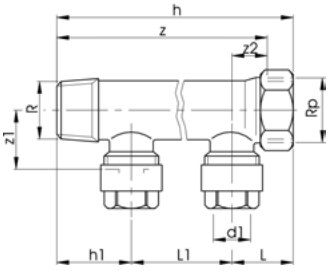


Metal with compression connections

	d [mm]	R [inch]	Rp [inch]	Code	Weight [kg]	L [mm]	L1 [mm]	h [mm]	h1 [mm]	z [mm]	z1 [mm]	z2 [mm]
1-fold	16	¾	¾	**760 853 189**	0.220	28	0	59	31	45	24	14
1-fold	20	¾	¾	**760 853 190**	0.283	33	0	69	36	55	26	19
2-fold	16	¾	¾	**760 853 180**	0.391	28	45	104	31	90	24	14
3-fold	16	¾	¾	**760 853 181**	0.561	28	45	149	31	135	24	14
4-fold	16	¾	¾	**760 853 182**	0.470	28	45	194	31	180	24	14

Manifold 90° - 1" (DN 25)





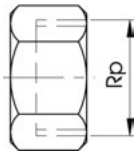
Metal with compression connections

	d [mm]	R [inch]	Rp [inch]	Code	Weight [kg]	L [mm]	L1 [mm]	h [mm]	h1 [mm]	z [mm]	z1 [mm]	z2 [mm]
1-fold	16	1	1	**760 854 860**	0.272	28	0	62	34	45	29	11
1-fold	20	1	1	**760 854 855**	0.344	33	0	75	42	58	29	16
2-fold	16	1	1	**760 854 861**	0.468	28	45	107	34	90	29	11
2-fold	20	1	1	**760 854 892**	0.636	33	60	135	42	118	29	16
3-fold	16	1	1	**760 854 862**	0.678	28	45	152	34	135	29	11
4 fold	16	1	1	**760 854 863**	0.877	28	45	197	34	180	29	11

Compression Joint Fittings - CJF

End Cap

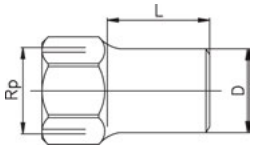




Rp [inch]	Code	Weight [kg]
¾	**760 853 794**	0.084
1	**760 853 706**	0.135

Cap long

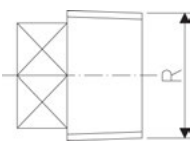




Rp [inch]	Code	Weight [kg]	D [mm]	L [mm]
¾	**760 853 596**	0.162	27	34
1	**760 853 527**	0.216	32	34

Plug

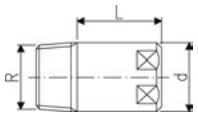




R [inch]	Code	Weight [kg]
¾	**760 853 792**	0.050
1	**760 853 793**	0.084

Plug long





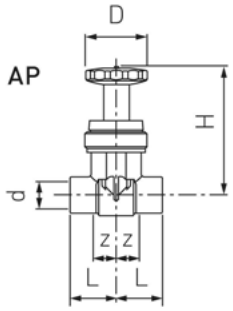
R [inch]	Code	Weight [kg]	D [mm]	L [mm]	
¾	**760 869 989**	0.150	27	52	
1	**760 869 990**	0.211	33	54	

Valves

Valves in Polybutene
(do not use as drain valve)
(do not use for compressed air)

Valve BTV 2 HMS - without drain



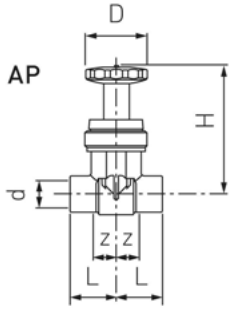


Socketfusion
Gasket: EPDM quality for potable water

d [mm]	Code	Weight [kg]	D [mm]	L [mm]	H [mm]	z [mm]	Value (Zeta)	kv-100-value (Δp=1 bar) [l/min]
20	**761 070 304**	0.379	55	40	112	25	0.4	421
25	**761 070 305**	0.370	55	40	112	22	0.4	421
32	**761 070 306**	0.387	55	43	112	23	0.4	421
40	**761 070 307**	1.099	90	55	165	33	0.3	1291
50	**761 070 308**	1.151	90	60	165	35	0.3	1291
63	**761 070 309**	1.492	90	75	165	47	0.3	1291

Valve BTV 2 HMS - with spigot G 1/4"



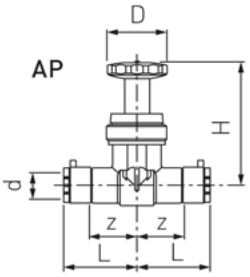


Socketfusion
Gasket: EPDM quality for potable water

d [mm]	Code	Weight [kg]	D [mm]	L [mm]	H [mm]	z [mm]	Value (Zeta)	kv-100-value (Δp=1 bar) [l/min]
20	**761 070 310**	0.443	55	40	112	25	0.4	421
25	**761 070 311**	0.434	55	40	112	22	0.4	421
32	**761 070 312**	0.434	55	43	112	23	0.4	421
40	**761 070 313**	1.161	90	55	165	33	0.3	1291
50	**761 070 314**	1.213	90	60	165	35	0.3	1291
63	**761 070 315**	1.394	90	75	165	47	0.3	1291

Valve BTV 2 HWS



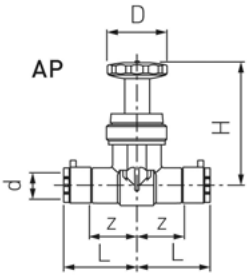


Electrofusion
Gasket: EPDM, suitable for potable hot and cold water

d [mm]	DN [mm]	Code	Weight [kg]	D [mm]	L [mm]	H [mm]	z [mm]
20	15	**761 069 647**	0.425	55	86	112	47
25	20	**761 069 648**	0.427	55	89	112	47
32	25	**761 069 649**	0.470	55	94	112	52
40	32	**761 069 650**	1.237	90	112	165	65
50	40	**761 069 651**	1.369	90	120	165	71
63	50	**761 069 652**	1.851	90	141	165	90

Valve BTV 2 HWS - spigot G1/4"





Gasket: EPDM, suitable for potable hot and cold water

d [mm]	DN [mm]	Code	Weight [kg]	H [mm]	L [mm]	z [mm]	D [mm]
20	15	**761 069 653**	0.489	112	86	47	55
25	20	**761 069 654**	0.494	112	89	47	55
32	25	**761 069 655**	0.520	112	94	52	55
40	32	**761 069 656**	1.298	165	112	65	90
50	40	**761 069 657**	1.431	165	120	71	90
63	50	**761 069 658**	1.754	165	141	90	90

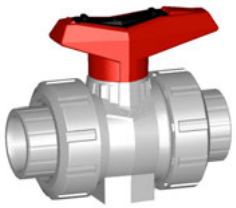
Drain valve and plug

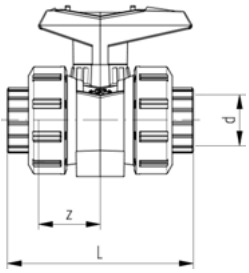


G [inch]	Code	Weight [kg]
¼	**761 066 328**	0.046

Ball valves

Ball valve type 546 PVC-C - PB-flange adaptor - socket fusion

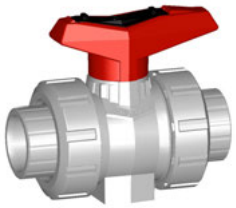


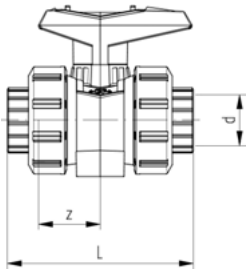


No approval for potable water installations

d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	L [mm]	z [mm]
20	15	16	**761 066 337**	0.160	95	33
25	20	16	**761 066 338**	0.243	108	38
32	25	16	**761 066 339**	0.349	118	39
40	32	16	**761 066 340**	0.614	137	47
50	40	16	**761 066 341**	0.838	147	49
63	50	16	**761 066 342**	1.546	168	46

Ball valve type 546 PP - PB-flange adaptor - socket fusion



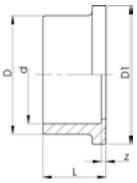


No approval for potable water installations

d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	L [mm]	z [mm]
20	15	16	**760 000 337**	0.119	95	33
25	20	16	**760 000 338**	0.182	108	38
32	25	16	**760 000 339**	0.255	118	39
40	32	16	**760 000 340**	0.446	137	47
50	40	16	**760 000 341**	0.609	147	49
63	50	16	**760 000 342**	1.118	168	46

PB flange adaptor

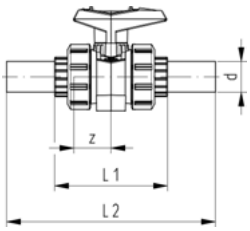




Transition to ball valve 564

d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	h [mm]	z [mm]
20	**761 066 940**	0.005	27	33	20	4	3
25	**761 066 941**	0.012	33	44	22	5	3
32	**761 066 942**	0.016	41	53	24	5	3
40	**761 066 943**	0.026	51	65	26	5	3
50	**761 066 944**	0.041	62	77	29	6	3
63	**761 066 945**	0.075	77	99	34	7	3



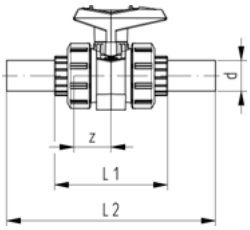


Ball valve type 546 PVC-C / PB-Spigots

No approval for potable water installations
Working temperture max. +70°C
* on request

	d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	L1 [mm]	L2 [mm]	z [mm]
*	20	15	10	**761 066 343**	0.178	95	190	33
*	25	20	10	**761 066 344**	0.271	108	208	38
*	32	25	10	**761 066 345**	0.386	118	218	39
*	40	32	10	**761 066 346**	0.676	137	250	47
*	50	40	10	**761 066 347**	0.988	147	263	49
*	63	50	10	**761 066 348**	1.642	168	288	46



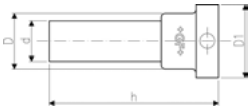


Ball valve type 546 PP / PB-Spigots

Applicable for compressed air till 10 bar
No approval for potable water installations
Working temperture max. +70°C
* on request

	d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	L1 [mm]	L2 [mm]	z [mm]
*	20	15	10	**760 000 343**	0.141	95	190	33
*	25	20	10	**760 000 344**	0.203	108	208	38
*	32	25	10	**760 000 345**	0.298	118	218	39
*	40	32	10	**760 000 346**	0.512	137	250	47
*	50	40	10	**760 000 347**	0.715	147	263	49
*	63	50	10	**760 000 348**	1.293	168	288	46





PB Flange adaptor flat with spigot

Suitable to ball valve 546
on request

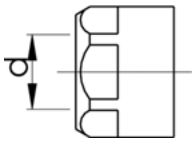
d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	h [mm]
20	**761 069 627**	0.008	27	34	66
25	**761 069 628**	0.025	33	41	71
32	**761 069 629**	0.039	41	50	74
40	**761 069 630**	0.027	50	61	82
50	**761 069 631**	0.094	61	73	87
63	**761 069 632**	0.074	76	90	94

Spare Parts

Spare Parts - Compression Joint

Union nut

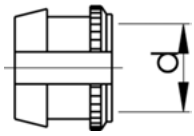




d [mm]	Code	Weight [kg]
16	**760 853 018**	0.034
20	**760 853 071**	0.047

Clamping ring



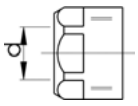


d [mm]	Code	Weight [kg]
16	**760 853 019**	0.011
20	**760 853 072**	0.016

Cap



Including seal

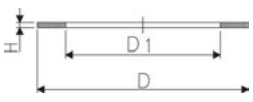


d [mm]	Code	Weight [kg]
16	**760 853 110**	0.051
20	**760 853 150**	0.094

Seal for cap



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



d-d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	H [mm]
16 - 20	**760 853 021**	0.001	15	6	3

Spare parts Flange adaptor PB

EPDM O-Ring



Quality suitable for potable water

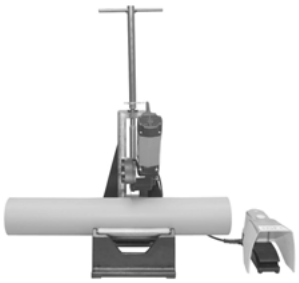
d [mm]	Code	Weight [kg]	d1 [mm]	D [mm]	H [mm]
16	**761 066 558**	0.001	19	26	4
20	**761 066 124**	0.001	23	31	4
25	**761 066 125**	0.001	28	35	4
32	**761 066 126**	0.001	36	43	4
40	**761 066 127**	0.004	44	55	5
50	**761 066 128**	0.001	53	64	5
63	**761 066 129**	0.001	69	80	5
75	**761 070 036**	0.007	82	93	5
90	**761 070 037**	0.008	101	112	5
110	**761 070 038**	0.016	120	134	7

Machines and Tools

General Tools

Pipe cutting machine CMB225





State-of-the art cutting machine for polyolefin pipes in diameter d110-d230. Scope of delivery: - Cutting machine CMB 225 1 pcs. - Machines cutter CW 225 3 pcs. - Pipe brackets PS 225 4 pcs. - Wrench for cutter-change 1 pcs.

Code	Weight [kg]	Voltage
761 070 322	38.000	110V
761 070 319	38.000	220V

Machines cutter CW 225



Replacement cutting wheel for cutting machine CMB 225

Code	Weight [kg]
761 070 320	0.240

Pipe support



Pipe support for cutting machine CMB 225

d [mm]	Code	Weight [kg]	Type
110 - 225	**761 070 321**	1.500	PS 225
50 - 110	**761 070 324**	1.400	PS 110

Pipe shears



d-d [mm]	Code	Weight [kg]
16 - 25	**760 853 279**	0.295



PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	Weight [kg]	Closest inch [inch]
PPC 63, s max. = 7.2mm	10 - 63	**790 109 001**	0.865	⅛ - 2
PPC 110, s max. = 12.7mm	50 - 110	**790 109 002**	1.624	1 ½ - 4
PPC 160, s max. = 19.0mm	110 - 160	**790 109 003**	2.212	4 - 6



KS Tangit Cleaner

- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB.

DVGW approvedDW 5290 BR 0464

Code	Weight [kg]
799 298 023	0.872



Tangit KS-Cleaning Tissues

Code	Weight [kg]
799 298 024	0.333

Tools for Compression Joints



Assembly tongs

d [mm]	Code	Weight [kg]
16 - 20	**760 853 743**	0.503
25	**760 869 950**	0.418



Ratched spanner

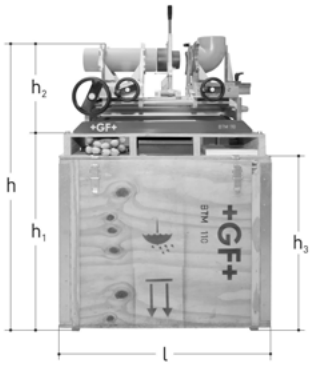
For tightening and loosening of compression fittings d16 and d20

d [mm]	SW [mm]	Code	Weight [kg]
16	24	**760 854 916**	0.280
20	27	**760 854 917**	0.321

Machines and tools for socket fusion jointing

Socket fusion machine BTM 110





Packed in a wooden case, usable as working table, prism clamp device for pipes, round clamping units for fittings d16-d110, pipe support adjustable. Without heating element. Requires heating element catalogue number 761 066 895

Code	Weight [kg]	l [mm]	h [mm]	h1 [mm]	h2 [mm]	h3 [mm]	
761 066 894	95.000	867	1191	787	404	728	

Accessories for socket fusion machine BTM 110



Toolbox (included in delivery code 761 066 895) heating element with electronic temperature regulation, voltage 230V, power 800W, heating bushes d16-d110, tempil sticks 253°C and 274°C, timer, gtemplate, gloves, support, grip, pipe shears, pipe cutter d32-d110, chamfering tool

Code	Weight [kg]	
761 066 895	10.000	

Heating element - complete 230V



Scope of delivery: Metal case, Heating element with electronic temperature regulation Voltage 230V, Power 800W, Heating bushes d16-d63, Tempil sticks 253°C and 274°C, Timer, Template, Gloves, Support, Grip, Pipe shears, Pipe cutter d32-d63, Chamfering tool
*only for CH / swiss plug

	d-d [mm]	Code	Weight [kg]	
	16 - 63	**761 066 802**	11.679	
*	16 - 63	**761 066 750**	11.735	

Heating element 230V



Scope of delivery: elctronic temperature regulation, Voltage 230V, Power 800W, Instruction for the socket fusion jointing
*only for CH / swiss plug

	d-d [mm]	Code	Weight [kg]	
	16 - 63	**761 066 804**	1.639	
*	16 - 63	**761 066 751**	1.646	



Heating element 30° - 230V

Special for weld-in-saddle
With Schuko-Plug CEE
* on request

	D [mm]	Code	Weight [kg]	
*	16 - 50	**761 066 877**	1.550	



Support

As a storage possibility for Handheld heating element

Code	Weight [kg]	
761 066 801	0.986	



Metal case - empty

- For heating element and accessories

Code	Weight [kg]	
761 066 752	4.150	



Heating bushes

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

d [mm]	Code	Weight [kg]	
16	**761 066 756**	0.189	
20	**761 066 757**	0.284	
25	**761 066 758**	0.366	
32	**761 066 759**	0.369	
40	**761 066 760**	0.321	
50	**761 066 761**	0.460	
63	**761 066 762**	0.609	

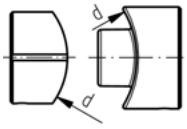


Heating spigots and bushes

- High-quality, non-stick PTFE-coating with long service life
- 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 [mm]	Code	Weight [kg]	
75	**799 300 162**	0.981	
90	**799 300 163**	1.452	
110	**799 300 164**	2.008	



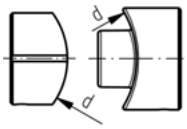


Heating bushes for weld-in-saddle PB

d = Pipe dim.

d [mm]	Code	Weight [kg]	Remarks
40	**761 068 027**	0.129	Drill bitt d20-d32
50	**761 068 028**	0.156	Drill bitt d20-d32
63	**761 068 029**	0.199	Drill bitt d20-d32
75	**761 068 030**	0.216	Drill bitt d20-d32
90	**761 068 031**	0.272	Drill bitt d20-d32
110	**761 068 032**	0.298	Drill bitt d20-d32





Heating bushes for weld-in-saddle PB

For heating element straight
d = Pipe dim.

d [mm]	Code	Weight [kg]	Remarks
125	**761 068 033**	0.376	Drill bitt d20-d32
125	**761 068 034**	0.510	Drill bitt d40-d50
160	**761 068 035**	0.568	Drill bitt d20-d32
160	**761 068 036**	0.658	Drill bitt d40-d50
225	**761 068 037**	1.013	Drill bitt d20-d32
225	**761 068 038**	1.019	Drill bitt d40-d50

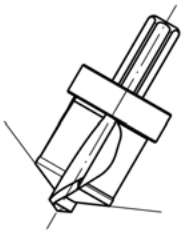


Spanner

Tool to change the heating bushes

SW [mm]	Code	Weight [kg]
6	**760 854 906**	0.038





Drill bit for weld-in-saddle

d [mm]	Code	Weight [kg]
20 - 32	**761 068 039**	0.132
40 - 50	**761 068 040**	0.232



Chamfering tool

d-d [mm]	Code	Weight [kg]
25 - 63	**761 066 794**	0.619
75 - 110	**761 066 836**	0.830



Spare blades for Chamfering tool

d-d [mm]	Code	Weight [kg]	
25 - 110	**761 066 795**	0.016	



Tempil sticks

Temperature [°C]	Code	Weight [kg]	
253	**761 066 796**	0.012	
274	**761 066 797**	0.014	



Gloves

Code	Weight [kg]	
761 066 799	0.115	



Template for fusion joints

To mark the coupler

d-d [mm]	Code	Weight [kg]	
16 - 63	**761 066 800**	0.014	

Machines and tools for electrofusion

Electrofusion control unit-Type HWSG-3



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

	d-d [mm]	Code	Weight [kg]	Dimensions [mm]	Size [mm]
	16 - 110	**761 069 021**	4.142	294	324
*	16 - 110	**761 069 020**	4.047	294	324

Welding cable angle - HWSG-3 - 230V



Matches to HWSG-3 - 230V

d [mm]	Code	Weight [kg]	Length [m]
16 - 110	**761 069 006**	0.246	3

Welding cable straight - HWSG-3 - 230V



Matches to HWSG-3 - 230V

d [mm]	Code	Weight [kg]	Length [m]
16 - 110	**761 069 001**	0.255	3

Welding cable triple 8 m - HWSG-3 - 230V



Matches to HWSG-3 - 230V
2 pcs. with cable straight
1 pc. with cable angle
* on request

	Code	Weight [kg]	Length [m]
*	**761 069 008**	1.753	8

Primary cable 230V



* on request

	Code	Weight [kg]	Length [m]
*	**761 069 013**	0.380	3



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 EU-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 EU-Standard plug
* on request

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



Welding cable angle PUR - HWSG-3 - 110V

Matches to HWSG-3 - 110V
* on request

	d [mm]	Code	Weight [kg]	Length [m]
*	16 - 110	**761 069 016**	0.264	3



Welding cable PUR straight - HWSG-3 - 110V

Matches to HWSG-3 - 110V
* on request

d-d [mm]	Code	Weight [kg]	Length [m]
16 - 110	**761 069 011**	0.271	3



Welding cable PUR straight - HWSG-3 - 110V

Matches to HWSG-3 - 110V
* on request

Code	Weight [kg]
761 069 011	0.271



Primary cable 110V

* on request

	Code	Weight [kg]	Length [m]
*	**761 069 012**	0.400	3



1/4" screwdriver bit - ball-head

d-d [mm]	Code	Weight [kg]	SW [mm]
16 - 63	**761 066 845**	0.007	3
75 - 110	**761 066 846**	0.007	4



Ball-head socket wrench - crossbar handle

d-d [mm]	Code	Weight [kg]	SW [mm]
16 - 63	**761 066 843**	0.038	3
75 - 110	**761 066 844**	0.038	4



Template, Electrofusion - HWS

d-d [mm]	Code	Weight [kg]
16 - 110	**761 069 602**	0.065



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 ø 20-400, INSTAFLEX PB ø 125, 160, 225, Fuseal Sea Drain ø 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	Weight [kg]	Description
MSA Plus 250 EX Multi	**799 350 520**	16.360	barcode scanner, transport case



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 [mm]	Code	Weight [kg]	
RS 125	125	**790 136 007**	1.730	
RS 160	160	**790 136 009**	1.730	
RS 225	225	**790 136 012**	2.030	

iFIT

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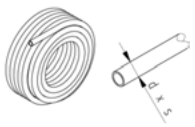
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Pipes

Multilayer

Multilayer pipe (coiled)





Packed in cardboard boxes
Multilayer pipe in coils without protective pipe
Packed in protective wrap
* on request

	d [mm]	s [mm]	Code	Weight [kg]
*	16	2.0	**762 101 000**	0.119
	16	2.0	**762 101 014**	0.118
	20	2.0	**762 101 001**	0.154
	25	2.5	**762 101 130**	0.289
	32	3.0	**762 101 131**	0.354

Multilayer pipe 5,0 m (bars)





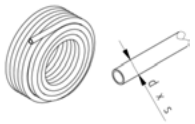
Packed in cardboard boxes

d [mm]	s [mm]	Code	Weight [kg]
16	2.0	**762 101 005**	0.118
20	2.0	**762 101 006**	0.154
25	2.5	**762 101 007**	0.284
32	3.0	**762 101 008**	0.354

Polybutene

Polybutene pipe (coiled)



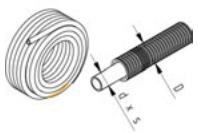


Packed in cardboard boxes
PB pipe in coils without protective pipe
* on request

	d [mm]	s [mm]	Code	Weight [kg]
*	16	2.0	**762 101 126**	0.088
	16	2.0	**762 101 201**	0.088
	20	2.0	**762 101 127**	0.115
	25	2.5	**762 101 128**	0.178

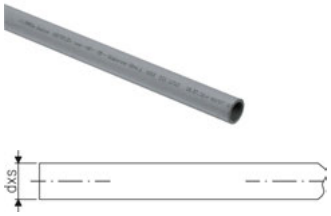
Polybutene pipe in protective pipe (coiled)





Packed in cardboard boxes
PB pipe in coils in protective pipe
Without oxygen barrier

d [mm]	s [mm]	Code	Weight [kg]	D [mm]
16	2	**762 101 012**	0.164	25
20	2	**762 101 013**	0.207	30
25	3	**762 101 011**	0.286	34



Polybutene pipe 5,0 m (bars)

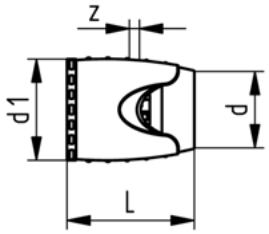
Packed in cardboard boxes
Without oxygen barrier
* on request

	s [mm]	d [mm]	Code	Weight [kg]	
*	2	16	**762 101 160**	0.088	
*	2	20	**762 101 161**	0.115	
*	3	25	**762 101 162**	0.178	
*	3	32	**762 101 163**	0.272	

Adaptors

Adaptor

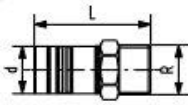




d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]	z [mm]
16	30	**762 101 030**	0.024	48	5
20	34	**762 101 031**	0.028	49	5
25	45	**762 101 034**	0.067	62	8
32	52	**762 101 035**	0.085	63	8

Male thread adaptor 1/2" - pipe outline





d [mm]	Code	Weight [kg]	L [mm]	R [inch]
20	**762 101 238**	0.064	49	½

Cap for adaptor

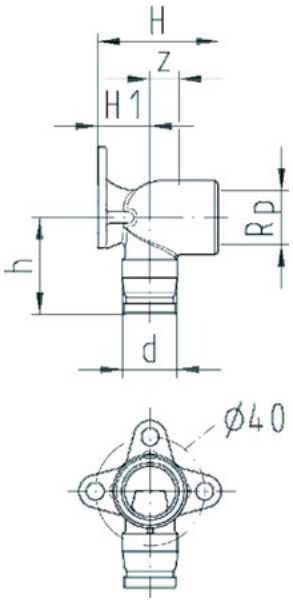


d [mm]	s [mm]	Code	Weight [kg]
16	2.0	**762 101 017**	0.004
25	2.5	**762 101 027**	0.009

Outlet joints without box

Single pipe outlet module

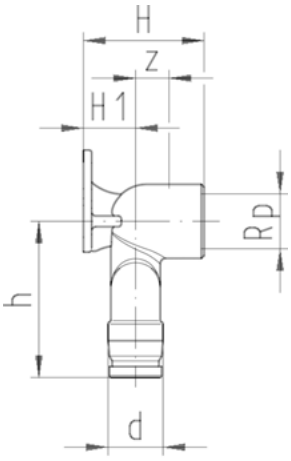


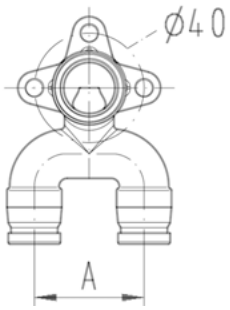


Applicable for light and wood construction
* low lead

	d [mm]	Rp [inch]	Code	Weight [kg]	H [mm]	H1 [mm]	h [mm]	z [mm]
	16 - 20	½	**762 101 018**	0.153	44	19	36	12
*	16 - 20	½	**762 101 259**	0.153	44	19	36	12
	16 - 20	½	**762 101 070**	0.188	64	19	36	32
*	16 - 20	½	**762 101 274**	0.188	64	19	36	32
	16 - 20	½	**762 101 242**	0.272	95	19	39	63
	16 - 20	¾	**762 101 019**	0.173	44	19	39	11
*	16 - 20	¾	**762 101 260**	0.173	44	19	39	11





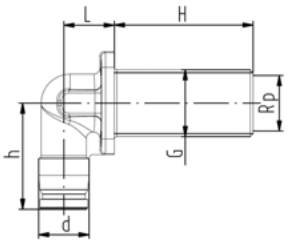


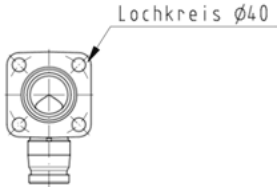
Dual pipe outlet module

Applicable for light and wood construction

	d [mm]	Rp [inch]	Code	Weight [kg]	A [mm]	H [mm]	H1 [mm]	h [mm]	z [mm]
*	16 - 20	½	**762 101 022**	0.240	40	44	19	57	12
*	16 - 20	½	**762 101 071**	0.282	40	64	19	57	32
	16 - 20	½	**762 101 261**	0.240	40	44	19	57	12
	16 - 20	½	**762 101 275**	0.282	40	64	19	57	32







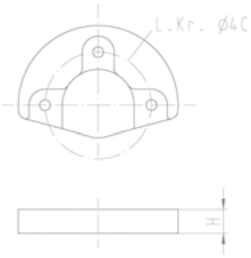
Single pipe outlet module 1/2" - 3/4"

* low lead

	d [mm]	Rp [inch]	Code	Weight [kg]	H [mm]	h [mm]	G [inch]	L [mm]
	16 - 20	½	**762 101 047**	0.197	55	42	¾	20
*	16 - 20	½	**762 101 269**	0.197	55	42	¾	20

Accessories for outlet joints





Sound proofing for pipe outlet

Code	Weight [kg]	
762 101 033	0.011	



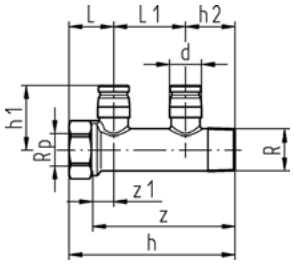
Sound proofing for pipe outlet

Single or double

	Code	Weight [kg]	
Set single	**762 101 036**	0.077	
Set double	**762 101 037**	0.123	

Manifolds



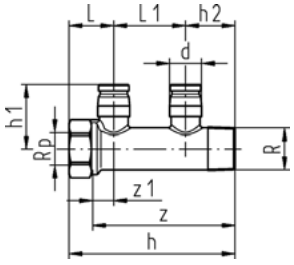


Manifold module with center-to-center distance of 55 mm

	d [mm]	Rp [inch]	R [inch]	outlet	Code	Weight [kg]
	16 - 20	¾	¾	2-fold	**762 101 230**	0.315
	16 - 20	¾	¾	3-fold	**762 101 231**	0.444
	16 - 20	¾	¾	4-fold	**762 101 232**	0.573
*	16 - 20	¾	¾	2-fold	**762 101 294**	0.315
*	16 - 20	¾	¾	3-fold	**762 101 295**	0.444
*	16 - 20	¾	¾	4-fold	**762 101 296**	0.573

	d [mm]	Rp [inch]	R [inch]	outlet	h [mm]	h1 [mm]	h2 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]
	16 - 20	¾	¾	2-fold	123	40	35	33	55	109	19
	16 - 20	¾	¾	3-fold	178	40	35	33	55	164	19
	16 - 20	¾	¾	4-fold	233	40	35	33	55	219	19
*	16 - 20	¾	¾	2-fold	123	40	35	33	55	109	19
*	16 - 20	¾	¾	3-fold	178	40	35	33	55	164	19
*	16 - 20	¾	¾	4-fold	233	40	35	33	55	219	19



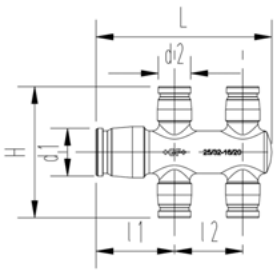


Manifold module with center-to-center distance of 45 mm

	outlet	d [mm]	Rp [inch]	R [inch]	Code	Weight [kg]
	2-fold	16 - 20	¾	¾	**762 101 048**	0.267
*	2-fold	16 - 20	1	1	**762 101 209**	0.436
	3-fold	16 - 20	¾	¾	**762 101 049**	0.371
	4-fold	16 - 20	¾	¾	**762 101 053**	0.527
	2-fold	16 - 20	1	1	**762 101 291**	0.436

	L [mm]	L1 [mm]	h [mm]	h1 [mm]	h2 [mm]	z [mm]	z1 [mm]
*	28	45	104	40	31	90	14
	37	60	131	45	34	120	26
	28	45	149	40	31	135	14
	28	45	194	40	31	180	14
	37	60	131	45	34	120	26





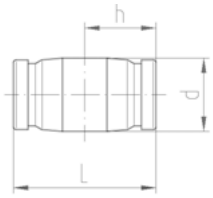
Manifold module PPSU

d1 [mm]	d2 [mm]	outlet	Code	Weight [kg]	L [mm]	l1 [mm]	l2 [mm]	H [mm]
25 - 32	16 - 20	3-fold	**762 101 213**	0.052	103	46	40	77
25 - 32	16 - 20	4-fold	**762 101 212**	0.056	103	46	40	77

Modules

Coupler/reducing module

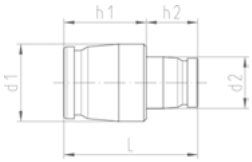




d [mm]	Code	Weight [kg]	L [mm]	h [mm]
16 - 20	**762 101 044**	0.008	43	22
25 - 32	**762 101 175**	0.023	56	28

Reducing module

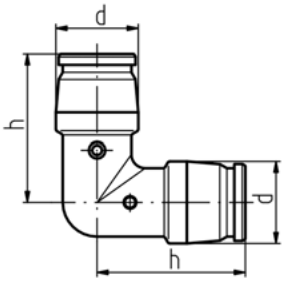




d2 [mm]	d1 [mm]	Code	Weight [kg]	L [mm]	h1 [mm]	h2 [mm]
16 - 20	25 - 32	**762 101 177**	0.018	52	32	20

Elbow module 90°

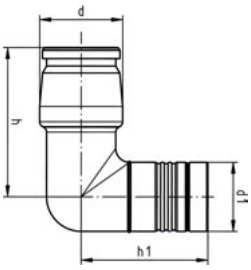




d [mm]	Code	Weight [kg]	h [mm]
16 - 20	**762 101 046**	0.013	36
25 - 32	**762 101 179**	0.042	54

Elbow module 90° - pipe outline

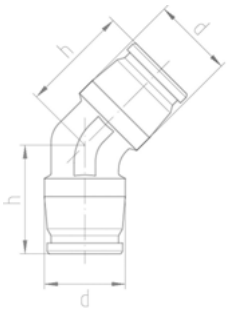




d [mm]	Code	Weight [kg]	d1 [mm]	h1 [mm]	h [mm]
16 - 20	**762 101 202**	0.013	20	40	36
25 - 32	**762 101 203**	0.030	25	46	54

Elbow module 45°

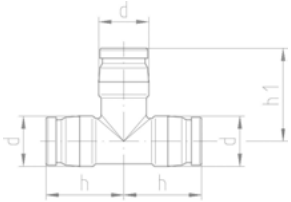




d [mm]	Code	Weight [kg]	h [mm]
25 - 32	**762 101 180**	0.033	40

T-piece module

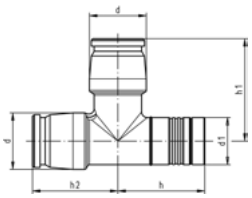




d [mm]	Code	Weight [kg]	h [mm]	h1 [mm]
16 - 20	**762 101 042**	0.017	31	37
25 - 32	**762 101 181**	0.053	45	54

T-piece module - pipe outline

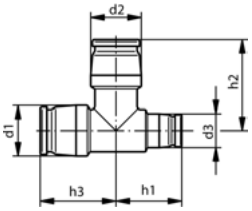




d [mm]	Code	Weight [kg]	d1 [mm]	h [mm]	h1 [mm]	h2 [mm]
16 - 20	**762 101 204**	0.017	20	41	37	32
25 - 32	**762 101 205**	0.044	25	46	54	45

T- piece module - reduced

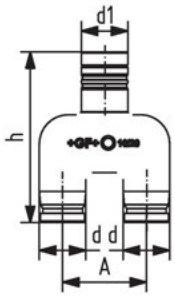




d1 [mm]	d2 [mm]	d3 [mm]	Code	Weight [kg]	H1 [mm]	H2 [mm]	H3 [mm]
25 - 32	25 - 32	16 - 20	**762 101 183**	0.045	45	54	39
25 - 32	16 - 20	25 - 32	**762 101 185**	0.044	45	48	45
25 - 32	16 - 20	16 - 20	**762 101 187**	0.036	45	48	39

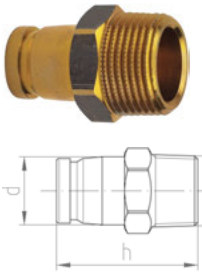
Y-Module





d [mm]	Code	Weight [kg]	d1 [mm]	h [mm]	A [mm]
16 - 20	**762 101 233**	0.032	20	74	36

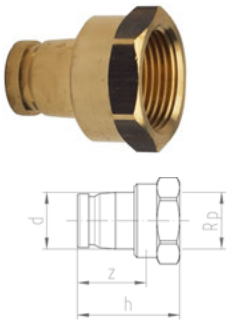
Transition modules



Transition module - male thread

* low lead

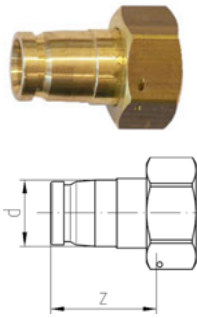
	d [mm]	R [inch]	Code	Weight [kg]	h [mm]
	16 - 20	½	**762 101 038**	0.061	42
	16 - 20	¾	**762 101 039**	0.078	43
	25 - 32	¾	**762 101 091**	0.144	51
	25 - 32	1	**762 101 092**	0.189	55
*	16 - 20	½	**762 101 265**	0.061	42
*	16 - 20	¾	**762 101 266**	0.078	43
*	25 - 32	¾	**762 101 277**	0.144	51
*	25 - 32	1	**762 101 278**	0.189	55



Transition module - female thread

* low lead

	d [mm]	Rp [inch]	Code	Weight [kg]	h [mm]	z [mm]
	16 - 20	½	**762 101 040**	0.067	36	23
	16 - 20	¾	**762 101 041**	0.087	39	24
	25 - 32	¾	**762 101 093**	0.131	45	31
	25 - 32	1	**762 101 094**	0.163	49	32
*	16 - 20	½	**762 101 267**	0.067	36	23
*	16 - 20	¾	**762 101 268**	0.087	39	24
*	25 - 32	¾	**762 101 279**	0.124	45	31
*	25 - 32	1	**762 101 280**	0.163	49	32

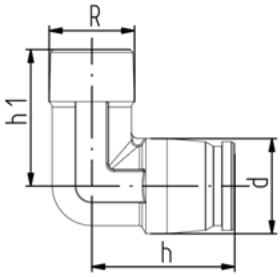


Transition union module - flat sealed

Supplied with sealing
** on request
* low lead

	d [mm]	G [inch]	Code	Weight [kg]	z [mm]
**	16 - 20	½	**762 101 088**	0.080	41
	16 - 20	¾	**762 101 056**	0.085	35
	25 - 32	¾	**762 101 095**	0.170	48
	25 - 32	1	**762 101 096**	0.233	55
	25 - 32	1 ¼	**762 101 097**	0.266	48
	25 - 32	1 ½	**762 101 098**	0.339	50
*	16 - 20	½	**762 101 276**	0.080	41
*	16 - 20	¾	**762 101 273**	0.129	35
*	25 - 32	¾	**762 101 281**	0.170	48
*	25 - 32	1	**762 101 282**	0.233	55
*	25 - 32	1 ¼	**762 101 283**	0.266	48
*	25 - 32	1 ½	**762 101 284**	0.339	50



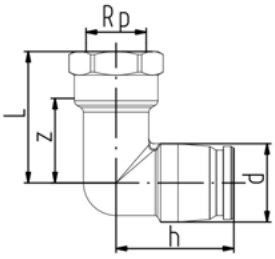


Transition elbow module - male thread

* low lead

	d [mm]	R [inch]	Code	Weight [kg]	h [mm]	h1 [mm]
	16 - 20	½	**762 101 051**	0.071	30	34
	16 - 20	¾	**762 101 052**	0.076	30	35
	25 - 32	¾	**762 101 099**	0.189	45	43
	25 - 32	1	**762 101 100**	0.214	45	45
*	16 - 20	½	**762 101 270**	0.071	30	34
*	16 - 20	¾	**762 101 271**	0.076	30	35
*	25 - 32	¾	**762 101 285**	0.189	45	43
*	25 - 32	1	**762 101 286**	0.214	45	45



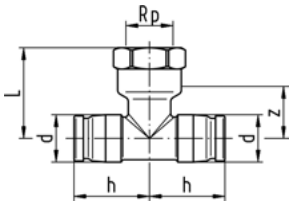


Transition elbow module - female thread

* low lead

	d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]	h [mm]	z [mm]
	16 - 20	½	**762 101 101**	0.102	38	32	25
	16 - 20	¾	**762 101 105**	0.120	40	36	22
	25 - 32	¾	**762 101 102**	0.211	50	45	33
*	16 - 20	½	**762 101 287**	0.102	38	32	25
*	16 - 20	¾	**762 101 290**	0.120	40	36	22
*	25 - 32	¾	**762 101 288**	0.211	50	45	33





Transition Tee module - female thread

* low lead

	d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]	h [mm]	z [mm]
	16 - 20	½	**762 101 055**	0.129	38	32	25
	25 - 32	¾	**762 101 103**	0.291	50	43	35
*	16 - 20	½	**762 101 272**	0.129	38	32	25
*	25 - 32	¾	**762 101 289**	0.291	50	43	35

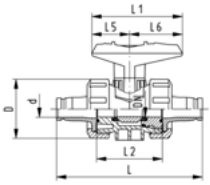
Valves



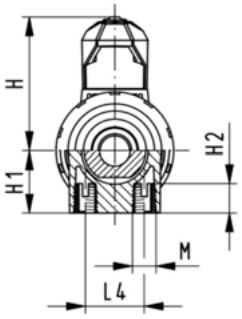
Shipbuilding ball valve type 547 with iFIT connection d16/d20

Model:

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



d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]
20	15	10	**167 547 812**	0.152



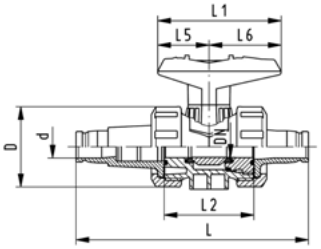
d [mm]	DN [mm]	PN [bar]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]
20	15	10	50	57	27	12	126	77	56	25	32	45	6



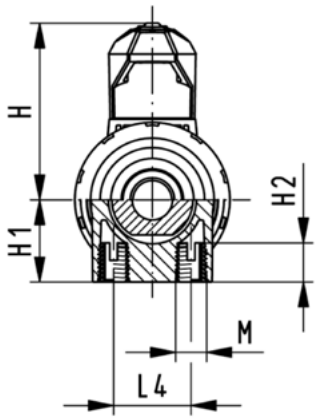
PROGEF Standard Shipbuilding ball valve type 547 With iFIT connection

Model:

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



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
20	15	10	40	**167 547 012**	0.245



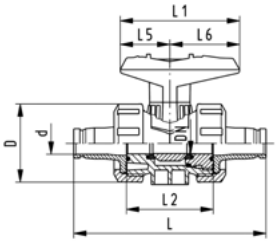
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]
20	50	57	27	12	146	77	56	25	32	45	6



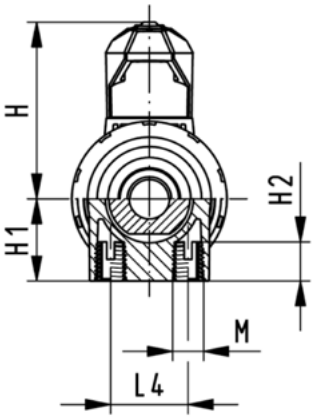
PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection

Model:

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



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
20	15	10	185	**167 547 812**	0.152



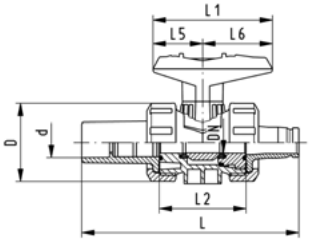
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]
20	50	57	27	12	126	77	56	25	32	45	6



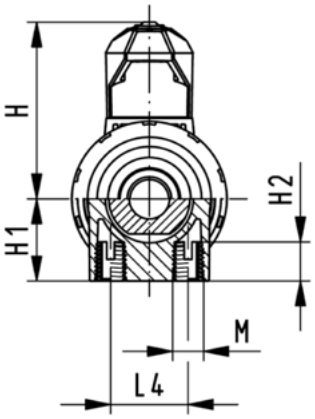
PROGEF Standard
Shipbuilding ball valve type 547
With fusion socket PB and iFIT connection

Model:

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

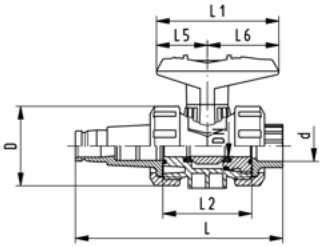


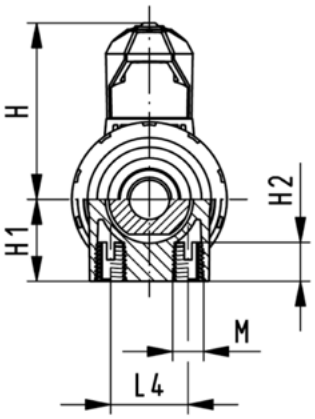
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
16	10	10	40	**167 547 311**	0.303
20	15	10	40	**167 547 312**	0.303



d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [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 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 [mm]	**DN** [mm]	**PN** [bar]	**kv-value (Δp=1 bar)** [l/min]	**EPDM Code**	**Weight** [kg]
16	10	10	40	**167 547 041**	0.244
20	15	10	40	**167 547 042**	0.242

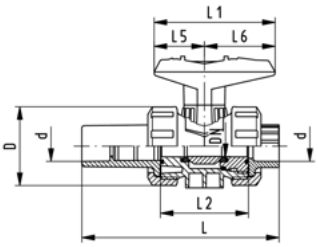
d [mm]	**D** [mm]	**H** [mm]	**H1** [mm]	**H2** [mm]	**L** [mm]	**L1** [mm]	**L2** [mm]	**L4** [mm]	**L5** [mm]	**L6** [mm]	**M** [mm]
16	50	57	27	12	130	77	56	25	32	45	6
20	50	57	27	12	131	77	56	25	32	45	6



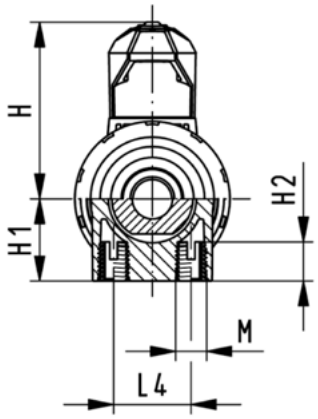
PROGEF Standard
Shipbuilding ball valve type 547
With fusion sockets PB

Model:

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

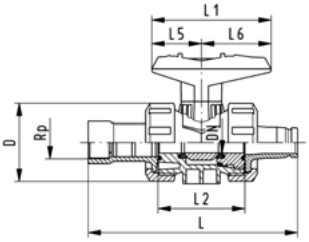


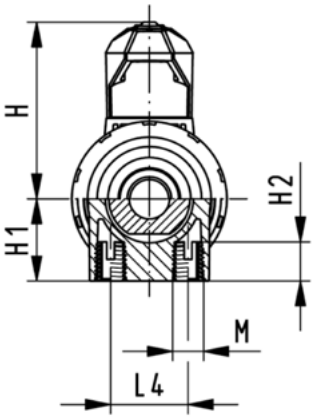
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
16	10	10	40	**167 547 341**	0.302
20	15	10	40	**167 547 342**	0.300



d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [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







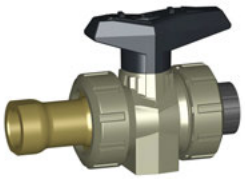
PROGEF Standard
Shipbuilding ball valve type 547
With threaded socket Rp brass and iFIT connection

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 [inch]	**DN** [mm]	**PN** [bar]	**kv-value (Δp=1 bar)** [l/min]	**EPDM Code**	**Weight** [kg]
½	15	10	40	**167 547 512**	0.327

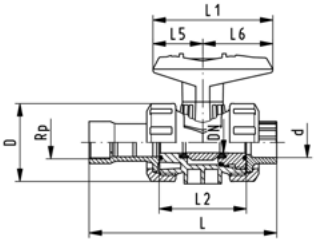
Rp [inch]	**D** [mm]	**H** [mm]	**H1** [mm]	**H2** [mm]	**L** [mm]	**L1** [mm]	**L2** [mm]	**L4** [mm]	**L5** [mm]	**L6** [mm]	**M** [mm]
½	50	57	27	12	136	77	56	25	32	45	6



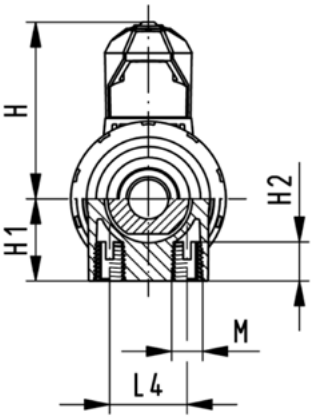
PROGEF Standard
Shipbuilding ball valve type 547
With threaded socket Rp brass and fusion socket PB

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



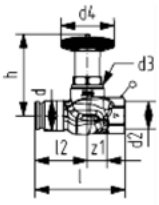
d [mm]	Rp [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
16	½	10	10	40	**167 547 541**	0.326
20	½	15	10	40	**167 547 542**	0.324



d [mm]	Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M [mm]
16	½	50	57	27	12	120	77	56	25	32	45	6
20	½	50	57	27	12	121	77	56	25	32	45	6

Manifold shut-off valve



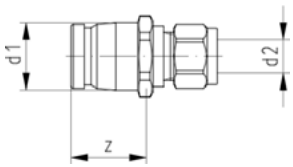


d [mm]	Code	Weight [kg]	d2 Rp [inch]	d3 G [inch]	d4 [mm]	l [mm]	l2 [mm]	h [mm]	z1 [mm]
25 - 32	**762 101 229**	0.440	¾	¾	53	90	52	82	23

Transition fittings

iFIT-copper transition module



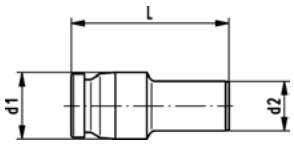


** on request
* low lead

	d1 [mm]	d2 [mm]	Code	Weight [kg]	z [mm]
	16 - 20	10	**762 101 089**	0.070	22
	16 - 20	12	**762 101 210**	0.052	19
	16 - 20	15	**762 101 211**	0.064	22
* , **	16 - 20	12	**762 101 292**	0.052	19
* , **	16 - 20	15	**762 101 293**	0.064	22

iFIT-press transition module



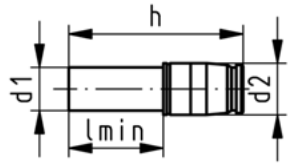


According to DIN 10312

d1 [mm]	d2 [mm]	Code	Weight [kg]	L [mm]
16 - 20	15	**762 101 190**	0.036	54
16 - 20	18	**762 101 191**	0.037	56
25 - 32	22	**762 101 192**	0.105	70
25 - 32	28	**762 101 193**	0.103	70

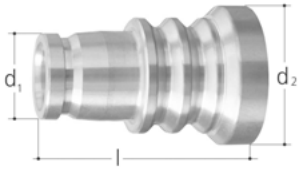
iFIT-INSTAFLEX transition module





d1 [mm]	d2 [mm]	Code	Weight [kg]	h [mm]	L min. ELF [mm]	L min. SF [mm]
16	16 - 20	**762 101 057**	0.059	84	46	30
20	16 - 20	**762 101 058**	0.068	86	48	30
25	16 - 20	**762 101 067**	0.091	94	56	33
25	25 - 32	**762 101 059**	0.143	101	56	33
32	25 - 32	**762 101 060**	0.176	101	56	35

iFIT-MT adapter



d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]
16 / 20	26	**762 101 250**	0.089	49
16 / 20	32	**762 101 251**	0.143	57
25 / 32	32	**762 101 252**	0.185	64

Transition coupler PPR-iFIT



d1 [mm]	d [mm]	Code	Weight [kg]
16 - 20	20	**760 840 741**	0.086
16 - 20	25	**760 840 742**	0.088
25 - 32	25	**760 840 743**	0.134
25 - 32	32	**760 840 744**	0.137



Transition saddle PPR-iFIT

d1 [mm]	d [mm]	Code	Weight [kg]
16 - 20	40	**760 840 751**	0.110
16 - 20	50	**760 840 753**	0.110
25 - 32	50	**760 840 754**	0.130
16 - 20	63	**760 840 755**	0.110
25 - 32	63	**760 840 756**	0.130
16 - 20	75	**760 840 757**	0.110
25 - 32	75	**760 840 758**	0.130
16 - 20	90	**760 840 759**	0.110
25 - 32	90	**760 840 760**	0.130
16 - 20	110	**760 840 761**	0.110
25 - 32	110	**760 840 762**	0.130

Tools



Tool set for ML- and PB pipes

d [mm]	Code	Weight [kg]
16 / 20	**762 101 122**	1.163
25 / 32	**762 101 133**	1.371



Chamfering tool for ML- and PB pipes

d [mm]	Code	Weight [kg]
16	**762 101 116**	0.188
20	**762 101 120**	0.205
25	**762 101 125**	0.252
32	**762 101 132**	0.323



Pipe shears d16-d20 for ML- and PB pipes

Also for cutting of protective pipe

d [mm]	Code	Weight [kg]
16 / 20	**762 101 108**	0.322
Spare blades	**762 101 109**	0.014



Pipe cutter d16-d32 for ML- and PB pipes

d [mm]	Code	Weight [kg]
16 - 32	**762 101 117**	0.386
Spare blades	**762 101 118**	0.005



Outside pipe bending tool for ML pipes

d [mm]	Code	Weight [kg]
16	**762 101 112**	0.442
20	**762 101 113**	0.541
25	**762 101 114**	0.636
32	**762 101 115**	0.798



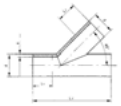
Plug module-side

With air-vent screw 1/2"

d [mm]	Code	Weight [kg]
16 - 20	**762 101 207**	0.140
25 - 32	**762 101 208**	0.196

ecoFIT

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Pressure/temperature diagram for PE

PE 100

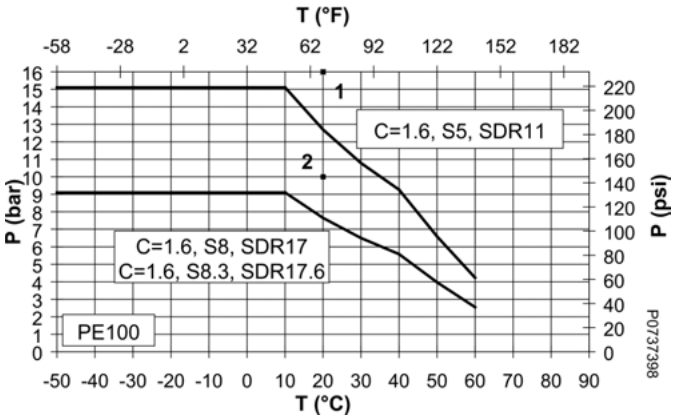
The following pressure/temperature diagram for PE100 pipes and fittings is valid for a lifetime of 25 years.

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

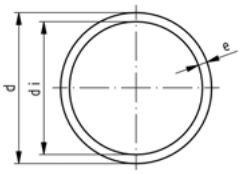
2 Design Factor C=1.25, S8.3, SDR17.6 and S8, SDR17 for 20 °C water, 50 years

P Permissible pressure in bar, psi

T Temperature in °C, °F

ecoFIT pipes





ecoFIT pipe SDR11

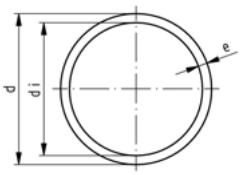
Model:

- Material: PE100
- 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 [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
*	20	16	**193 017 156**	0.113	1,9	16.2
*	25	16	**193 017 157**	0.173	2,3	20.4
	32	16	**193 017 158**	0.274	2,9	26.2
	40	16	**193 017 159**	0.434	3,7	32.6
	50	16	**193 017 160**	0.673	4,6	40.8
	63	16	**193 017 161**	1.060	5,8	51.4
	75	16	**193 017 162**	1.480	6,8	61.4
	90	16	**193 017 163**	2.140	8,2	73.6
	110	16	**193 017 164**	3.180	10,0	90.0
	125	16	**193 017 165**	4.120	11,4	102.8
	140	16	**193 017 166**	5.130	12,7	114.6
	160	16	**193 017 167**	6.740	14,6	130.8
	180	16	**193 017 168**	8.510	16,4	147.2
	200	16	**193 017 169**	10.500	18,2	163.6
	225	16	**193 017 170**	13.300	20,5	184.0
	250	16	**193 017 171**	16.300	22,7	204.6
	280	16	**193 017 172**	20.500	25,4	229.2
	315	16	**193 017 173**	25.900	28,6	257.8
	355	16	**193 017 174**	32.900	32,2	290.6
	400	16	**193 017 175**	41.700	36,3	327.4
	450	16	**193 017 176**	52.800	40,9	368.2
	500	16	**193 017 177**	65.200	45,4	409.2





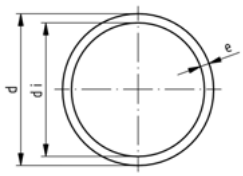
ecoFIT pipe SDR17.6

Model:

- Material: PE100
- Colour: RAL 9011 graphite black
- Dimension: DIN 8074
- Pipe length: 5m, with plain ends

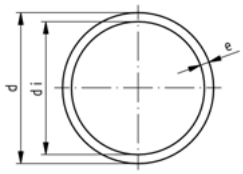
d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
25	10	**193 017 107**	0.139	1.8	21.4
32	10	**193 017 108**	0.181	1.8	28.4
40	10	**193 017 109**	0.288	2.3	35.4
50	10	**193 017 110**	0.445	2.9	44.2
63	10	**193 017 111**	0.695	3.6	55.8
75	10	**193 017 112**	0.987	4.3	66.4
90	10	**193 017 113**	1.400	5.1	79.8
110	10	**193 017 114**	2.100	6.3	97.4
125	10	**193 017 115**	2.690	7.1	110.8
140	10	**193 017 116**	3.370	8.0	124.0
160	10	**193 017 117**	4.400	9.1	141.8
180	10	**193 017 118**	5.540	10.2	159.6
200	10	**193 017 119**	6.860	11.4	177.2
225	10	**193 017 120**	8.640	12.8	199.4
250	10	**193 017 121**	10.700	14.2	221.6
280	10	**193 017 122**	13.300	15.9	248.2
315	10	**193 017 123**	16.900	17.9	279.2

table continued next page



d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
355	10	**193 017 124**	21.400	20.1	314.8
400	10	**193 017 125**	27.200	22.7	354.6
450	10	**193 017 126**	34.300	25.5	400.0
500	10	**193 017 127**	42.500	28.4	443.2





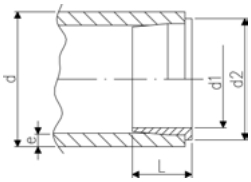
ecoFIT pipe SDR7.4

Model:

- Material: PE100
- Dimension: DIN 8074
- Colour: RAL 9011 graphite black
- Length: 5 m
- for socket fusion without stiffeners
- Not suitable for butt fusion

d [mm]	Code	Weight [kg/m]	e [mm]	di [mm]
20	**193 017 206**	0.156	2,8	14.4
25	**193 017 207**	0.243	3,5	18.0





ecoFIT stiffener

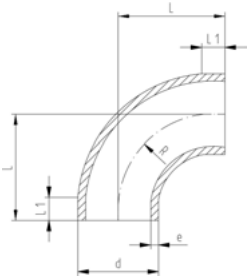
Model:

- Material: PE100
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing suring the heating and jointing process.

d [mm]	Code	Weight [kg/m]	L [mm]	e [mm]	d1 [mm]	D2 [mm]	d2 [mm]
20	**733 900 006**	0.001	10	1,9	14	18	18
25	**733 900 007**	0.001	11	2,3	18	22	23

ecoFIT butt fusion fittings





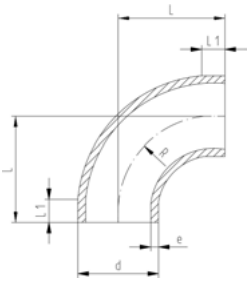
ecoFIT bend 90° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	R [mm]	e [mm]
20	IR	**753 018 706**	0.007	38	23	15	1.9
25	IR	**753 018 707**	0.013	42	23	19	2.3
32	IR	**753 018 708**	0.025	46	22	24	2.9
40	IR	**753 018 709**	0.041	51	21	30	3.7
50	IR	**753 018 710**	0.065	58	21	37	4.6
63	IR	**753 018 711**	0.124	66	21	45	5.8
75	IR	**753 018 712**	0.246	100	20	90	6.8
90	IR	**753 018 713**	0.355	100	20	90	8.2
110	IR	**753 018 714**	0.757	141	25	130	10.0
125	IR	**753 018 715**	0.818	125	28	116	11.4
140	IR	**753 018 716**	1.148	140	33	116	12.7
160	IR	**753 018 717**	1.699	160	33	151	14.6
180	IR	**753 018 718**	2.394	180	33	171	16.4
200	IR	**753 018 719**	3.264	200	33	190	18.2
225	IR	**753 018 720**	4.535	220	33	210	20.5
250		**753 018 621**	6.713	256	48	232	22.7
280		**753 018 622**	9.885	282	48	262	25.4
315		**753 018 623**	14.158	321	48	297	28.6
355		**753 021 024**	17.200	380	38	355	32.3
400		**753 021 025**	31.100	434	41	400	36.3
450		**753 021 026**	38.300	445	49	450	40.9
500		**753 021 027**	47.300	450	49	500	45.5





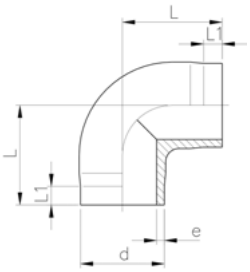
ecoFIT bend 90° SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	R [mm]	e [mm]
50	IR	**753 018 635**	0.052	58	21	37	2.9
63	IR	**753 018 636**	0.087	66	21	45	3.6
75	IR	**753 018 737**	0.176	100	20	90	4.3
90	IR	**753 018 738**	0.245	100	20	90	5.1
110	IR	**753 018 739**	0.513	141	20	130	6.3
125	IR	**753 018 515**	0.556	125	28	116	7.3
140	IR	**753 018 516**	0.785	140	33	131	8.2
160	IR	**753 018 517**	1.156	160	33	151	9.4
180	IR	**753 018 518**	1.619	180	33	171	10.6
200	IR	**753 018 519**	2.208	200	33	190	11.7
225	IR	**753 018 520**	3.039	220	33	210	12.9
250		**753 018 521**	4.645	256	48	232	14.2
280		**753 018 522**	7.020	280	48	262	15.9
315		**753 018 523**	10.099	321	48	297	17.9
355		**753 020 824**	11.300	340	38	355	21.1
400		**753 020 825**	15.700	345	41	400	23.7
450		**753 020 826**	25.868	449	49	450	25.8
500		**753 020 827**	35.000	449	49	500	32.0





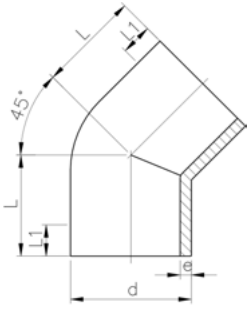
ecoFIT elbow 90° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
20	IR	**753 108 606**	0.009	38	25	1,9
25	IR	**753 108 607**	0.013	42	26	2,3
32	IR	**753 108 608**	0.026	46	27	2,9
40	IR	**753 108 609**	0.047	51	22	3,7
50	IR	**753 108 610**	0.086	58	23	4,6
63	IR	**753 108 611**	0.150	66	21	5,8





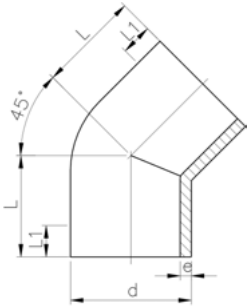
ecoFIT elbow 45° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]	PF
20	IR	**753 158 606**	0.007	32	24	1,9	2 68 240 008
25	IR	**753 158 607**	0.013	34	25	2,3	2 68 240 008
32	IR	**753 158 608**	0.019	36	25	2,9	2 68 240 008
40	IR	**753 158 609**	0.036	39	25	3,7	2 68 240 008
50	IR	**753 158 610**	0.059	42	26	4,6	2 68 240 008
63	IR	**753 158 611**	0.103	47	29	5,8	2 68 240 008
75	IR	**753 158 612**	0.146	49	29	6,8	2 68 240 008
90	IR	**753 158 613**	0.241	57	34	8,2	2 68 240 008
110	IR	**753 158 614**	0.442	70	43	10,0	2 68 240 008
125	IR	**753 158 615**	0.638	79	48	11,4	2 68 240 003
140	IR	**753 158 616**	0.902	88	55	12,7	2 68 240 003
160	IR	**753 158 617**	1.340	100	60	14,6	2 68 240 003
200	IR	**753 158 619**	2.612	124	75	18,2	2 68 240 003
225	IR	**753 158 620**	3.638	140	85	20,5	2 68 240 003





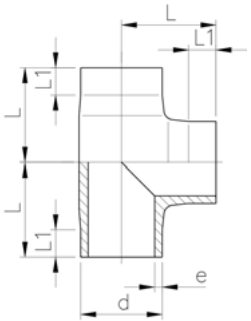
ecoFIT elbow 45° SDR17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]	PF
50	IR	**753 158 535**	0.045	42	26	2,9	2 68 240 008
63	IR	**753 158 536**	0.091	47	29	3,6	2 68 240 008
75	IR	**753 158 412**	0.125	49	29	4,7	2 68 240 008
90	IR	**753 158 413**	0.198	57	34	5,6	2 68 240 028
110	IR	**753 158 414**	0.375	70	43	6,9	2 68 240 028
125	IR	**753 158 540**	0.542	79	48	7,1	2 68 240 028
140	IR	**753 158 541**	0.784	88	55	8,0	2 68 240 023
160	IR	**753 158 542**	1.190	100	60	9,1	2 68 240 023
200	IR	**753 158 544**	2.331	124	75	11,4	2 68 240 023
225	IR	**753 158 545**	3.282	140	85	12,8	2 68 240 023





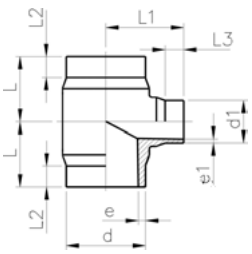
ecoFIT tee 90° equal SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
20	IR	**753 208 606**	0.013	38	24	1,9
25	IR	**753 208 607**	0.021	42	26	2,3
32	IR	**753 208 608**	0.042	46	26	2,9
40	IR	**753 208 609**	0.065	51	22	3,7
50	IR	**753 208 610**	0.111	58	22	4,6
63	IR	**753 208 611**	0.202	66	21	5,8
75	IR	**753 208 612**	0.312	75	20	6,8
90	IR	**753 208 613**	0.553	90	20	8,2
110	IR	**753 208 614**	1.002	110	20	10,0
125	IR	**753 208 615**	1.509	125	25	11,4
140	IR	**753 208 616**	2.105	140	28	12,7
160	IR	**753 208 617**	3.085	160	28	14,6
180	IR	**753 208 668**	5.062	190	70	16,4
200	IR	**753 208 619**	5.982	200	35	18,2
225	IR	**753 208 620**	8.090	220	35	20,5
250		**753 208 671**	13.326	272	90	22,7
280		**753 208 672**	20.458	313	108	25,4
315		**753 208 673**	27.400	348	114	28,6
355		**753 221 024**	30.500	352	97	32,3
400		**753 221 025**	39.000	337	100	36,4
450		**753 221 026**	45.000	419	137	40,9
500		**753 221 027**	75.500	465	163	45,5





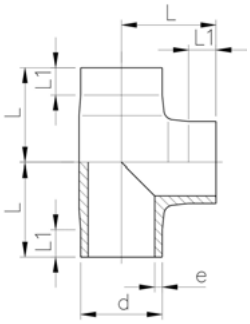
ecoFIT tee 90° reduced SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
63	32	IR	**753 208 351**	0.161	65	70	25	25	5,8	2,9
63	50	IR	**753 208 352**	0.180	65	70	25	25	5,8	4,6
75	32	IR	**753 208 353**	0.255	70	75	25	25	6,8	2,9
75	50	IR	**753 208 354**	0.265	70	75	25	25	6,8	4,6
75	63	IR	**753 208 355**	0.278	70	75	25	25	6,8	5,8
90	50	IR	**753 208 357**	0.435	80	85	25	25	8,2	4,6
90	63	IR	**753 208 358**	0.448	80	85	25	25	8,2	5,8
90	75	IR	**753 208 359**	0.462	80	85	25	25	8,2	6,8
110	32	IR	**753 208 360**	0.685	90	95	30	25	10,0	2,9
110	50	IR	**753 208 361**	0.694	90	95	30	25	10,0	4,6
110	63	IR	**753 208 362**	0.709	90	95	30	25	10,0	5,8
110	75	IR	**753 208 363**	0.717	90	95	30	25	10,0	6,8
110	90	IR	**753 208 364**	0.734	90	95	30	25	10,0	8,2
160	63	IR	**753 208 371**	2.269	142	135	50	30	14,6	5,8
160	75	IR	**753 208 372**	2.255	142	135	50	30	14,6	6,8
160	90	IR	**753 208 373**	2.317	142	135	50	30	14,6	8,2
160	110	IR	**753 208 374**	2.353	142	135	50	30	14,6	10,0
225	90	IR	**753 208 388**	4.759	155	165	40	30	20,5	8,2
225	110	IR	**753 208 389**	4.796	155	165	40	30	20,5	10,0
225	160	IR	**753 208 391**	4.854	155	165	40	30	20,5	14,6
250	110		**753 221 031**	8.199	228	197	140	37	22,7	10,0
250	160		**753 221 032**	8.564	229	219	117	60	22,7	14,6





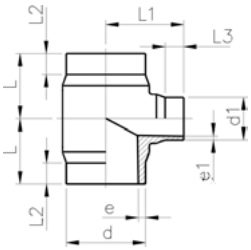
ecoFIT tee 90° equal SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
50	IR	**753 208 535**	0.080	59	26	2,9
63	IR	**753 208 536**	0.187	71	25	3,6
75	IR	**753 208 412**	0.232	74	20	4,8
90	IR	**753 208 413**	0.408	90	20	5,6
110	IR	**753 208 414**	0.724	110	20	6,9
125	IR	**753 208 540**	1.175	124	27	7,1
140	IR	**753 208 541**	1.623	141	33	8,0
160	IR	**753 208 542**	2.431	160	40	9,1
180	IR	**753 208 543**	3.756	190	70	10.2
200	IR	**753 208 544**	5.243	210	70	11,4
225	IR	**753 208 545**	6.030	248	80	12,8
250		**753 208 546**	9.964	272	90	14,2
280		**753 208 547**	14.265	313	108	15,9
315		**753 208 548**	22.284	348	114	17,9
355		**753 220 824**	22.593	330	95	21,1
400		**753 220 825**	30.500	345	104	23,7
450		**753 220 826**	38.000	419	137	26,7
500		**753 220 827**	52.600	460	159	29,7





ecoFIT tee 90° reduced SDR17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

* Branch SDR11

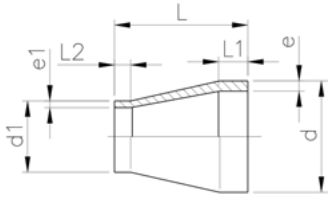
d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
63	32	IR	**753 208 301**	0.163	65	70	25	25	3,6	2,9
63	50	IR	**753 208 302**	0.171	65	70	25	25	3,6	2,9
75	32	IR	**753 208 303**	0.231	70	75	25	25	4,3	2,9
75	50	IR	**753 208 304**	0.250	70	75	25	25	4,3	2,9
75	63	IR	**753 208 305**	0.263	70	75	25	25	4,3	3,6
90	50	IR	**753 208 307**	0.411	80	85	25	25	5,1	2,9
90	63	IR	**753 208 308**	0.329	80	85	25	25	5,1	3,6
90	75	IR	**753 208 309**	0.339	80	85	25	25	5,1	4,3
110	32	IR	**753 208 310**	0.643	90	95	30	25	6,3	2,9
110	50	IR	**753 208 311**	0.655	90	95	30	25	6,3	2,9
110	63	IR	**753 208 312**	0.516	90	95	30	25	6,3	3,6
110	75	IR	**753 208 313**	0.521	90	95	30	25	6,3	4,3
110	90	IR	**753 208 314**	0.529	90	95	30	25	6,3	5,1
160	63	IR	**753 208 321**	2.103	142	135	50	30	9,1	3,6
160	75	IR	**753 208 322**	2.142	142	135	50	30	9,1	4,3
160	90	IR	**753 208 323**	1.668	142	135	50	30	9,1	5,1
160	110	IR	**753 208 324**	1.687	142	135	50	30	9,1	6,3
225	90	IR	**753 208 338**	3.439	155	165	40	30	12,8	5,1
225	110	IR	**753 208 339**	3.448	155	165	40	30	12,8	6,3
225	160	IR	**753 208 341**	3.471	155	165	40	30	12,8	9,1



ecoFIT reducer SDR11

Model:

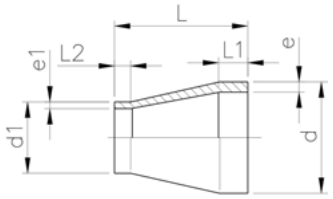
- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100



- Up to d 315 injection moulded, above machined

d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
25	20	IR	**753 908 637**	0.008	50	20	18	2,3	1,9
32	20	IR	**753 908 642**	0.010	50	20	18	2,9	1,9
32	25	IR	**753 908 641**	0.006	50	20	18	2,9	2,3
40	20	IR	**753 908 648**	0.017	58	20	20	3,7	1,9
40	25	IR	**753 908 647**	0.017	55	20	18	3,7	2,3
40	32	IR	**753 908 646**	0.019	55	20	18	3,7	2,9
50	25	IR	**753 908 654**	0.025	60	20	18	4,6	2,3
50	32	IR	**753 908 653**	0.026	60	20	18	4,6	2,9
50	40	IR	**753 908 652**	0.032	60	20	18	4,6	3,7
63	32	IR	**753 908 660**	0.046	65	20	18	5,8	2,9
63	40	IR	**753 908 659**	0.051	65	20	18	5,8	3,7
63	50	IR	**753 908 658**	0.056	65	20	18	5,8	4,6
75	40	IR	**753 908 666**	0.070	68	20	20	6,8	3,7
75	50	IR	**753 908 665**	0.074	65	20	18	6,8	4,6
75	63	IR	**753 908 664**	0.081	65	20	18	6,8	5,8
90	63	IR	**753 908 671**	0.125	75	21	17	8,2	5,8
90	75	IR	**753 908 670**	0.132	75	22	17	8,2	6,8
110	75	IR	**753 908 677**	0.219	90	28	17	10,0	6,8
110	90	IR	**753 908 676**	0.240	90	28	20	10,0	8,2
125	110	IR	**753 908 680**	0.350	100	32	26	11,4	10,0
140	110	IR	**753 908 685**	0.437	110	35	28	12,7	10,0
140	125	IR	**753 908 684**	0.474	110	35	28	12,7	11,4
160	110	IR	**753 908 690**	0.612	120	40	25	14,6	10,0
160	140	IR	**753 908 688**	0.674	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**	0.991	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**	0.963	136	45	35	16,4	12,7
180	160	IR	**753 908 881**	1.094	136	45	40	16,4	14,6
200	160	IR	**753 908 692**	1.247	150	50	35	18,2	14,6
200	180	IR	**753 908 883**	1.419	151	50	45	18,2	16,4
225	110	IR	**753 908 695**	1.559	171	55	45	20,5	10,0
225	160	IR	**753 908 696**	1.643	160	55	37	20,5	14,6
225	180	IR	**753 908 885**	1.999	171	55	45	20,5	16,4
225	200	IR	**753 908 697**	1.844	160	55	48	20,5	18,2
250	160		**753 908 890**	2.416	194	60	40	22,7	14,6
250	180		**753 900 001**	2.513	175	60	55	22,7	16,4
250	200		**753 900 002**	2.450	180	60	60	22,7	18,2
250	225		**753 908 887**	2.766	182	60	55	22,7	20,5
280	200		**753 900 004**	3.540	205	70	50	25,4	18,2
280	225		**753 908 892**	1.943	105	30	20	25,4	20,5
280	250		**753 908 891**	1.802	70	30	18	25,4	22,7
315	200		**753 900 007**	3.996	225	80	50	28,6	20,5
315	225		**753 908 897**	3.491	130	30	30	28,6	20,5
315	250		**753 908 896**	2.379	100	30	20	28,6	22,7
315	280		**753 908 895**	1.684	63	30	18	28,6	25,4
355	225		**753 900 011**	4.700	245	90	55	32,3	20,5
355	250		**753 900 012**	4.400	245	90	60	32,3	22,7
355	280		**753 900 013**	4.100	245	90	70	32,3	25,4
355	315		**753 900 014**	3.700	245	90	80	32,3	28,6
400	225		**753 900 015**	7.963	260	95	60	36,4	20,5
400	250		**753 900 016**	6.800	260	95	70	36,4	22,7
400	280		**753 900 017**	6.200	260	95	70	36,4	25,4
400	315		**753 900 018**	10.829	260	95	80	36,4	28,6
400	355		**753 900 019**	4.800	260	95	90	36,4	32,3
450	280		**753 900 020**	9.000	230	60	70	40,9	25,4
450	315		**753 900 021**	8.000	230	60	80	40,9	28,6
450	355		**753 900 022**	7.400	230	60	90	40,9	32,3

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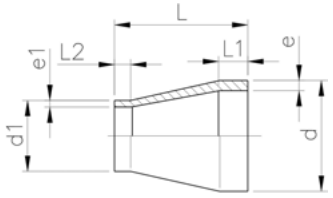
d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
450	400		**753 900 023**	6.600	230	60	95	40,9	36,4
500	315		**753 900 024**	12.000	230	60	80	45,5	28,6
500	355		**753 900 025**	10.800	230	60	90	45,5	32,3
500	400		**753 900 026**	10.000	230	60	95	45,5	36,4
500	450		**753 900 027**	8.300	200	60	60	45,5	40,9



ecoFIT reducer SDR17/17.6

Model:

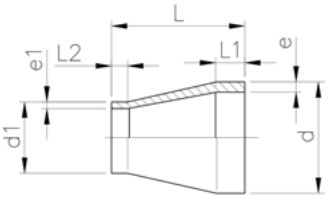
- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100



- Up to d 315 injection moulded, above machined

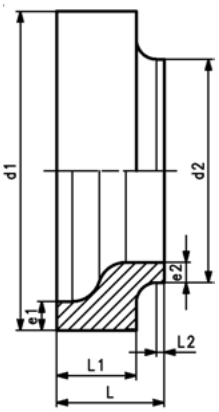
d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
50	40	IR	**753 908 926**	0.024	55	12	12	2,9	2,3
63	40	IR	**753 908 927**	0.036	65	16	12	3,6	2,3
63	50	IR	**753 908 928**	0.039	65	16	12	3,6	2,9
75	40	IR	**753 908 904**	0.041	71	19	12	4,3	2,3
75	50	IR	**753 908 465**	0.049	65	20	20	4,3	2,9
75	63	IR	**753 908 464**	0.056	65	20	20	4,3	3,6
90	63	IR	**753 908 471**	0.083	75	20	19	5,1	3,6
90	75	IR	**753 908 470**	0.092	75	20	20	5,1	4,3
110	75	IR	**753 908 477**	0.157	89	28	18	6,3	4,3
110	90	IR	**753 908 476**	0.164	90	28	20	6,3	5,1
125	110	IR	**753 908 912**	0.272	108	32	28	7,1	6,3
140	110	IR	**753 908 917**	0.330	115	35	28	8,0	6,3
140	125	IR	**753 908 916**	0.374	115	35	32	8,0	7,1
160	110	IR	**753 908 922**	0.456	124	40	28	9,1	6,3
160	140	IR	**753 908 920**	0.499	124	40	35	9,1	8,0
180	90	IR	**753 908 975**	0.897	157	45	22	10,2	5,1
180	110	IR	**753 908 976**	0.690	157	45	28	10,2	6,3
180	125	IR	**753 908 977**	0.616	136	45	32	10,2	7,1
180	140	IR	**753 908 978**	0.647	136	45	35	10,2	8,0
180	160	IR	**753 908 979**	0.713	136	45	40	10,2	9,1
200	160	IR	**753 908 931**	0.860	145	50	40	11,4	9,1
200	180	IR	**753 908 981**	0.971	151	50	45	11,4	10,2
225	110	IR	**753 908 938**	1.382	160	55	35	12,8	6,3
225	160	IR	**753 908 933**	1.120	160	55	40	12,8	9,1
225	180	IR	**753 908 985**	1.364	171	55	45	12,8	10,2
225	200	IR	**753 908 932**	1.234	171	55	50	12,8	11,4
250	160		**753 908 939**	1.601	194	60	40	14,2	9,1
250	180		**753 902 801**	1.690	175	60	55	14,8	10,7
250	200		**753 902 802**	1.899	180	60	60	14,8	11,9
250	225		**753 908 937**	1.853	182	60	55	14,2	12,8
280	200		**753 902 804**	2.585	205	70	50	16,6	11,9
280	225		**753 908 944**	1.423	105	30	20	15,9	12,8
280	250		**753 908 943**	1.002	70	30	18	15,9	14,2
315	200		**753 902 807**	2.907	225	80	50	18,7	11,9
315	225		**753 908 950**	2.154	130	30	20	17,9	12,8
315	250		**753 908 949**	1.702	100	30	20	17,9	14,2
315	280		**753 908 999**	1.598	63	30	18	17,9	15,9
355	225		**753 902 811**	4.700	245	90	55	21,1	13,4
355	250		**753 902 812**	9.425	245	90	60	21,1	14,8
355	280		**753 902 813**	4.280	245	90	70	21,1	16,6
355	315		**753 902 814**	3.700	245	90	80	21,1	18,7
400	225		**753 902 815**	4.600	260	95	60	23,7	13,4
400	250		**753 902 816**	4.400	260	95	70	23,7	14,8
400	280		**753 902 817**	5.922	260	95	70	23,7	16,6
400	315		**753 902 818**	3.520	260	95	80	23,7	18,7
400	355		**753 902 819**	7.163	260	95	90	23,7	21,1
450	280		**753 902 820**	6.340	230	60	70	26,7	16,6
450	315		**753 902 821**	5.400	230	60	80	26,7	18,7
450	355		**753 902 822**	5.000	230	60	90	26,7	21,1

table continued next page



d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
450	400		**753 902 823**	8.098	230	60	95	26,7	23,7
500	315		**753 902 824**	8.100	230	60	80	29,7	18,7
500	355		**753 902 825**	8.424	230	60	90	29,7	21,1
500	400		**753 902 826**	7.974	230	60	95	29,7	23,7
500	450		**753 902 827**	5.500	200	60	60	29,7	26,7
560	400		**753 902 828**	9.900	230	60	95	33,2	23,7
560	450		**753 902 829**	8.600	200	60	60	33,2	26,7
560	500		**753 902 830**	7.600	200	60	60	33,2	29,7
630	400		**753 902 831**	15.100	230	60	95	37,4	23,7
630	450		**753 902 832**	13.700	200	60	60	37,4	26,7
630	500		**753 902 833**	12.000	200	60	60	37,4	29,7
630	560		**753 902 834**	9.800	200	60	60	37,4	33,2





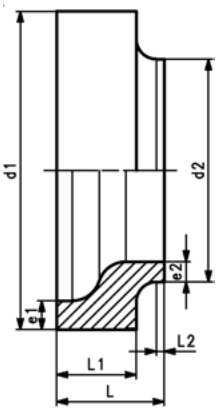
ecoFIT flush style reducer SDR11

Model:

- Material: PE100
- Flush style design
- Conventional butt-welding according to DVS 2207 part 11
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 [mm]	d2 [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
355	225	**753 909 809**	5.230	130	95	10.0	32.2	20.5
355	250	**753 909 810**	3.752	115	80	10.0	32.3	22.7
355	280	**753 909 811**	4.066	115	80	10.0	32.3	25.4
355	315	**753 909 812**	4.149	115	80	15.0	32.3	28.6
400	225	**753 909 816**	7.964	145	110	10.0	36.3	20.5
400	250	**753 909 817**	6.861	135	100	10.0	36.4	22.7
400	280	**753 909 818**	6.679	135	100	10.0	36.4	25.4
400	315	**753 909 819**	6.460	135	100	10.0	36.4	28.6
400	355	**753 909 820**	6.101	135	100	13.0	36.4	32.3
450	225	**753 909 822**	11.965	165	125	10.0	40.9	20.5
450	250	**753 909 823**	11.087	160	120	10.0	40.9	22.7
450	280	**753 909 824**	9.604	150	100	15.0	40.9	25.4
450	315	**753 909 825**	9.091	150	100	15.0	40.9	28.6
450	355	**753 909 826**	8.656	150	100	15.0	40.9	32.3
450	400	**753 909 827**	8.369	150	100	15.0	40.9	36.4
500	225	**753 909 829**	16.053	180	130	10.0	45.4	20.5
500	250	**753 909 830**	15.784	180	130	10.0	45.4	22.7
500	280	**753 909 831**	14.691	175	125	10.0	45.4	25.4
500	315	**753 909 832**	10.921	165	115	10.0	45.5	28.6
500	355	**753 909 833**	11.321	165	115	10.0	45.5	32.3
500	400	**753 909 834**	12.453	165	115	10.0	45.5	36.4
500	450	**753 909 835**	12.640	165	115	25.0	45.5	40.9
560	315	**753 909 836**	22.204	210	160	10.0	50.8	28.6
560	355	**753 909 837**	19.976	200	150	10.0	50.8	32.2
560	400	**753 909 838**	17.215	185	135	10.0	50.8	36.3
560	450	**753 909 839**	14.263	165	115	10.0	50.8	40.9
560	500	**753 909 840**	13.955	165	115	10.0	50.8	45.4
630	315	**753 909 841**	29.984	220	170	10.0	57.2	28.6
630	355	**753 909 842**	29.376	220	170	10.0	57.2	32.2
630	400	**753 909 843**	26.541	210	160	10.0	57.2	36.3
630	450	**753 909 844**	23.034	195	145	10.0	57.2	40.9
630	500	**753 909 845**	19.243	175	125	10.0	57.2	45.4
630	560	**753 909 846**	17.438	165	115	20.0	57.2	50.8



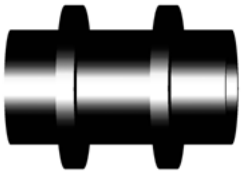


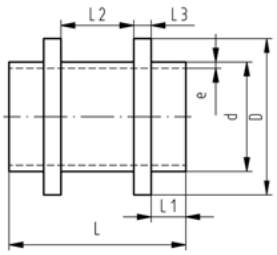
ecoFIT flush style reducer SDR17/17.6

Model:

- Material: PE100
- Flush style design
- Conventional butt-welding according to DVS 2207 part 11
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 [mm]	d2 [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
355	225	**753 909 859**	3.922	120	85	10	21.1	13.4
355	250	**753 909 860**	3.318	115	80	10	21.1	14.8
355	280	**753 909 861**	3.134	115	80	10	21.1	16.6
355	315	**753 909 862**	2.716	115	80	15	21.1	18.7
400	225	**753 909 866**	6.299	135	100	10	23.7	13.4
400	250	**753 909 867**	5.754	135	100	10	23.7	14.8
400	280	**753 909 868**	5.468	135	100	10	23.7	16.6
400	315	**753 909 869**	5.125	135	100	10	23.7	18.7
400	355	**753 909 870**	4.614	135	100	13	23.7	21.1
450	225	**753 909 872**	9.323	150	110	10	26.7	13.4
450	250	**753 909 873**	9.000	150	110	10	27.7	14.8
450	280	**753 909 874**	8.066	150	110	15	26.7	16.6
450	315	**753 909 875**	7.354	150	110	15	26.7	18.7
450	355	**753 909 876**	6.724	150	110	15	26.7	21.1
450	400	**753 909 877**	6.238	150	110	15	26.7	23.7
500	225	**753 909 879**	12.120	165	115	10	29.7	13.4
500	250	**753 909 880**	11.834	165	115	10	29.7	14.8
500	280	**753 909 881**	11.459	165	115	10	29.7	16.6
500	315	**753 909 882**	10.502	165	115	10	29.7	18.7
500	355	**753 909 883**	10.154	165	115	10	29.7	21.1
500	400	**753 909 884**	8.642	165	115	10	29.7	23.7
500	450	**753 909 885**	7.978	165	115	25	29.7	26.7
560	315	**753 909 886**	19.966	210	160	10	33.2	18.7
560	355	**753 909 887**	17.764	200	150	10	33.2	21.1
560	400	**753 909 888**	15.168	185	135	10	33.2	23.7
560	450	**753 909 889**	11.650	165	115	10	33.2	26.7
560	500	**753 909 890**	10.623	165	115	20	33.2	29.7
630	315	**753 909 891**	27.625	220	170	10	37.4	18.7
630	355	**753 909 892**	26.454	220	170	10	37.4	21.1
630	400	**753 909 893**	23.648	210	160	10	37.4	23.7
630	450	**753 909 894**	19.957	195	145	10	37.4	26.7
630	500	**753 909 895**	15.910	175	125	10	37.4	29.7
630	560	**753 909 896**	13.272	165	115	20	37.4	33.2





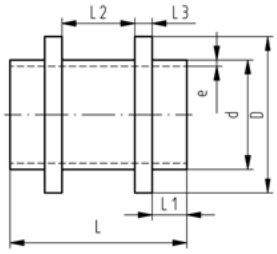
ecoFIT fixpoint fitting SDR11

Model:

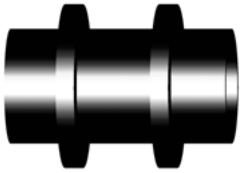
- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- Machined
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

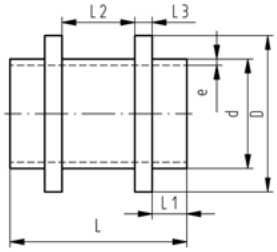
d [mm]	FM	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	**753 665 558**	0.182	90	122	30	42	10	5.8
75	IR	**753 665 559**	0.265	110	122	30	42	10	6.8
90	IR	**753 665 560**	0.357	125	122	30	42	10	8.2
110	IR	**753 665 561**	0.610	140	142	30	52	15	10.0
125	IR	**753 665 562**	0.811	160	152	35	52	15	11.4
140	IR	**753 665 563**	1.068	180	162	40	52	15	12.7
160	IR	**753 665 564**	1.349	200	162	40	52	15	14.6
180	IR	**753 665 565**	2.001	225	182	45	52	20	16.4
200	IR	**753 665 566**	2.469	250	182	45	52	20	18.2
225	IR	**753 665 567**	3.438	280	192	45	52	25	20.5
250		**753 665 568**	3.858	280	212	50	62	25	22.7
280		**753 665 569**	5.217	315	222	50	62	30	25.4
315		**753 665 570**	6.627	355	222	50	62	30	28.6

table continued next page



d [mm]	FM	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
355		**753 665 571**	7.731	400	192	30	62	35	32.2
400		**753 665 572**	10.890	450	212	30	72	40	36.3
450		**753 665 573**	14.775	500	232	35	72	45	40.9
500		**753 665 574**	20.268	560	252	40	72	50	45.4
560		**753 665 575**	28.608	630	282	45	82	55	50.8
630		**753 665 576**	39.129	710	302	50	82	60	57.2





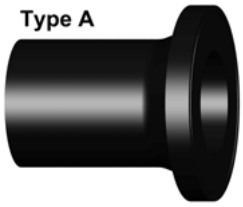
ecoFIT fixpoint fitting SDR17/17.6

Model:

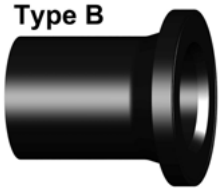
- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- Machined

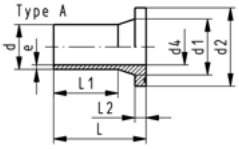
d [mm]	FM	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	**753 665 577**	0.144	90	122	30	42	10	3.8
75	IR	**753 665 578**	0.212	110	122	30	42	10	4.5
90	IR	**753 665 579**	0.279	125	122	30	42	10	5.4
110	IR	**753 665 580**	0.457	140	142	30	52	15	6.6
125	IR	**753 665 581**	0.618	160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

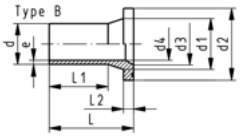
Type A



Type B







Flange adaptor PE100 SDR11
Combined jointing face: flat and serrated

Model:

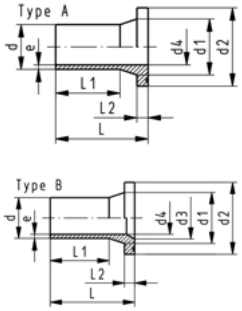
- Long spigot
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568. Above use ecoFIT adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use ecoFIT adaptor for butterfly valves SDR11 (d315-d800)
- 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 A without chamfer, Type B with chamfer

* Not suitable for butterfly valves for type 037/038/039
** Not suitable for butterfly valves

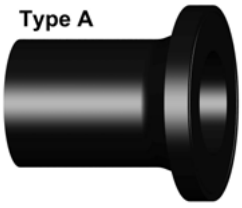
	d [mm]	DN [mm]	FM	Code	Weight [kg]
	20	15	IR	**753 800 006**	0.022
	25	20	IR	**753 800 007**	0.037
	32	25	IR	**753 800 008**	0.056
	40	32	IR	**753 800 009**	0.081
	50	40	IR	**753 800 010**	0.119
	63	50	IR	**753 800 011**	0.187
	75	65	IR	**753 800 012**	0.314
	90	80	IR	**753 800 013**	0.471
	110	100	IR	**753 800 014**	0.706
	125	100	IR	**753 800 015**	0.883
	140	125	IR	**753 800 016**	1.348
	160	150	IR	**753 800 017**	1.718
	180	150	IR	**753 800 018**	2.035
	200	200	IR	**753 800 019**	2.899
	225	200	IR	**753 800 020**	3.208
	250	250		**753 800 021**	4.878
	280	250		**753 800 022**	4.925
*	315	300		**753 800 023**	7.135
**	355	350		**753 800 024**	10.400
**	400	400		**753 800 025**	14.600
**	450	500		**753 800 026**	24.800
**	500	500		**753 800 027**	27.400
**	560	600		**753 800 028**	40.000
**	630	600		**753 800 029**	42.300

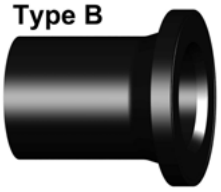
	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	20	15	27	45		16	85	41	7	1.9	A
	25	20	33	58		20	85	41	9	2.3	A
	32	25	40	68		26	85	44	10	3.0	A
	40	32	50	78		32	85	49	11	3.7	A
	50	40	61	88		40	90	62	12	4.6	A
	63	50	75	102		51	98	69	14	5.8	A
	75	65	89	122	66	61	125	89	16	6.8	B
	90	80	105	138	78	73	140	103	17	8.2	B
	110	100	125	158	100	90	160	114	18	10.0	B
	125	100	132	158	114	102	170	125	25	11.4	B
	140	125	155	188	127	114	200	147	25	12.7	B
	160	150	175	212	151	130	200	147	25	14.6	B
	180	150	180	212	158	147	200	170	30	16.4	B
	200	200	232	268	203	163	200	128	32	18.2	B
	225	200	235	268	210	184	200	138	32	20.5	B
	250	250	285	320	245	204	219	138	35	22.7	B
	280	250	291	320	265	229	231	144	35	25.4	B
*	315	300	335	370	300	257	239	158	35	28.6	B
**	355	350	373	430	340	290	260	176	40	32.3	B
**	400	400	427	482	385	327	290	186	46	36.3	B

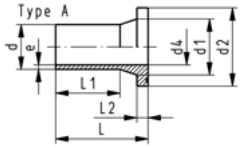
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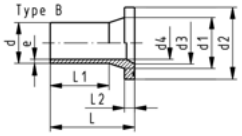


	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
**	450	500	514	585	400	368	333	195	60	40.9	B
**	500	500	530	585	440	409	350	212	60	45.5	B
**	560	600	615	685	490	458	365	230	60	50.9	B
**	630	600	642	685	545	515	385	250	60	57.3	B









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

Model:

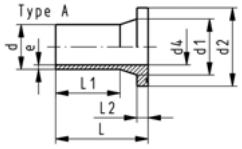
- Material: PE100
- Long spigot
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d315-d1200)
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 5 bar Gas / 10 bar Water
- Type A without chamfer, Type B with chamfer

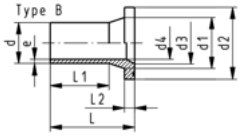
* Not suitable for butterfly valves for type 037/038/039
** Not suitable for butterfly valves

	d [mm]	DN [mm]	FM	Code	Weight [kg]
	50	40	IR	**753 800 085**	0.107
	63	50	IR	**753 800 086**	0.168
	75	65	IR	**753 800 087**	0.260
	90	80	IR	**753 800 088**	0.367
	110	100	IR	**753 800 089**	0.571
	125	100	IR	**753 800 090**	0.684
	140	125	IR	**753 800 091**	1.035
	160	150	IR	**753 800 092**	1.342
	180	150	IR	**753 800 093**	1.469
	200	200	IR	**753 800 094**	2.297
	225	200	IR	**753 800 095**	2.456
	250	250		**753 800 096**	3.500
	280	250		**753 800 097**	3.714
*	315	300		**753 800 098**	5.470
**	355	350		**753 800 099**	16.200
**	400	400		**753 800 100**	10.300
**	450	500		**753 800 101**	15.800
**	500	500		**753 800 102**	19.995
**	560	600		**753 800 103**	27.500
**	630	600		**753 800 104**	30.000

	d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	50	61	88		44	90	62	12	3.0	A
	63	75	102		55	106	70	14	3.8	A
	75	89	122		66	130	75	16	4.5	A
	90	105	138		79	140	103	17	5.4	A
	110	125	158		96	160	117	18	6.6	A
	125	132	158	114	110	170	125	25	7.4	B
	140	155	188	127	123	200	147	25	8.3	B
	160	175	212	151	141	200	147	25	9.5	B
	180	180	212		158	200	170	30	10.7	A

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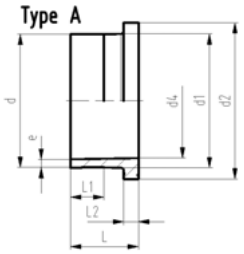


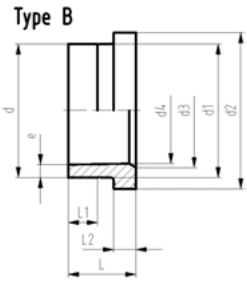
	d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	200	232	268	203	176	200	128	32	11.9	B
	225	235	268	210	198	200	138	32	13.4	B
	250	285	320	245	220	220	148	25	14.8	B
	280	291	320	265	246	230	154	25	16.6	B
*	315	335	370	300	277	242	166	36	18.7	B
**	355	373	430	340	312	261	179	30	21.1	B
**	400	427	483	385	352	290	196	33	23.7	B
**	450	514	585		396	333	195	60	26.7	A
**	500	530	585		440	350	212	60	29.7	A
**	560	615	685		493	365	230	60	33.2	A
**	630	642	685		555	385	250	60	37.4	A

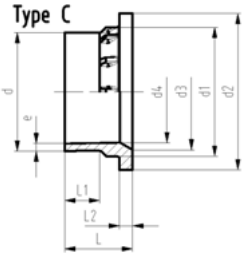












ecoFIT flange adaptor SDR11
Jointing face combination serrated/flat metric

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- Up to d315, suitable for butterfly valve type 567/568. Above use ecoFIT adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use ecoFIT adaptor for butterfly valves SDR11 (d315-d800)
- 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

* Available starting Q3 2015
** Not suitable for butterfly valves
*** Not suitable for butterfly valves tor type 037/038/039

	d [mm]	DN [mm]	Code	Weight [kg]
*	20	15	**753 798 306**	0.016
*	25	20	**753 798 307**	0.034
*	32	25	**753 798 308**	0.046
*	40	32	**753 798 309**	0.067
*	50	40	**753 798 310**	0.098
*	63	50	**753 798 311**	0.157
*	75	65	**753 798 312**	0.258
*	90	80	**753 798 313**	0.347
*	110	100	**753 798 314**	0.471
*	125	100	**753 798 315**	0.517
*	140	125	**753 798 316**	0.780
*	160	150	**753 798 317**	0.973
*	180	150	**753 798 318**	1.077
*	200	200	**753 798 319**	1.734
*	225	200	**753 798 320**	1.772
	250	250	**753 798 826**	3.087
	280	250	**753 798 827**	3.760
**	315	300	**753 798 828**	4.385
***	355	350	**753 798 829**	5.855
***	400	400	**753 798 830**	8.760
***	450	500	**753 798 831**	14.680
***	500	500	**753 798 832**	13.630
***	560	600	**753 798 833**	19.380
***	630	600	**753 798 834**	16.500

	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
*	20	15	26	45		16.0	50.0	29	7	1,9	A
*	25	20	32	58		20.0	52.0	27	9	2,3	A
*	32	25	40	68		26.0	54.0	28	10	2,9	A
*	40	32	49	78		32.0	55.0	25	11	3,7	A
*	50	40	60	88		40.0	62.0	32	12	4,6	A
*	63	50	75	102		49.0	68.0	38	14	5,8	A
*	75	65	89	122	66	58.0	80.0	46	16	6,8	C
*	90	80	105	138	78	70.0	80.0	44	17	8,2	C
*	110	100	125	158	100	87.0	80.0	43	18	10,0	C
*	125	100	132	158	114	99.0	82.0	36	25	11,4	C
*	140	125	155	188	127	110.4	89.0	42	25	12,7	C
*	160	150	175	212	151	127.4	92.0	40	25	14,6	C
*	180	150	182	212	154	148.6	92.0	40	30	16,4	B
*	200	200	232	268	203	173.6	100.0	35	32	18,2	C
*	225	200	235	268	210	196.3	100.0	35	32	20,5	C
	250	250	285	320	245	204.0	121.0	54	35	22,7	B
	280	250	291	320	265	229.0	119.0	69	35	25,4	B
**	315	300	335	370	300	257.0	166.0	88	35	28,6	B
***	355	350	373	430	340	290.0	187.0	98	40	32,2	B
***	400	400	427	482	385	327.0	196.0	106	45	36,3	B

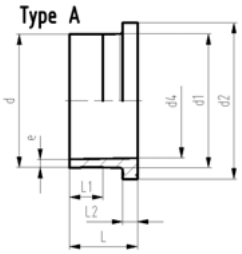
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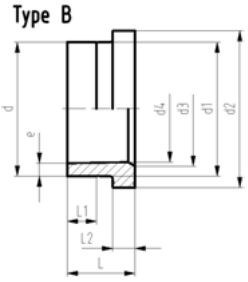
	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
***	450	500	514	585	400	368.0	139.0	61	60	40.9	B
***	500	500	530	585	440	409.0	138.0	62	60	45.4	B
***	560	600	615	684	490	458.0	135.0	20	60	50,8	B
***	630	600	642	684	545	516.0	135.0	40	60	57,2	B

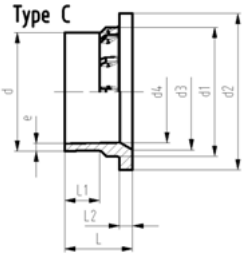












ecoFIT flange adaptor SDR17.6
Jointing face combination serrated/flat metric

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- Up to d315, suitable for butterfly valve type 567/568. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d315-d1200)
- 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

* Available starting Q3 2015
** Not suitable for butterfly valves
*** Not suitable for butterfly valves tor type 037/038/039

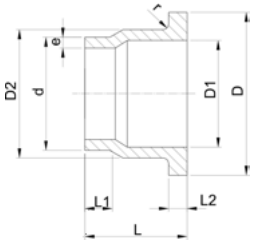
	d [mm]	DN [mm]	Code	Weight [kg]
*	50	40	**753 798 210**	0.093
*	63	50	**753 798 211**	0.118
*	75	65	**753 798 212**	0.220
*	90	80	**753 798 213**	0.291
*	110	100	**753 798 214**	0.389
*	125	100	**753 798 215**	0.421
*	140	125	**753 798 216**	0.648
*	160	150	**753 798 217**	0.703
*	180	150	**753 798 218**	0.739
*	200	200	**753 798 219**	1.331
*	225	200	**753 798 220**	1.304
	250	250	**753 798 851**	2.272
	280	250	**753 798 852**	2.154
**	315	300	**753 798 853**	3.819
***	355	350	**753 798 854**	4.155
***	400	400	**753 798 855**	7.810
***	450	500	**753 798 856**	10.914
***	500	500	**753 798 857**	9.865
***	560	600	**753 798 858**	14.875
***	630	600	**753 798 859**	12.515

	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
*	50	40	60	88		44.2	62	32	12	3,0	A
*	63	50	75	102		55.8	68	38	14	3,8	A
*	75	65	89	122		63.0	80	46	16	4,5	A
*	90	80	105	138		76.4	80	44	17	5,4	A
*	110	100	125	158		94.0	80	43	18	6,6	A
*	125	100	132	158	114	107.6	82	36	18	7,4	B
*	140	125	155	188	127	120.5	89	42	18	8,3	B
*	160	150	175	212	158	138.3	92	47	18	9,5	C
*	180	150	182	212		155.4	92	45	20	10,7	A
*	200	200	232	268	203	173.6	100	42	24	11,9	C
*	225	200	235	268	210	196.3	100	42	24	13,4	C
	250	250	285	320	245	220.0	121	61	25	14,8	B
	280	250	291	320	265	246.0	119	69	25	16,6	B
**	315	300	335	370	300	277.0	164	86	25	18,7	B
***	355	350	373	430	340	312.0	180	100	30	21,1	B
***	400	400	427	482	385	352.0	197	110	33	23,7	B

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	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
***	450	500	514	585	400	396.0	141	64	46	26,7	B
***	500	500	530	585	440	440.0	141	67	46	29,7	B
***	560	600	615	685	430	493.0	142	60	50	33,2	B
***	630	600	642	685	545	555.0	144	71	50	37,4	B





ecoFIT outlet flange adaptor SDR11

Model:

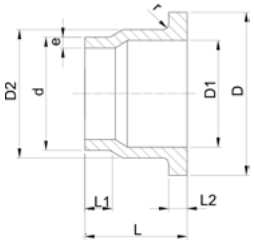
- Material: PE80
- Suitable for wafer check valves Type 369
- Conventional butt-welding according to DVS 2207 part 11

Attention:

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

DN [mm]	d [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
32	40	**733 808 034**	0.073	80	37	50	64	30	11	3,7	3
40	50	**733 808 035**	0.104	90	43	61	67	30	12	4,6	3
50	63	**733 808 036**	0.172	105	54	76	74	30	14	5,8	4
65	75	**733 808 037**	0.242	125	70	90	78	30	16	6,8	4
80	90	**733 808 038**	0.348	140	82	108	87	35	17	8,2	4
100	110	**733 808 039**	0.508	160	105	131	102	41	18	10,0	4
125	140	**733 808 041**	0.976	190	130	165	124	47	25	12,7	4
150	160	**733 808 042**	1.337	215	158	188	149	52	25	14,6	4
200	225	**733 808 045**	2.814	270	206	248	180	55	32	20,5	4
250	280	**733 808 047**	4.374	325	259	308	240	63	35	25,4	4
300	315	**733 808 048**	4.960	375	308	346	272	66	35	28,6	4





ecoFIT outlet flange adaptor SDR17.6

Model:

- Material: PE80
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for wafer check valves Type 369

Attention:

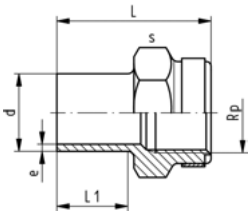
- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d [mm]	DN [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [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**	0.159	105	54	76	74	30	14	3,6	4
75	65	**733 808 012**	0.219	125	70	90	78	30	16	4,3	4
90	80	**733 808 013**	0.314	140	82	108	87	35	17	5,1	4
110	100	**733 808 014**	0.465	160	105	131	102	41	18	6,3	4
140	125	**733 808 016**	0.862	190	130	165	124	47	18	8,0	4
160	150	**733 808 017**	1.176	215	158	188	149	52	18	9,1	4
225	200	**733 808 020**	2.484	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

ecoFIT adaptor fittings for butt fusion

ecoFIT adaptor socket SDR11 metric Rp





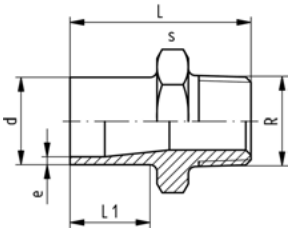
Model:

- Material: PE100
- 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 [mm]	DN [mm]	Rp [inch]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	s [mm]	e [mm]
20	15	½	IR	**753 910 266**	0.018	48	23	32	1,9
25	20	¾	IR	**753 910 267**	0.022	50	23	36	2,3
32	25	1	IR	**753 910 268**	0.038	54	23	46	2,9
40	32	1 ¼	IR	**753 910 269**	0.068	56	23	55	3,7
50	40	1 ½	IR	**753 910 270**	0.083	60	23	65	4,6
63	50	2	IR	**753 910 271**	0.134	62	23	80	5,8

ecoFIT adaptor nipple SDR11 metric R





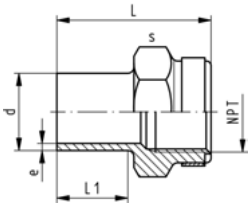
Model:

- Material: PE100
- 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 [mm]	R [inch]	DN [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	15	IR	**753 910 556**	0.013	51	23	32	1,9
25	¾	20	IR	**753 910 557**	0.026	52	23	36	2,3
32	1	25	IR	**753 910 558**	0.028	55	23	46	3,0
40	1 ¼	32	IR	**753 910 559**	0.043	58	23	55	3,7
50	1 ½	40	IR	**753 910 560**	0.063	60	23	65	4,6
63	2	50	IR	**753 910 561**	0.104	67	26	80	5,8

ecoFIT adaptor socket SDR11 metric NPT





Model:

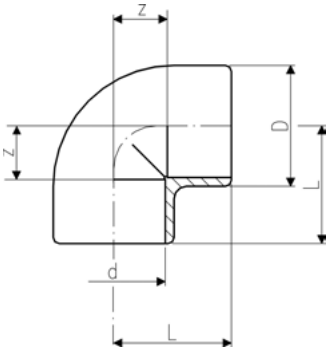
- Material: PE100
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	NPT [inch]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	IR	**753 914 266**	0.018	48	23	32	1.9
25	¾	IR	**753 914 267**	0.022	50	23	36	2.3
32	1	IR	**753 914 268**	0.038	54	23	46	2.9
40	1 ¼	IR	**753 914 269**	0.058	56	23	55	3.7
50	1 ½	IR	**753 914 270**	0.083	60	23	65	4.6
63	2	IR	**753 914 271**	0.134	62	23	80	5.8

ecoFIT socket fusion fittings

ecoFIT elbow 90°





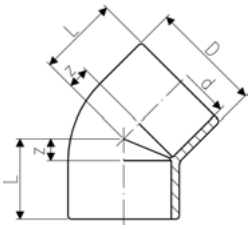
Model:

- Material: PE80

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	10	**733 100 106**	0.022	31	28	14
25	10	**733 100 107**	0.031	36	32	16
32	10	**733 100 108**	0.048	44	38	20
40	10	**733 100 109**	0.078	54	44	24
50	10	**733 100 110**	0.129	66	51	28
63	10	**733 100 111**	0.228	82	62	35
75	10	**733 100 112**	0.311	93	76	45
90	10	**733 100 113**	0.498	110	88	53
110	10	**733 100 114**	0.864	134	106	65

ecoFIT elbow 45°





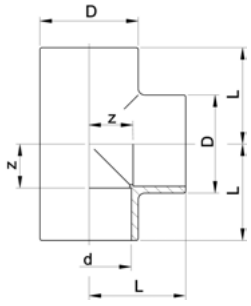
Model:

- Material: PE80

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	10	**733 150 106**	0.018	31	21	7
25	10	**733 150 107**	0.026	36	24	8
32	10	**733 150 108**	0.043	44	28	10
40	10	**733 150 109**	0.061	53	33	13
50	10	**733 150 110**	0.087	64	36	13
63	10	**733 150 111**	0.184	82	43	16
75	10	**733 150 112**	0.229	93	51	20
90	10	**733 150 113**	0.357	114	58	23
110	10	**733 150 114**	0.653	134	68	27

ecoFIT tee 90° equal





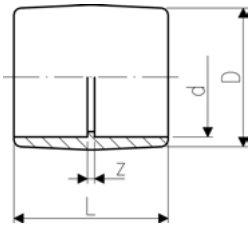
Model:

- Material: PE80

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	10	**733 200 106**	0.028	31	28	14
25	10	**733 200 107**	0.041	36	32	16
32	10	**733 200 108**	0.060	44	38	20
40	10	**733 200 109**	0.100	54	44	24
50	10	**733 200 110**	0.166	66	51	28
63	10	**733 200 111**	0.298	82	62	35
75	10	**733 200 112**	0.409	93	76	45
90	10	**733 200 113**	0.749	114	88	53
110	10	**733 200 114**	1.112	134	106	65

ecoFIT socket equal





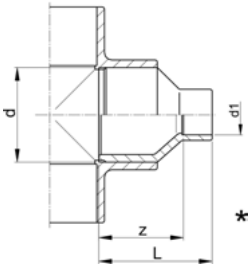
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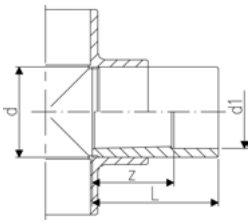
- Material: PE80

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	10	**733 910 106**	0.014	31	35	7
25	10	**733 910 107**	0.018	36	39	7
32	10	**733 910 108**	0.027	44	43	7
40	10	**733 910 109**	0.043	54	48	8
50	10	**733 910 110**	0.074	66	54	8
63	10	**733 910 111**	0.124	82	62	8
75	10	**733 910 112**	0.152	93	70	8
90	10	**733 910 113**	0.234	112	81	11
110	10	**733 910 114**	0.419	134	96	14

ecoFIT reducer







Model:

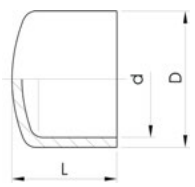
- Material: PE80

- With socket fusion spigot and fusion socket metric

	d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	L [mm]	z [mm]
	25	20	10	**733 910 337**	0.013	39	23
	32	25	10	**733 910 341**	0.021	43	27
*	40	20	10	**733 910 348**	0.023	48	34
*	40	25	10	**733 910 347**	0.027	48	32
	40	32	10	**733 910 346**	0.032	48	30
*	50	32	10	**733 910 353**	0.042	54	36
	50	40	10	**733 910 352**	0.049	54	34
*	63	20	10	**733 910 362**	0.057	64	50
*	63	25	10	**733 910 361**	0.060	64	48
*	63	32	10	**733 910 360**	0.064	64	46
*	63	40	10	**733 910 359**	0.070	64	44
	63	50	10	**733 910 358**	0.086	64	41
	75	63	10	**733 910 364**	0.103	62	35
*	90	63	10	**733 910 371**	0.180	88	62
	90	75	10	**733 910 370**	0.144	70	39
	110	90	10	**733 910 376**	0.254	81	45

ecoFIT end cap





Model:

- Material: PE80

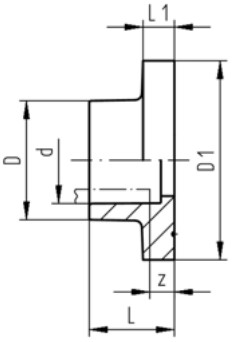
d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
20	10	**733 960 106**	0.010	30	27
25	10	**733 960 107**	0.016	36	30
32	10	**733 960 108**	0.025	44	34
40	10	**733 960 109**	0.038	53	38
50	10	**733 960 110**	0.061	65	44
63	10	**733 960 111**	0.097	80	51
75	10	**733 960 112**	0.150	91	66
90	10	**733 960 113**	0.274	111	77
110	10	**733 960 114**	0.405	137	93



ecoFIT flange adaptor
Jointing face flat/serrated

Model:

- Material: PE100
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-, DIN 16963-11
- 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



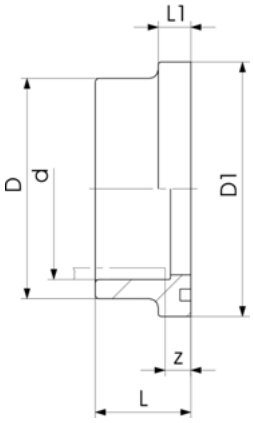
d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**753 790 206**	0.013	27	45	19	7	5
25	20	10	**753 790 207**	0.022	33	58	21	9	5
32	25	10	**753 790 208**	0.035	41	68	23	10	5
40	32	10	**753 790 209**	0.052	50	78	25	11	5
50	40	10	**753 790 210**	0.061	61	88	28	12	5
63	50	10	**753 790 211**	0.095	76	102	32	14	5
75	65	10	**753 790 212**	0.163	90	122	36	16	5
90	80	10	**753 790 213**	0.203	108	138	42	17	7
110	100	10	**753 790 214**	0.293	131	158	48	18	7



ecoFIT flange adaptor
Jointing face with o-ring groove

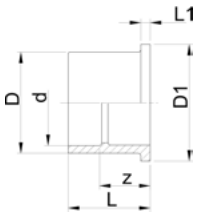
Model:

- Material: PE80
- Counterpart: flange adaptor flat/serrated 53 79 02
- Gasket: O-ring EPDM
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04



d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**733 810 106**	0.008	27	34	22	9	8
25	20	10	**733 810 107**	0.012	33	41	24	10	8
32	25	10	**733 810 108**	0.019	41	50	26	10	8
40	32	10	**733 810 109**	0.031	50	61	30	13	10
50	40	10	**733 810 110**	0.044	61	73	33	13	10
63	50	10	**733 810 111**	0.072	76	90	37	14	10
75	65	10	**733 810 112**	0.112	90	106	40	15	10
90	80	10	**733 810 113**	0.185	108	125	47	16	12
110	100	10	**733 810 114**	0.285	131	150	55	18	13





ecoFIT outlet flange adaptor
Jointing face flat

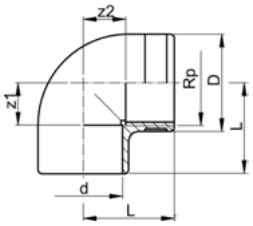
Model:

- Material: PE80
- 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 [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
40	32	6	**733 800 009**	0.065	50	78	55	11	35
50	40	6	**733 800 010**	0.088	61	88	61	12	38
63	50	6	**733 800 011**	0.136	76	102	69	14	41
75	65	6	**733 800 012**	0.223	90	122	79	16	49
90	80	6	**733 800 013**	0.357	107	138	100	17	65
110	100	6	**733 800 014**	0.482	130	158	105	18	62

ecoFIT adaptor fittings for socket fusion





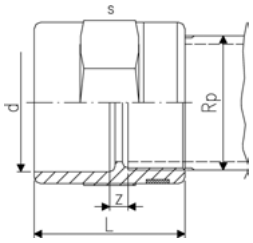
ecoFIT elbow 90° metric Rp

Model:

- Material: PE80
- 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 [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**733 100 206**	0.024	30	28	14	14
25	¾	10	**733 100 207**	0.033	35	32	16	16
32	1	10	**733 100 208**	0.061	44	38	20	20
40	1 ¼	10	**733 100 209**	0.094	54	44	24	24





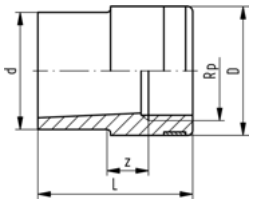
ecoFIT adaptor socket metric Rp

Model:

- Material: PE80
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- With fusion socket metric and parallel female thread Rp, reinforced
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	L [mm]	s [mm]	z [mm]
20	½	10	**733 910 206**	0.020	35	32	7
25	¾	10	**733 910 207**	0.026	39	36	7
32	1	10	**733 910 208**	0.042	45	46	7
40	1 ¼	10	**733 910 209**	0.068	53	55	7
50	1 ½	10	**733 910 210**	0.098	54	65	9
63	2	10	**733 910 211**	0.155	62	80	9





ecoFIT reducing bush metric Rp

Model:

- Material: PE80
- 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
- With fusion spigot metric and BSP parallel female thread, reinforced

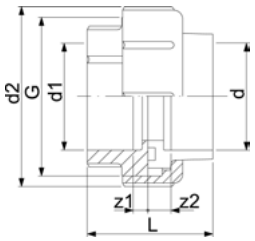
d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	L [mm]	z [mm]
20	⅜	10	**733 910 434**	0.012	33	7
25	½	10	**733 910 437**	0.015	37	6
32	¾	10	**733 910 441**	0.028	43	8
40	1	10	**733 910 446**	0.046	49	9
50	1 ¼	10	**733 910 452**	0.071	55	10

ecoFIT adapter union metric



Model:

- Material: PE80
- Union End: Fusion socket, PE80 metric
- Union bush: brass with fusion socket insert, PE80 metric
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



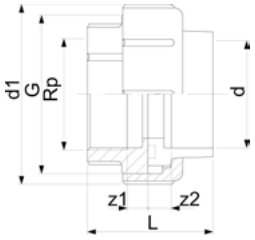
d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	G [inch]	L [mm]	z1 [mm]	D2 [mm]	d2 [mm]	z2 [mm]
20	20	10	**733 580 106**	0.163	1 1/4	46	6	46	46	3
25	25	10	**733 580 107**	0.214	1 1/2	49	6	52	52	3
32	32	10	**733 580 108**	0.294	2	51	6	64	64	3
40	40	10	**733 580 109**	0.473	2 1/2	56	8	79	79	3
50	50	10	**733 580 110**	0.491	2 2/3	61	8	85	85	3
63	63	10	**733 580 111**	0.730	3 1/2	69	8	104	104	3

ecoFIT adaptor union metric Rp



Model:

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



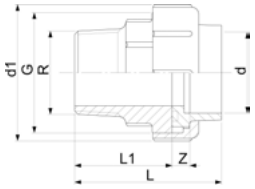
d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	G [inch]	L [mm]	d1 [mm]	z1 [mm]	z2 [mm]
20	½	10	**733 580 206**	0.209	1 1/4	46	46	6	10
25	¾	10	**733 580 207**	0.269	1 1/2	48	52	6	9
32	1	10	**733 580 208**	0.376	2	51	64	6	8
40	1 ¼	10	**733 580 209**	0.596	2 1/2	56	79	8	7
50	1 ½	10	**733 580 210**	0.666	2 3/4	59	85	8	7
63	2	10	**733 580 211**	0.960	3 1/2	65	104	8	5

ecoFIT adaptor union metric R



Model:

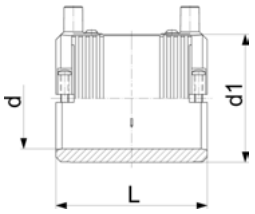
- Material: PE80/brass
- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)



d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	d1 [mm]	G [inch]	L [mm]	L1 [mm]	z [mm]
20	½	10	**733 580 706**	0.260	46	1 1/4	62	40	6
25	¾	10	**733 580 707**	0.324	52	1 1/2	65	41	6
32	1	10	**733 580 708**	0.470	64	2	71	45	6
40	1 ¼	10	**733 580 709**	0.754	79	2 1/2	78	48	8
50	1 ½	10	**733 580 710**	0.781	85	2 3/4	81	43	8
63	2	10	**733 580 711**	1.166	104	3 1/2	91	54	8

ELGEF Plus electrofusion fittings



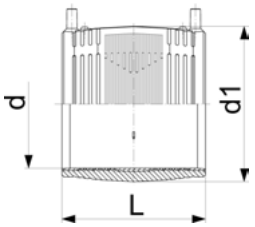


Coupler
With integral pipe fixation

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
20	**753 911 606**	0.053	31	70
25	**753 911 607**	0.050	36	70
32	**753 911 608**	0.071	44	72
40	**753 911 609**	0.095	54	80
50	**753 911 610**	0.131	66	88
63	**753 911 611**	0.194	81	96



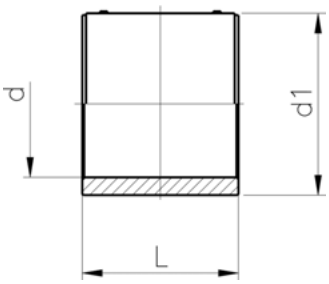


Coupler

- **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 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
75	**753 911 612**	0.282	96	110
90	**753 911 613**	0.406	113	125
110	**753 911 614**	0.692	138	145
125	**753 911 615**	0.718	154	156
140	**753 911 616**	0.945	172	166
160	**753 911 617**	1.362	196	180
180	**753 911 618**	1.747	219	192
200	**753 911 619**	1.866	244	208
225	**753 911 620**	3.329	273	225
250	**753 911 621**	4.678	304	248
280	**753 911 622**	7.500	340	252
315	**753 911 623**	8.142	382	267



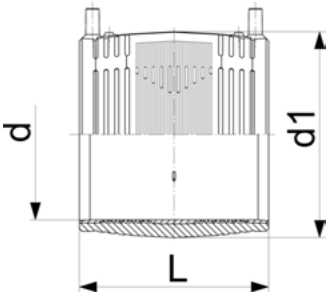


Coupler

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
355	**753 911 704**	13.098	438	291
400	**753 911 705**	18.320	493	295
450	**753 911 706**	24.700	554	327
500	**753 911 707**	33.700	616	358
560	**753 911 708**	46.200	689	396
630	**753 911 709**	65.300	775	440
710	**753 911 710**	87.400	874	463
800	**753 911 711**	114.500	982	484



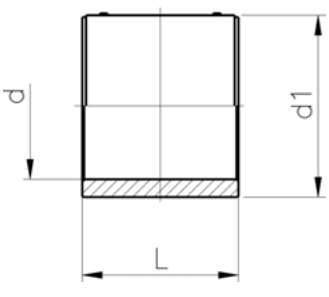


Coupler

- **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 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
160	**753 911 817**	1.017	186	180
180	**753 911 818**	1.434	213	192
200	**753 911 819**	1.726	233	206
225	**753 911 820**	2.545	261	225
250	**753 911 821**	4.616	304	248
280	**753 911 822**	5.606	304	252
315	**753 911 823**	8.186	382	267



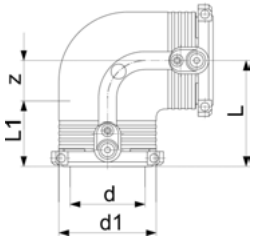


Coupler

- **PE 100 SDR 17 (ISO S8)**
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
355	**753 911 804**	9.522	416	291
400	**753 911 805**	18.000	467	295
450	**753 911 806**	16.000	526	327
500	**753 911 807**	22.000	584	358
560	**753 911 808**	34.000	647	396
630	**753 911 809**	35.000	727	440
710	**753 911 810**	55.600	820	463
800	**753 911 811**	73.000	922	484



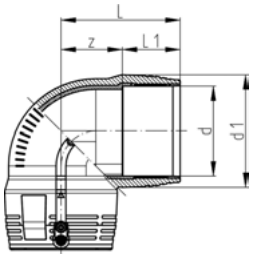


Elbow 90°
With integral pipe fixation

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
20	**753 101 606**	0.080	35	54	34	20
25	**753 101 607**	0.068	35	54	34	20
32	**753 101 608**	0.098	44	53	36	17
40	**753 101 609**	0.141	54	62	39	23
50	**753 101 610**	0.200	66	71	43	28
63	**753 101 611**	0.318	81	81	48	32



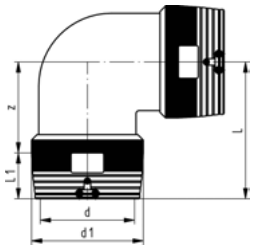


Elbow 90°

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
75	**753 101 612**	0.415	97	94	54	40
90	**753 101 813**	0.828	115	122	62	60
110	**753 101 814**	1.224	140	147	72	76
125	**753 101 815**	1.742	160	155	77	68
160	**753 101 817**	3.830	196	191	92	86
180	**753 101 818**	5.410	219	210	95	100



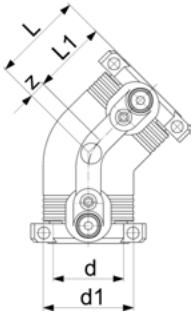


Elbow 90°

- **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 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 101 819**	9.320	250	298	104	194
225	**753 101 820**	13.220	280	318	112	206
250	**753 101 821**	16.600	310	347	123	224



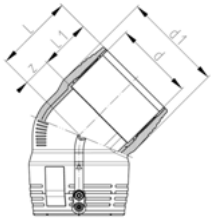


Elbow 45°
With integral pipe fixation

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
32	**753 151 608**	0.075	44	44	36	8
40	**753 151 609**	0.106	54	50	39	11
50	**753 151 610**	0.171	66	56	43	13
63	**753 151 611**	0.252	81	63	48	15



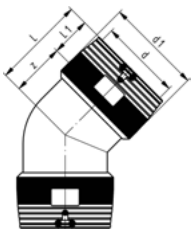


Elbow 45°

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
75	**753 151 612**	0.332	97	71	54	17
90	**753 151 813**	0.583	115	91	62	29
110	**753 151 814**	0.985	140	112	72	40
125	**753 151 815**	1.438	160	119	78	49
160	**753 151 817**	3.055	196	135	92	42
180	**753 151 818**	4.037	217	144	95	47



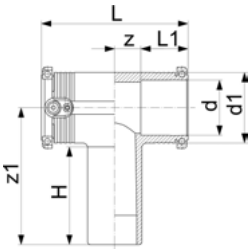


Elbow 45°

- **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 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 151 819**	7.566	250	232	104	128
225	**753 151 820**	11.300	280	247	112	135
250	**753 151 821**	13.500	310	275	123	152



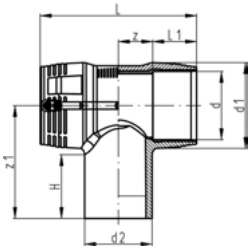


Tee 90° equal
With integral pipe fixation

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	**753 211 606**	0.085	35	88	32	11	92	67
25	**753 211 607**	0.075	35	90	32	11	92	70
32	**753 211 608**	0.118	44	102	34	15	100	74
40	**753 211 609**	0.175	54	119	39	21	114	82
50	**753 211 610**	0.252	66	135	42	24	126	90
63	**753 211 611**	0.407	81	151	46	28	150	102



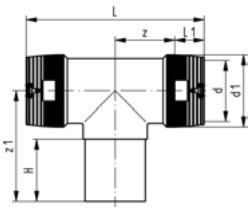


Tee 90° equal

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
75	**753 211 612**	0.569	97	178	54	35	143	87
90	**753 201 813**	0.891	115	205	62	41	161	94
110	**753 201 814**	1.576	140	255	72	56	184	104
125	**753 201 815**	2.212	161	276	78	60	207	113
160	**753 201 817**	4.386	196	325	92	71	206	103
180	**753 201 818**	6.796	225	344	90	82	250	110



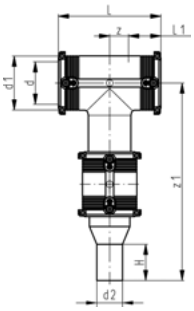


Tee 90° equal

- **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 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
200	**753 201 819**	10.800	250	590	104	191	250	117
225	**753 201 820**	15.900	280	636	112	206	270	122
250	**753 201 821**	18.900	310	685	123	220	288	127



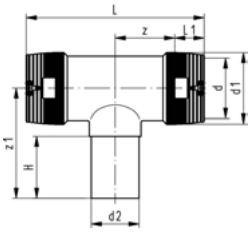


Tee 90° reduced (kit)

- **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 [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [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**	1.655	112	202	61	41	336	274
110	63	**193 280 961**	2.812	136	242	65	56	366	293
125	63	**193 280 963**	3.673	151	256	75	53	361	279
125	110	**193 280 965**	3.920	151	256	75	53	389	307
180	90	**193 281 032**	10.891	225	344	90	82	487	347
180	110	**193 281 033**	10.465	225	344	90	82	495	355



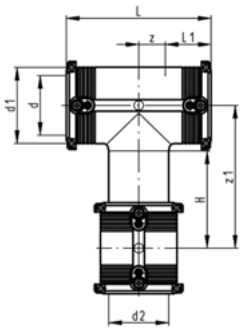


Tee 90° reduced

- **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 [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
110	90	**753 211 034**	1.652	140	255	72	56	245	80
125	90	**753 211 035**	2.242	156	255	75	53	245	80
160	63	**753 211 037**	5.660	200	493	90	127	176	65
160	90	**753 211 039**	5.508	200	492	90	158	188	79
160	110	**753 211 040**	5.157	200	491	90	158	195	85
200	90	**753 211 059**	9.012	250	595	104	194	215	81
200	110	**753 211 060**	12.400	250	600	104	194	218	84
200	160	**753 211 063**	12.400	250	595	104	194	236	101
225	90	**753 211 069**	13.100	280	666	112	217	226	80
225	110	**753 211 070**	13.100	280	670	112	217	235	85
225	160	**753 211 073**	13.600	280	667	112	217	255	105
250	110	**753 211 080**	11.660	310	709	123	220	245	85
250	160	**753 211 083**	11.660	310	711	123	220	264	101



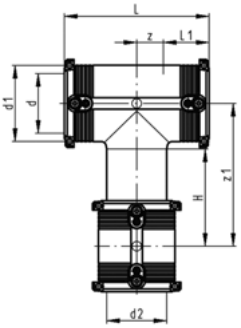


Tee 90° with weldable outlet (kit) Equal or reduced

- **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 [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	20	**753 201 606**	0.161	35	90	34	11	92	67
25	25	**753 201 607**	0.122	35	90	34	11	92	70
32	32	**753 201 608**	0.201	44	102	36	15	100	74
40	32	**193 281 006**	0.288	54	120	39	21	127	95
40	40	**753 201 609**	0.285	54	120	39	21	114	82
50	32	**193 281 007**	0.364	66	135	43	24	144	108

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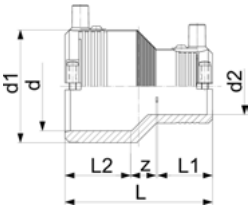


d [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
50	40	**193 281 008**	0.407	66	135	43	24	140	104
50	50	**753 201 610**	0.389	66	135	43	24	126	90
63	32	**193 280 997**	0.550	81	152	48	28	173	125
63	40	**193 281 009**	0.566	81	152	48	28	169	121
63	50	**193 281 010**	0.628	81	152	48	28	165	117
63	63	**753 201 611**	0.615	81	152	48	28	150	102
90	63	**193 281 011**	1.311	112	202	61	41	182	120
90	90	**753 201 613**	1.342	112	202	61	41	146	84
110	90	**193 281 012**	2.343	136	242	65	56	200	127
110	110	**753 201 614**	2.329	136	242	65	56	161	88
125	90	**193 281 013**	3.146	151	256	75	53	214	132
125	125	**753 201 615**	2.960	151	256	75	53	174	92
160	110	**193 281 030**	7.443	196	325	92	71	271	168
160	160	**753 201 617**	6.359	196	325	92	71	206	103
180	125	**193 281 031**	9.654	225	344	90	82	330	190
180	180	**753 201 618**	8.561	225	344	90	82	250	110



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

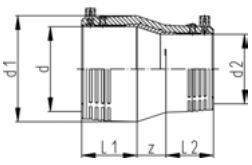


d [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
25	20	**753 901 639**	0.051	35	74	34	34	6
32	20	**753 901 640**	0.056	44	79	33	36	10
32	25	**753 901 641**	0.062	44	79	33	36	10
40	20	**753 901 644**	0.069	54	88	33	39	15
40	25	**753 901 645**	0.084	54	88	33	39	15
40	32	**753 901 646**	0.095	54	88	33	39	13
50	32	**753 901 651**	0.124	66	96	35	43	18
50	40	**753 901 652**	0.119	66	96	39	43	14
63	32	**753 901 656**	0.158	81	105	35	48	23
63	40	**753 901 657**	0.176	81	105	39	48	19
63	50	**753 901 658**	0.176	81	105	43	48	15



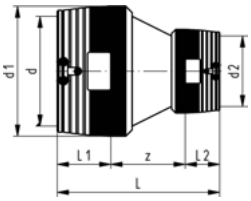
Reducer

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



d [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
90	63	**753 901 831**	0.385	113	146	63	47	36
110	90	**753 901 833**	0.700	138	173	73	63	38
125	90	**753 901 836**	0.891	152	180	79	61	40
160	110	**753 901 834**	1.641	196	226	91	70	65
180	125	**753 901 835**	1.962	220	247	97	70	80



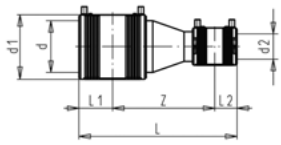


Reducer

- **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 [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
200	160	**753 901 837**	5.098	250	365	104	90	171
225	160	**753 901 838**	6.000	280	385	112	90	183
250	160	**753 901 840**	7.860	310	400	123	90	187
250	200	**753 901 841**	8.480	310	427	123	104	200



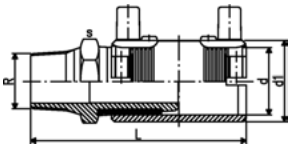


Reducer (kit)

- **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 [mm]	d2 [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
75	40	**193 280 992**	0.574	96	265	55	40	170
75	50	**193 280 993**	0.623	96	269	55	44	170
75	63	**193 280 994**	0.700	96	273	55	48	170
90	50	**193 280 958**	0.857	113	297	63	44	190
90	75	**193 280 995**	1.071	113	308	63	55	190
110	63	**193 280 950**	1.389	138	326	73	48	205
110	75	**193 280 996**	1.496	138	333	73	55	205
125	63	**193 280 953**	1.567	154	314	79	48	187
125	110	**193 280 951**	2.098	154	367	79	73	215
160	90	**193 280 954**	3.060	196	370	90	63	217
160	125	**193 280 952**	3.252	196	414	90	79	245
180	110	**193 280 959**	4.167	214	413	95	73	245



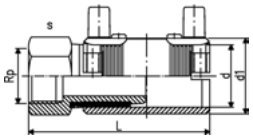


Transition coupler PE/steel (stainless 1.4305) Male thread

- **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 [mm]	R [inch]	Code	Weight [kg]	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 756**	0.165	31	110	30
25	¾	**724 920 757**	0.249	36	111	35
32	1	**724 920 758**	0.332	44	117	40
40	1 ¼	**724 920 759**	0.464	54	127	50
40	1 ½	**724 920 772**	0.528	66	143	60
50	1 ½	**724 920 760**	0.611	66	135	60
63	1 ½	**724 920 771**	0.904	81	147	70
63	2	**724 920 761**	0.942	81	147	70



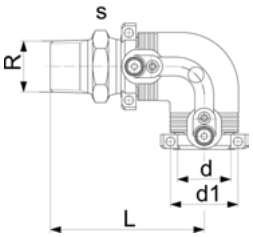


Transition coupler PE/steel (stainless 1.4305) Female thread

- **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 [mm]	Rp [inch]	Code	Weight [kg]	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 256**	0.179	31	100	30
25	¾	**724 920 257**	0.231	36	101	35
32	1	**724 920 258**	0.319	44	108	40
40	1 ¼	**724 920 259**	0.480	54	118	50
50	1 ½	**724 920 260**	0.646	66	126	60
63	2	**724 920 261**	0.931	81	138	70



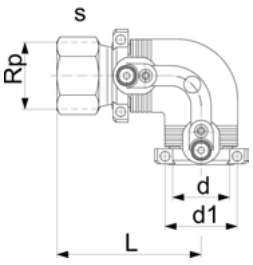


Transition elbow 90° PE/steel (stainless 1.4305) Male thread

- **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 [mm]	R [inch]	Code	Weight [kg]	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 756**	0.211	31	96	30
25	¾	**724 100 757**	0.230	36	97	35
32	1	**724 100 758**	0.324	44	98	40
40	1 ¼	**724 100 759**	0.560	54	109	50
40	1 ½	**724 100 772**	0.599	54	109	60
50	1 ½	**724 100 760**	0.701	66	118	60
63	1 ½	**724 100 771**	0.986	81	132	70
63	2	**724 100 761**	1.105	81	132	70



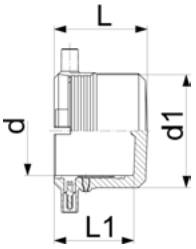


Transition elbow 90° PE/steel (stainless 1.4305) Female thread

- **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 [mm]	Rp [inch]	Code	Weight [kg]	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 256**	0.211	31	86	30
25	¾	**724 100 257**	0.237	36	87	35
32	1	**724 100 258**	0.320	44	89	40
40	1 ¼	**724 100 259**	0.545	54	100	50
50	1 ½	**724 100 260**	0.805	66	109	60
63	2	**724 100 261**	1.020	81	123	70



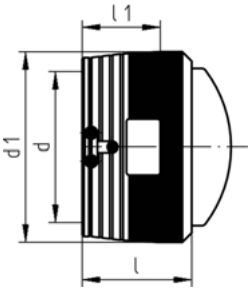


End cap
With integral pipe fixation

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]
20	**753 961 606**	0.041	35	52	44
25	**753 961 607**	0.046	35	52	44
32	**753 961 608**	0.058	44	52	44
40	**753 961 609**	0.064	54	56	47
50	**753 961 610**	0.154	66	60	49
63	**753 961 611**	0.142	81	66	54



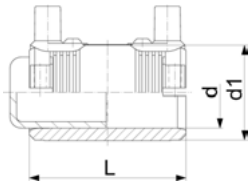


End cap

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

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]
160	**753 961 617**	1.782	200	143	90
200	**753 961 619**	3.585	250	162	104
225	**753 961 620**	4.500	280	170	112
250	**753 961 621**	6.300	310	185	123





End cap (kit)

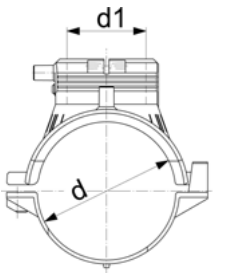
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler

d [mm]	Code	Weight [kg]	d1 [mm]	L [mm]
75	**753 961 712**	0.446	96	110
90	**753 961 713**	0.663	113	125
110	**753 961 714**	1.090	133	145
125	**753 961 715**	1.345	155	158
140	**753 961 716**	2.250	175	170
160	**753 961 717**	2.382	197	180
180	**753 961 718**	3.098	220	194
200	**753 961 719**	4.180	245	208
225	**753 961 720**	5.852	296	224

ELGEF Plus saddles

Electrofusion saddle





L = length / Länge

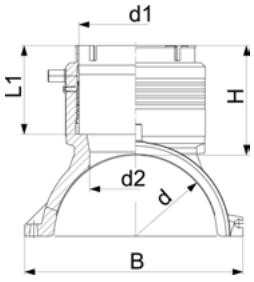
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- * Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.477

Not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems; SDR compatibility according to individual parts

	d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]
	63	63	**193 131 037**	0.325	165
	75	63	**193 131 047**	0.455	165
	90	63	**193 131 057**	0.415	165
	110	63	**193 131 067**	0.458	165
*	110	63	**193 133 067**	0.240	182
	125	63	**193 131 077**	0.502	165
	140	63	**193 131 087**	0.523	165
	160	63	**193 131 097**	0.493	165
*	160	63	**193 133 097**	0.543	182
	180	63	**193 131 107**	0.600	165
	200	63	**193 131 117**	0.634	165
	225	63	**193 131 127**	0.618	165
	250	63	**193 131 137**	0.627	165
**	280	63	**193 131 147**	0.359	165
**	315 - 355	63	**193 131 157**	0.373	165
**	400	63	**193 131 177**	0.356	165

Branch saddle outlet 90 - 125 mm

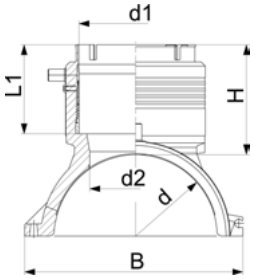




- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- * Delivered without lower part. Pipe fixation with multiple use assembly tool-no. 193.281.027

	d [mm]	d1 [mm]	Code	Weight [kg]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
	110	90	**193 135 009**	1.124	101	220	82	164	65
	110	110	**193 135 010**	1.224	107	220	88	164	65
	125	90	**193 135 019**	1.134	101	220	82	179	65
	125	110	**193 135 020**	1.290	107	220	88	179	65
*	140	90	**193 135 029**	0.982	101	220	81	195	65
*	140	110	**193 135 030**	1.087	107	220	87	195	65
	160	90	**193 135 039**	1.449	102	240	82	215	65
	160	110	**193 135 040**	1.582	108	240	88	215	86
	160	125	**193 135 041**	1.782	129	240	99	215	86
	180	90	**193 135 049**	1.672	102	260	82	237	65
	180	110	**193 135 050**	1.765	108	260	88	237	86
	180	125	**193 135 051**	2.015	129	260	99	237	86
	200	90	**193 135 059**	1.803	102	260	82	253	65
	200	110	**193 135 060**	1.963	108	260	88	253	86
	200	125	**193 135 061**	2.128	129	260	99	253	86
	225	90	**193 135 069**	2.006	102	260	82	287	65

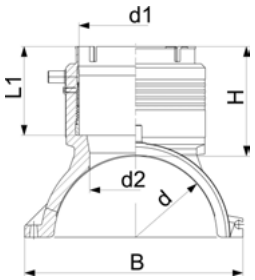
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d [mm]	d1 [mm]	Code	Weight [kg]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
225	110	**193 135 070**	2.400	108	260	88	287	86
225	125	**193 135 071**	2.312	129	260	99	287	86
250	90	**193 135 079**	2.145	102	260	82	312	65
250	110	**193 135 080**	2.258	108	260	88	312	86
250	125	**193 135 081**	2.500	129	260	99	312	86



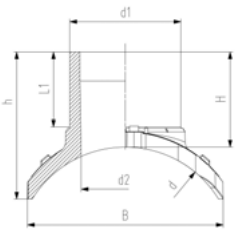
Branch saddle topload outlet 90 - 125 mm



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle 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	Weight [kg]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
280	90	**193 135 289**	1.242	102	260	82	243	65
280	110	**193 135 290**	1.295	108	260	88	243	86
280	125	**193 135 291**	1.530	129	260	99	243	86
315 - 355	90	**193 135 309**	1.214	102	260	82	249	65
315 - 355	110	**193 135 310**	1.297	108	260	88	249	86
315 - 355	125	**193 135 311**	1.530	129	260	99	249	86
400 - 450	90	**193 135 329**	1.022	102	260	82	256	65
400 - 450	110	**193 135 330**	1.116	108	260	88	256	86
400 - 450	125	**193 135 331**	1.369	129	260	99	256	86
500 - 630	90	**193 135 159**	1.086	102	260	82	263	65
500 - 630	110	**193 135 160**	1.159	108	260	88	263	86
500 - 630	125	**193 135 161**	1.388	129	260	99	263	86



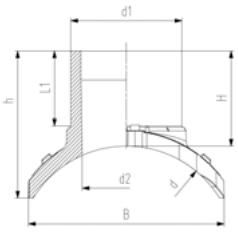


Branch saddle topload outlet 160 - 225 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

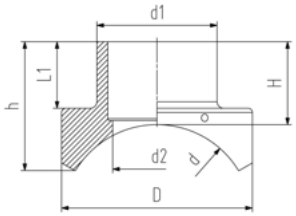
d [mm]	d1 [mm]	Code	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
315	160	**193 135 402**	2.662	212	137	322	110	282	131
315	225	**193 135 404**	4.594	306	160	366	127	260	184
355	160	**193 135 412**	2.662	206	137	322	110	282	131
355	225	**193 135 414**	4.710	319	160	366	127	249	184
400	160	**193 135 422**	2.678	198	137	322	110	300	131
400	225	**193 135 424**	4.700	329	160	366	127	241	184
450	160	**193 135 432**	2.678	194	137	322	110	300	131
450	225	**193 135 434**	4.700	329	160	366	127	233	184
500	160	**193 135 442**	2.708	186	137	322	110	310	131
500	225	**193 135 444**	4.650	344	160	366	127	226	184
560	160	**193 135 452**	2.708	183	137	322	110	310	131
560	225	**193 135 454**	4.650	344	160	366	127	220	184

table continued next page



d [mm]	d1 [mm]	Code	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
630	160	**193 135 462**	2.500	177	137	322	110	312	131
630	225	**193 135 464**	4.630	353	160	366	127	214	184
710	160	**193 135 472**	2.500	172	137	322	110	312	131
710	225	**193 135 474**	4.630	352	160	366	127	208	184
800	160	**193 135 482**	2.500	168	137	322	110	312	131
800	225	**193 135 484**	4.610	359	160	366	127	203	184
900	225	**193 135 494**	4.610	359	160	366	127	199	184
1000	225	**193 135 504**	4.610	359	160	366	127	195	184



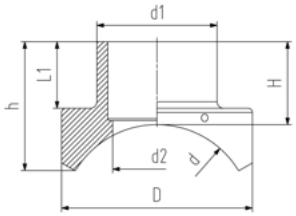


Branch saddle topload outlet 315 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Topload TL315 (799.350.808) or TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Protected wire without medium contact
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

d [mm]	d1 [mm]	Code	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	D [mm]	d2 [mm]	SDR pipe
500	315	**193 135 446**	17.000	216	337	500	157	500	232	11 - 26
560	315	**193 135 456**	16.100	216	327	500	157	500	232	11 - 26
630	315	**193 135 466**	15.400	216	312	500	157	500	232	11 - 33
710	315	**193 135 476**	14.800	216	297	500	157	500	232	11 - 33
800	315	**193 135 486**	14.300	216	287	500	157	500	232	11 - 33
900	315	**193 135 496**	13.800	216	281	500	157	500	232	11 - 33
1000	315	**193 135 506**	13.500	216	274	500	157	500	232	11 - 33





Branch saddle topload outlet 315 - 500 mm

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Branch saddle installation only with installation set Topload TL315 (799.350.808) or TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Protected wire without medium contact
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

d [mm]	d1 [mm]	Code	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	D [mm]	d2 [mm]	SDR pipe
710	315	**193 135 676**	14.000	174	266	500	157	500	250	11 - 33
800	315	**193 135 686**	13.500	174	261	500	157	500	250	11 - 33
900	315	**193 135 696**	13.100	174	251	500	157	500	250	11 - 33
900	500	**193 135 698**	32.600	237	406	700	219	700	397	11 - 33
1000	315	**193 135 706**	12.800	174	246	500	157	500	250	11 - 33
1000	500	**193 135 708**	31.400	237	396	700	219	700	397	11 - 33
1200	315	**193 135 716**	12.300	174	241	500	157	500	250	11 - 33
1200	500	**193 135 718**	29.400	237	378	700	219	700	397	11 - 33
1400	315	**193 135 726**	11.900	174	234	500	157	500	250	11 - 33
1400	500	**193 135 728**	28.100	237	363	700	219	700	397	11 - 33
1600	315	**193 135 736**	11.700	174	228	500	157	500	250	11 - 33
1600	500	**193 135 738**	27.100	237	352	700	219	700	397	11 - 33
2000	315	**193 135 746**	11.300	174	221	500	157	500	250	11 - 33
2000	500	**193 135 748**	25.700	237	337	700	219	700	397	11 - 33

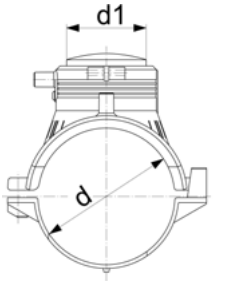


Cross connection branch saddle

- Enables the connection of two Branch Saddle as a cross
- Complete with screws, flat washers and nuts

d [mm]	Code	Weight [kg]
110 - 160	**193 280 880**	0.268
180 - 250	**193 280 881**	0.282



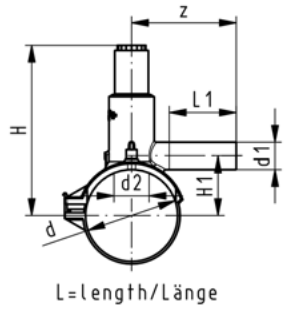


Repair saddle

- **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. 799.350.477

	d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]
	63	63	**193 130 037**	0.417	165
	75	63	**193 130 047**	0.574	165
	90	63	**193 130 057**	0.513	165
	110	63	**193 130 067**	0.565	165
	125	63	**193 130 077**	0.622	165
	140	63	**193 130 087**	0.660	165
	160	63	**193 130 097**	0.589	165
	180	63	**193 130 107**	0.733	165
	200	63	**193 130 117**	0.731	165
	225	63	**193 130 127**	0.708	165
	250	63	**193 130 137**	0.640	165
*	280	63	**193 130 147**	0.450	165
*	315 - 355	63	**193 130 157**	0.443	165
*	400	63	**193 130 177**	0.450	165



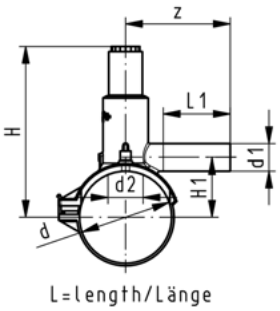


Tapping saddle Monobloc version

- **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
- *Compatible with GASSTOP type GS

	d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
*	63	20	**193 131 932**	0.368	25	146	44	144	76	110	9 - 11
	63	25	**193 131 933**	0.393	25	146	44	144	76	110	9 - 11
*	63	32	**193 131 934**	0.376	25	146	44	144	76	110	9 - 11
*	90	20	**193 131 952**	0.494	32	198	61	162	76	115	9 - 17.6
	90	25	**193 131 953**	0.503	32	198	61	162	76	115	9 - 17.6
*	90	32	**193 131 954**	0.505	32	198	61	162	76	115	9 - 17.6
	90	50	**193 131 956**	0.450	32	198	61	162	63	203	9 - 17.6
	90	63	**193 131 957**	0.667	32	198	61	162	76	115	9 - 17.6
	90	40	**193 131 955**	0.450	32	198	61	162	57	197	9 - 17.6
*	110	20	**193 131 962**	0.560	32	208	71	162	76	115	9 - 17.6
	110	25	**193 131 963**	0.570	32	208	71	162	76	115	9 - 17.6

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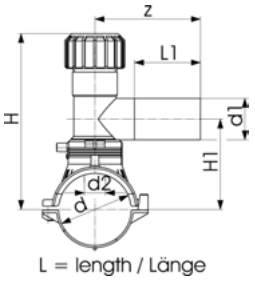


	d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
*	110	32	**193 131 964**	0.574	32	208	71	162	76	125	9 - 17.6
	110	40	**193 131 965**	0.600	32	208	71	162	57	192	9 - 17.6
	110	50	**193 131 966**	0.600	32	208	71	162	63	203	9 - 17.6
	110	63	**193 131 967**	0.684	32	208	71	162	100	160	9 - 17.6
*	125	20	**193 131 972**	0.562	32	216	79	162	76	120	9 - 17.6
	125	25	**193 131 973**	0.552	32	216	79	162	76	120	9 - 17.6
*	125	32	**193 131 974**	0.574	32	216	79	162	76	120	9 - 17.6
	125	40	**193 131 975**	0.597	32	216	79	162	57	197	9 - 17.6
	125	50	**193 131 976**	0.597	32	216	79	162	63	203	9 - 17.6
	125	63	**193 131 977**	0.704	32	216	79	162	76	120	9 - 17.6
*	160	20	**193 131 992**	0.631	32	233	96	162	76	120	9 - 17.6
	160	25	**193 131 993**	0.641	32	233	96	162	76	125	9 - 17.6
*	160	32	**193 131 994**	0.648	32	233	96	162	76	130	9 - 17.6
	160	40	**193 131 995**	0.790	32	233	96	162	57	197	9 - 17.6
	160	50	**193 131 996**	0.790	32	233	96	162	63	203	9 - 17.6
	160	63	**193 131 997**	0.794	32	233	96	162	100	170	9 - 17.6



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
- **Suitable to tap SDR11 pipes**
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- Delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

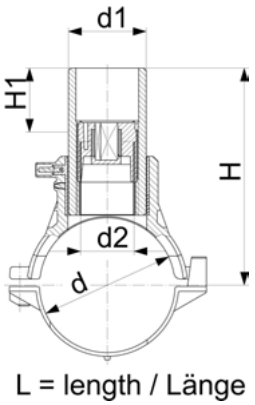


d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
315-355	63	**193 131 867**	1.473	33	328	206	165	100	160
400	63	**193 131 877**	1.473	33	328	206	165	100	160



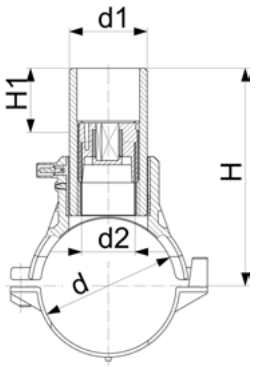
Spigot saddle with cutter

- **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. 799.350.477; angle adaptor (799.350.340) for fusion cable required



	d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]	SDR pipe
	63	32	**193 131 234**	0.469	19	145	50	165	13	9 - 11
	63	63	**193 131 237**	1.036	32	152	50	165	17	9 - 11
	75	32	**193 131 244**	0.618	19	151	50	165	13	9 - 11
	75	63	**193 131 247**	1.166	32	158	50	165	17	9 - 11
	90	32	**193 131 254**	0.543	19	158	50	165	13	9 - 11
	90	63	**193 131 257**	1.128	32	165	50	165	17	9 - 11
	110	32	**193 131 264**	0.607	19	168	50	165	13	9 - 11
	110	63	**193 131 267**	1.195	32	175	50	165	17	9 - 11
	125	32	**193 131 274**	0.659	19	176	50	165	13	9 - 11

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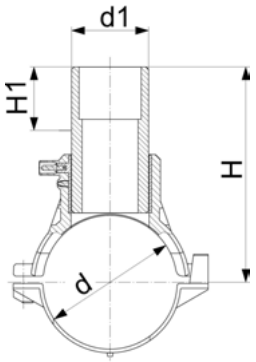
L = length / Länge

	d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]	SDR pipe
	125	63	**193 131 277**	1.224	32	183	50	165	17	9 - 11
	140	32	**193 131 284**	0.679	19	183	50	165	13	9 - 11
	140	63	**193 131 287**	1.224	32	190	50	165	17	9 - 11
	160	32	**193 131 294**	0.652	19	193	50	165	13	9 - 11
	160	63	**193 131 297**	1.186	32	200	50	165	17	9 - 11
	180	32	**193 131 304**	0.777	19	203	50	165	13	9 - 26
	180	63	**193 131 307**	1.316	32	210	50	165	17	9 - 26
	200	32	**193 131 314**	0.854	19	213	50	165	13	9 - 26
	200	63	**193 131 317**	1.352	32	220	50	165	17	9 - 26
	225	32	**193 131 324**	0.856	19	226	50	165	13	11 - 26
	225	63	**193 131 327**	1.324	32	233	50	165	17	11 - 26
	250	32	**193 131 334**	0.787	19	238	50	165	13	11 - 26
	250	63	**193 131 337**	1.348	32	245	50	165	17	11 - 26
*	280	63	**193 131 347**	0.830	35	245	50	165	17	11 - 26
*	315 - 355	63	**193 131 357**	1.094	35	245	50	165	17	17 - 33
*	400	63	**193 131 377**	0.830	35	245	50	165	17	17 - 33



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. 799.350.477; angle adaptor (799.350.340) for fusion cable required

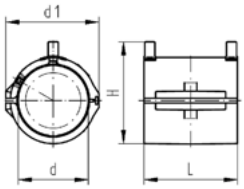


L = length / Länge

	d [mm]	d1 [mm]	Code	Weight [kg]	H [mm]	H1 [mm]	L [mm]
	63	32	**193 130 234**	0.434	145	50	165
	63	63	**193 130 237**	0.630	152	50	165
	75	32	**193 130 244**	0.634	151	50	165
	75	63	**193 130 247**	0.536	158	50	165
	90	32	**193 130 254**	0.508	158	50	165
	90	63	**193 130 257**	0.573	165	50	165
	110	32	**193 130 264**	0.590	168	50	165
	110	63	**193 130 267**	0.600	175	50	165
	125	32	**193 130 274**	0.594	176	50	165
	125	63	**193 130 277**	0.660	183	50	165
	140	32	**193 130 284**	0.638	183	50	165
	140	63	**193 130 287**	0.594	190	50	165
	160	32	**193 130 294**	0.600	193	50	165
	160	63	**193 130 297**	0.658	200	50	165
	180	32	**193 130 304**	0.742	203	50	165
	180	63	**193 130 307**	0.771	210	50	165
	200	32	**193 130 314**	0.766	213	50	165
	200	63	**193 130 317**	0.762	220	50	165
	225	32	**193 130 324**	0.730	226	50	165
	225	63	**193 130 327**	0.782	233	50	165
	250	32	**193 130 334**	0.741	238	50	165
	250	63	**193 130 337**	0.792	245	50	165
*	280	63	**193 130 347**	0.400	245	50	165
*	315 - 355	63	**193 130 357**	0.503	245	50	165
*	400	63	**193 130 377**	0.400	245	50	165

Reinforcing saddle





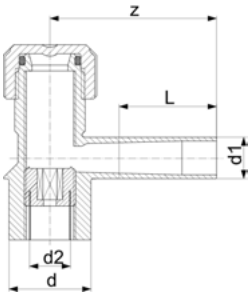
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- **Fusion voltage 24 Volt**
- 4 mm pin connectors
- For use as a repair saddle with PE repair plug (Code 799.199.088 and 799.199.089) and as reinforcing saddle with an fusion area which extends the whole circumference of the pipe
- Use Spring clamp (Code 799.150.090) for installation

d [mm]	**Code**	**Weight** [kg]	**d1** [mm]	**L** [mm]	**H** [mm]
40	**193 127 017**	0.135	104	105	108
50	**193 127 027**	0.200	80	105	85
63	**193 127 037**	0.255	132	120	153
75	**193 127 047**	0.430	162	130	122
90	**193 127 057**	0.547	104	130	147
110	**193 127 067**	0.528	120	120	191
125	**193 127 077**	0.757	158	130	184
160	**193 127 097**	0.961	192	130	218
180	**193 127 107**	1.095	214	130	239
200	**193 127 117**	1.145	236	130	260
225	**193 127 127**	1.399	262	140	286

ELGEF Plus modular system

Tapping tee



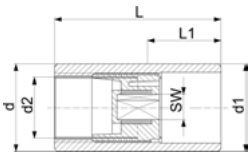


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Long fusion outlet
- O-ring-sealed screw cap
- For ELGEF Plus Branch Saddle d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle d90-315mm, pipe SDR 17
- *For ELGEF Plus Branch Saddle d250-315mm, pipe SDR 11 and d250-400mm, pipe SDR 17
- **For ELGEF Plus Branch Saddle d110 - 225mm, pipe SDR11 and d110 - 315mm, pipe SDR17

	d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	L [mm]	z [mm]	SW [mm]
	63	20	**193 280 358**	0.380	32	69	130	17
	63	25	**193 280 359**	0.375	32	70	130	17
	63	32	**193 280 184**	0.377	32	76	130	17
	63	40	**193 280 360**	0.396	32	81	137	17
	63	63	**193 280 185**	1.099	32	100	160	17
*	63	63	**193 280 711**	1.120	35	100	160	17
**	63	63	**193 280 290**	1.086	41	100	160	17

Spigot with cutter



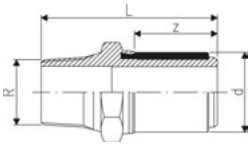


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- For ELGEF Plus Branch Saddle d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle d75 - 315mm, pipe SDR 17 and d250 - 400mm, pipe SDR 26

d [mm]	d1 [mm]	Code	Weight [kg]	d2 [mm]	L [mm]	L1 [mm]	SW [mm]
63	32	**193 280 272**	0.144	19	113	50	13
63	63	**193 280 273**	0.692	32	120	50	17

Transition adaptor PE/brass (Ms 58) Male thread

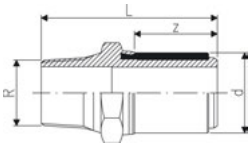




- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

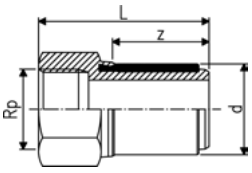
d [mm]	R [inch]	Code	Weight [kg]	L [mm]	z [mm]
20	½	**720 920 706**	0.133	75	33
25	¾	**720 920 707**	0.182	76	33
32	1	**720 920 708**	0.257	80	35
32	1 ¼	**720 920 718**	0.370	82	35
32	1 ½	**720 920 728**	0.437	82	35
40	1	**720 920 719**	0.358	84	39
40	1 ¼	**720 920 709**	0.405	86	39
40	1 ½	**720 920 729**	0.454	86	39
50	1	**720 920 720**	0.505	88	43
50	1 ¼	**720 920 730**	0.539	90	43

table continued next page



d [mm]	R [inch]	Code	Weight [kg]	L [mm]	z [mm]
50	1 ½	**720 920 710**	0.514	90	43
63	1 ¼	**720 920 721**	0.739	94	47
63	1 ½	**720 920 731**	0.709	94	47
63	2	**720 920 711**	0.762	98	47



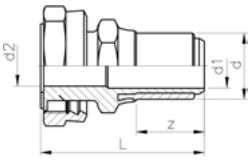


Transition adaptor PE/brass (Ms 58) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]	z [mm]
32	1	**720 920 208**	0.250	71	35
40	1 ¼	**720 920 209**	0.386	77	39
50	1 ½	**720 920 210**	0.594	81	43
63	1	**720 920 221**	1.100	89	47
63	1 ¼	**720 920 231**	1.062	89	47
63	1 ½	**720 920 241**	0.958	89	47
63	2	**720 920 211**	0.832	89	47



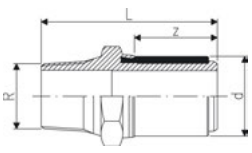


Transition adaptor PE/brass Loose nut (Ms 58)

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)

d [mm]	Rp [inch]	Code	Weight [kg]	d2 [mm]	L [mm]	z [mm]
25	¾	**720 920 007**	0.152	15	68	32
32	1	**720 920 008**	0.235	20	72	34
32	1 ¼	**720 920 018**	0.356	22	76	34
50	1 ½	**720 920 010**	0.584	29	87	42
63	1	**720 920 021**	0.804	20	87	46
63	2	**720 920 011**	1.018	36	95	46



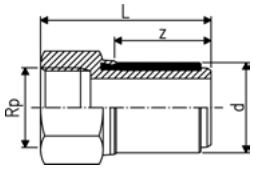


Transition adaptor PE/steel (stainless 1.4305) Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	R [inch]	Code	Weight [kg]	L [mm]	z [mm]
20	½	**724 920 706**	0.120	75	33
25	¾	**724 920 707**	0.179	76	33
32	1	**724 920 708**	0.244	80	35
40	1 ¼	**724 920 709**	0.380	86	39
40	1 ½	**724 920 719**	0.446	86	39
50	1 ½	**724 920 710**	0.478	90	43
63	1 ½	**724 920 721**	0.653	98	47
63	2	**724 920 711**	0.722	98	47





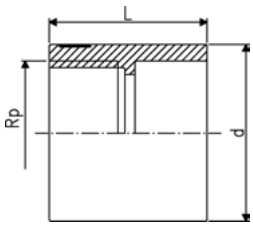
Transition adaptor PE/steel (stainless 1.4305)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]	z [mm]
20	½	**724 920 206**	0.128	65	33
25	¾	**724 920 207**	0.181	66	33
32	1	**724 920 208**	0.237	71	35
40	1 ¼	**724 920 209**	0.373	77	39
50	1 ½	**724 920 210**	0.527	81	43
63	2	**724 920 211**	0.733	89	47







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)

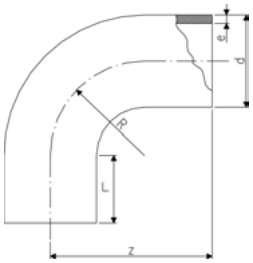
	d [mm]	Rp [inch]	Code	Weight [kg]	L [mm]
*	63	½	**193 281 617**	0.060	68
	63	1 ½	**173 281 925**	0.088	54

Spigot fittings in PE100

Bends

Bend 90° PE100 SDR11





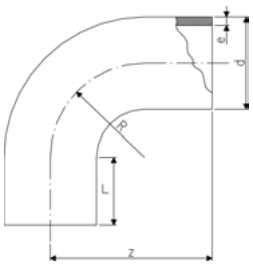
- Long spigot version
- bends made out of seamless pipe shall not be shortened
- 10 bar Gas / 16 bar Water

* made out of seamless pipe. This shall not be shortened.

	d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
	32	**753 001 008**	0.050	78	46	32	2,9
	40	**753 001 009**	0.090	91	49	40	3,7
	50	**753 001 010**	0.160	107	55	50	4,6
	63	**753 001 011**	0.280	130	63	63	5,8
	75	**753 001 012**	0.464	152	70	75	6,8
	90	**753 001 013**	0.530	168	79	90	8,2
	110	**753 001 014**	1.282	193	82	110	10,0
	125	**753 001 015**	1.290	216	87	125	11,4
	140	**753 001 016**	2.230	232	92	140	12,7
	160	**753 001 017**	3.424	258	98	160	14,6
	180	**753 001 018**	5.000	290	105	180	16,4
	200	**753 001 019**	6.925	317	112	200	18,2
	225	**753 001 020**	9.770	350	120	225	20,5
	250	**753 001 021**	9.230	375	130	250	22,7
	280	**753 001 022**	15.487	430	150	280	25,4
	315	**753 001 023**	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**	469.943	2200	570	1630	
*	800	**753 001 031**	577.131	2200	480	1720	

Bend 90° PE100 SDR17





- Long spigot version
- 5 bar Gas / 10 bar Water
- bends made out of seamless pipe shall not be shortened

* made out of seamless pipe. This shall not be shortened.

	d [mm]	Code	Weight [kg]	L [mm]	R [mm]	z [mm]	e [mm]
	90	**753 000 813**	0.520	79	90	168	5,4
	110	**753 000 814**	0.465	82	110	193	6,6
	125	**753 000 815**	1.300	87	125	216	7,4
	140	**753 000 816**	1.789	92	140	232	8,3
	160	**753 000 817**	2.410	98	160	258	9,5
	180	**753 000 818**	4.000	105	180	290	10,7
	200	**753 000 819**	6.500	112	200	317	11,9
	225	**753 000 820**	6.414	120	225	350	13,4
	250	**753 000 821**	9.940	130	250	375	14,8
	280	**753 000 822**	13.795	150	280	430	16,6
	315	**753 000 823**	24.000	150	315	470	18,7
*	355	**753 000 824**	36.700	250	533	900	21,1
*	400	**753 000 825**	49.700	250	600	980	23,7
*	450	**753 000 826**	66.600	250	675	1070	26,7
*	500	**753 000 827**	87.400	280	750	1200	29,7
*	560	**753 000 828**	116.000	280	840	1290	33,2
*	630	**753 000 829**	159.600	280	945	1400	37,4
*	710	**753 000 830**	317.382	570	1630	2200	
*	800	**753 000 831**	389.859	480	1720	2200	

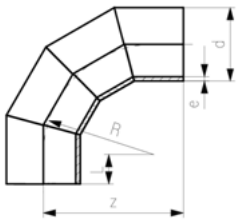


Bend 90° PE100 SDR17

Model:

- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

- Long spigot version

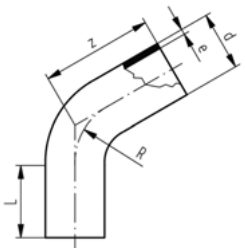


d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
710	**753 002 001**	202.419	1415	350	1065	42.1
800	**753 002 002**	279.918	1550	350	1200	47.4
900	**753 002 003**	386.595	1700	350	1350	53.3
1000	**753 002 004**	534.660	1900	400	1500	59.3



Bend 60° PE100 SDR11

- bends made out of seamless pipe shall not be shortened
- made out of seamless pipe
- Long spigot version
- 10 bar Gas / 16 bar Water

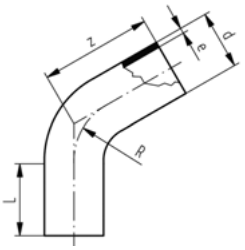


d [mm]	Code	Weight [kg]	R [mm]	L [mm]	z [mm]	e [mm]
32	**753 071 008**	0.070	48	80	128	2,9
40	**753 071 009**	0.120	60	80	135	3,7
50	**753 071 010**	0.240	75	100	158	4,6
63	**753 071 011**	0.420	95	100	173	5,8
75	**753 071 012**	0.600	113	100	182	6,8
90	**753 071 013**	0.900	135	100	193	8,2
110	**753 071 014**	1.780	165	150	270	10,0
125	**753 071 015**	2.500	188	150	283	11,4
140	**753 071 016**	2.700	210	150	296	12,7
160	**753 071 017**	4.574	240	150	313	14,6
180	**753 071 018**	4.900	270	150	330	16,4
200	**753 071 019**	6.400	300	150	348	18,2
225	**753 071 020**	8.600	338	150	370	20,5
250	**753 071 021**	14.500	375	250	500	22,7
280	**753 071 022**	19.100	420	250	530	25,4
315	**753 071 023**	25.600	473	250	612	28,6
355	**753 071 024**	41.700	533	300	690	32,3
400	**753 071 025**	55.800	600	300	730	36,4
450	**753 071 026**	76.000	675	300	780	40,9
500	**753 071 027**	104.600	750	350	880	45,5
560	**753 071 028**	139.500	840	350	930	50,9
630	**753 071 029**	188.500	945	350	1000	57,3



Bend 60° PE100 SDR17/17,6

- bends made out of seamless pipe shall not be shortened
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe

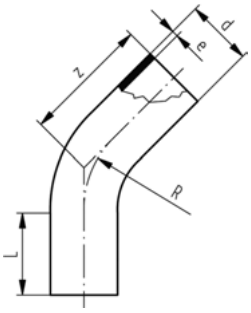


d [mm]	Code	Weight [kg]	e [mm]	R [mm]	z [mm]	L [mm]
90	**753 070 813**	0.600	5,4	135	193	100
110	**753 070 814**	1.280	6,6	165	270	150
125	**753 070 815**	1.300	7,4	187	283	150
140	**753 070 816**	1.800	8,3	210	296	150
160	**753 070 817**	3.160	9,5	240	313	150
180	**753 070 818**	3.190	10,7	270	330	150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



Bend 45° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened



d [mm]	Code	Weight [kg]	e [mm]	z [mm]	R [mm]	L [mm]
32	**753 051 008**	0.077	2,9	120	48	80
40	**753 051 009**	0.120	3,7	120	60	80
50	**753 051 010**	0.240	4,6	149	75	100
63	**753 051 011**	0.360	5,8	161	95	100
75	**753 051 012**	0.560	6,8	168	113	100
90	**753 051 013**	0.760	8,2	177	135	100
110	**753 051 014**	1.700	10,0	243	165	150
125	**753 051 015**	2.186	11,4	253	188	150
140	**753 051 016**	2.800	12,7	262	210	150
160	**753 051 017**	3.800	14,6	274	240	160
180	**753 051 018**	5.140	16,4	287	270	150
200	**753 051 019**	7.058	18,2	299	300	150
225	**753 051 020**	7.400	20,5	315	338	150
250	**753 051 021**	13.000	22,7	440	375	250
280	**753 051 022**	22.000	25,4	460	420	250
315	**753 051 023**	24.930	28,6	535	473	250
355	**753 051 024**	39.500	32,3	620	533	300
400	**753 051 025**	48.500	36,4	650	600	300
450	**753 051 026**	69.800	40,9	680	675	300
500	**753 051 027**	96.300	45,5	760	750	350
560	**753 051 028**	129.800	50,9	800	840	350
630	**753 051 029**	174.000	57,3	870	945	350

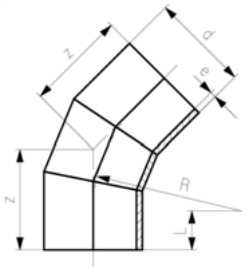


Bend 45° PE100 SDR17/17,6

Model:

- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

- Long spigot version

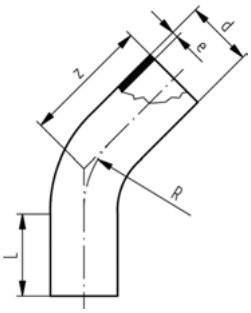


d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
710	**753 003 001**	129.998	792	350	1065	42.1
800	**753 003 002**	176.165	847	350	1200	47.4
900	**753 003 003**	252.638	960	350	1350	53.3
1000	**753 003 004**	332.107	1022	400	1500	59.3



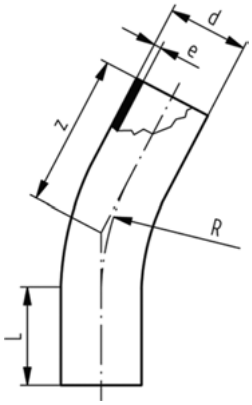
Bend 45° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened



d [mm]	Code	Weight [kg]	R [mm]	e [mm]	z [mm]	L [mm]
90	**753 050 813**	0.600	135	5,4	177	100
110	**753 050 814**	1.208	165	6,6	243	150
125	**753 050 815**	1.540	188	7,4	253	150
140	**753 050 816**	1.720	210	8,3	262	150
160	**753 050 817**	2.200	240	9,5	274	150
180	**753 050 818**	3.000	270	10,7	287	150
200	**753 050 819**	3.700	300	11,9	299	150
225	**753 050 820**	5.000	338	13,4	315	150
250	**753 050 821**	10.691	375	14,8	440	250
280	**753 050 822**	15.000	420	16,6	460	250
315	**753 050 823**	17.800	473	18,7	535	250
355	**753 050 824**	25.600	533	21,1	620	300
400	**753 050 825**	36.600	600	23,7	650	300
450	**753 050 826**	45.300	675	26,7	680	300
500	**753 050 827**	62.400	750	29,7	760	350
560	**753 050 828**	81.900	840	33,2	800	350
630	**753 050 829**	62.400	945	37,4	870	350



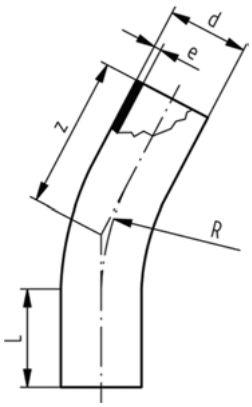


Bend 30° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	L [mm]	z [mm]	e [mm]	R [mm]
32	**753 061 008**	0.077	80	113	2,9	48
40	**753 061 009**	0.120	80	116	3,7	60
50	**753 061 010**	0.200	100	140	4,6	75
63	**753 061 011**	0.400	100	150	5,8	95
75	**753 061 012**	0.520	100	155	6,8	113
90	**753 061 013**	0.760	100	160	8,2	135
110	**753 061 014**	1.689	150	219	10,0	165
125	**753 061 015**	2.096	150	225	11,4	188
140	**753 061 016**	2.200	150	231	12,7	210
160	**753 061 017**	3.650	150	239	14,6	240
180	**753 061 018**	4.782	150	247	16,4	270
200	**753 061 019**	5.777	150	255	18,2	300
225	**753 061 020**	6.300	150	266	20,5	338
250	**753 061 021**	13.100	250	385	22,7	375
280	**753 061 022**	16.300	250	400	25,4	420
315	**753 061 023**	21.850	250	460	28,6	473
355	**753 061 024**	34.900	300	540	32,3	533
400	**753 061 025**	45.900	300	560	36,4	600
450	**753 061 026**	60.200	300	580	40,9	675
500	**753 061 027**	83.300	350	630	45,5	750
560	**753 061 028**	108.600	350	680	50,9	840
630	**753 061 029**	148.300	350	730	57,3	945



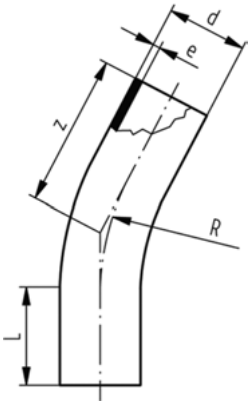


Bend 30° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 060 813**	0.500	160	100	135	5,4
110	**753 060 814**	1.060	219	150	165	6,6
125	**753 060 815**	1.100	225	150	188	7,4
140	**753 060 816**	1.720	231	150	210	8,3
160	**753 060 817**	2.565	239	150	240	9,5
180	**753 060 818**	3.389	247	150	270	10,7
200	**753 060 819**	4.213	255	150	300	11,9
225	**753 060 820**	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**	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



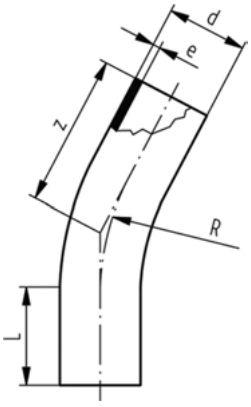


Bend 22° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 081 008**	0.077	113	80	48	2,9
40	**753 081 009**	0.120	116	80	60	3,7
50	**753 081 010**	0.200	140	100	75	4,6
63	**753 081 011**	0.400	150	100	95	5,8
75	**753 081 012**	0.520	155	100	113	6,8
90	**753 081 013**	0.760	160	100	135	8,2
110	**753 081 014**	1.500	219	150	165	10,0
125	**753 081 015**	2.000	225	150	188	11,4
140	**753 081 016**	2.200	231	150	210	12,7
160	**753 081 017**	3.300	239	150	240	14,6
180	**753 081 018**	3.700	247	150	270	16,4
200	**753 081 019**	4.750	255	150	300	18,2
225	**753 081 020**	6.300	266	150	338	20,5
250	**753 081 021**	14.015	385	250	375	22,7
280	**753 081 022**	18.510	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



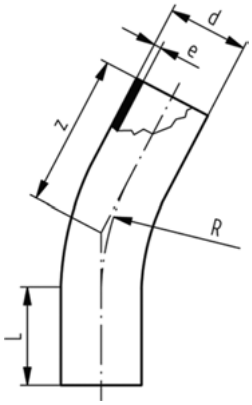


Bend 22° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	R [mm]	e [mm]	z [mm]	L [mm]
90	**753 080 813**	0.500	135	5	160	100
110	**753 080 814**	1.060	165	7	219	150
125	**753 080 815**	1.100	188	7	225	150
140	**753 080 816**	1.720	210	8	231	150
160	**753 080 817**	1.900	240	10	239	150
180	**753 080 818**	3.318	270	11	247	150
200	**753 080 819**	3.200	300	12	255	150
225	**753 080 820**	5.431	338	13	266	150
250	**753 080 821**	9.904	375	15	385	250
280	**753 080 822**	12.800	420	17	400	250
315	**753 080 823**	14.144	473	19	460	250
355	**753 080 824**	22.700	533	21	540	300
400	**753 080 825**	29.800	600	24	560	300
450	**753 080 826**	39.100	675	27	580	300
500	**753 080 827**	54.000	750	30	650	350
560	**753 080 828**	70.300	840	33	680	350
630	**753 080 829**	95.800	945	37	730	350



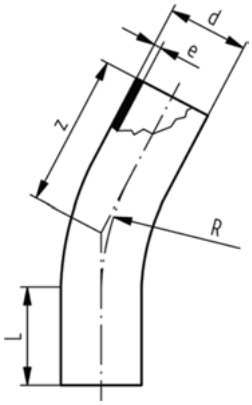


Bend 11° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	L [mm]	e [mm]	z [mm]	R [mm]
32	**753 091 008**	0.077	80	3	113	48
40	**753 091 009**	0.120	80	4	116	60
50	**753 091 010**	0.200	100	5	140	75
63	**753 091 011**	0.400	100	6	150	95
75	**753 091 012**	0.520	100	7	155	113
90	**753 091 013**	0.760	100	8	160	135
110	**753 091 014**	1.500	150	10	219	165
125	**753 091 015**	2.000	150	11	225	188
140	**753 091 016**	2.200	150	13	231	210
160	**753 091 017**	3.300	150	15	239	240
180	**753 091 018**	3.700	150	16	247	270
200	**753 091 019**	4.750	150	18	255	300
225	**753 091 020**	7.773	150	21	266	338
250	**753 091 021**	13.100	250	23	385	375
280	**753 091 022**	16.300	250	25	400	420
315	**753 091 023**	21.845	250	29	460	473
355	**753 091 024**	34.900	300	32	540	533
400	**753 091 025**	45.900	300	36	560	600
450	**753 091 026**	60.200	300	41	580	675
500	**753 091 027**	83.300	350	46	650	750
560	**753 091 028**	108.600	350	51	680	840
630	**753 091 029**	148.300	350	57	730	945





Bend 11° PE100 SDR17/17,6

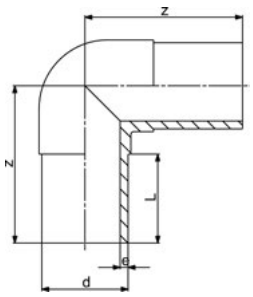
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 090 813**	0.500	160	100	135	5
110	**753 090 814**	1.060	219	150	165	7
125	**753 090 815**	1.100	225	150	188	7
140	**753 090 816**	1.720	231	150	210	8
160	**753 090 817**	2.653	239	150	240	10
180	**753 090 818**	2.500	247	150	270	11
200	**753 090 819**	4.308	255	150	300	12
225	**753 090 820**	7.540	266	150	338	13
250	**753 090 821**	11.600	385	250	375	15
280	**753 090 822**	12.800	400	250	420	17
315	**753 090 823**	25.000	460	250	473	19
355	**753 090 824**	22.700	540	300	533	21
400	**753 090 825**	29.800	560	300	600	24
450	**753 090 826**	39.100	580	300	675	27
500	**753 090 827**	54.000	650	350	750	30
560	**753 090 828**	70.300	680	350	840	33
630	**753 090 829**	95.800	730	350	945	37

Elbows

Elbow 90° PE 100 SDR11



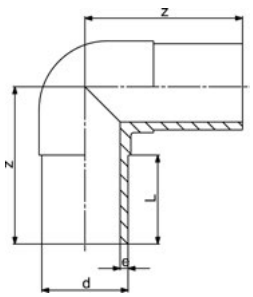


- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]	PF
20	**753 101 006**	0.027	75	52	3.0	2 51 301 001
25	**753 101 007**	0.040	80	52	3.0	2 51 301 001
32	**753 101 008**	0.056	85	54	3.0	2 51 301 001
40	**753 101 009**	0.089	95	57	3.7	2 51 301 001
50	**753 101 010**	0.156	105	63	4.6	2 51 301 001
63	**753 101 011**	0.274	115	65	5.8	2 51 301 001
75	**753 101 012**	0.414	130	72	6.8	2 51 301 001
90	**753 101 013**	0.704	150	81	8.2	2 51 301 001
110	**753 101 014**	1.158	165	86	10.0	2 51 301 001
125	**753 101 015**	1.609	180	92	11.4	2 51 301 001
140	**753 101 016**	2.222	194	92	12.7	2 51 301 001
160	**753 101 017**	3.100	210	102	14.6	2 51 301 001
180	**753 101 018**	4.328	232	107	16.4	2 51 301 001
200	**753 101 019**	5.739	253	117	18.2	2 51 301 001
225	**753 101 020**	7.775	270	122	20.5	2 51 301 001
250	**753 101 001**	10.506	292	130	22.7	2 51 301 002
280	**753 100 922**	15.059	320	140	25.4	2 51 301 002
315	**753 100 923**	21.960	370	150	28.6	2 51 301 002

Elbow 90° PE100 SDR17/17,6



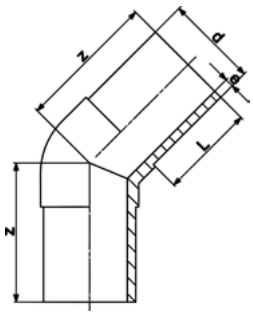


- Long spigot version
- 5 bar Gas / 10 bar Water

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]	PSI
90	**753 100 813**	0.543	150	81	5,4	130
110	**753 100 814**	0.876	165	86	6,6	130
125	**753 100 815**	0.927	180	93	7,4	130
140	**753 100 816**	1.547	194	92	8,3	130
160	**753 100 817**	2.385	210	102	9,5	130
180	**753 100 818**	3.205	232	107	10,7	130
200	**753 100 819**	4.298	253	115	11,9	130
225	**753 100 820**	5.864	270	120	13,4	130
250	**753 100 821**	8.000	292	130	14,8	130
280	**753 100 822**	11.328	320	140	16,6	
315	**753 100 823**	15.877	370	150	18,7	

Elbow 45° PE100 SDR11

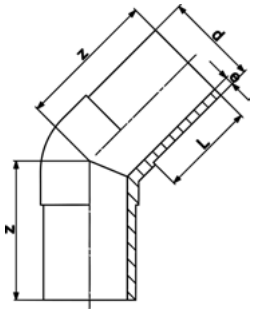




- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
20	**753 151 006**	0.027	70	52	3,0
25	**753 151 007**	0.037	75	52	3,0
32	**753 151 008**	0.050	80	54	3,0
40	**753 151 009**	0.086	85	57	3,7
50	**753 151 010**	0.133	90	63	4,6
63	**753 151 011**	0.227	95	65	5,8
75	**753 151 012**	0.350	105	72	6,8
90	**753 151 013**	0.565	120	81	8,2
110	**753 151 014**	0.921	130	86	10,0
125	**753 151 015**	1.290	140	92	11,4
140	**753 151 016**	1.796	164	120	12,7

table continued next page

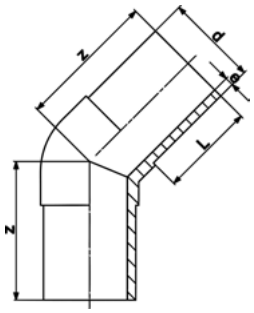


d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
160	**753 151 017**	2.454	162	102	14,6
180	**753 151 018**	3.274	170	107	16,4
200	**753 151 019**	4.362	186	116	18,2
225	**753 151 020**	5.981	200	123	20,5
250	**753 151 021**	8.283	220	130	22,7
280	**753 150 922**	10.285	230	140	25,4
315	**753 150 923**	14.124	250	150	28,6



Elbow 45° PE100 SDR17/17,6

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

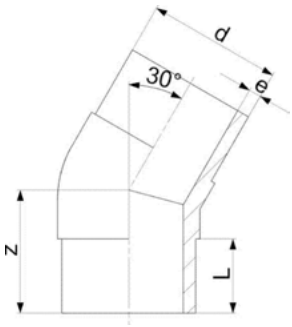


d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]	PSI
90	**753 150 813**	0.411	120	81	5,4	130
110	**753 150 814**	0.686	130	86	6,6	130
125	**753 150 815**	0.948	140	92	7,4	
140	**753 150 816**	1.259	164	120	8,3	
160	**753 150 817**	1.901	162	102	9,5	130
180	**753 150 818**	2.386	170	107	10,7	
200	**753 150 819**	3.153	186	116	11,9	
225	**753 150 820**	4.441	205	123	13,4	130
250	**753 150 821**	6.012	217	130	14,8	130
280	**753 150 822**	7.489	230	140	16,6	
315	**753 150 823**	10.123	250	150	18,7	



Elbow 30° PE100 SDR11

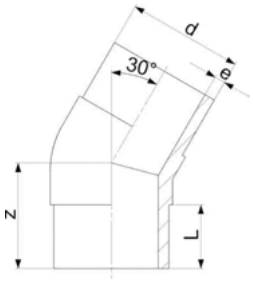
- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design



d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
32	**753 120 908**	0.530	70	54	3,0
40	**753 120 909**	0.530	80	57	3,7
50	**753 120 910**	0.121	80	63	4,6
63	**753 120 911**	0.207	80	65	5,8
75	**753 120 912**	0.311	90	72	6,8
90	**753 120 913**	0.510	100	81	8,2
110	**753 120 914**	0.840	105	86	10,0
125	**753 120 915**	1.174	115	92	11,4
140	**753 120 916**	1.760	135	92	12,7
160	**753 120 917**	2.155	130	102	14,6
180	**753 120 918**	2.911	140	107	16,4
200	**753 120 919**	3.892	150	116	18,2
225	**753 120 920**	5.332	165	123	20,5
250	**753 120 921**	7.307	190	130	22,7
280	**753 120 922**	10.600	200	139	25,4
315	**753 120 923**	12.775	200	150	28,6

Elbow 30° PE100 SDR17/17,6



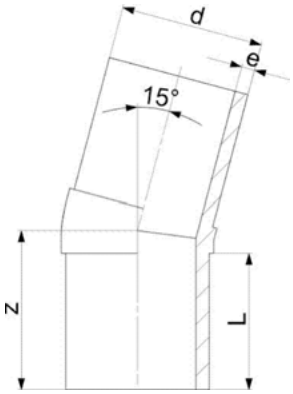


- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
90	**753 120 813**	0.363	110	81	5,4
110	**753 120 814**	0.607	115	86	6,6
125	**753 120 815**	0.819	125	92	7,4
140	**753 120 816**	1.112	150	92	8,3
160	**753 120 817**	1.526	140	102	9,5
180	**753 120 818**	2.040	150	107	10,7
200	**753 120 819**	2.780	160	116	11,9
225	**753 120 820**	3.798	180	123	13,4
250	**753 120 821**	5.039	200	130	14,8
280	**753 120 822**	8.100	200	139	16,6
315	**753 120 823**	8.655	220	150	18,7

Elbow 15° type L PE100 SDR11



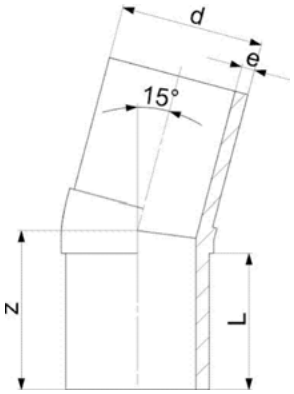


- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
32	**753 141 008**	0.051	70	54	3
40	**753 141 009**	0.082	80	57	4
50	**753 141 010**	0.118	80	63	5
63	**753 141 011**	0.200	80	65	6
75	**753 141 012**	0.290	90	72	7
90	**753 141 013**	0.479	100	81	8
110	**753 141 014**	0.785	105	86	10
125	**753 141 015**	1.063	115	92	11
140	**753 141 016**	1.600	135	92	13
160	**753 141 017**	2.170	130	102	15
180	**753 141 018**	2.653	140	107	16
200	**753 141 019**	3.438	150	116	18
225	**753 141 020**	4.765	165	123	21
250	**753 141 021**	8.300	190	130	23
280	**753 141 022**	8.322	200	139	25
315	**753 141 023**	11.292	200	150	29

Elbow 15° PE100 SDR17/17,6



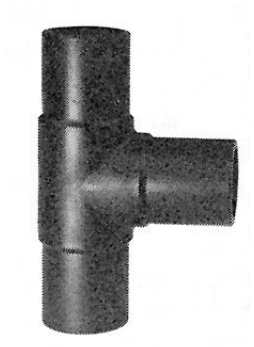


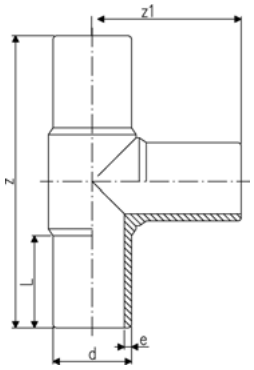
- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
90	**753 140 813**	0.337	100	81	5
110	**753 140 814**	0.551	105	86	7
125	**753 140 815**	0.728	115	92	7
140	**753 140 816**	0.370	135	92	8
160	**753 140 817**	1.364	130	102	10
180	**753 140 818**	2.040	140	107	11
200	**753 140 819**	2.371	150	116	12
225	**753 140 820**	3.335	165	123	13
250	**753 140 821**	5.830	190	130	15
280	**753 140 822**	8.100	195	139	17
315	**753 140 823**	7.528	200	150	19

Tees

Tee 90° equal PE100 SDR11

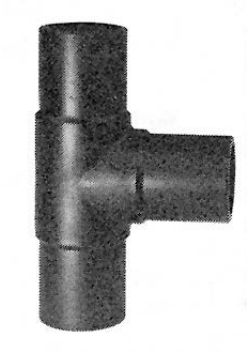


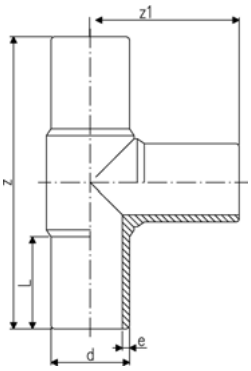


- Long spigot version
- 10 bar Gas / 16 bar Water

* With welded pipes
* Segment welded and reinforced
* No pressure reduction factor

	d [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
	20	**753 201 006**	0.038	150	75	52	3,0
	25	**753 201 007**	0.054	160	80	52	3,0
	32	**753 201 008**	0.077	170	85	54	3,0
	40	**753 201 009**	0.130	190	95	57	3,7
	50	**753 201 010**	0.214	210	105	63	4,6
	63	**753 201 011**	0.376	230	115	65	5,8
	75	**753 201 012**	0.599	264	132	72	6,8
	90	**753 201 013**	1.021	300	150	81	8,2
	110	**753 201 014**	1.612	330	165	86	10,0
	125	**753 201 015**	2.420	366	183	92	11,4
	140	**753 201 016**	3.090	393	193	92	12,7
	160	**753 201 017**	4.403	420	210	102	14,6
	180	**753 201 018**	6.014	460	230	107	16,4
	200	**753 201 019**	8.480	500	250	117	18,2
	225	**753 201 020**	11.507	540	270	122	20,5
	250	**753 201 001**	14.099	575	288	130	22,7
	280	**753 200 902**	18.670	615	308	139	25,4
	315	**753 200 903**	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





Tee 90° equal PE100 SDR17/17,6

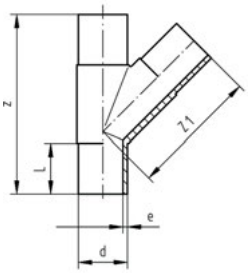
- Long spigot version
* Segment welded and reinforced
* With welded pipes
* No pressure reduction factor

Model:

- 5 bar Gas / 10 bar Water

	d [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
	90	**753 200 813**	0.777	300	150	80	5,4
	110	**753 200 814**	1.231	330	165	86	6,6
	125	**753 200 815**	1.690	366	183	92	7,4
	140	**753 200 816**	2.202	396	196	92	8,3
	160	**753 200 817**	3.201	428	214	104	9,5
	180	**753 200 818**	4.287	460	230	105	10,7
	200	**753 200 819**	5.889	500	250	115	11,9
	225	**753 200 820**	7.886	540	270	122	13,4
	250	**753 200 821**	10.000	575	288	130	14,8
	280	**753 200 802**	13.350	615	308	139	16,6
	315	**753 200 803**	17.985	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





Tee 45° equal PE100 SDR11

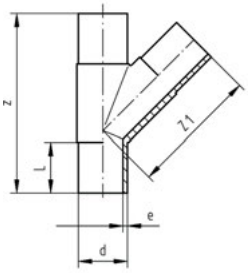
Model:

- 10 bar Gas / 16 bar Water

- See general information for maximum allowable operating pressure

d [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
50	**753 251 010**	0.300	218	139	56	4.6
63	**753 251 011**	0.440	252	156	65	6.2
75	**753 251 012**	0.800	301	190	70	6,8
90	**753 251 013**	1.373	368	234	79	8,2
110	**753 251 014**	1.800	395	260	82	10,0



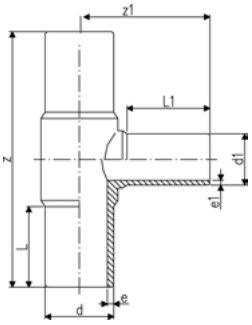


Tee 45° equal PE100 SDR17/17,6

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

d [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
90	**753 251 063**	0.800	368	234	79	5,4
110	**753 251 064**	1.400	395	260	82	6,6





Tee 90° reduced PE100 SDR11

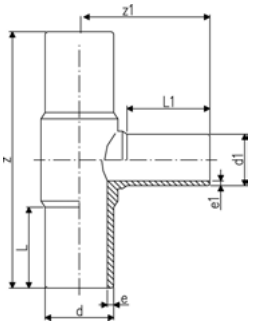
Model:

- moulded
- 10 bar Gas / 16 bar Water

- Long spigot version

d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
63	40	**753 201 026**	0.312	230	107	60	58	2	1,75
63	50	**753 201 044**	0.305	216	103	60	56	5.8	4.6
75	32	**753 201 045**	0.519	258	106	70	46	6.8	2.9
75	50	**753 201 046**	0.531	257	110	70	56	6.8	4.6
75	63	**753 201 047**	0.554	252	117	70	63	6.8	5.8
90	50	**753 201 027**	0.794	280	120	79	55	8.2	4.6
90	63	**753 201 029**	0.775	282	127	79	63	8.2	5.8
90	75	**753 201 030**	0.779	272	138	73	68	8.2	6.8
110	63	**753 201 028**	1.409	322	148	87	63	10.0	5.8
110	75	**753 201 031**	1.221	305	148	83	68	10.0	6.8
110	90	**753 201 032**	1.275	322	164	86	79	10.0	8.2
125	90	**753 201 048**	1.717	332	168	109	89	11.4	8.2
125	110	**753 201 033**	1.909	340	167	90	83	11.4	10.0
160	63	**753 201 034**	2.680	416	174	105	65	14.6	5.8
160	75	**753 201 035**	2.676	344	179	101	76	14.6	6.8
160	90	**753 201 036**	2.775	415	190	101	79	14.6	8.2
160	110	**753 201 037**	3.300	415	200	101	82	14.6	10.0
180	90	**753 201 049**	4.410	420	200	136	97	16.4	8.2
180	110	**753 201 050**	4.379	430	206	145	101	16.4	10.0
180	160	**753 201 038**	4.715	414	203	105	94	16.4	14.6
200	63	**753 201 073**	7.300	503	196	122	63	18.2	5.8
200	90	**753 201 074**	9.730	500	216	122	79	18.2	8.2
200	110	**753 201 075**	7.120	505	219	122	82	18.2	10.0
200	160	**753 201 076**	9.730	500	237	122	98	18.2	14.6
225	75	**753 201 039**	9.880	560	219	120	70	20.5	6.8
225	90	**753 201 040**	6.633	555	228	120	80	20.5	8.2
225	110	**753 201 041**	10.010	559	238	120	82	20.5	10.0
225	160	**753 201 042**	8.095	555	258	120	98	20.5	14.6
225	180	**753 201 043**	9.375	559	284	120	105	20.5	16.4
250	110	**753 201 078**	11.820	584	284	130	82	22.7	10.0
250	160	**753 201 079**	12.302	586	266	127	98	22.7	14.6

table continued next page



d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
315	110	**753 201 051**	15.300	705	282	150	82	28.6	10.0
315	160	**753 201 052**	22.998	705	301	150	102	28.6	14.6
315	225	**753 201 053**	20.011	658	335	170	145	28.6	20.5
315	250	**753 201 054**	24.243	695	331	150	130	28.6	22.7

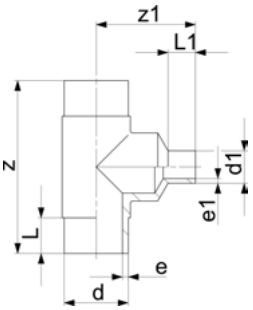


Tee 90° reduced PE100 SDR11

Model:

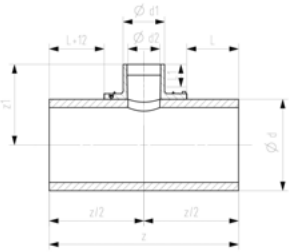
- with welded reducer

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



d [mm]	d1 [mm]	Code	Weight [kg]	z1 [mm]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	**753 201 002**	0.053		160	52	52	3.0	3.0
32	20	**753 201 003**	0.094	105	170	54	52	3.0	3.0
32	25	**753 201 004**	0.098	110	170	54	52	3.0	3.0
40	20	**753 201 005**	0.124	120	190	57	52	3.7	3.0
40	25	**753 201 069**	0.160	120	190	57	52	3.7	3.0
40	32	**753 201 070**	0.160	120	190	57	52	3.7	3.0
50	20	**753 201 072**	0.252	140	210	63	52	4.6	3.0
50	25	**753 201 077**	0.203	130	210	63	52	4.6	3.0
50	32	**753 201 080**	0.207	130	210	63	53	4.6	3.0
50	40	**753 201 081**	0.224	130	210	63	57	4.6	3.7
63	32	**753 201 082**	0.359	140	230	65	53	5.8	3.0
63	40	**753 201 116**	0.480	145	230	65	57	5.8	3.7
75	40	**753 201 084**	0.603	180	264	72	57	6.8	3.7
125	63	**753 201 085**	2.359	225	366	92	61	11.4	5.8
125	75	**753 201 086**	2.434	235	366	92	72	11.4	6.8
140	75	**753 201 087**	3.038	230	396	92	70	12.7	6.8
140	90	**753 201 089**	3.092	235	396	92	79	12.7	8.2
140	110	**753 201 090**	3.208	240	396	92	82	12.7	10.0
140	125	**753 201 091**	4.170	240	396	92	90	12.7	11.4
160	125	**753 201 092**	4.544	265	420	102	92	14.6	11.4
160	140	**753 201 093**	5.895	270	420	102	96	14.6	12.7
180	125	**753 201 094**	6.111	285	460	107	92	16.4	11.4
180	140	**753 201 095**	6.317	295	460	107	110	16.4	12.7
200	125	**753 201 096**	8.424	295	500	117	92	18.2	11.4
200	140	**753 201 097**	10.570	310	500	117	110	18.2	12.7
200	180	**753 201 098**	9.031	310	500	117	110	18.2	16.4
225	125	**753 201 099**	11.260	320	540	122	92	20.5	11.4
225	140	**753 201 100**	14.574	335	540	122	110	20.5	12.7
225	200	**753 201 101**	14.925	340	540	122	117	20.5	18.2
250	180	**753 201 102**	14.327	350	576	130	105	22.7	16.4
250	200	**753 201 103**	19.220	360	576	130	112	22.7	18.2
250	225	**753 201 104**	15.240	390	576	130	120	22.7	20.5
280	200	**753 201 105**	24.520	420	616	139	112	25.4	18.2
280	225	**753 201 106**	21.755	420	616	139	120	25.4	20.5
280	250	**753 201 107**	21.055	420	616	139	130	25.4	22.7
315	200	**753 201 108**	33.672	470	690	150	134	28.6	18.2
315	280	**753 201 109**	34.950	480	690	150	139	28.6	25.4
355	250	**753 201 110**	48.900	530	818	165	130	32.3	22.7
355	280	**753 201 111**	49.300	480	818	165	139	32.3	25.4
355	315	**753 201 112**	49.690	480	818	165	150	32.3	28.6
400	280	**753 201 113**	52.915	530	910	180	139	36.4	25.4
400	315	**753 201 114**	53.625	580	910	180	150	36.4	28.6
400	355	**753 201 115**	54.075	675	910	180	165	36.4	32.3

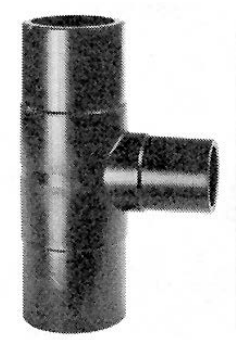


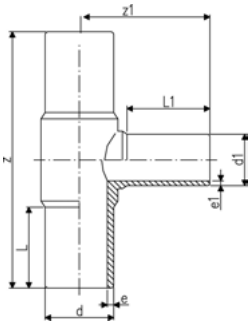


Tee 90° reduced with welded saddle PE100 SDR11

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

d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	d2 [mm]
315	225	**753 201 404**	22.570	702	318	168	127	172
355	90	**753 201 356**	27.729	818	410	279	81	70
355	110	**753 201 357**	28.204	818	410	279	86	90
355	125	**753 201 358**	28.820	818	410	279	92	90
355	160	**753 201 412**	26.450	732	315	205	110	123
355	225	**753 201 414**	28.500	732	338	183	127	172
400	90	**753 201 359**	38.213	910	455	325	81	70
400	110	**753 201 360**	38.763	910	455	325	86	90
400	125	**753 201 361**	39.393	910	455	325	92	90
400	160	**753 201 422**	34.150	762	337	220	110	123
400	225	**753 201 424**	36.170	762	360	198	127	172
450	90	**753 201 362**	50.936	970	485	355	81	70
450	110	**753 201 363**	51.516	970	485	355	86	90
450	125	**753 201 364**	52.173	970	485	355	92	90
450	160	**753 201 432**	44.420	792	362	235	110	123
450	225	**753 201 434**	46.440	792	385	213	127	172
500	90	**753 201 365**	68.151	1060	530	400	81	70
500	110	**753 201 366**	68.774	1060	530	400	86	90
500	125	**753 201 367**	69.472	1060	530	400	92	90
500	160	**753 201 442**	66.510	980	387	329	110	123
500	225	**753 201 444**	68.450	980	410	307	127	172
560	90	**753 201 368**	120.536	1510	755	625	81	70
560	110	**753 201 369**	121.384	1510	755	625	86	90
560	125	**753 201 370**	122.278	1510	755	625	92	90
560	160	**753 201 452**	85.020	1010	417	344	110	123
560	225	**753 201 454**	86.970	1010	440	322	127	172
630	90	**753 201 371**	163.834	1630	815	685	81	70
630	110	**753 201 372**	164.742	1630	815	685	86	90
630	125	**753 201 373**	165.688	1630	815	685	92	90
630	160	**753 201 462**	111.120	1050	452	364	110	123
630	225	**753 201 464**	113.250	1050	475	342	127	172



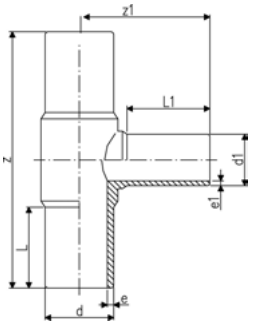


Tee 90° reduced PE100 SDR17/17.6

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

d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
90	50	**753 201 827**	0.630	275	117	79	55	5.4	3.0
90	63	**753 200 829**	0.560	275	123	79	63	5.4	3.8
90	75	**753 200 830**	0.593	272	139	74	71	5.4	4.5
110	63	**753 200 828**	1.010	318	147	82	63	6.6	3.8
110	75	**753 200 831**	0.891	315	152	84	70	6.6	4.5
110	90	**753 200 832**	0.941	318	158	82	79	6.6	5.4
125	110	**753 200 833**	1.399	334	168	84	83	7.4	6.6
160	63	**753 200 834**	1.950	330	130	86	63	9.5	3.8
160	75	**753 200 835**	1.932	343	180	98	74	9.5	4.5
160	90	**753 200 836**	1.972	410	188	98	79	9.5	5.4
160	110	**753 200 837**	2.716	410	195	98	82	9.5	6.6
180	90	**753 200 844**	3.250	422	204	134	97	10.7	5.4
180	160	**753 200 838**	3.557	411	205	105	94	10.7	9.5
200	63	**753 201 873**	6.800	500	190	122	63	11.9	3.8
200	90	**753 201 874**	6.900	500	207	122	79	11.9	5.4
200	110	**753 201 875**	5.097	500	215	122	82	11.9	6.6
200	160	**753 201 876**	7.400	500	234	122	98	11.9	9.5
225	75	**753 200 839**	7.128	555	277	120	70	13.4	4.5
225	90	**753 200 840**	4.732	555	226	127	80	13.4	5.4

table continued next page



d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	110	**753 200 841**	4.700	555	235	127	82	13.4	6.6
225	160	**753 200 842**	5.922	555	253	127	98	13.4	9.5
225	180	**753 200 843**	7.211	550	280	120	105	13.4	10.7
250	110	**753 201 878**	9.400	575	242	130	82	14.8	6.6
250	160	**753 201 879**	9.800	575	261	130	98	14.8	9.5
315	110	**753 200 851**	15.621	695	277	150	82	18.7	6.6
315	160	**753 200 852**	12.200	695	296	150	102	18.7	9.5
315	225	**753 200 853**	14.869	650	335	170	145	18.7	13.4
315	250	**753 200 854**	15.500	695	325	150	130	18.7	14.8

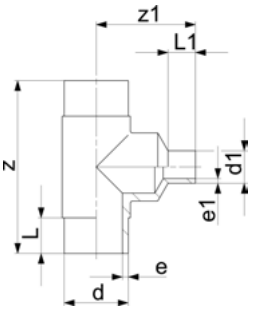
Tee 90° reduced PE100 SDR17/17.6



Model:

- with welded reducer

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



d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	L1 [mm]	L [mm]	e [mm]	e1 [mm]
125	63	**753 200 801**	1.752	366	215	61	92	7	4
125	75	**753 200 810**	1.806	366	235	72	92	7	5
125	90	**753 200 811**	1.712	366	235	80	92	7	5
140	75	**753 200 812**	2.820	396	240	70	92	8	5
140	90	**753 200 822**	2.211	396	240	78	92	8	5
140	110	**753 200 823**	2.266	396	235	82	92	8	7
140	125	**753 200 824**	2.317	396	240	87	92	8	7
160	125	**753 200 825**	3.311	428	265	90	104	10	5
160	140	**753 200 826**	3.416	428	280	96	104	10	8
180	110	**753 200 827**	4.410	460	285	92	105	11	7
180	125	**753 200 845**	4.460	460	285	90	105	11	7
180	140	**753 200 846**	4.483	460	305	110	105	11	8
200	125	**753 200 847**	5.886	500	310	92	115	12	7
200	140	**753 200 848**	7.200	500	315	110	115	12	8
200	180	**753 200 849**	6.900	500	315	110	115	12	11
225	125	**753 200 850**	7.937	540	320	92	122	13	7
225	140	**753 200 855**	8.780	540	345	110	122	13	8
225	200	**753 200 856**	9.064	540	335	115	122	13	12
250	180	**753 200 857**	15.000	576	340	105	130	15	11
250	200	**753 200 858**	15.440	576	350	112	130	15	12
250	225	**753 200 859**	15.620	576	370	120	130	15	13
280	200	**753 200 860**	19.200	616	400	112	139	17	12
280	225	**753 200 861**	19.500	616	400	120	139	17	13
280	250	**753 200 862**	20.120	616	400	130	139	17	15
315	200	**753 200 863**	18.700	690	480	134	150	19	12
315	280	**753 200 864**	26.940	690	480	139	150	19	17
355	250	**753 200 865**	35.770	818	480	130	165	21	15
355	280	**753 200 866**	36.330	818	480	139	165	21	17
355	315	**753 200 867**	37.740	818	490	150	165	21	19
400	280	**753 200 868**	48.330	910	540	139	180	24	17
400	315	**753 200 869**	48.880	910	580	150	180	24	19
400	355	**753 200 870**	50.020	910	675	165	180	24	21

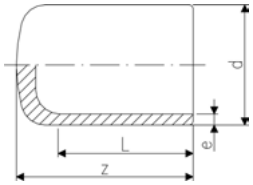


Cap PE100 SDR11

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

Note:

* Fabricated fitting made from pipe



	d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
	20	**753 961 006**	0.010	52	52	3,0
	25	**753 961 007**	0.015	52	52	3,0
	32	**753 961 008**	0.020	54	54	3,0
	40	**753 961 009**	0.033	57	57	3,7
	50	**753 961 010**	0.054	63	63	4,6
	63	**753 961 011**	0.086	65	65	5,8
	75	**753 961 012**	0.146	80	72	6,8
	90	**753 961 013**	0.240	90	81	8,2
	110	**753 961 014**	0.373	98	86	10,0
	125	**753 961 015**	0.546	105	92	11,4
	140	**753 961 016**	0.727	136	92	12,7
	160	**753 961 017**	1.034	120	102	14,6
	180	**753 961 018**	1.351	128	107	16,4
	200	**753 961 019**	1.845	138	115	18,2
	225	**753 961 020**	2.514	148	122	20,5
	250	**753 961 021**	3.927	205	130	22,7
	280	**753 960 922**	8.045	235	139	25,4
	315	**753 960 923**	6.861	255	150	28,6
	355	**753 960 924**	9.780	280	165	32,3
	400	**753 960 925**	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

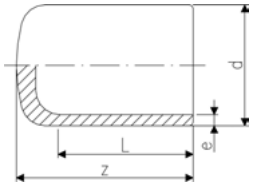


Cap PE100 SDR17/17,6

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

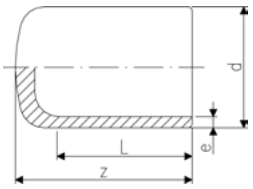
Note:

* Fabricated fitting made from pipe



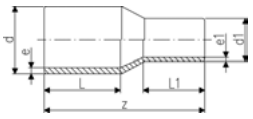
	d [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
	50	**753 960 810**	0.036	70	55	3,0
	63	**753 960 811**	0.058	82	63	3,8
	75	**753 960 812**	0.105	92	70	4,5
	90	**753 960 813**	0.214	90	81	5,4
	110	**753 960 814**	0.272	98	86	6,6
	125	**753 960 815**	0.487	105	92	7,4
	140	**753 960 816**	0.481	136	92	8,3
	160	**753 960 817**	0.920	120	102	9,5
	180	**753 960 818**	1.216	128	107	10,7
	200	**753 960 819**	1.687	138	115	11,9
	225	**753 960 820**	2.265	148	122	13,4
	250	**753 960 821**	2.547	205	130	14,8
	280	**753 960 822**	3.523	235	139	16,6
	315	**753 960 823**	4.758	255	150	18,7
	355	**753 960 824**	6.510	280	165	21,1
	400	**753 960 825**	9.347	310	180	23,7
*	450	**753 960 826**	17.798	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 [mm]	Code	Weight [kg]	z [mm]	L [mm]	e [mm]
*	710	**753 960 830**	53.950	310	190	42,1
*	800	**753 960 831**	73.281	320	190	47,4
*	900	**753 960 832**	98.923	330	190	53,5
*	1000	**753 960 833**	123.925	340	190	59,3



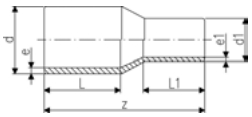


Reducer PE100 SDR11

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

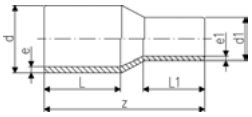
d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	**753 901 038**	0.022	115	52	52	3,0	3,0
32	20	**753 901 042**	0.027	120	54	52	3,0	3,0
32	25	**753 901 041**	0.033	120	54	52	3,0	3,0
40	20	**753 901 048**	0.043	129	57	52	3,7	3,0
40	25	**753 901 047**	0.045	129	57	52	3,7	3,0
40	32	**753 901 046**	0.047	129	57	53	3,7	3,0
50	20	**753 901 055**	0.064	149	63	52	4,6	3,0
50	25	**753 901 054**	0.069	139	63	52	4,6	3,0
50	32	**753 901 053**	0.067	140	63	53	4,6	3,0
50	40	**753 901 052**	0.079	139	63	57	4,6	3,7
63	32	**753 901 060**	0.113	149	65	53	5,8	3,0
63	40	**753 901 059**	0.122	150	65	57	5,8	3,7
63	50	**753 901 058**	0.128	150	65	63	5,8	4,6
75	40	**753 901 063**	0.185	170	72	57	6,8	3,7
75	50	**753 901 064**	0.188	170	72	63	6,8	4,6
75	63	**753 901 065**	0.209	170	72	65	6,8	5,8
90	50	**753 901 072**	0.289	190	81	63	8,2	4,6
90	63	**753 901 071**	0.316	190	81	65	8,2	5,8
90	75	**753 901 070**	0.351	190	81	70	8,2	6,8
110	63	**753 901 078**	0.471	205	86	65	10,0	5,8
110	75	**753 901 077**	0.501	205	86	70	10,0	6,8
110	90	**753 901 076**	0.549	205	86	81	10,0	8,2
125	63	**753 901 083**	0.607	214	87	63	11,4	5,8
125	75	**753 901 082**	0.667	210	92	72	11,4	6,8
125	90	**753 901 081**	0.683	212	92	81	11,4	8,2
125	110	**753 901 080**	0.775	212	92	86	11,4	10,0
140	75	**753 901 086**	0.910	230	110	70	12,7	6,8
140	90	**753 901 087**	0.954	230	110	79	12,7	8,2
140	110	**753 901 084**	0.977	234	110	88	12,7	10,0
140	125	**753 901 085**	1.078	235	110	90	12,7	11,4
160	90	**753 901 088**	1.164	244	120	79	14,6	8,2
160	110	**753 901 090**	1.239	244	102	86	14,6	10,0
160	125	**753 901 089**	1.333	245	102	92	14,6	11,4
160	140	**753 901 032**	1.522	260	120	110	14,6	12,7
180	90	**753 901 073**	1.507	245	105	79	16,4	8,2
180	110	**753 901 074**	1.833	270	105	82	16,4	10,0
180	125	**753 901 091**	1.723	258	107	92	16,4	11,4
180	140	**753 901 075**	1.976	270	120	110	16,4	12,7
180	160	**753 901 033**	1.968	255	107	102	16,4	14,6
200	140	**753 901 066**	2.326	275	120	110	18,2	12,7
200	160	**753 901 092**	2.391	265	117	102	18,2	14,6
200	180	**753 901 034**	2.724	265	117	107	18,2	16,4
225	140	**753 901 067**	2.900	295	130	110	20,5	12,7
225	160	**753 901 096**	2.891	279	122	102	20,5	14,6
225	180	**753 901 095**	3.244	280	122	107	20,5	16,4
225	200	**753 901 094**	3.538	280	122	117	20,5	18,2
250	160	**753 901 000**	2.385	300	130	100	22,7	14,6
250	180	**753 901 068**	4.299	295	130	105	22,7	16,4
250	200	**753 901 001**	4.766	315	130	112	22,7	18,2
250	225	**753 901 002**	2.385	332	130	120	22,7	20,5
280	200	**753 901 098**	6.850	333	140	112	25,4	18,2
280	225	**753 901 099**	6.112	335	140	120	25,4	20,5
280	250	**753 901 003**	2.385	340	140	130	25,4	22,7

table continued next page



d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
315	200	**753 901 004**	7.522	380	180	134	28,6	18,2
315	225	**753 901 097**	7.790	365	150	120	28,6	20,5
315	250	**753 901 005**	8.360	365	150	130	28,6	22,7
315	280	**753 901 012**	8.800	365	150	139	28,6	25,4
355	250	**753 901 013**	9.100	390	165	130	32,3	22,7
355	280	**753 901 014**	9.500	390	165	139	32,3	25,4
355	315	**753 901 015**	9.900	390	165	150	32,3	28,6
400	280	**753 901 016**	10.420	415	180	139	36,4	25,4
400	315	**753 901 017**	11.130	415	180	150	36,4	28,6
400	355	**753 901 018**	11.600	420	180	165	36,4	32,3
450	280	**753 901 019**	16.200	389	195	139	40.9	25,4
450	315	**753 901 020**	16.700	390	195	150	40.9	28,6
450	355	**753 901 022**	17.500	393	195	164	40,9	32,3
450	400	**753 901 024**	18.500	395	195	179	40,9	36,4
500	315	**753 901 025**	21.900	422	212	150	45,5	28,6
500	355	**753 901 026**	22.600	424	212	164	45,5	32,3
500	400	**753 901 027**	23.600	426	212	179	45,5	36,4
500	450	**753 901 029**	25.100	428	212	195	45,5	40,9
560	355	**753 901 030**	30.100	459	230	164	50,9	32,3
560	400	**753 901 039**	31.000	461	230	179	50,9	36,4
560	450	**753 901 040**	32.400	463	230	195	50,9	40,9
560	500	**753 901 043**	34.100	466	230	212	50,9	45,5
630	400	**753 901 044**	41.900	502	250	179	57,3	36,4
630	450	**753 901 045**	43.100	503	250	195	57,3	40,9
630	500	**753 901 049**	44.700	506	250	212	57,3	45,5
630	560	**753 901 050**	46.800	506	250	230	57,3	50,9



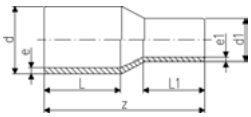


Reducer PE100 SDR17/17,6

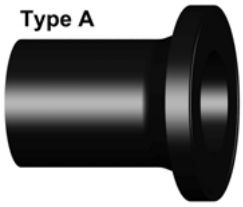
- Long spigot version
- 5 bar Gas / 10 bar Water

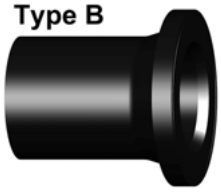
d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	L1 [mm]	L [mm]	e [mm]	e1 [mm]
90	63	**753 900 872**	0.224	182	70	79	5,4	3,8
90	75	**753 900 870**	0.234	185	70	79	5,4	4,5
110	63	**753 900 877**	0.326	185	63	82	6,6	3,8
110	90	**753 900 876**	0.333	205	80	85	6,6	5,4
125	63	**753 900 882**	0.610	200	63	87	7,4	3,8
125	90	**753 900 881**	0.461	215	80	90	7,4	5,4
125	110	**753 900 880**	0.507	215	85	90	7,4	6,6
140	75	**753 900 886**	0.560	230	70	112	8,3	4,5
140	90	**753 900 887**	0.642	230	79	112	8,3	5,4
140	110	**753 900 884**	0.715	230	82	112	8,3	6,6
140	125	**753 900 885**	0.754	235	87	115	8,3	7,4
160	90	**753 900 888**	0.752	248	85	120	9,5	5,4
160	110	**753 900 890**	0.930	245	85	100	9,5	6,6
160	125	**753 900 889**	0.930	245	90	100	9,5	7,4
160	140	**753 900 831**	0.995	260	110	120	9,5	8,3
180	90	**753 900 873**	1.010	237	79	105	10,7	5,4
180	110	**753 900 874**	1.600	270	92	120	10,7	6,6
180	125	**753 900 891**	1.165	255	90	105	10,7	7,4
180	140	**753 900 875**	1.720	270	110	120	10,7	8,3
180	160	**753 900 832**	2.100	255	100	105	10,7	9,5
200	140	**753 900 866**	1.800	275	110	120	11,9	8,3
200	160	**753 900 892**	1.664	265	100	115	11,9	9,5
200	180	**753 900 893**	2.580	265	105	115	11,9	10,7
225	140	**753 900 867**	2.021	280	100	120	13,4	8,3
225	160	**753 900 896**	2.020	280	100	120	13,4	9,5
225	180	**753 900 895**	2.240	280	105	120	13,4	10,7
225	200	**753 900 894**	2.237	280	115	120	13,4	11,9
250	160	**753 900 800**	2.850	290	100	130	14,8	9,5
250	180	**753 900 868**	3.100	295	105	130	14,8	10,7
250	200	**753 900 801**	3.210	302	112	130	14,8	11,9
250	225	**753 900 802**	2.385	332	120	162	14,8	13,4

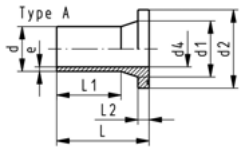
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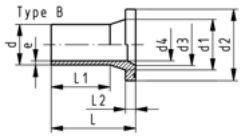


d [mm]	d1 [mm]	Code	Weight [kg]	z [mm]	L1 [mm]	L [mm]	e [mm]	e1 [mm]
280	200	**753 900 898**	3.800	333	112	140	16,6	11,9
280	225	**753 900 899**	4.062	335	120	140	16,6	13,4
280	250	**753 900 803**	4.352	340	130	140	16,6	14,8
315	200	**753 900 804**	5.390	380	134	180	18,7	11,9
315	225	**753 900 807**	6.200	365	120	150	18,7	13,4
315	250	**753 900 805**	6.420	365	130	150	18,7	14,8
315	280	**753 900 806**	5.940	365	140	150	18,7	16,6
355	250	**753 900 808**	7.082	390	130	165	21,1	14,8
355	280	**753 900 809**	6.728	390	140	165	21,1	16,6
355	315	**753 900 810**	7.240	390	150	165	21,1	18,7
400	280	**753 900 811**	7.930	415	140	180	23,7	16,6
400	315	**753 900 812**	9.949	415	150	180	23,7	18,7
400	355	**753 900 813**	9.620	420	165	180	23,7	21,1
450	280	**753 900 814**	11.500	389	140	195	26,7	16,6
450	315	**753 900 815**	11.805	390	150	195	26,7	18,7
450	355	**753 900 816**	11.900	393	164	195	26,7	21,1
450	400	**753 900 817**	12.964	395	179	195	26,7	23,7
500	315	**753 900 818**	15.500	422	150	212	29,7	18,7
500	355	**753 900 819**	15.700	424	164	212	29,7	21,1
500	400	**753 900 820**	16.200	426	179	212	29,7	23,7
500	450	**753 900 821**	17.000	428	195	212	29,7	26,7
560	355	**753 900 822**	21.400	459	164	230	33,2	21,1
560	400	**753 900 823**	21.700	461	179	230	33,2	23,7
560	450	**753 900 824**	22.300	463	195	230	33,2	26,7
560	500	**753 900 825**	23.200	466	212	230	33,2	29,7
630	400	**753 900 826**	29.700	502	179	250	37,4	23,7
630	450	**753 900 827**	30.100	503	195	250	37,4	26,7
630	500	**753 900 828**	30.800	506	212	250	37,4	29,7
630	560	**753 900 829**	31.900	506	230	250	37,4	33,3









Flange adaptor LS PE100 SDR11 Combined jointing face: Flat and serrated

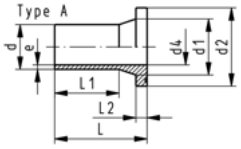
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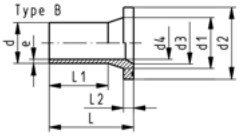
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567, 568 and 037
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

*** Type B with chamfer**

d [mm]	DN [mm]	FM	Code	Weight [kg]
20	15		**753 800 031**	0.060
25	20		**753 800 032**	0.041
32	25	IR	**753 800 008**	0.056
40	32	IR	**753 800 009**	0.081
50	40	IR	**753 800 010**	0.119
63	50	IR	**753 800 011**	0.187
75	65	IR	**753 800 012**	0.314
90	80	IR	**753 800 013**	0.471
110	100	IR	**753 800 014**	0.706
125	100	IR	**753 800 015**	0.883
140	125	IR	**753 800 016**	1.348
160	150	IR	**753 800 017**	1.718
180	150	IR	**753 800 018**	2.035
200	200	IR	**753 800 019**	2.899
225	200	IR	**753 800 020**	3.208
250	250		**753 800 021**	4.878
280	250		**753 800 022**	4.925
315	300		**753 800 023**	7.135
355	350		**753 800 024**	10.400
400	400		**753 800 025**	14.600

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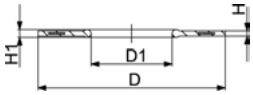
d [mm]	DN [mm]	FM	Code	Weight [kg]
450	500		**753 800 026**	24.800
500	500		**753 800 027**	27.400
560	600		**753 800 028**	40.000
630	600		**753 800 029**	42.300

d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type	PF
27	45		16	85	41	7	3		2 51 301 001
33	58		20	85	41	9	3		2 51 301 001
40	68		26	85	44	10	3	A	2 51 301 001
50	78		32	85	49	11	4	A	2 51 301 001
61	88		40	90	62	12	5	A	2 51 301 001
75	102		51	98	69	14	6	A	2 51 301 001
89	122	66	61	125	89	16	7	B	2 51 301 001
105	138	78	73	140	103	17	8	B	2 51 301 001
125	158	100	90	160	114	18	10	B	2 51 301 001
132	158	114	102	170	125	25	11	B	2 51 301 001
155	188	127	114	200	147	25	13	B	2 51 301 001
175	212	151	130	200	147	25	15	B	2 51 301 001
180	212	158	147	200	170	30	16	B	2 51 301 001
232	268	203	163	200	128	32	18	B	2 51 301 001
235	268	210	184	200	138	32	21	B	2 51 301 001
285	320	245	204	219	145	35	23	B	2 51 301 002
291	320	265	229	231	150	35	25	B	2 51 301 002
335	370	300	257	239	162	35	29	B	2 51 301 002
373	430	340	290	260	176	40	32	B	2 51 301 008
427	482	385	327	290	186	46	36	B	2 51 301 008
514	585	400	368	333	195	60	41	B	2 51 301 008
530	585	440	409	350	212	60	46	B	2 51 301 008
615	685	490	458	365	230	60	51	B	2 51 301 008
642	685	545	515	385	250	60	57	B	2 51 301 008

Flange

Flange seal





Model:

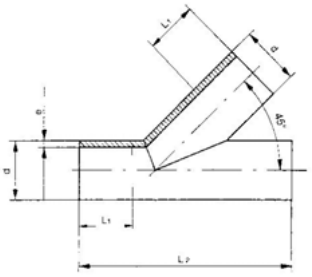
- Profile Gasket with steel insert (type G-ST-P/K)

- Jointing surfaces: serrated or flat
- Suitable for flange adaptor no. 53 80 08 and 53 80 10
- NBR/DUO = Nitrile rubber, hardness approx. 80° Shore
- Suitable for drinking water and gas applications
- Approved acc. to DVGW standard DIN EN 682
- Approved acc. to DVGW W 270, KTW recommendation
- Max. operating pressure 16 bar
- d corresponds to the centring at the inner diameter of the screw crown

d [mm]	DN [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	SDR
25	20	**745 440 202**	0.010	61	24	3	4	17
25	20	**745 440 302**	0.012	61	22	3	4	11/7,4
32	25	**745 440 203**	0.015	71	30	3	4	17
32	25	**745 440 303**	0.016	71	28	3	4	11/7,4
40	32	**745 440 204**	0.027	82	37	3	4	17
40	32	**745 440 304**	0.025	82	34	3	4	11/7,4
50	40	**745 440 205**	0.033	92	46	3	4	17
50	40	**745 440 305**	0.033	92	42	3	4	11/7,4
63	50	**745 440 206**	0.047	107	58	4	5	17
63	50	**745 440 306**	0.048	107	53	4	5	11/7,4
75	65	**745 440 207**	0.057	127	69	4	5	17
75	65	**745 440 307**	0.060	127	63	4	5	11/7,4
90	80	**745 440 208**	0.075	142	84	4	5	17
90	80	**745 440 308**	0.070	142	76	4	5	11/7,4
110	100	**745 440 209**	0.117	162	100	5	6	17
110	100	**745 440 309**	0.124	162	93	5	6	11/7,4
125	100	**745 440 210**	0.080	162	114	5	6	17
125	100	**745 440 310**	0.110	162	105	5	6	11/7,4
140	125	**745 440 211**	0.139	192	127	5	6	17
140	125	**745 440 311**	0.149	192	117	5	6	11/7,4
160	150	**745 440 212**	0.236	218	146	6	8	17
160	150	**745 440 312**	0.207	218	135	6	8	11/7,4
180	150	**745 440 213**	0.145	218	164	6	8	17
180	150	**745 440 313**	0.236	218	151	6	8	11/7,4
200	200	**745 440 214**	0.380	273	181	6	8	17
200	200	**745 440 314**	0.430	273	168	6	8	11/7,4
225	200	**745 440 215**	0.316	273	203	6	8	17
225	200	**745 440 315**	0.365	273	188	6	8	11/7,4
250	250	**745 440 216**	0.510	328	226	6	8	17
250	250	**745 440 316**	0.520	328	208	6	8	11/7,4
280	250	**745 440 217**	0.400	328	252	6	8	17
280	250	**745 440 317**	0.482	328	233	6	8	11/7,4
315	300	**745 440 218**	0.750	378	283	6	8	17
315	300	**745 440 318**	0.600	378	262	6	8	11/7,4
355	300	**745 440 219**	0.711	435	319	6	8	17
355	300	**745 440 319**	1.100	438	294	6	8	11/7,4
400	400	**745 440 220**	0.840	489	359	6	8	17
400	400	**745 440 320**	1.300	489	331	6	8	11/7,4
450	500	**745 440 221**	1.930	594	403	7	10	17
450	500	**745 440 321**	1.930	594	372	7	10	11/7,4
500	450	**745 440 222**	1.740	594	447	7	10	17
500	450	**745 440 322**	1.740	594	413	7	10	11/7,4
560	600	**745 440 223**	1.840	695	494	7	10	17
560	600	**745 440 323**	1.840	695	451	7	10	11/7,4
630	600	**745 440 224**	1.890	695	555	7	10	17
630	600	**745 440 324**	1.890	695	507	7	10	11/7,4

Butt fusion fittings welded

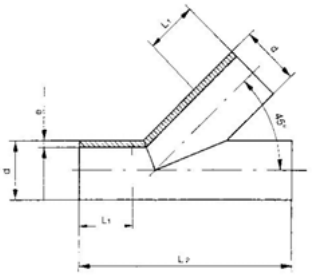
Branch 45° PE100 S5/SDR11



- For butt- and electro fusion
- Reduction factor = 0,5

d [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 299**	2.600	150	520	10,0
125	**700 649 300**	3.400	150	520	11,4
140	**700 649 301**	4.450	150	570	12,8
160	**700 649 302**	6.100	150	640	14,6
180	**700 649 303**	8.050	150	700	16,4
200	**700 649 304**	11.800	150	800	18,2
225	**700 649 305**	15.600	150	800	20,5
250	**700 649 306**	22.450	250	1000	22,8
280	**700 649 307**	29.200	250	1000	25,5
315	**700 649 308**	42.550	300	1300	28,7
355	**700 649 309**	56.600	300	1500	32,3
400	**700 649 310**	75.300	300	1500	36,4
450	**700 649 311**	100.000	300	1500	41,0

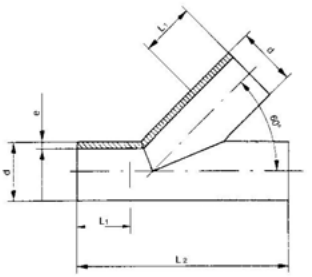
Branch 45° PE100 S8/SDR17.6



- For butt- and electro fusion
- Reduction factor = 0,5

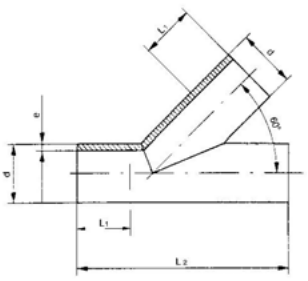
d [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 286**	67.900	150	520	6,3
125	**700 649 287**	2.960	150	520	7,1
140	**700 649 288**	0.561	150	570	8,0
160	**700 649 289**	4.830	150	640	9,1
180	**700 649 290**	0.898	150	700	10,2
200	**700 649 291**	1.155	150	800	11,4
225	**700 649 292**	10.350	150	800	12,8
250	**700 649 293**	15.110	250	1000	14,2
280	**700 649 294**	3.115	250	1000	15,9
315	**700 649 295**	33.800	300	1300	17,9
355	**700 649 296**	4.851	300	1500	20,1
400	**700 649 297**	54.200	300	1500	22,7
450	**700 649 298**	46.464	300	1500	25,5

Branch 60° PE100 S5/SDR11



- For butt- and electro fusion
- Reduction factor = 0,5

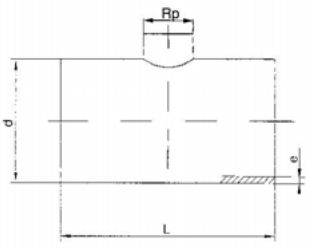
d [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 325**	2.450	150	520	10,0
125	**700 649 326**	3.050	150	520	11,4
140	**700 649 327**	4.100	150	570	12,8
160	**700 649 328**	5.600	150	640	14,6
180	**700 649 329**	7.400	150	700	16,4
200	**700 649 330**	10.800	150	800	18,2
225	**700 649 331**	14.300	150	800	20,5
250	**700 649 332**	20.500	250	1000	22,8
280	**700 649 333**	26.600	250	1000	25,5
315	**700 649 334**	38.800	300	1300	28,7
355	**700 649 335**	51.100	300	1500	32,3
400	**700 649 336**	67.600	300	1500	36,4
450	**700 649 337**	89.450	300	1500	41,0



Branch 60° PE100 S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

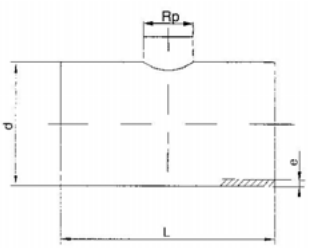
d [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 312**	1.650	150	520	6,3
125	**700 649 313**	2.150	150	520	7,1
140	**700 649 314**	2.800	150	570	8,0
160	**700 649 315**	3.700	150	640	9,1
180	**700 649 316**	4.900	150	700	10,2
200	**700 649 317**	7.350	150	800	11,4
225	**700 649 318**	9.650	150	800	12,8
250	**700 649 319**	13.800	250	1000	14,2
280	**700 649 320**	17.900	250	1000	15,9
315	**700 649 321**	26.300	300	1300	17,9
355	**700 649 322**	34.700	300	1500	20,1
400	**700 649 323**	45.600	300	1500	22,7
450	**700 649 324**	60.450	300	1500	25,5



Saddle-tee PE100 S5/SDR11
Outlet with female thread Rp welded

- For butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Thread 1" Code	Weight [kg]	Thread 11/4" Code	Weight [kg]	L [mm]	e [mm]
110	**700 649 238**	0.850	**700 649 270**	0.850	260	10,0
125	**700 649 239**	1.100	**700 649 271**	1.100	260	11,4
140	**700 649 240**	1.360	**700 649 272**	1.360	260	12,8
160	**700 649 241**	1.750	**700 649 273**	1.750	260	14,6
180	**700 649 242**	3.230	**700 649 274**	2.200	360	16,4
200	**700 649 243**	2.700	**700 649 275**	2.700	360	18,2
225	**700 649 244**	4.720	**700 649 276**	4.720	360	20,5
250	**700 649 245**	5.860	**700 649 277**	5.860	360	22,8
280	**700 649 246**	7.350	**700 649 278**	7.350	360	25,5
315	**700 649 247**	9.310	**700 649 279**	9.310	360	28,7
355	**700 649 248**	13.200	**700 649 280**	13.200	460	32,3
400	**700 649 249**	19.120	**700 649 281**	19.120	460	36,4
450	**700 649 250**	24.200	**700 649 282**	24.200	460	41,0
500	**700 649 251**	29.850	**700 649 283**	29.850	460	45,5
560	**700 649 252**	31.250	**700 649 284**	31.250	460	51,0
630	**700 649 253**	43.250	**700 649 285**	43.250	500	57,3



Saddle-tee PE100 S8/SDR17.6
Outlet with female thread Rp welded

- For butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Thread 1" Code	Weight [kg]	Thread 11/4" Code	Weight [kg]	L [mm]	e [mm]
110	**700 649 222**	0.550	**700 649 254**	0.560	260	6,3
125	**700 649 223**	17.969	**700 649 255**	30.666	260	7,1
140	**700 649 224**	0.840	**700 649 256**	1.162	260	8,0
160	**700 649 225**	1.150	**700 649 257**	1.584	260	9,1
180	**700 649 226**	0.512	**700 649 258**	2.046	360	10,2
200	**700 649 227**	0.561	**700 649 259**	2.739	360	11,4
225	**700 649 228**	0.726	**700 649 260**	3.511	360	12,8
250	**700 649 229**	0.898	**700 649 261**	4.495	360	14,2
280	**700 649 230**	1.155	**700 649 262**	5.914	360	15,9

table continued next page

d [mm]	Thread 1" Code	Weight [kg]	Thread 11/4" Code	Weight [kg]	L [mm]	e [mm]	
315	**700 649 231**	1.452	**700 649 263**	10.692	360	17,9	
355	**700 649 232**	1.782	**700 649 264**	13.827	460	20,1	
400	**700 649 233**	3.115	**700 649 265**	20.816	460	22,7	
450	**700 649 234**	3.868	**700 649 266**	27.225	460	25,5	
500	**700 649 235**	4.851	**700 649 267**	35.508	460	28,3	
560	**700 649 236**	6.145	**700 649 268**	46.464	460	31,7	
630	**700 649 237**	8.712	**700 649 269**	0.776	500	35,7	

PROGEF Standard metric

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Pressure/temperature diagram for PP

PROGEF Standard and Plus

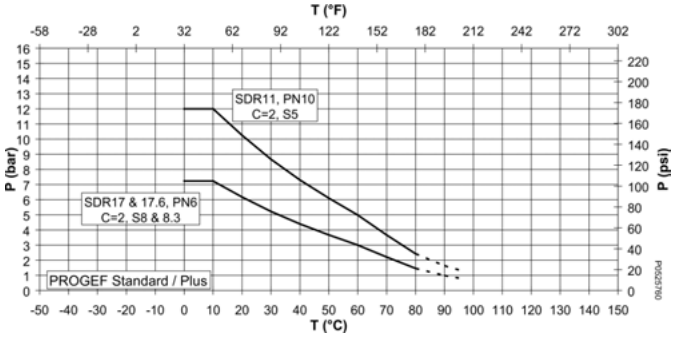
The following pressure/temperature diagrams for PP pipes and fittings are valid for a lifetime of 25 years.

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



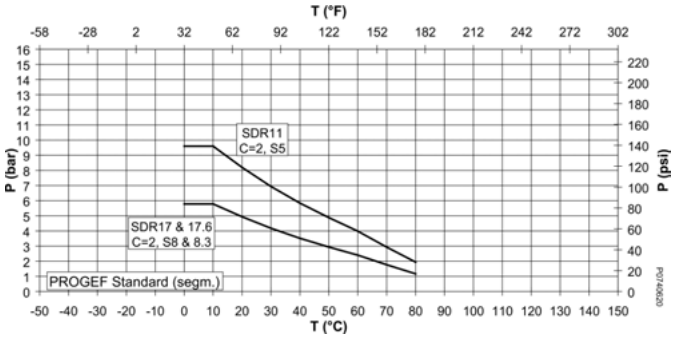
P Permissible pressure in bar, psi

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:



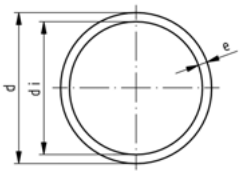
P Permissible pressure in bar, psi

T Temperature in °C, °F

Pipes

PP pipes





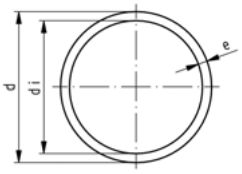
PROGEF Standard pipe S3.2/SDR7.4 (PN16)

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 [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
16	16	**167 481 027**	0.095	2.2	11.6
20	16	**167 481 028**	0.148	2.8	14.4
25	16	**167 481 029**	0.230	3.5	18.0





PROGEF Standard pipe S5/SDR11 (PN10)

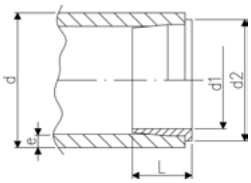
Model:

- 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) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

	PN [bar]	d [mm]	Code	Weight [kg/m]	di [mm]	e [mm]	closest inch [inch]
	10	16	**167 480 710**	0.080	12.4	1.8	⅜
*	10	20	**167 480 711**	0.107	16.2	1.9	½
*	10	25	**167 480 712**	0.164	20.4	2.3	¾
	10	32	**167 480 713**	0.261	26.2	2.9	1
	10	40	**167 480 714**	0.412	32.6	3.7	1 ¼
	10	50	**167 480 715**	0.638	40.8	4.6	1 ½
	10	63	**167 480 716**	1.010	51.4	5.8	2
	10	75	**167 480 717**	1.410	61.4	6.8	2 ½
	10	90	**167 480 718**	2.030	73.6	8.2	3
	10	110	**167 480 719**	3.010	90.0	10.0	4
	10	125	**167 480 720**	3.910	102.2	11.4	4 ½
	10	140	**167 480 721**	4.870	114.6	12.7	5
	10	160	**167 480 722**	6.380	130.8	14.6	6
	10	180	**167 480 723**	8.070	147.2	16.4	7
	10	200	**167 480 724**	9.950	163.6	18.2	8
	10	225	**167 480 725**	12.600	184.0	20.5	9
	10	250	**167 480 726**	15.500	204.6	22.7	10
	10	280	**167 480 727**	19.400	229.2	25.4	11
	10	315	**167 480 728**	24.600	257.8	28.6	12
	10	355	**167 480 729**	31.200	290.6	32.2	14
	10	400	**167 480 730**	39.600	327.4	36.3	16
	10	450	**167 480 731**	50.200	368.2	40.9	18
	10	500	**167 480 732**	63.300	409.2	45.4	20





PROGEF Standard stiffener

Model:

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing suring the heating and jointing process.

e [mm]	d [mm]	Code	Weight [kg/m]	L [mm]	d1 [mm]	d2 [mm]
1,9	20	**727 900 006**	0.001	10	14	18
2,3	25	**727 900 007**	0.004	11	18	23

Fittings

Socket fusion fittings

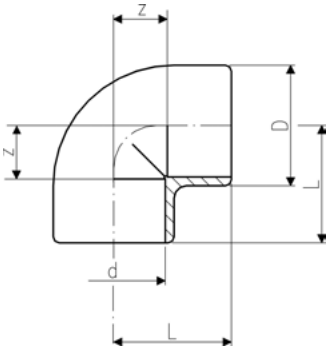


PROGEF Standard elbow 90°

Model:

- Material: PP-H

* use pipe SDR 7.4



	d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]	closest inch [inch]
*	16	10	**727 100 105**	0.014	26	25	12	⅜
	20	10	**727 100 106**	0.020	31	28	14	½
	25	10	**727 100 107**	0.029	36	32	16	¾
	32	10	**727 100 108**	0.044	44	38	20	1
	40	10	**727 100 109**	0.071	54	44	24	1 ¼
	50	10	**727 100 110**	0.121	66	51	28	1 ½
	63	10	**727 100 111**	0.228	82	62	35	2
	75	10	**727 100 112**	0.301	93	76	45	2 ½
	90	10	**727 100 113**	0.477	110	88	53	3
	110	10	**727 100 114**	0.869	134	106	65	4

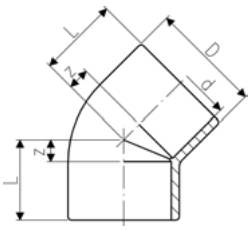


PROGEF Standard elbow 45°

Model:

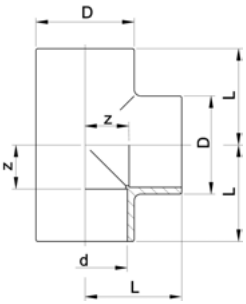
- Material: PP-H

* use pipe SDR 7.4



d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]	closest inch [inch]
16	10	**727 150 105**	0.009	23	20	7	⅜
20	10	**727 150 106**	0.016	31	21	7	½
25	10	**727 150 107**	0.024	36	24	8	¾
32	10	**727 150 108**	0.036	44	28	10	1
40	10	**727 150 109**	0.059	53	33	13	1 ¼
50	10	**727 150 110**	0.084	64	36	13	1 ½
63	10	**727 150 111**	0.183	82	43	16	2
75	10	**727 150 112**	0.219	93	51	20	2 ½
90	10	**727 150 113**	0.336	114	58	23	3
110	10	**727 150 114**	0.657	134	68	27	4





PROGEF Standard tee 90° equal

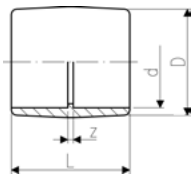
Model:

- Material: PP-H

* use pipe SDR 7.4

d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	**727 200 105**	0.020	26	25	12
20	**727 200 106**	0.027	31	28	14
25	**727 200 107**	0.039	36	32	16
32	**727 200 108**	0.057	44	38	20
40	**727 200 109**	0.095	54	44	24
50	**727 200 110**	0.161	66	51	28
63	**727 200 111**	0.286	82	62	35
75	**727 200 112**	0.390	93	76	45
90	**727 200 113**	0.727	114	88	53
110	**727 200 114**	1.062	134	106	65





PROGEF Standard socket equal

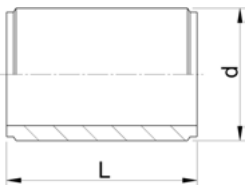
Model:

- Material: PP-H

* use pipe SDR 7.4

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
16	10	**727 910 105**	0.010	26	33	7
20	10	**727 910 106**	0.013	31	35	7
25	10	**727 910 107**	0.019	36	39	7
32	10	**727 910 108**	0.026	44	43	7
40	10	**727 910 109**	0.041	54	48	8
50	10	**727 910 110**	0.072	66	54	8
63	10	**727 910 111**	0.118	82	62	8
75	10	**727 910 112**	0.147	93	70	8
90	10	**727 910 113**	0.238	112	81	11
110	10	**727 910 114**	0.425	134	96	14





PROGEF Standard barrel nipple

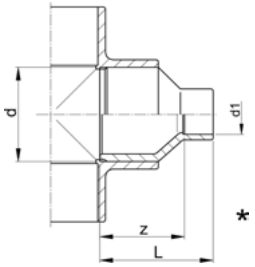
Model:

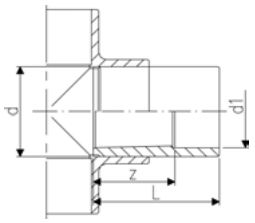
- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

	d [mm]	PN [bar]	Code	Weight [kg]	L [mm]
	16	10	**727 910 905**	0.005	36
*	20	10	**727 910 906**	0.005	37
*	25	10	**727 910 907**	0.006	41
	32	10	**727 910 908**	0.010	45
	40	10	**727 910 909**	0.017	50
	50	10	**727 910 910**	0.029	55
	63	10	**727 910 911**	0.058	64
	75	10	**727 910 912**	0.095	76
	90	10	**727 910 913**	0.163	90
	110	10	**727 910 914**	0.305	108







PROGEF Standard reducer

Model:

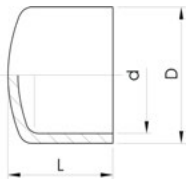
- Material: PP-H

Note:

* Fusion spigot and socket

d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	L [mm]	z [mm]
20	16	10	**727 910 334**	0.013	35	22
25	16	10	**727 910 338**	0.010	38	25
25	20	10	**727 910 337**	0.012	37	23
32	20	10	**727 910 342**	0.016	43	29
32	25	10	**727 910 341**	0.019	43	27
40	20	10	**727 910 348**	0.022	48	34
40	25	10	**727 910 347**	0.025	48	32
40	32	10	**727 910 346**	0.030	48	30
50	20	10	**727 910 355**	0.034	54	40
50	25	10	**727 910 354**	0.034	54	38
50	32	10	**727 910 353**	0.039	54	36
50	40	10	**727 910 352**	0.048	54	34
63	25	10	**727 910 361**	0.054	64	46
63	32	10	**727 910 360**	0.062	64	46
63	40	10	**727 910 359**	0.069	64	44
63	50	10	**727 910 358**	0.083	64	41
75	63	10	**727 910 364**	0.098	62	35
90	63	10	**727 910 371**	0.170	88	61
90	75	10	**727 910 370**	0.142	70	39
110	90	10	**727 910 376**	0.235	81	46





PROGEF Standard end cap

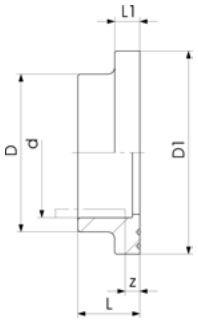
Model:

- Material: PP-H

* use pipe SDR 7.4

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
16	10	**727 960 105**	0.006	25	20
20	10	**727 960 106**	0.009	30	27
25	10	**727 960 107**	0.015	36	30
32	10	**727 960 108**	0.023	44	34
40	10	**727 960 109**	0.035	53	38
50	10	**727 960 110**	0.061	65	44
63	10	**727 960 111**	0.102	80	51
75	10	**727 960 112**	0.149	91	65
90	10	**727 960 113**	0.277	111	77
110	10	**727 960 114**	0.411	137	93





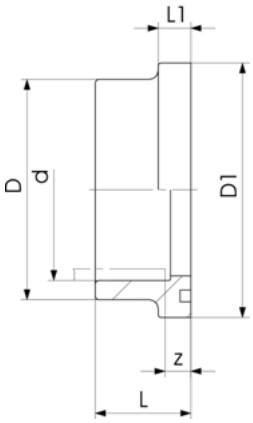
PROGEF Standard flange adaptor
Jointing face flat/serrated

Model:

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- 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 [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**727 790 206**	0.011	27	45	19	7	5
25	20	10	**727 790 207**	0.022	33	58	21	9	5
32	25	10	**727 790 208**	0.033	41	68	23	10	5
40	32	10	**727 790 209**	0.046	50	78	25	11	5
50	40	10	**727 790 210**	0.060	61	88	28	12	5
63	50	10	**727 790 211**	0.090	76	102	32	14	5
75	65	10	**727 790 212**	0.155	90	122	36	16	5
90	80	10	**727 790 213**	0.204	108	138	42	17	7
110	100	10	**727 790 214**	0.286	131	158	48	18	7





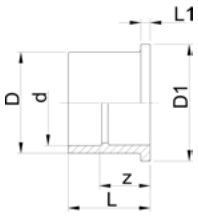
PROGEF Standard flange adaptor
Jointing face with o-ring groove

Model:

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP with steel core, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01

d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**727 810 106**	0.007	27	34	22	9	8
25	20	10	**727 810 107**	0.012	33	41	24	10	8
32	25	10	**727 810 108**	0.018	41	50	26	10	8
40	32	10	**727 810 109**	0.027	50	61	30	13	10
50	40	10	**727 810 110**	0.043	61	73	33	13	10
63	50	10	**727 810 111**	0.070	76	90	37	14	10
75	65	10	**727 810 112**	0.105	90	106	40	15	10
90	80	10	**727 810 113**	0.170	108	125	47	16	12
110	100	10	**727 810 114**	0.263	131	150	55	18	13





PROGEF Standard outlet flange adaptor
Jointing face flat

Model:

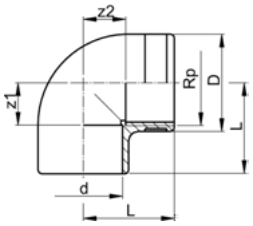
- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

d [mm]	PN [bar]	DN [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
40	6	32	**727 800 009**	0.068	50	78	55	11	35
50	6	40	**727 800 010**	0.087	61	88	61	12	38
63	6	50	**727 800 011**	0.136	76	102	69	14	41
75	6	65	**727 800 012**	0.214	90	122	79	16	49
90	6	80	**727 800 013**	0.350	107	138	100	17	65
110	6	100	**727 800 014**	0.468	130	158	105	18	62

Adaptor fittings for socket fusion

PROGEF Standard elbow 90° metric Rp





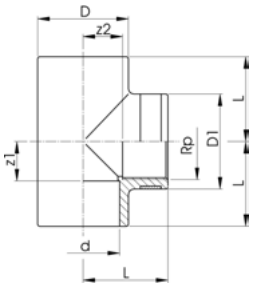
Model:

- 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 [mm]	Rp [inch]	PN [bar]	Code	Weight [lb]	D [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 100 206**	0.049	30	28	14	14
25	¾	10	**727 100 207**	0.077	35	32	16	16
32	1	10	**727 100 208**	0.126	44	38	20	20
40	1 ¼	10	**727 100 209**	0.192	54	44	24	24

PROGEF Standard tee 90° metric Rp





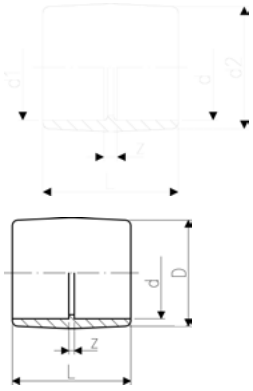
Model:

- 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 [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 200 206**	0.030	31	30	28	14	14
25	¾	10	**727 200 207**	0.042	36	35	32	16	16
32	1	10	**727 200 208**	0.071	44	45	38	20	20
40	1 ¼	10	**727 200 209**	0.107	54	55	44	24	24

PROGEF Standard adaptor socket Metric Inch BS



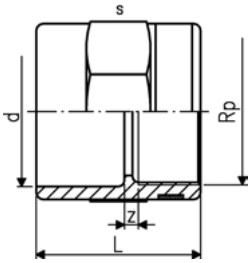


Model:

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

d [mm]	d1 [inch]	PN [bar]	Code	Weight [kg]	d2 [mm]	L [mm]	z [mm]
20	½	10	**727 913 006**	0.014	31	35	7
25	¾	10	**727 913 007**	0.019	36	39	7
32	1	10	**727 913 008**	0.025	44	43	7
40	1 ¼	10	**727 913 009**	0.040	54	48	8
50	1 ½	10	**727 913 010**	0.074	66	54	8
63	2	10	**727 913 011**	0.130	82	62	8
90	3	10	**727 913 013**	0.234	112	81	10
110	4	10	**727 913 014**	0.389	134	96	12





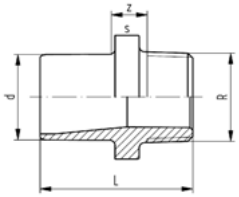
PROGEF Standard adaptor socket metric Rp

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

PN [bar]	Rp [inch]	d [mm]	Code	Weight [kg]	L [mm]	s [mm]	z [mm]
10	⅜	20	**727 910 205**	0.017	35	32	7
10	½	20	**727 910 206**	0.018	40	32	7
10	¾	25	**727 910 207**	0.025	42	36	7
10	1	32	**727 910 208**	0.040	48	46	7
10	1 ¼	40	**727 910 209**	0.064	53	55	7
10	1 ½	50	**727 910 210**	0.089	54	65	9
10	2	63	**727 910 211**	0.144	62	80	9





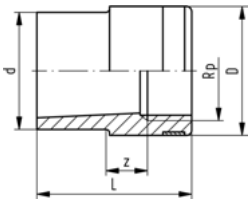
PROGEF Standard adaptor nipple metric R

Model:

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

R [inch]	d [mm]	PN [bar]	Code	Weight [kg]	L [mm]	s [mm]	z [mm]
⅜	16	10	**727 910 505**	0.008	37	27	13
½	20	10	**727 910 506**	0.011	42	32	13
¾	25	10	**727 910 507**	0.015	46	36	13
1	32	10	**727 910 508**	0.027	52	46	12
1 ¼	40	10	**727 910 509**	0.040	56	55	14
1 ½	50	10	**727 910 510**	0.061	60	65	15
2	63	10	**727 910 511**	0.100	69	80	16





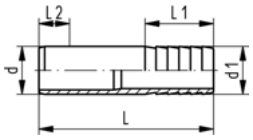
PROGEF Standard reducing bush metric Rp

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 [mm]	PN [bar]	Rp [inch]	Code	Weight [kg]	L [mm]	z [mm]
20	10	¼	**727 910 433**	0.011	36	7
20	10	⅜	**727 910 434**	0.011	36	7
25	10	½	**727 910 437**	0.015	45	6
32	10	¾	**727 910 441**	0.022	47	8
40	10	1	**727 910 446**	0.039	53	9
50	10	1 ¼	**727 910 452**	0.061	55	10





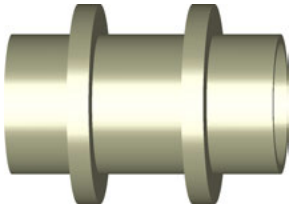
PROGEF Standard hose connector metric

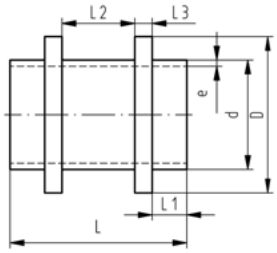
Model:

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]
20	20	10	**727 960 406**	0.008	78	27	14
25	25	10	**727 960 407**	0.014	91	36	16
32	32	10	**727 960 408**	0.025	100	36	18
40	40	10	**727 960 409**	0.038	104	42	20
50	50	10	**727 960 410**	0.061	90	48	23
63	60	10	**727 960 411**	0.084	100	50	27

Butt fusion fittings





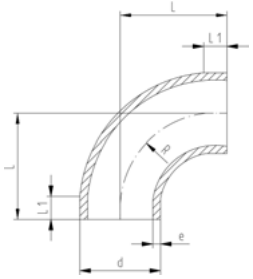
PROGEF Standard fixpoint fitting S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Machined

d [mm]	FM	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	**727 665 520**	0.175	90	122	30	42	10	5.8
75	IR	**727 665 521**	0.254	110	122	30	42	10	6.8
90	IR	**727 665 522**	0.342	125	122	30	42	10	8.2
110	IR	**727 665 523**	0.567	140	142	30	52	15	10.0
125	IR	**727 665 524**	0.777	160	152	35	52	15	11.4
140	IR	**727 665 525**	1.023	180	162	40	52	15	12.7
160	IR	**727 665 526**	1.292	200	162	40	52	15	14.6
180	IR	**727 665 527**	1.917	225	182	45	52	20	16.4
200	IR	**727 665 528**	2.365	250	182	45	52	20	18.2
225	IR	**727 665 529**	3.294	280	192	45	52	25	20.5
250	--	**727 665 530**	3.695	280	212	50	62	25	22.7
280	--	**727 665 531**	4.997	315	222	50	62	30	25.4
315	--	**727 665 532**	6.348	355	222	50	62	30	28.6
355	--	**727 665 533**	7.405	400	192	30	62	35	32.2
400	--	**727 665 534**	10.432	450	212	30	72	40	36.3
450	--	**727 665 535**	14.153	500	232	35	72	45	40.9
500	--	**727 665 536**	19.414	560	252	40	72	50	45.4





PROGEF Standard bend 90° S5/SDR11

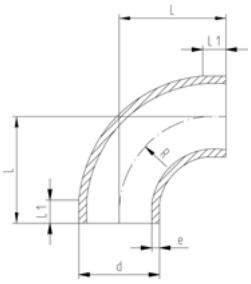
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

* Material:PP-R

d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	R [mm]	e [mm]
20	IR	**727 018 606**	0.008	38	23	15	1.9
25	IR	**727 018 607**	0.013	42	23	19	2.3
32	IR	**727 018 608**	0.022	46	22	24	2.9
40	IR	**727 018 609**	0.040	51	21	30	3.7
50	IR	**727 018 610**	0.067	58	21	37	4.6
63	IR	**727 018 611**	0.117	66	21	45	5.8
75	IR	**727 018 612**	0.232	100	20	90	6.8
90	IR	**727 018 613**	0.337	100	20	90	8.2
110	IR	**727 018 614**	0.701	141	25	130	10.0
125	IR	**727 018 615**	0.818	125	28	116	11.4
140	IR	**727 018 616**	1.148	140	33	131	12.7

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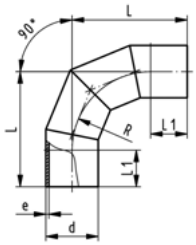
	d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	R [mm]	e [mm]
	160	IR	**727 018 617**	1.699	160	33	151	14.6
	180	IR	**727 018 618**	2.394	180	33	171	16.4
	200	IR	**727 018 619**	3.264	200	33	190	18.2
	225	IR	**727 018 620**	4.535	220	33	210	20.5
	250		**727 018 521**	6.351	256	48	232	22.7
	280		**727 018 522**	9.398	286	48	262	25.4
	315		**727 018 523**	12.959	321	48	297	28.6
*	355		**727 018 574**	19.400	385	38	355	32.2
*	400		**727 018 575**	28.453	438	41	400	36.3



PROGEF Standard bend 90° S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8



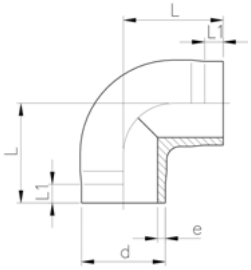
d [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	R [mm]	e [mm]
450	**727 018 576**	85.300	975	300	675	40,9
500	**727 018 577**	121.940	1100	350	750	45,4



PROGEF Standard elbow 90° S5/SDR11

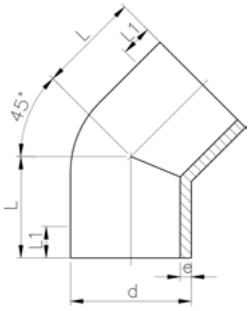
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H



d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
20	IR	**727 108 506**	0.008	38	25	1.9
25	IR	**727 108 507**	0.012	42	26	2.3
32	IR	**727 108 508**	0.022	46	27	2.9
40	IR	**727 108 509**	0.045	51	22	3.7
50	IR	**727 108 510**	0.080	58	23	4.6
63	IR	**727 108 511**	0.138	66	21	5.8





PROGEF Standard elbow 45° S5/SDR11

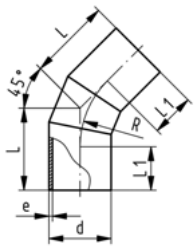
Model:

- 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

[1] Material:PP-R

	d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
	20	IR	**727 158 506**	0.006	32	24.0	1.9
	25	IR	**727 158 507**	0.010	34	25.0	2.3
	32	IR	**727 158 508**	0.021	36	25.0	2.9
	40	IR	**727 158 509**	0.033	39	25.0	3.7
	50	IR	**727 158 510**	0.054	42	26.0	4.6
	63	IR	**727 158 511**	0.097	47	29.0	5.8
	75	IR	**727 158 512**	0.137	49	29.0	6.8
	90	IR	**727 158 513**	0.222	57	34.0	8.2
	110	IR	**727 158 514**	0.412	70	43.0	10.0
	125	IR	**727 158 515**	0.570	79	48.0	11.4
	140	IR	**727 158 516**	0.854	88	55.0	12.7
	160	IR	**727 158 517**	1.256	100	60.0	14.6
	200	IR	**727 158 519**	2.448	124	75.0	18.2
	225	IR	**727 158 520**	3.495	140	85.0	20.5
1	250		**727 158 521**	7.890	225	133.0	22.7
1	280		**727 158 522**	10.170	235	143.0	25.4
1	315		**727 158 523**	11.690	255	154.0	28.6





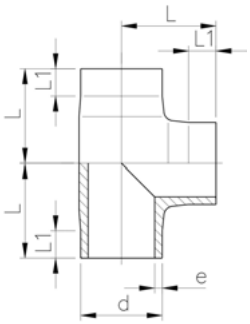
PROGEF Standard bend 45° S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

d [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]	R [mm]
355	**727 158 524**	32.300	520	300	32,2	532.5
400	**727 158 525**	43.200	548	300	36,3	600.0
450	**727 158 526**	57.700	580	300	40,9	675.0
500	**727 158 527**	87.200	665	350	45,4	750.0





PROGEF Standard tee 90° equal S5/SDR11

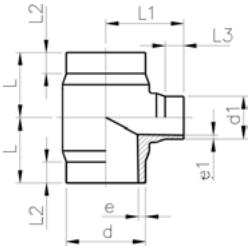
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

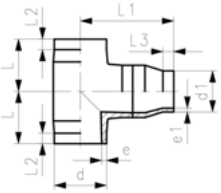
[1] Material:PP-R

	d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
	20	IR	**727 208 506**	0.011	38	24	1.9
	25	IR	**727 208 507**	0.018	42	26	2.3
	32	IR	**727 208 508**	0.032	46	26	2.9
	40	IR	**727 208 509**	0.062	51	23	3.7
	50	IR	**727 208 510**	0.105	58	22	4.6
	63	IR	**727 208 511**	0.186	66	20	5.8
	75	IR	**727 208 512**	0.293	75	20	6.8
	90	IR	**727 208 513**	0.521	90	20	8.2
	110	IR	**727 208 514**	0.928	110	20	10.0
	125	IR	**727 208 515**	1.347	125	25	11.4
	140	IR	**727 208 516**	1.923	140	28	12.7
	160	IR	**727 208 517**	2.844	160	28	14.6
	180	IR	**727 208 568**	4.844	194	74	16.4
	200	IR	**727 208 519**	5.579	200	35	18.2
	225	IR	**727 208 520**	7.812	220	35	20.5
	250		**727 208 571**	12.380	276	92	22.7
	280	--	**727 208 572**	17.735	318	110	25.4
	315		**727 208 573**	18.214	353	118	28.6
1	355		**727 208 574**	31.100	345	103	32.2
1	400	--	**727 208 575**	38.000	360	105	36.3
	450	--	**727 208 576**	58.000	419	135	40.9
	500		**727 208 577**	73.000	465	160	45.4





1



PROGEF Standard tee 90° reduced S5/SDR11

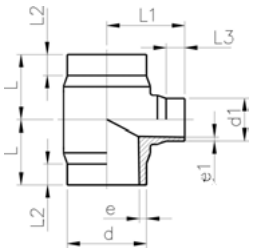
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

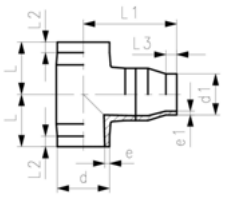
[1]with IR welded reducer

	d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
	63	32	IR	**727 208 351**	0.161	65	70	25	25	5.8	2.9
	63	40	IR	**727 208 350**	0.165	65	70	25	25	5.8	3.7
	63	50	IR	**727 208 352**	0.170	65	70	25	25	5.8	4.6
	75	32	IR	**727 208 353**	0.238	70	75	25	25	6.8	2.9
	75	50	IR	**727 208 354**	0.249	70	75	25	25	6.8	4.6
	75	63	IR	**727 208 355**	0.258	70	75	25	25	6.8	5.8
	90	50	IR	**727 208 357**	0.420	80	85	25	25	8.2	4.6
	90	63	IR	**727 208 358**	0.428	80	85	25	25	8.2	5.8
	90	75	IR	**727 208 359**	0.430	80	85	25	25	8.2	6.8
	110	32	IR	**727 208 360**	0.652	90	95	30	25	10.0	2.9
	110	50	IR	**727 208 361**	0.659	90	95	30	25	10.0	4.6
	110	63	IR	**727 208 362**	0.665	90	95	30	25	10.0	5.8
	110	75	IR	**727 208 363**	0.681	90	95	30	25	10.0	6.8
	110	90	IR	**727 208 364**	0.701	90	95	30	25	10.0	8.2
1	125	63	IR	**727 208 365**	1.680	125	232	25	16	11.4	5.8
1	125	90	IR	**727 208 366**	1.520	125	228	25	22	11.4	8.2
1	125	110	IR	**727 208 367**	1.700	125	220	25	30	11.4	10.0
1	140	75	IR	**727 208 368**	2.140	140	258	28	19	12.7	6.8
1	140	90	IR	**727 208 369**	2.150	140	250	28	22	12.7	8.2
1	140	110	IR	**727 208 370**	2.380	140	245	28	33	12.7	10.0
	160	63	IR	**727 208 371**	2.130	142	135	50	30	14.6	5.8
	160	75	IR	**727 208 372**	2.143	142	135	50	30	14.6	6.8
	160	90	IR	**727 208 373**	2.148	142	135	50	30	14.6	8.2

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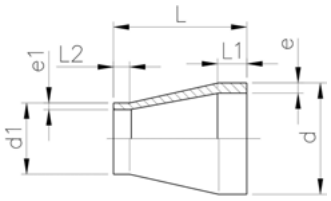
	d [mm]	d1 [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
	160	110	IR	**727 208 374**	2.186	142	135	50	30	14.6	10.0
1	200	160	IR	**727 208 385**	6.632	200	295	35	40	18.2	14.6
1	200	180	IR	**727 208 386**	6.200	200	345	35	45	18.2	16.4
	225	90	IR	**727 208 388**	4.576	155	165	40	30	20.5	8.2
	225	110	IR	**727 208 389**	4.624	155	165	40	30	20.5	10.0
	225	160	IR	**727 208 391**	4.685	155	165	40	30	20.5	14.6
1	250	160		**727 208 393**	4.530	276	424	92	55	22.7	14.6



PROGEF Standard reducer S5/SDR11

Model:

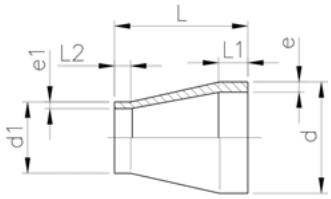
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H



[1] Material:PP-R

	d [mm]	d1 [mm]	FM	Code	Weight [kg]	e [mm]	e1 [mm]	L [mm]	L1 [mm]	L2 [mm]
	25	20	IR	**727 908 537**	0.007	2.3	1.9	50	20	20
	32	20	IR	**727 908 542**	0.010	2.9	1.9	50	20	20
	32	25	IR	**727 908 541**	0.010	2.9	2.3	50	20	20
	40	20	IR	**727 908 548**	0.016	3.7	1.9	58	20	23
	40	25	IR	**727 908 547**	0.016	3.7	2.3	55	20	20
	40	32	IR	**727 908 546**	0.018	3.7	2.9	55	20	20
	50	25	IR	**727 908 554**	0.024	4.6	2.3	60	20	20
	50	32	IR	**727 908 553**	0.027	4.6	2.9	60	20	20
	50	40	IR	**727 908 552**	0.030	4.6	3.7	60	20	20
	63	32	IR	**727 908 560**	0.043	5.8	2.9	65	20	20
	63	40	IR	**727 908 559**	0.047	5.8	3.7	65	20	20
	63	50	IR	**727 908 558**	0.051	5.8	4.6	65	20	20
	75	40	IR	**727 908 566**	0.062	6.8	3.7	68	20	20
	75	50	IR	**727 908 565**	0.071	6.8	4.6	65	20	20
	75	63	IR	**727 908 564**	0.075	6.8	5.8	65	20	20
	90	63	IR	**727 908 571**	0.115	8.2	5.8	75	22	19
	90	75	IR	**727 908 570**	0.130	8.2	6.8	75	22	19
	110	75	IR	**727 908 577**	0.215	10.0	6.8	90	28	18
	110	90	IR	**727 908 576**	0.225	10.0	8.2	90	28	30
	125	110	IR	**727 908 580**	0.335	11.4	10.0	100	32	30
	140	110	IR	**727 908 585**	0.423	12.7	10.0	110	33	29
	140	125	IR	**727 908 584**	0.462	12.7	11.4	110	34	30
	160	110	IR	**727 908 590**	0.586	14.6	10.0	120	39	27
	160	140	IR	**727 908 588**	0.647	14.6	12.7	120	40	35
	180	90	IR	**727 908 978**	0.968	16.4	8.8	157	45	22
	180	110	IR	**727 908 977**	0.987	16.4	10.0	157	45	28
	180	125	IR	**727 908 976**	0.890	16.4	11.4	136	45	32
	180	140	IR	**727 908 975**	0.917	16.4	12.7	136	45	35
	180	160	IR	**727 908 974**	1.031	16.4	14.6	136	45	35
	200	160	IR	**727 908 592**	1.149	18.2	14.6	145	50	40
	200	180	IR	**727 908 979**	1.350	18.2	16.4	151	50	45
	225	110	IR	**727 908 595**	1.485	20.5	10.0	160	55	35
	225	160	IR	**727 908 596**	1.563	20.5	14.6	160	55	40
	225	180	IR	**727 908 983**	1.893	20.5	16.4	171	55	45
	225	200	IR	**727 908 597**	1.723	20.5	18.2	160	55	50
	250	160	--	**727 908 990**	1.483	22.7	14.6	194	60	55
	250	225	--	**727 908 987**	2.592	22.7	20.5	182	60	55
1	280	225	--	**727 908 992**	1.854	25.4	20.5	105	30	20
1	280	250	--	**727 908 991**	1.311	25.4	22.7	70	30	18

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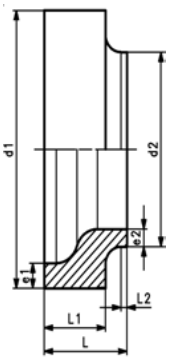
	d [mm]	d1 [mm]	FM	Code	Weight [kg]	e [mm]	e1 [mm]	L [mm]	L1 [mm]	L2 [mm]
1	315	225	--	**727 908 997**	2.857	28.6	20.5	130	30	20
1	315	250	--	**727 908 996**	3.500	28.6	22.7	100	30	20
1	315	280	--	**727 908 995**	1.577	28.6	25.4	63	30	18
1	355	250	--	**727 908 963**	5.490	32.3	22.7	245	90	60
1	355	280	--	**727 908 962**	5.462	32.2	25.4	245	90	70
1	355	315	--	**727 908 961**	3.700	32.2	28.6	245	90	80
1	400	315	--	**727 908 966**	5.300	36.3	28.6	260	95	80
1	400	355	--	**727 908 965**	4.800	36.3	32.2	260	95	90
	450	280	--	**727 908 960**	9.000	40.9	25.4	230	60	70
	450	315	--	**727 908 948**	8.000	40.9	28.6	230	60	80
	450	355	--	**727 908 950**	7.400	40.9	32.2	230	60	90
	450	400	--	**727 908 951**	6.000	40.9	36.3	230	60	95
	500	315	--	**727 908 953**	12.000	45.4	28.6	230	60	80
	500	355	--	**727 908 954**	10.800	45.4	32.2	230	60	90
	500	400	--	**727 908 956**	10.000	45.4	36.3	230	60	95
	500	450	--	**727 908 964**	8.300	45.4	40.9	230	60	60



PROGEF Standard flush style reducer SDR11

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207 part 11
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)



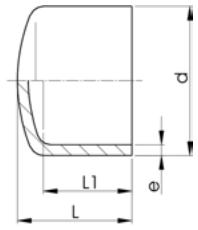
d1 [mm]	d2 [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
355	225	**727 909 809**	4.983	130	95	10	32.2	20.5
355	250	**727 909 810**	3.574	115	80	10	32.2	22.7
355	280	**727 909 811**	3.856	115	80	10	32.2	25.4
355	315	**727 909 812**	3.952	115	80	15	32.2	28.6
400	225	**727 909 816**	7.587	145	110	10	36.3	20.5
400	250	**727 909 817**	6.955	140	105	10	36.3	22.7
400	280	**727 909 818**	6.363	135	100	10	36.3	25.4
400	315	**727 909 819**	6.149	135	100	10	36.3	28.6
400	355	**727 909 820**	5.811	135	100	13	36.3	32.2
450	225	**727 909 822**	11.398	165	125	10	40.9	20.5
450	250	**727 909 823**	10.561	160	120	10	40.9	22.7
450	280	**727 909 824**	9.149	150	110	15	40.9	25.4
450	315	**727 909 825**	8.660	150	110	15	40.9	28.6
450	355	**727 909 826**	8.246	150	110	15	40.9	32.2
450	400	**727 909 827**	7.973	150	110	15	40.9	36.3
500	225	**727 909 829**	15.293	180	130	10	45.4	20.5
500	250	**727 909 830**	15.037	180	130	10	45.4	22.7
500	280	**727 909 831**	13.995	175	125	10	45.4	25.4
500	315	**727 909 832**	10.404	165	115	10	45.4	28.6
500	355	**727 909 833**	10.785	165	115	10	45.4	32.2
500	400	**727 909 834**	11.863	165	115	10	45.4	36.3
500	450	**727 909 835**	12.042	165	115	25	45.4	40.9



PROGEF Standard end cap S5/SDR11

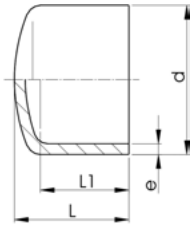
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H



d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
20	IR	**727 968 931**	0.005	42	35	1.9
25	IR	**727 968 932**	0.005	50	42	2.3
32	IR	**727 968 933**	0.013	55	44	2.9
40	IR	**727 968 934**	0.018	65	50	3.7
50	IR	**727 968 935**	0.043	70	55	4.6
63	IR	**727 968 936**	0.080	80	60	5.8

table continued next page



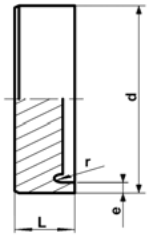
d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	e [mm]
75	IR	**727 968 937**	0.126	90	63	6.8
90	IR	**727 968 938**	0.107	105	76	8.2
110	IR	**727 968 939**	0.384	125	83	10.0
125	IR	**727 968 940**	0.237	50	25	11.4
140	IR	**727 968 941**	0.350	60	30	12.7
160	IR	**727 968 942**	0.684	76	40	14.6
180	IR	**727 968 943**	1.103	125	88	16.4
200	IR	**727 968 944**	1.089	100	50	18.2
225	IR	**727 968 945**	1.531	103	60	20.5



PROGEF Standard end cap S5/SDR11

Model:

- Material: PP-R
- Machined
- Conventional butt-welding according to DVS 2207 part 11



d [mm]	Code	Weight [kg]	L [mm]	e [mm]
250	**727 968 846**	1.900	60	22,7
280	**727 968 847**	2.600	65	25,4
315	**727 968 848**	3.600	70	28,6
355	**727 968 849**	5.100	80	32,2
400	**727 968 850**	7.200	85	36,3
450	**727 968 851**	10.200	95	40,9
500	**727 968 852**	14.000	105	74,5



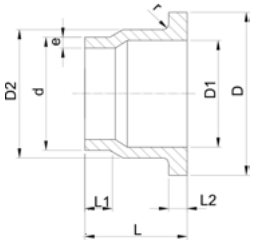
PROGEF Standard outlet flange adaptor S5/SDR11

Model:

- Conventional butt-welding according to DVS 2207 part 11
- Material: Polypropylene, PP-R
- To wafer check valves type 369

Attention:

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



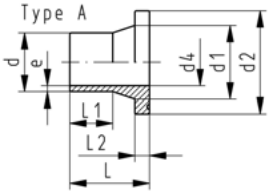
d [mm]	DN [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
40	32	**727 808 034**	0.172	80	37	50	64	30	11	3,7	3
50	40	**727 808 035**	0.096	90	43	61	67	30	12	4,6	3
63	50	**727 808 036**	0.157	105	54	76	74	30	14	5,8	4
75	65	**727 808 037**	0.223	125	70	90	78	30	16	6,8	4
90	80	**727 808 038**	0.325	140	82	108	87	35	17	8,2	4
110	100	**727 808 039**	0.475	160	105	131	102	41	18	10,0	4
140	125	**727 808 041**	0.899	190	130	165	124	47	25	12,7	4
160	150	**727 808 042**	1.246	215	158	188	149	52	25	14,6	4
225	200	**727 808 045**	2.638	270	206	248	180	55	32	20,5	4
280	250	**727 808 047**	4.088	325	259	308	240	63	35	25,4	4
315	300	**727 808 048**	4.960	375	308	346	272	66	35	28,6	4

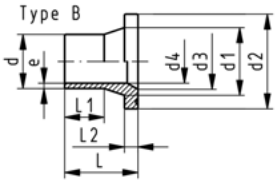
Type A



Type B







PROGEF Standard flange adaptor S5/SDR11
Combined jointing face: flat and serrated

Model:

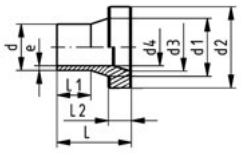
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use PROGEF Standard Adaptor for butterfly valves SDR11(d315-d500).
- Gasket: profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

* Not suitable for butterfly valves for type 037/038/039
** Material: PP-R, not suitable for butterfly valves

	d [mm]	DN [mm]	FM	Code	Weight [kg]
	20	15	IR	**727 798 706**	0.015
	25	20	IR	**727 798 707**	0.029
	32	25	IR	**727 798 708**	0.042
	40	32	IR	**727 798 709**	0.061
	50	40	IR	**727 798 710**	0.091
	63	50	IR	**727 798 711**	0.144
	75	65	IR	**727 798 712**	0.243
	90	80	IR	**727 798 713**	0.324
	110	100	IR	**727 798 714**	0.441
	125	100	IR	**727 798 715**	0.487
	140	125	IR	**727 798 716**	0.800
	160	150	IR	**727 798 717**	0.920
	180	150	IR	**727 798 718**	0.892
	200	200	IR	**727 798 719**	1.670
	225	200	IR	**727 798 720**	1.665
	250	250		**727 798 721**	2.630
	280	250		**727 798 722**	2.521
*	315	300		**727 798 723**	3.247
**	355	350		**727 798 724**	7.572
**	400	400		**727 798 725**	10.201
**	450	500		**727 798 726**	13.800
**	500	500		**727 798 727**	12.553

	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	20	15	26	45		16	50	29	7	1.9	A
	25	20	32	58		20	52	27	9	2.3	A
	32	25	40	68		26	54	28	10	2.9	A
	40	32	49	78		32	56	25	11	3.7	A
	50	40	60	88		40	62	32	12	4.6	A
	63	50	75	102		51	68	38	14	5.8	A
	75	65	89	122	66	61	80	43	16	6.9	B
	90	80	105	138	78	73	80	41	17	8.2	B
	110	100	125	158	100	90	80	40	18	10.0	B
	125	100	132	158	114	102	82	35	25	11.4	B
	140	125	155	188	127	114	89	39	25	12.8	B
	160	150	175	212	151	131	92	45	25	14.6	B
	180	150	180	212	154	147	80	45	30	16.4	B
	200	200	232	268	203	163	100	30	32	18.2	B
	225	200	235	268	210	184	100	35	32	20.5	B
	250	250	285	320	250	204	100	25	35	22.7	B
	280	250	291	320	265	229	100	35	35	25.4	B
*	315	300	335	370	300	257	100	25	35	28.6	B
**	355	350	373	430	340	290	180	40	40	32.2	B
**	400	400	427	482	385	327	187	46	46	36.3	B
**	450	500	514	585	400	368	141	64	60	40.9	B
**	500	500	530	587	440	409	138	62	61	45.4	B





PROGEF Standard Flange adaptor SDR11 for butterfly valves
Jointing face flat

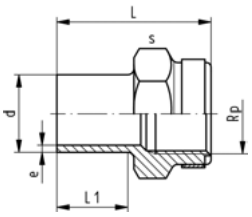
Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for butterfly valves type 567/568 and 037/038/039

d [mm]	DN [mm]	Code	Weight [kg]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
315	300	**727 798 623**	6.084	335	370	300	258	150	50	50	28.6
355	350	**727 798 624**	7.435	373	430	346	312	180	90	65	32.2
400	400	**727 798 625**	9.618	427	482	404	352	196	95	69	36.3
450	450	**727 798 626**	12.810	467	533	460	396	195	60	108	40.9
500	500	**727 798 627**	14.267	530	585	500	440	188	60	90	45.4

Adaptor fittings for butt fusion





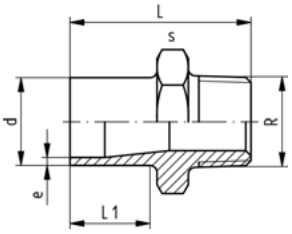
PROGEF Standard adaptor socket metric Rp

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

Rp [inch]	PN [bar]	d [mm]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	s [mm]	e [mm]
½	10	20	IR	**727 910 266**	0.017	49	23	32	1,9
¾	10	25	IR	**727 910 267**	0.022	50	23	36	2,3
1	10	32	IR	**727 910 268**	0.038	54	23	46	2,9
1 ¼	10	40	IR	**727 910 269**	0.066	56	23	55	3,7
1 ½	10	50	IR	**727 910 270**	0.090	60	23	65	4,6
2	10	63	IR	**727 910 271**	0.123	62	23	80	5,8





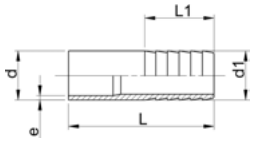
PROGEF Standard adaptor nipple metric R

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 [mm]	R [inch]	PN [bar]	FM	Code	Weight [kg]	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	IR	**727 910 556**	0.013	51	23	32	1,9
25	¾	10	IR	**727 910 557**	0.014	52	23	36	2,3
32	1	10	IR	**727 910 558**	0.027	55	23	46	2,9
40	1 ¼	10	IR	**727 910 559**	0.041	58	23	55	3,7
50	1 ½	10	IR	**727 910 560**	0.062	60	23	65	4,6
63	2	10	IR	**727 910 561**	0.096	67	26	80	5,8





PROGEF Standard hose connector metric

Model:

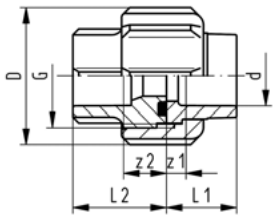
- Material: PP-H
- With butt fusion spigot **SDR11** and parallel hose connection

PN [bar]	d [mm]	d1 [mm]	FM	Code	Weight [kg]	e [mm]	L [mm]	L1 [mm]
10	20	20	IR	**727 968 606**	0.007	1.9	64	27
10	25	25	IR	**727 968 607**	0.014	2.3	75	36
10	32	32	IR	**727 968 608**	0.022	2.9	82	36
10	40	40	IR	**727 968 609**	0.032	3.7	84	42
10	50	50	IR	**727 968 610**	0.053	4.6	90	48
10	63	60	IR	**727 968 611**	0.088	5.8	100	50

Unions

Unions for socket fusion





PROGEF Standard union metric

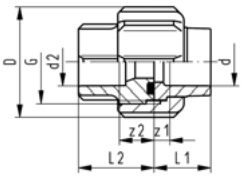
Model:

- 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 [mm]	PN [bar]	EPDM Code	FPM Code	Weight [kg]
16	10	**727 510 155**	**727 520 155**	0.020
20	10	**727 510 156**	**727 520 156**	0.038
25	10	**727 510 157**	**727 520 157**	0.062
32	10	**727 510 158**	**727 520 158**	0.080
40	10	**727 510 159**	**727 520 159**	0.137
50	10	**727 510 160**	**727 520 160**	0.136
63	10	**727 510 161**	**727 520 161**	0.251
75	10	**727 510 172**	**727 520 172**	0.432
90	10	**727 510 173**	**727 520 173**	0.625
110	10	**727 510 174**	**727 520 174**	1.009

d [mm]	D [mm]	G [inch]	L1 [mm]	L2 [mm]	z [mm]	z1 [mm]	z2 [mm]
16	35	3/4	18	24	5	3	9
20	48	1	19	26	5	3	10
25	58	1 1/4	21	28	5	3	10
32	65	1 1/2	23	30	5	3	10
40	79	2	25	34	5	3	12
50	91	2 1/4	28	39	5	3	14
63	111	2 3/4	32	47	5	3	18
75	135	S107,5x3,6	36	51	5	3	18
90	158	S127,5x3,6	42	55	7	5	18
110	188	S152,5x3,6	49	54	7	5	10





PROGEF Standard adapter union metric BS Inch / ASTM

Model:

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

d [mm]	d2 [inch]	PN [bar]	Code	Weight [kg]	D [mm]	G (R/Rp BS Thread) [inch]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 513 006**	0.041	48	1	19	26	5	12
25	¾	10	**727 513 007**	0.061	58	1 1/4	21	28	5	12
32	1	10	**727 513 008**	0.079	65	1 1/2	23	30	5	12
40	1 ¼	10	**727 513 009**	0.108	79	2	25	34	5	14
50	1 ½	10	**727 513 010**	0.133	91	2 1/4	28	39	5	16
63	2	10	**727 513 011**	0.252	111	2 3/4	32	47	5	20

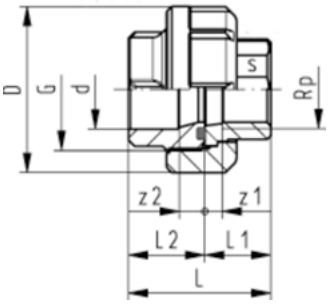
Adaptor unions



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



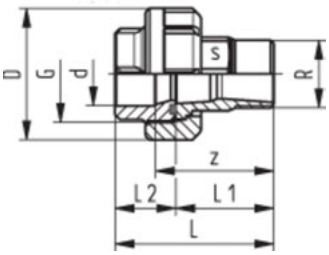
Rp [inch]	PN [bar]	d [mm]	Code	Weight [kg]	D [mm]	L1 [mm]	L [mm]	L2 [mm]	s [mm]	z1 [mm]	z2 [mm]	G [inch]
½	10	20	**727 550 506**	0.091	48	22	48	26	25	7	10	1
¾	10	25	**727 550 507**	0.152	58	25	53	28	30	9	10	1 1/4
1	10	32	**727 550 508**	0.194	65	27	57	30	36	8	10	1 1/2
1 ¼	10	40	**727 550 509**	0.317	79	31	65	34	46	10	12	2
1 ½	10	50	**727 550 510**	0.436	91	35	74	39	55	13	14	2 1/4
2	10	63	**727 550 511**	0.774	105	40	87	47	65	14	18	2 3/4



PROGEF Standard adaptor union PP-H/brass Metric R

Model:

- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM
- Union Nut: PP-H
- Union bush: fusion socket PP-H metric



PN [bar]	d [mm]	R [inch]	Code	Weight [kg]	G [inch]	L1 [mm]	D [mm]	s [mm]	z [mm]	L [mm]	L2 [mm]
10	20	½	**727 550 906**	0.130	1	37	48	25	47	63	26
10	25	½	**727 550 957**	0.203	1 1/4	37	58	30	47	65	28
10	25	¾	**727 550 907**	0.203	1 1/4	42	58	30	52	70	28
10	25	1	**727 550 967**	0.318	1 1/4	46	58	30	81	99	30
10	32	½	**727 550 958**	0.298	1 1/2	37	65	36	47	67	30
10	32	¾	**727 550 968**	0.298	1 1/2	42	65	36	52	72	30
10	32	1	**727 550 908**	0.389	1 1/2	46	65	36	56	76	30
10	40	1 ¼	**727 550 909**	0.493	2	52	79	46	64	86	34
10	50	1 ½	**727 550 910**	0.650	2 1/4	56	91	55	70	95	39
10	63	2	**727 550 911**	1.123	2 3/4	67	105	65	85	114	47

Tools

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+GF+ GF Piping Systems

Working Range MSA Machines

MSA 4.0	MSA 2.1	MSA 2.0	MSA 330	MSA 230	Size
					
•	•	•	•	•	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
•	•	•	•		1400
•	•	•	•		1600
•	•	•	•		1800
•	•	•	•		2000

MSA 4



MSA 4.0
Electrofusion Unit with full traceability and GPS functions

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
For operator identity card, job identification and fusion data input a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.
The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.
Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.
Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.
Scope of delivery: transport case, scanner, 2 pairs of angle adapters (clips 4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and mini Welding Book CD including Rental Guardian application.

Technical Data:

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- Fittings range: d16-1400 mm
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27

Type	Description	Code	Weight [kg]	
MSA 4.0	1D barcode scanner	**790 156 011**	13.000	
MSA 4.0	2D barcode scanner (QR code reading)	**790 156 012**	13.000	



MSA 4.1
Electrofusion Unit with full traceability, GPS functions and wireless scanner

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.
Operator identity, job identification and fitting data are captured using a wireless scanner, with 1D (for barcode labels on teh fitting) and 2D (in case of Unitary QR code availability). The wireless scanner is based on a rugged mobile phone with a software application installed for reading the barcode and giving evidence of the barcode type (operator, fusion data, traceability...). The wireless device can be used also for communication purposes as well as for accessing to GFPS online web services
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.
Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.
Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.
Scope of delivery: transport case, wireless scanner as rugged mobile phone with battery charger, 2 pairs of angle adapters (clips 4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and mini Welding Book CD including Rental Guardian application.

Technical Data:

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- Fittings range: d16-1400 mm
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27

Type	Description	Code	Weight [kg]	
MSA 4.1	2D wireless scanner (QR code reading)	**790 156 013**	13.000	

MSA 2



MSA 2.0
Automatic Electrofusion Unit

The MSA 2.0 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.
The MSA 2.0 has 350 protocols permanently stored in the internal memory.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains frequency: 50-60 Hz
- Mains voltage: 230 V (190V - 265V)
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V (48 V)
- Fittings range: d16-1200 mm
- Fusion data input mode: bar code, manual
- Internal memory capacity: 350 protocols
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 3 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	Weight [kg]	
Barcode scanner, transport case	**790 156 001**	20.000	
Barcode scanner, transport case, Swiss plug	**790 156 004**	13.000	



MSA 2.1
Automatic Electrofusion Unit with protocols retrieval

The MSA 2.1 automatic electrofusion unit combines light weight and high efficiency,thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit has 500 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, 1 pair of angle adapter clips 4.7 mm, operating instructions and START/STOP badge. The mini Wedling Book is available as option.

Technical Data:

- Operating temperature: -20°C to +50°C
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Mains frequency: 50-60 Hz
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V (48 V)
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Internal memory capacity: 500 protocols
- Fittings range: d16-1200 mm
- Protocols format: PDF and binary (compatible with mini Welding Book)
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	Weight [kg]	
Barcode scanner, transport case	**790 156 002**	13.000	
Barcode scanner, transport case, mini Welding Book	**790 156 003**	13.000	
Barcode scanner, transport case, Swiss plug	**790 156 005**	13.000	
Barcode scanner, transport case, mini Welding Book, Swiss plug	**790 156 006**	13.000	



MSA 330 Electrofusion unit with jointing data recording

The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menuguides youthrough the complete jointing process. For fusion data input a scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series.
Scope of delivery: dedicated transport case, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10Cto +45C
Mains voltage	180 V - 265 V AC
Mains frequency	40 Hz -70 Hz
Fusion voltage	8 - 48V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with >200mm)
Protection	Class 1 / IP 54
Mains cable	4 m
Fusion cable	4 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 21,7 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

description	Code	Weight [kg]	
Barcode scanner, transport case	**790 160 005**	30.000	



MSA 330 - 115 Volt
Electrofusion unit with jointing data recording

The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector. Inclusive dedicated transport case, pouch for scanner, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	90 V - 135 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48 V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with Ø>200mm)
Protection	Class 1 / IP 54
Mains cable	10 m
Fusion cable	3 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	25 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

description	Code	Weight [lb]	
Barcode scanner, transport case	**790 160 017**	70.548	

MSA Accessories



Adapter

- Adapters for Electrofusion units with 4 mm connectors.

Type	Code	Weight [kg]	Description	
4,0 mm	**799 350 340**	0.058	Angle adapter, black	
4,7 mm	**799 350 341**	0.057	Angle adapter, grey	
4,7 mm	**799 350 462**	0.014	Adapter, white	



MSA Applications Suite

MSA Applications Suite

Software applications to assist Utility professionals during welding and asset maintenance

MSA Welding book

The application extends the jointing information beyond the protocols automatically captured by the MSA units adding the:

- Automatic generation of maps for the welding place
- Generation of protocols including photos of scraping activities and proper alignment
- PDF creation of books on project basis

Type	Code	Weight [kg]	
MSA Welding Book	**790 160 201**	0.100	



MSA mini-Welding Book

Software application to assist the installer to manage the welding results: PDF creation in local language from protocols exported by MSA3x0 and MSA 2.1 units Automatic merge of photos and fusion protocols Combination of fusion protocols retrieved from more than one unit Filter of fusion protocols per date, type of error, etc...

Type	Code	Weight [kg]	
MSA mini-Welding Book	**790 156 030**	0.050	



MSA Rent Guardian

- Software application to unlock the MSA 330&340 when rental time is expired
- Generation of enabling code

Type	Code	Weight [kg]	
MSA Rent Guardian	**790 160 154**	0.001	





Geothermal cables kit

- Ability to joint in parallel 2 couplers of a Y fitting
- Welding voltage: 0 – 48 Volt
- Welding current: 40 A (max.)
- Content of delivery: 2 cables, pouch, protection caps, operation manual
- Recommended in combination with ELGEF fittings
- Compatible with all MSA Units
- Connector: 4 mm (90°)
- Cable length: 290 mm

Code	Weight [kg]	
790 160 176	0.385	



Data Transfer Cable

- RS 232 data transfer from MSA 230 to PC

Type	Code	Weight [kg]	
MSA 230	**790 128 112**	0.125	



Transport Box

- Large, robust transport box

Type	Dimension [mm]	Code	Weight [kg]	
MSA 230	320x310x510	**790 128 121**	6.300	
MSA 330 / MSA 340	370x350x520	**790 160 010**	8.000	

Working Range Peeling Tools

Topload	RST 1000	RS	RTC-710	PT 2	PT 1	PT 4	Size
							
					•	•	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
•							1400
•							1600
•							1800
•							2000

Product Range Machines and Tools



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 [mm]	Code	Weight [kg]	
RS 40	40	**790 136 001**	1.310	
RS 50	50	**790 136 002**	1.310	
RS 63	63	**790 136 003**	1.310	
RS 75	75	**790 136 004**	1.540	
RS 90	90	**790 136 005**	1.540	
RS 110	110	**790 136 006**	1.540	
RS 125	125	**790 136 007**	1.730	
RS 140	140	**790 136 008**	1.730	
RS 160	160	**790 136 009**	1.730	
RS 180	180	**790 136 010**	2.030	
RS 200	200	**790 136 011**	2.030	
RS 225	225	**790 136 012**	2.030	
RS 250	250	**790 136 013**	2.440	
RS 280	280	**790 136 014**	2.440	
RS 315	315	**790 136 015**	2.440	



Transport cases for Rotary Peeler RS

- Included in the scope of delivery of the Rotary Peeler RS

Article	Code	Weight [kg]	Description	Dimension [mm]	
RSTC 40-110	**790 136 211**	0.718	for RS 40-RS 110	326 - 222 - 116	
RSTC 125-160	**790 136 212**	1.212	for RS 125-RS 160	437 - 395 - 116	
RSTC 180-225	**790 136 213**	1.796	for RS 180-RS 225	450 - 360 - 132	
RSTC 250-315	**790 136 214**	2.901	for RS 250-RS 315	566 - 435 - 156	



Replacement blade to Rotary Peeler RS

d-d [mm]	Description	Code	Weight [kg]	
40 - 315	Hard metal	**790 136 100**	0.140	

Tools for preparing pipe surfaces

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 [mm]	Code	Weight [kg]	Description
20 - 90	**799 150 382**	2.261	Basic Tool PT 1 E

Pipe inserts for peeling tool PT 1 E





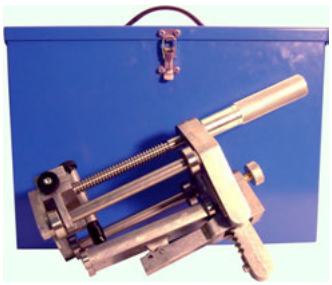
d [mm]	e [mm]	Code	Weight [kg]	Description
20	1.9	**799 300 739**	0.220	Pipe Insert SDR 11
20	3.0	**799 300 741**	0.262	Pipe Insert SDR 7
25	2.3	**799 300 740**	0.280	Pipe Insert SDR 11
25	3.0	**799 300 742**	0.290	Pipe Insert SDR 9
32	3.0	**799 300 743**	0.312	Pipe Insert SDR 11
40	3.7	**799 300 744**	0.341	Pipe Insert SDR 11
40	1.8	**799 300 760**	0.220	Pipe Insert SDR 26
50	4.6	**799 300 745**	0.472	Pipe Insert SDR 11
50	2.0	**799 300 761**	0.220	Pipe Insert SDR 26
56	2.2	**799 300 762**	0.588	Pipe Insert SDR 26
63	3.8	**799 300 725**	0.663	Pipe Insert SDR 17
63	5.8	**799 300 746**	0.602	Pipe Insert SDR 11
63	2.5	**799 300 763**	0.220	Pipe Insert SDR 26
75	4.5	**799 300 727**	0.690	Pipe Insert SDR 17
75	6.9	**799 300 747**	0.644	Pipe Insert SDR 11
75	2.9	**799 300 764**	0.220	Pipe Insert SDR 26
90	5.4	**799 300 748**	0.892	Pipe Insert SDR 17
90	8.2	**799 300 749**	0.796	Pipe Insert SDR 11

Replacement blade for peeling tool PT 1 E



d-d [mm]	Code	Weight [kg]	Description
20 - 90	**799 150 383**	0.028	Replacement blade, 1 piece

Peeling tool PT 2



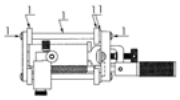
- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

d-d [mm]	Code	Weight [kg]	Description
63 - 250	**799 300 752**	7.500	Size 1, peeling length 140 mm
110 - 400	**799 300 755**	3.900	Size 2, peeling length 150 mm
110 - 500	**799 300 756**	3.900	Size 3, peeling length 175 mm



Replacement blade for peeling tool PT 2

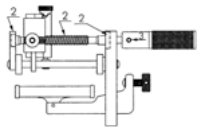
d-d [mm]	Code	Weight [kg]	Description	
63 - 500	**799 150 355**	0.008	Replacement blade, 1 piece	



Spindles repair kit for peeling tool PT 2

- Consisting of 1 main spindle, 1 fixing bolt, 1 end plate, 2 rollers and 1 spacing disk

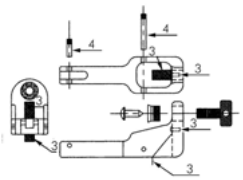
d-d [mm]	Code	Weight [kg]	
90 - 250	**799 150 360**	1.000	
110 - 400	**799 150 361**	0.420	
110 - 500	**799 150 362**	1.000	



Feed repair kit feed for peeling tool PT 2

- Consisting of 1 carriage bolt, 1 guide unit and 1 guide end plate

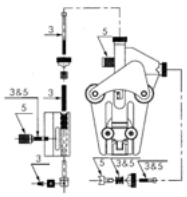
d-d [mm]	Code	Weight [kg]	
90 - 250	**799 150 363**	0.500	
110 - 400	**799 150 364**	0.346	
110 - 500	**799 150 365**	0.500	



Screws and springs repair kit for peeling tool PT 2

- Cosisting of 1 assembly screw long, 1 clamping screw, 1 handle, 1 srew for flat spring, 1 screw for cutting plate, 1 nut for feed, 1 flat spring, 1 spring for rapid adjustment and 1 clamping spring

d-d [mm]	Code	Weight [kg]	
90 - 500	**799 150 369**	0.079	



Tool holder repair kit for peeling tool PT 2

- 1 feed nut,
- 1 washer
- 1 fixing screw
- 1 nut for feed,
- 1 spring for rapid adjustment,

d-d [mm]	Code	Weight [kg]	
90 - 500	**799 150 370**	0.069	

Peeling tool PT 4



- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

e [mm]	d [mm]	Code	Weight [kg]	Description
1.9	20	**799 300 704**	0.303	Pipe Insert SDR 11
3.0	20	**799 300 705**	0.296	Pipe Insert SDR 7
2.3	25	**799 300 706**	0.320	Pipe Insert SDR 11
3.0	25	**799 300 707**	0.314	Pipe Insert SDR 9
3.0	32	**799 300 708**	0.340	Pipe Insert SDR 11
3.7	40	**799 300 709**	0.437	Pipe Insert SDR 11
4.6	50	**799 300 710**	0.502	Pipe Insert SDR 11
5.8	63	**799 300 711**	0.541	Pipe Insert SDR 11

Replacement blade for peeling tool PT 4



d-d [mm]	Piece	Code	Description
20 - 63	1	**799 150 275**	Replacement blade with 4 cutting surfaces

Peeling tool RTC-710



The peeling tool RTC-710 is suitable for preparing pipe ends in big dimensions (d 355-710 mm). The tool ensures a constant peeling quality on the complete peeling surface of max. 530 mm length and is suitable for PE 80 and PE 100 pipes.

Scope of delivery: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport cases, 1 screwdriver, 1 spare blade, 1 deburing knife, 1 accessories bag.

d-d [mm]	Code	Weight [kg]	Description
355 - 710	**799 300 757**	31.400	max. working-range 530 mm

Replacement blade for peeling tool RTC-710



d-d [mm]	Piece	Code	Weight [kg]	Description
355 - 710	1	**799 300 586**	0.020	Replacement blade, 1 piece



Rotary peeling tool RST 1000

- The flexible peeling tool RST 1000 is suitable for preparing welding zones of saddle and coupler jointings for Electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d1000 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box

d-d [mm]	Code	Weight [kg]	
250 - 1000	**799 300 799**	10.552	



Transportbox RST 1000 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 1000

d-d [mm]	Code	Weight [kg]	
250 - 1000	**799 300 806**	0.250	



Replacement blade for rotary peeling tool RST 1000

d-d [mm]	Code	Weight [kg]	Description	
250 - 1000	**799 300 802**	0.001	Replacement blade in carbide	



Hand scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

Code	Weight [kg]	Description	
799 198 094	0.143	Hand scraper with long handle	

Accessories for job sites

KS Tangit Cleaner



- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB.

DVGW approvedDW 5290 BR 0464

Code	Weight [kg]	
799 298 023	0.872	

Tangit KS-Cleaning Tissues



Code	Weight [kg]	
799 298 024	0.333	

Marker



Type	Code	Weight [kg]	
silver	**799 350 364**	0.010	

Roller support 315



- For pipes up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

d-d [mm]	Code	Weight [kg]	
20 - 315	**790 109 110**	4.500	

Roller support 630



- Up to d 630 mm, with base plate, galvanised
- **adjustable height** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

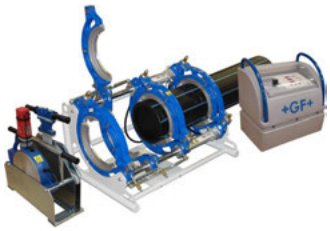
d-d [mm]	Code	Weight [kg]	
110 - 630	**790 109 109**	3.943	

Working Range Butt Fusion Machines

TM 160	TM 250	TM 315	GF 400	KL 500 / GF 500	KL 630 / GF 630	GF800	GF1000	GF1200	GF1600	Size
										20
										25
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						•	•	•		710
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							•	•	•	1000
								•	•	1200
									•	1400
									•	1600

Product Range Machines and Tools

TM 160 - 315 Butt fusion machines



TM 160 - 250 - 315 TOP

- 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, high performance heating element, storage case for the planer and heater
- Including transport packaging (wooden crate), without accessories and without reduction inserts

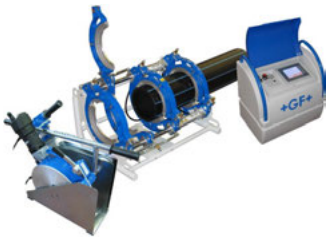
Type	d-d [mm]	Performance	Code	Weight [kg]	
TM 160 TOP	40 - 160	230V/1900W	**790 150 011**	76.000	
TM 250 TOP	75 - 250	230V/3270W	**790 151 011**	114.000	
TM 315 TOP	90 - 315	230V/3870W	**790 152 026**	126.000	



TM 160 - 250 - 315 WR

- 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, high performance heating element, storage case for the planer and heater
- Welding Recorder WR 200 configured to the machine and calibrated to the TOP hydraulic unit
- The WR 200 assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The complete fusion sequence is supervised and recorded for later print out or transfer to a data base. The recoder is equipped with on-board printer.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

Type	d-d [mm]	Performance	Code	Weight [kg]	
TM 160 WR	40 - 160	230V/1910W	**790 150 015**	136.000	
TM 160 WR CYRILLIC	40 - 160	230V/1910W	**790 150 016**	136.000	
TM 250 WR	75 - 250	230V/3280W	**790 151 015**	210.000	
TM 250 WR CYRILLIC	75 - 250	230V/3280W	**790 151 016**	210.000	
TM 315 WR	90 - 315	230V/3880W	**790 152 025**	224.000	
TM 315 WR CYRILLIC	90 - 315	230V/3880W	**790 152 016**	224.000	



TM 160 - 250 - 315 CNC

- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the TM TOP machines: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories !



CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions (Relining), special materials etc.).
- Various configuration possibilities, such as cooling time reduction according to the measured ambient temperature (CTC) and automatic bead build-up phase.
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine).
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be added to each welding record by the use of the **optional** barcode scanner (790152052)
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Shock absorbing plastic housing in attractive design.
- Integrated power outlets for planer and heating element.
- Preinstalled socket for connection of the barcode scanner (Accessory).
- Oil level control and refilling without disassembling the unit.
- Two handles to carry the hydraulic unit.

Type	d-d [mm]	Performance	Code	Weight [kg]	
TM 160 CNC	40 - 160	230V/2000W	**790 150 012**	125.000	
TM 250 CNC	75 - 250	230V/3150W	**790 151 012**	195.000	
TM 315 CNC	90 - 315	230V/3750W	**790 152 012**	215.000	



TM 160 - 250 - 315 Barcode Scanner with pouch

- The pouch could be easily fixed to the handle of the hydraulic unit
- Input of additional information like operator identification badge or traceability codes of the pipes and fittings

Type	Code	Weight [kg]	
TM 160 - 250 - 315	**790 152 052**	0.370	





TM 250 - 315 CNC with automatic heating element

- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit, sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The heating element is ejected automatically from the working position during change-over phase.
- Quick change of the heating element position from the central to the outer welding position when welding e.g. a T-Piece to a pipe.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions (Relining), special materials etc.).
- Various configuration possibilities such as cooling time reduction according to the measured ambient temperature (CTC) and automatic bead build-up phase.
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine).
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be added to each welding record by the use of the **optional** barcode scanner (790152052)
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Shock-absorbing plastic housing in attractive design.
- Integrated power outlets for planer and heating element.
- Preinstalled socket for connection of the barcode scanner (Accessory).
- Oil level control and refilling without disassembling the unit.
- Two handles to carry the hydraulic unit.

Type	d-d [mm]	Performance	Code	Weight [kg]	
TM 250 CNC	75 - 250	230V/3150W	**790 151 071**	143.000	
TM 315 CNC	90 - 315	230V/3750W	**790 152 071**	160.000	

TM 160 - 250 - 315 Accessories



TM 160 Reduction clamping inserts

- 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.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]
40	**790 114 027**	0.318	**790 114 023**	0.280
50	**790 114 016**	0.323	**790 114 009**	0.326
63	**790 114 017**	0.281	**790 114 010**	0.293
75	**790 114 018**	0.276	**790 114 011**	0.290
90	**790 114 019**	0.256	**790 114 012**	0.277
110	**790 114 020**	0.227	**790 114 013**	0.260
125	**790 114 021**	0.192	**790 114 014**	0.265
140	**790 114 022**	0.134	**790 114 015**	0.178



TM 250 Reduction clamping inserts

- 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.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]
75	**790 115 029**	0.768	**790 115 028**	0.902
90	**790 115 016**	0.719	**790 115 008**	0.940
110	**790 115 017**	0.734	**790 115 009**	0.841
125	**790 115 018**	0.661	**790 115 010**	0.829
140	**790 115 019**	0.762	**790 115 011**	0.647
160	**790 115 020**	0.574	**790 115 012**	0.727
180	**790 115 021**	0.561	**790 115 013**	0.676
200	**790 115 022**	0.479	**790 115 014**	0.733
225	**790 115 023**	0.385	**790 115 015**	0.477



TM 315 Reduction clamping inserts

- 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.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]
90	**790 112 098**	1.265	**790 112 088**	1.000
110	**790 112 099**	1.220	**790 112 089**	0.945
125	**790 112 100**	1.215	**790 112 090**	0.957
140	**790 112 101**	1.139	**790 112 091**	0.950
160	**790 112 102**	1.080	**790 112 092**	0.980
180	**790 112 103**	1.006	**790 112 093**	0.931
200	**790 112 104**	0.945	**790 112 094**	0.880
225	**790 112 105**	0.833	**790 112 095**	0.940
250	**790 112 106**	0.712	**790 112 096**	0.754
280	**790 112 107**	0.562	**790 112 097**	0.750



TM 160 - 250 - 315 Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- Reductions in inch sizes or special diameters upon request

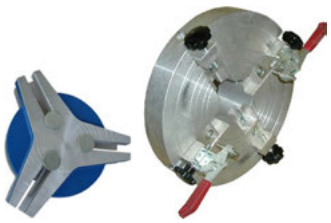
d-d [mm]	Code	Weight [kg]
40 - 140	**790 114 156**	17.000
75 - 225	**790 115 156**	63.000
90 - 280	**790 112 156**	78.000



TM 160 - 250 - 315 Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the machine dimension: e.g. bend Ø250 mm with a TM 250
- Left: bend is clamped left from the heating element position
- Right: bend is clamped right from the heating element position

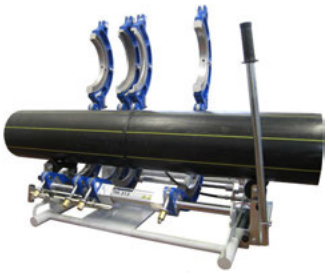
Type	Left Code	Right Code	Weight [kg]
TM 160	**790 150 205**	**790 150 206**	0.800
TM 250	**790 151 205**	**790 151 206**	1.822
TM 315	**790 152 205**	**790 152 206**	2.681



TM 160 - 250 - 315 Flange adapter clamping units

- For correct clamping and fusion jointing of short-ended stub ends

d-d [mm]	Code	Weight [kg]
40 - 160	**790 319 007**	5.800
75 - 250	**790 115 044**	5.594
90 - 315	**790 112 073**	11.000



TM 160 - 250 - 315 Pipe lifter

- Convenient movement of the welded pipes through the base machine
- Lifting the pipes out of the clamps or inserts, to let the bead pass without blocking
- Supporting the welded pipes on height adjustable rollers
- The pipe lifter could be easily assembled to the base machine
- The delivery contains one left and one right pipe lifter and one lever

Type	Code	Weight [kg]
TM 160	**790 150 050**	9.000
TM 250	**790 151 050**	11.000
TM 315	**790 152 050**	12.500



TM 250 - 315 Pressure Shut-Off Valve

- Time saving in the butt fusion process, by working with 2 base machines
- Enabling to disconnect the base machine under pressure from the hydraulic unit during the cooling time
- Close the pressure valve, release pressure at the hydraulic unit, disconnect the hoses from the base machine. Keep the joint cooling down
- Use the cooling time for pipe preparation and welding of the next join by connecting the hydraulic unit hoses to a second base machine

Type	Code	Weight [kg]
TM 250 - 315	**790 151 002**	1.500

GF 630 Butt fusion machine



GF 630

- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings.
- Size range d 315-630 mm
- PE up to d 630 mm SDR 9, PP up to d 630 mm SDR 17.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/11000 W	**790 117 032**	617.000	





GF 630 CNC

- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the GF 630 machine: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions, special materials etc.).
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine) and for safety reasons additionally in the CNC unit.
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Robust aluminium case with shock-absorbing plastic cover in attractive design.
- Integrated power outlets for planer and heating element.
- Easy oil-level-control and refilling without opening the unit.

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/6300 W	**790 155 001**	615.000	



Reduction clamping inserts

- We recommend 4 wide and 4 narrow half shells.
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]
315	**790 116 020**	3.622	**790 116 012**	3.698
355	**790 116 021**	3.267	**790 116 013**	3.727
400	**790 116 022**	2.508	**790 116 014**	3.836
450	**790 116 023**	2.273	**790 116 015**	3.276
500	**790 117 238**	3.700	**790 117 012**	4.500
560	**790 117 239**	3.800	**790 117 013**	4.900



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

Code	Weight [kg]
790 124 029	153.000



Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts d 315, d 355, d 400, d 450
- 8 wide reduction inserts d 500, d 560

d-d [mm]	Code	Weight [kg]
315 - 560	**790 117 021**	201.000



Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension

Code	Weight [kg]
790 345 233	0.001



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d [mm]	Code	Weight [kg]
630	**790 117 029**	29.000

WR 200 Welding recorder



WR 200

The WR 200 assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The selection of the fusion data like the used material, welding standard, diameter and wall thickness (SDR) is supported by a menu. The complete fusion sequence is supervised and recorded. The welding protocols can be directly printed out at jobsite by means of the on-board printer or easily exported via USB stick to any personal computer for further management. The recorder is protected by a robust plastic case of IP 65 protection class. The power and connecting cables are stored in a separate box. The WR 200 can be connected to hydraulically operated butt-fusion machines for construction site, even by later retrofitting of machines in service centres.

Description:

- Intuitive user guidance menu
- Welding standard selection e.g. DVS, UNI, WIS, ISO
- Welding process customisable: 4 user-defined cycles available
- Additional data input as: operator-ID, job and order number, joint number, GPS coordinates from an independent device
- On-board printer for direct print pout of welding protocols at jobsite
- USB interface for welding protocols transfer
- Internal memory capacity: 250 protocols
- Selection of operator language
- Battery support for an autonomy of 10 hours (no data loss during power interruption)
- “Rent Guardian” function to set and control the rental period of the unit
- Available protocols format: TXT for easy printout, CSV for database management with SUVI® WIN-WELD software (included)
- Fully compatible with butt-fusion machines already working with former welding recorder models SUVI® 50 and WR 100
- Working temperature range: -10°C to +50°C

Type	Performance	Dimensions	Code	Weight [kg]
WR 200	230 V	350x300x250 mm	**790 119 401**	5.000
WR 200 CYRILLIC	230 V	350x300x250 mm	**790 119 425**	5.500



Trolley for hydraulic unit

- For easier transportation on site, including support for WR 200 welding recorder

Code	Weight [kg]
790 146 020	25.000



Machines equipped with WR 200

Type	Performance	Code	Weight [kg]
TM 160 WR	230V/1910W	**790 150 015**	136.000
TM 160 WR CYRILLIC	230V/1910W	**790 150 016**	136.000
TM 250 WR	230V/3280W	**790 151 015**	210.000
TM 250 WR CYRILLIC	230V/3280W	**790 151 016**	210.000
TM 315 WR	230V/3880W	**790 152 025**	224.000
TM 315 WR CYRILLIC	230V/3880W	**790 152 016**	224.000
GF 400 WR	400V/5710W	**790 127 015**	350.000
GF 400 WR	230V/5710W	**790 127 020**	350.000
GF 400 WR CYRILLIC	230V/5710W	**790 127 021**	350.000
GF 500 WR	400V/6260W	**790 116 075**	475.000
GF 500 WR CYRILLIC	400V/6260W	**790 116 074**	475.000
KL 500 TOP 1 WR	400V/6260W	**790 340 008**	475.000

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Type	Performance	Code	Weight [kg]	
KL 500 TOP 2 WR	400V/6260W	**790 340 035**	475.000	
KL 500 TOP 2 WR CYRILLIC	400V/6260W	**790 340 036**	475.000	
GF 630 WR	400V/11010W	**790 117 075**	600.000	
GF 630 WR CYRILLIC	400V/11010W	**790 117 074**	600.000	
KL 630 TOP 1 WR	400V/11010W	**790 345 008**	600.000	
KL 630 TOP 1 WR CYRILLIC	400V/11010W	**790 345 011**	600.000	
KL 630 TOP 2 WR	400V/11010W	**790 345 036**	600.000	
GF 800 WR	400V/15010W	**790 123 075**	1550.000	
GF 800 WR CYRILLIC	400V/15010W	**790 123 074**	1550.000	
GF 1000 WR	400V/19510W	**790 124 075**	3000.000	
GF 1000 WR CYRILLIC	400V/19510W	**790 124 074**	3000.000	
GF 1200 WR	400V/20510W	**790 125 075**	3210.000	
GF 1200 WR CYRILLIC	400V/20510W	**790 125 074**	3210.000	
GF 1600 WR	400V/55000W	**790 146 002**	6900.000	
GF 1600 WR CYRILLIC	400V/55000W	**790 146 003**	6900.000	

Machines with retrofitting for WR 200

Type	Performance	Code	Weight [kg]	
GF 400	400V/5710W	**790 127 019**	355.000	
GF 400	230V/5710W	**790 127 018**	355.000	
GF 500	400V/6260W	**790 116 072**	498.000	
KL 500 TOP 1	400V/6260W	**790 340 007**	470.000	
KL 500 TOP 2	400V/6260W	**790 140 021**	460.000	
GF 630	400V/11010W	**790 117 071**	617.000	
KL 630 TOP 1	400V/11010W	**790 345 003**	627.000	
KL 630 TOP 2	400V/11010W	**790 345 013**	617.000	
GF 800	400V/15010W	**790 123 073**	1545.000	
GF 1000	400V/19510W	**790 124 073**	2528.000	
GF 1200	400V/20510W	**790 125 073**	2932.000	

IM 250 Butt fusion machine



IM 250

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d75 - 250 mm, from SDR 41 up to SDR 11 with PE, PP d250 mm.
- **Base machine**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Optional outer, horizontally removable clamping devices available
- **Planer**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **Heater**
- High-performance and precision heater with electronic temperature control (2000 W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
- Reduction clamping inserts set d 75-250 mm
- Reduction pipe supporting inserts set d 75-250 mm
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
75 - 250	230 V / 3000 W	Without transport crate	**790 142 005**	220.000	
75 - 250	230 V / 3000 W	With standard transport crate	**790 142 001**	265.000	
75 - 250	230 V / 3000 W	With special transport crate	**790 142 003**	283.000	



IM 250 - D

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d75 - 250 mm, from SDR 41 up to SDR 11 with PE, PP d250 mm.
- **Base machine**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Digital display for force indication
- Fusion pressure is maintained with a user friendly fast-locking handle
- Optional outer, horizontally removable clamping devices available
- **Planer**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **Heater**
- High-performance and precision heater with electronic temperature control (2000 W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
- Reduction clamping inserts set d 75-250 mm
- Reduction pipe supporting inserts set d 75-250 mm
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]
75 - 250	230 V / 3000 W	With standard transport crate	**790 142 002**	152.000
75 - 250	230 V / 3000 W	With special transport crate	**790 142 004**	283.000



Outer base clamping devices

d [mm]	Type	Code	Weight [kg]
250	L	**790 142 030**	15.710
250	R	**790 142 031**	15.710



Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

d-d [mm]	Code	Weight [kg]	
75 - 225	**790 142 032**	16.800	



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 142 061	3.175	



Tool box

- Wooden case designed for storage and transportation of machine standard reduction inserts set and tools.

Code	Weight [kg]	
790 142 066	22.017	



Special transport crate

- Especially designed for easy transportation of the machine with standard equipment and complete accessories set, providing the most comfortable working position for the operator.

Code	Weight [kg]	
790 142 065	131.000	

IM 315 Butt fusion machine



IM 315

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- **Base machine**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Optional outer, horizontally removable clamping devices available
- **Planer**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **Heater**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
90 - 315	230 V / 3500 W	Without transport crate	**790 143 005**	152.000	
90 - 315	230 V / 3500 W	With standard transport crate	**790 143 001**	152.000	
90 - 315	230 V / 3500 W	With special transport crate	**790 143 003**	283.000	



IM 315 - D

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- **Base machine**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Digital display for force indication
- Fusion pressure is maintained with a user friendly fast-locking handle
- Optional outer, horizontally removable clamping devices available
- **Planer**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **Heater**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
90 - 315	230 V / 3500 W	With standard transport crate	**790 143 002**	152.000	
90 - 315	230 V / 3500 W	With special transport crate	**790 143 004**	283.000	



Outer base clamping devices

d [mm]	Type	Code	Weight [kg]	
315	L	**790 143 030**	15.867	
315	R	**790 143 031**	15.867	



Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

d-d [mm]	Code	Weight [kg]	
90 - 280	**790 143 032**	16.800	



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 142 061	3.175	

Tools for installation of plastic pipes



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts neccessary
- Weight of the saw: 13,0 kg
- Power: 1750 W ; 230 V 50 / 60 Hz
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d [mm]	Code	Weight [kg]	
160 - 355	**790 202 001**	35.000	



Chamfering tools

Tool for beveling (15° angle) the outer diameter of the thermoplastic pipes (PVC, ABS, PB, PP, PE). Sliding surface out of industrial felt.

d-d [mm]	Code	Weight [kg]	
40 - 200	**790 309 001**	1.607	
50 - 315	**790 309 002**	3.265	



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	Weight [kg]	
16 - 200	**790 309 003**	1.024	
63 - 400	**790 309 004**	2.548	



Outer bead remover

d-d [mm]	Code	Weight [kg]	
110 - 160	**790 109 241**	1.240	
140 - 250	**790 109 242**	1.950	
180 - 315	**790 109 243**	2.090	
280 - 450	**790 109 244**	2.700	

Working Range Industry Fusion Machines

SG 125	SG 160	IM 250	SG 315	MC 110	PSO 701	Weld 160	Weld 250	SSE	MSE	Size
										
	•							•	•	16
•	•			•				•	•	20
•	•			•				•	•	25
•	•			•				•	•	32
•	•			•	•	•		•	•	40
•	•			•	•	•		•	•	50
•	•	•		•	•	•		•	•	63
•	•	•		•	•	•		•	•	75
•	•	•	•	•	•	•	•	•	•	90
•	•	•	•	•	•	•	•	•	•	110
•	•	•	•		•	•	•	•		125
	•	•	•		•	•	•	•		140
	•	•	•		•		•	•		160
		•	•				•	•		180
		•	•				•	•		200
		•	•				•	•		225
		•	•				•	•		250
			•					•		280
			•							315

Product Range Machines and Tools

SG 125 Socket fusion machine



SG 125, 230 V

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP, PE, PB and PVDF pipes and fittings; dimension 20 - 125 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **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.
- V-shaped pipe support d 20 - 125 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
20 - 125	230 V/1500 W	**790 310 034**	50.000	



SG 125, 115 V

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP, PE, PB and PVDF pipes and fittings; dimension 20 - 90 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **Heater**
- Thermostatic 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.
- V-shaped pipe support d 20 - 125 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
20 - 90	115 V/1500 W	**790 310 037**	65.000	

SG 125 Accessories

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 [mm]	Code	Weight [kg]
20	**799 300 156**	0.090
25	**799 300 157**	0.154
32	**799 300 158**	0.211
40	**799 300 159**	0.309
50	**799 300 160**	0.434
63	**799 300 161**	0.594
75	**799 300 162**	0.981
90	**799 300 163**	1.452
110	**799 300 164**	2.008
125	**799 300 165**	2.200

Set heating spigots and bushes Type B



- 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-d [mm]	Code	Weight [kg]
20 - 125	**790 310 023**	8.600

Chamfering tool

Code	Weight [kg]
790 309 001	1.607
790 309 002	3.265

Manual pipe peeling and chamfering tools



d [mm]	Code	Weight [kg]
20	**799 300 260**	0.087
25	**799 300 270**	0.080
32	**799 300 280**	0.099
40	**799 300 290**	0.240
50	**799 300 300**	0.244
63	**799 300 310**	0.507
75	**799 300 320**	0.680
90	**799 300 330**	1.006
110	**799 300 340**	1.355

1 set face chucks



- For back and front prismatic clamping device (set of 2 pieces)

d-d [mm]	Code	Weight [kg]	Weight [kg]
20 - 110	**790 310 018**	1.100	1



Universal prismatic clamping device, complete

- For correct clamping of long pipes, fittings
- 1 set = 2 pieces (1 back and 1 front prismatic clamping device) for mounting on left or right side, as well as for inner and outer mounting

d-d [mm]	Code	Weight [kg]
20 - 125	**790 310 040**	3.300



Backstop, complete

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]
790 310 012	0.600



V-shaped pipe support, complete

d-d [mm]	Code	Weight [kg]
20 - 125	**790 310 041**	0.700



Heating element

d-d [mm]	description	Performance	Code	Weight [kg]
20 - 125	electronic	230 V/1500 W	**790 310 043**	2.700
20 - 125	thermostatic	230 V/1500 W	**790 310 044**	2.700
20 - 125	thermostatic	115 V/1500 W	**790 310 046**	2.700



Tempil sticks

Temperature [°C]	Code	Weight [kg]
253	**761 066 796**	0.012
274	**761 066 797**	0.014



Gloves

Code	Weight [kg]
761 066 799	0.115



Special transport crate

Code	Weight [kg]
790 310 099	26.000

SG 160
Combined butt and socket fusion machine



SG 160

Mobile, very compact and universal plastic fusion machine for PP, PE and PVDF pipes and fittings 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 +/- 4C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE fabric

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 [mm]	Performance	Code	Weight [kg]	
16 - 160	230 V	**790 103 031**	44.900	
16 - 160	115 V	**790 103 033**	45.000	

SG 160 Accessories

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 [mm]	Type	Code	Weight [kg]
160	L	**790 103 010**	2.508
160	R	**790 103 011**	2.549

Inserts, left/right



- For base clamping plate or bracket
- Left or right

d [mm]	Code	Weight [kg]
32	**790 103 019**	0.315
40	**790 103 020**	0.303
50	**790 103 021**	0.302
63	**790 103 022**	0.277
75	**790 103 023**	0.250
90	**790 103 024**	0.219
110	**790 103 025**	0.178
125	**790 103 026**	0.132
140	**790 103 027**	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 [mm]	Type	Code	Weight [kg]
	32	L	**790 103 039**	1.076
	40	L	**790 103 040**	0.530
	50	L	**790 103 041**	0.537
	63	L	**790 103 042**	0.531
	75	L	**790 103 043**	0.530
	90	L	**790 103 044**	0.580
	110	L	**790 103 045**	0.580
	125	L	**790 103 046**	0.606
	140	L	**790 103 047**	0.650
*	160	L	**790 103 048**	0.669
	32	R	**790 103 059**	0.530
	40	R	**790 103 060**	0.530
	50	R	**790 103 061**	0.530
	63	R	**790 103 062**	0.530
	75	R	**790 103 063**	1.042
	90	R	**790 103 064**	1.174
	110	R	**790 103 065**	0.590
	125	R	**790 103 066**	0.605
	140	R	**790 103 067**	0.530
*	160	R	**790 103 068**	0.679



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

d-d [mm]	Code	Weight [kg]	
20 - 250	**790 101 045**	1.394	



Clamping bracket, right

- For base clamping plate or bracket
- R = right

Code	Weight [kg]	
790 103 059	0.530	
790 103 060	0.530	
790 103 061	0.530	
790 103 062	0.530	
790 103 063	1.042	
790 103 064	1.174	
790 103 065	0.590	



Prismatic clamping device

- Prismatic clamping device for pick up of clamping jaws for exact alignment of fusion components
- L = left
- R = right

*Horizontal adjustable

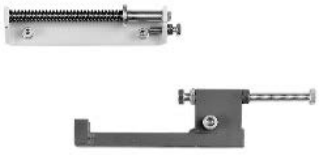
Type	Code	Weight [kg]	
L	**790 103 080**	5.849	
R	**790 103 081**	5.839	



Clamping jaws

- For prismatic base units, left/right
- Each code number defines 1 piece prismatic clamping device. For socket fusion 4 pieces are needed.

d [mm]	Code	Weight [kg]	
16-32 / 90-110	**790 103 085**	0.310	
30-50 / 50-90	**790 103 086**	0.330	



Depth stop, complete

- Warrants the correct insertion depth of the pipe in the fittings socket
- Built-in spring for easier removal of fusion components from the heater. Damage to the plastified fusion surfaces is prevented.

Code	Weight [kg]	
790 103 090	0.610	



Stiffener plate

- Warrants consistent heat transfer from heater plate to heating bush 110 mm
- Is recommended for socket fusion in the dimension 110 mm
- For heating bush d 110 mm

d [mm]	Code	Weight [kg]
110	**790 101 098**	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 [mm]	Code	Weight [kg]
20	**790 103 160**	0.950
25	**790 103 161**	0.950
32	**790 103 162**	0.950
40	**790 103 163**	0.930
50	**790 103 164**	0.950
63	**790 103 165**	1.000
75	**790 103 166**	1.150
90	**790 103 167**	1.250
110	**790 103 168**	1.344



Heating spigots and bushes

- 1 pair is always delivered
- Aluminium, PTFE coated

d [mm]	Code	Weight [kg]
16	**790 101 086**	0.110
20	**790 101 087**	0.110
25	**790 101 088**	0.110
32	**790 101 089**	0.110
40	**790 101 090**	0.330
50	**790 101 091**	0.170
63	**790 101 092**	0.310
75	**790 101 093**	1.164
90	**790 101 094**	1.688
110	**790 101 095**	2.071



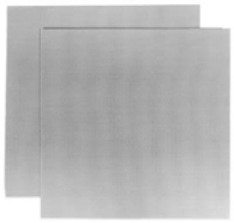
Gloves

Code	Weight [kg]
761 066 799	0.115



Tempil sticks

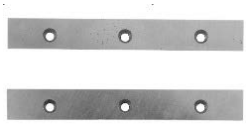
Temperature [°C]	Code	Weight [kg]
253	**761 066 796**	0.012
274	**761 066 797**	0.014



SG 160 1 Set PTFE fabric sheets

- (set of 2 pieces)
- High-quality, easy to replace, non-stick PTFE fabric for the heater

d [mm]	Code	Weight [kg]	
160	**790 103 306**	0.023	



SG 160 1 Set planer blades

- (1 set = 2 blades)

Code	Weight [kg]	
790 103 548	0.039	



Special transport crate

- Compact and sturdy for proper transportation and safe storage
- Multifunctional, can be used as a workbench for ergonomic working position
- Two integrated drawers to store all accessories
- Dimensions 1 m height x 1,2 m length x 0.8 m width

Code	Weight [kg]	
790 103 099	108.000	

Manual fusion tools





MSE 63/MSE 110 Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- 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
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control

d-d [mm]	Type	Performance	Code	Weight [kg]	
16 - 63	MSE 63 T	230 V/800 W	**790 105 081**	1.700	
16 - 63	MSE 63 E	230 V/800 W	**790 105 082**	1.800	
16 - 63	MSE 63 T	115 V/800 W	**790 105 096**	2.075	
16 - 110	MSE 110 T	230 V/1500 W	**790 105 083**	3.200	
16 - 110	MSE 110 E	230 V/1500 W	**790 105 084**	3.200	
16 - 110	MSE 110 T	115 V/1500 W	**790 105 126**	3.200	



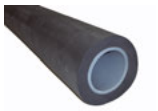
MSE 63/MSE 110 - Set - Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- 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
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Alen screws and key
- T = thermostatic temperature control / E = electronic temperature control

Type	d-d [mm]	Performance	Code	Weight [kg]	
MSE 63 T	16 - 63	230 V/800	**790 105 085**	8.700	
MSE 63 E	16 - 63	230 V/800	**790 105 086**	8.700	
MSE 63 T	16 - 63	115 V/800	**790 105 098**	8.600	
MSE 110 T	16 - 110	230 V/1500	**790 105 087**	17.700	
MSE 110 E	16 - 110	230 V/1500	**790 105 088**	16.523	
MSE 110 T	16 - 110	115 V/1500	**790 105 128**	17.700	

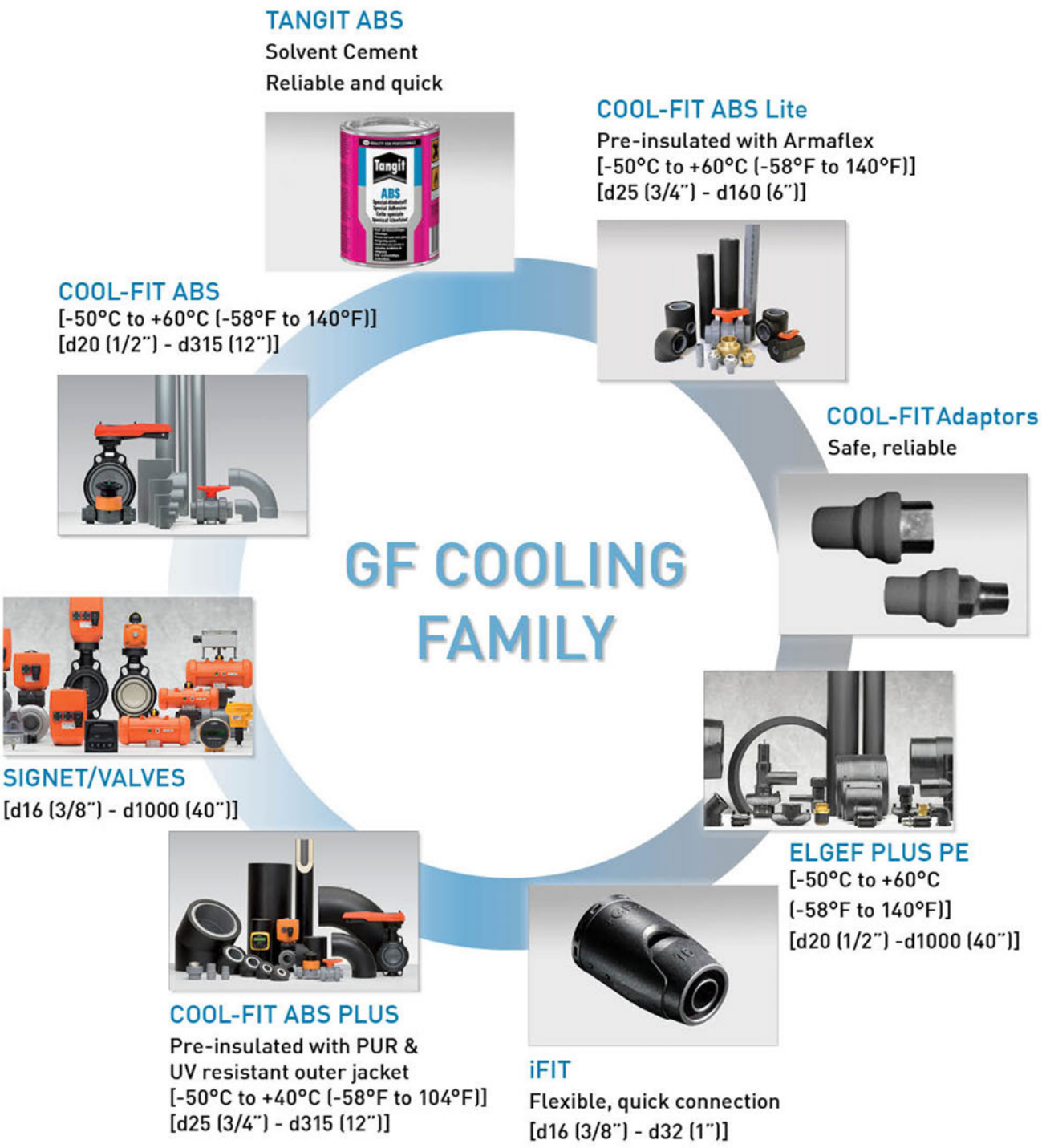
COOL-FIT ABS / COOL-FIT Lite

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COOL-FIT Top quality

Minimum on site time



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.

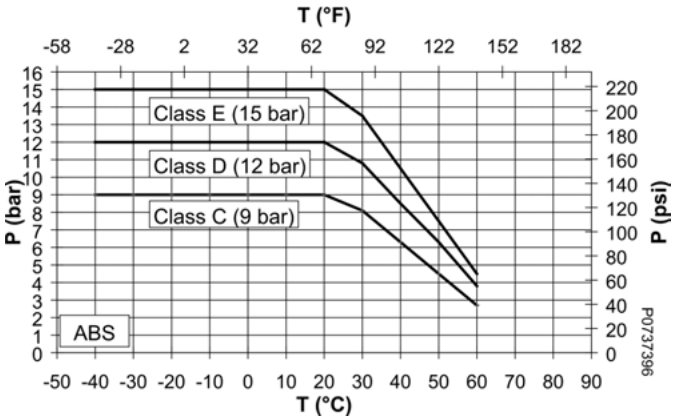
The influence of the anti-freeze compound has to be taken into account when calculating the allowable operating pressure. Please contact your GF representative for further information.

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.

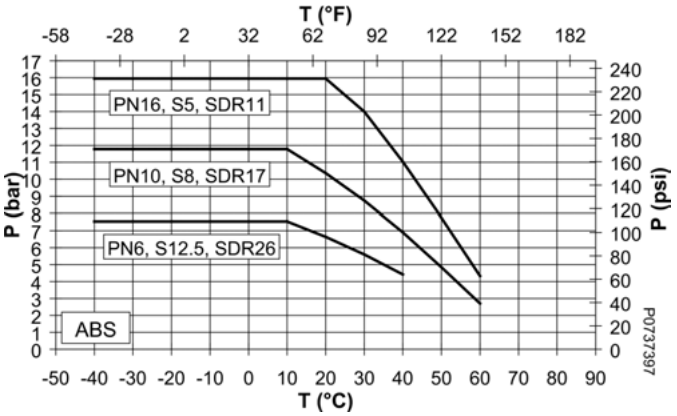
Inch-based systems



P Permissible pressure in bar, psi

T Temperature in °C, °F

Metric-based systems



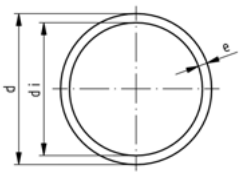
P Permissible pressure in bar, psi

T Temperature in °C, °F

COOL-FIT ABS pipes

Metric pipes





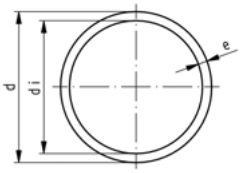
Pipe ABS metric
Nominal pressure PN16 (at 20°C)

Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]	Copper size [inch]	closest inch [inch]
16	16	**169 017 080**	0.095	1.8	12.4	½	⅜
20	16	**169 017 081**	0.148	2.3	15.4	⅝	½
25	16	**169 017 082**	0.191	2.3	20.4	⅞	¾





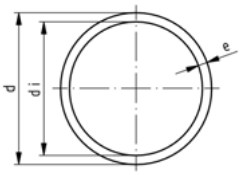
Pipe ABS metric
Nominal pressure PN10 (at 20°C)

Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	d [inch]	Code	Weight [kg/m]	e [mm]	di [mm]	closest inch [inch]	Copper size [inch]
32	10		**169 017 083**	0.213	1.9	28.2	1	1 ⅛
40	10		**169 017 084**	0.336	2.4	35.2	1 ¼	1 ⅜
50	10		**169 017 085**	0.516	3.0	44.0	1 ½	1 ⅝
63	10		**169 017 086**	0.819	3.8	55.4	2	2 ⅛
75	10	2 ½	**169 017 087**	1.154	4.5	66.0	2 ½	2 ⅝
90	10		**169 017 088**	1.905	5.4	79.2	3	3 ⅛
110	10		**169 017 089**	2.745	6.6	96.8	4	4 ⅛
140	10	5	**169 017 091**	4.083	8.3	123.4	5	
160	10		**169 017 092**	5.200	9.5	141.0	6	6
200	10		**169 017 093**	8.307	12.3	175.4	8	
225	10		**169 017 094**	10.522	13.9	197.2	9	





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

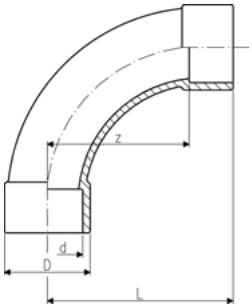
d [mm]	PN [bar]	Code	Weight [kg/m]	di [mm]	e [mm]	closest inch [inch]
250	6	**169 017 095**	8.299	230.8	9.6	10
280	6	**169 017 096**	10.346	258.6	10.7	11
315	6	**169 017 097**	13.173	290.8	12.1	12

COOL-FIT ABS fittings

Pipe fittings for solvent cement jointing

Bend 90° ABS metric





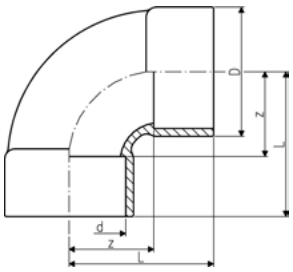
- Radius = 2 d

* Available as long as our stock will last

	d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]	closest inch [inch]
	20	16	**729 000 106**	0.027	27	58	40	½
	25	16	**729 000 107**	0.039	35	69	50	¾
	32	10	**729 000 108**	0.056	38	86	64	1
	40	10	**729 000 109**	0.099	54	109	80	1 ¼
	50	10	**729 000 110**	0.229	61	131	100	1 ½
	63	10	**729 000 111**	0.391	76	164	126	2
	75	10	**729 000 112**	0.595	90	194	150	2 ½
	90	10	**729 000 113**	1.044	113	231	180	3
	110	10	**729 000 114**	2.101	137	281	220	4
	140	10	**729 000 116**	3.996	168	356	280	5
*	160	10	**729 000 117**	5.600	191	406	320	6

Bend 90° short pattern ABS metric

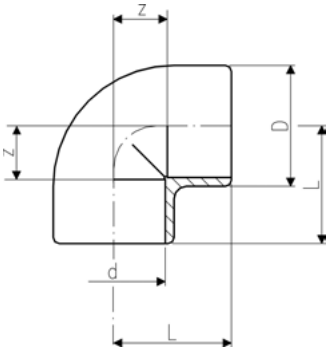




- >d225 - maximum operating temperature: +40°C

PN [bar]	d [mm]	Code	Weight [kg]	closest inch [inch]	z [mm]	D [mm]	L [mm]
10	225	**729 010 120**	5.741	9	168	256	287
6	280	**729 010 122**	18.000	11	210	318	357
6	315	**729 010 123**	21.000	12	237	356	401



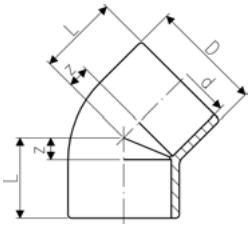


Elbow 90° ABS metric

- >d225 - maximum operating temperature: +40°C

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]	closest inch [inch]
20	16	**729 100 106**	0.010	26	27	11	½
25	16	**729 100 107**	0.018	31	33	14	¾
32	10	**729 100 108**	0.033	40	39	17	1
40	10	**729 100 109**	0.055	49	47	21	1 ¼
50	10	**729 100 110**	0.098	61	57	26	1 ½
63	10	**729 100 111**	0.186	76	72	33	2
75	10	**729 100 112**	0.300	90	84	40	2 ½
90	10	**729 100 113**	0.432	110	97	46	3
110	10	**729 100 114**	0.769	136	116	55	4
140	10	**729 100 116**	1.516	162	146	70	5
160	10	**729 100 117**	2.177	185	166	80	6
200	10	**729 100 119**	3.372	225	207	101	8
250	6	**729 100 121**	8.218	282	263	131	9





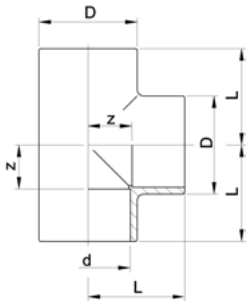
Elbow 45° ABS metric

- >d225 - maximum operating temperature: +40°C

d [inch]	d [mm]	PN [bar]	Code	Weight [kg]	closest inch [inch]	z [mm]	D [mm]	L [mm]
	20	16	**729 150 106**	0.009	½	5	25	21
	25	16	**729 150 107**	0.013	¾	6	31	25
	32	10	**729 150 108**	0.026	1	8	40	30
	40	10	**729 150 109**	0.044	1 ¼	10	49	36
	50	10	**729 150 110**	0.079	1 ½	12	61	43
	63	10	**729 150 111**	0.143	2	14	76	52
2 ½	75	10	**729 150 112**	0.225	2 ½	17	89	61
	90	10	**729 150 113**	0.363	3	20	107	71
	110	10	**729 150 114**	0.567	4	28	131	89
5	140	10	**729 150 116**	1.175	5	32	162	108
	160	10	**729 150 117**	1.713	6	36	185	122
	200	10	**729 150 119**	2.546	8	43	225	149
	225	10	**729 150 120**	3.162	8	49	250	168
	250	6	**729 150 121**	6.139	9	60	282	192
	280	6	**729 150 122**	10.500	10	66	318	213
	315	6	**729 150 123**	14.600	12	74	356	239

Tee 90° ABS metric



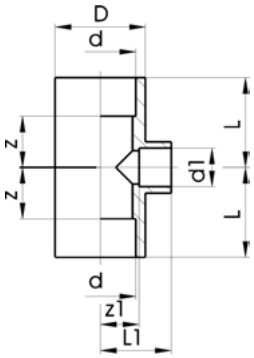


- >d225 - maximum operating temperature: +40°C

PN [bar]	d [inch]	d [mm]	Code	Weight [kg]	closest inch [inch]	z [mm]	D [mm]	L [mm]
16		20	**729 200 106**	0.015	½	11	25	27
16		25	**729 200 107**	0.025	¾	14	31	33
10		32	**729 200 108**	0.042	1	17	40	39
10		40	**729 200 109**	0.078	1 ¼	21	49	47
10		50	**729 200 110**	0.134	1 ½	26	61	57
10		63	**729 200 111**	0.255	2	34	76	72
10	2 ½	75	**729 200 112**	0.404	2 ½	40	90	84
10		90	**729 200 113**	0.664	3	47	107	98
10		110	**729 200 114**	1.010	4	55	133	116
10	5	140	**729 200 116**	2.570	5	71	169	147
10		160	**729 200 117**	3.752	6	81	193	167
10		200	**729 200 119**	4.446	8	101	225	207
10		225	**729 200 120**	6.860	8	114	256	233
6		250	**729 200 121**	11.189	9	132	282	263
6		280	**729 200 122**	11.989	10	152	318	298
6		315	**729 200 123**	20.000	12	168	356	332

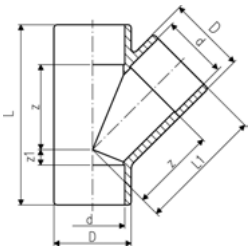
Tee 90° reducing ABS metric





d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z1 [mm]	z [mm]	Closest inch run-branch-run [inch]	L [mm]	L1 [mm]	D [mm]
25	20	16	**729 200 134**	0.030	14	14	¾ - ½ - ¾	33	30	33
32	25	10	**729 200 138**	0.049	17	17	1 - ¾ - 1	39	36	41
40	25	10	**729 200 151**	0.083	23	23	1 ¼ - ¾ - 1 ¼	49	42	50
40	32	10	**729 200 147**	0.085	23	23	1 ¼ - 1 - 1 ¼	49	45	50
50	25	10	**729 200 010**	0.138	28	28	1 ½ - ¾ - 1 ½	59	47	62
50	32	10	**729 200 164**	0.141	28	28	1 ½ - 1 - 1 ½	59	50	62
63	25	10	**729 200 011**	0.246	34	34	2 - ¾ - 2	73	53	77
63	32	10	**729 200 178**	0.256	34	35	2 - 1 - 2	73	56	77
63	50	10	**729 200 170**	0.270	34	35	2 - 1 ½ - 2	73	65	77
75	40	10	**729 200 182**	0.397	41	40	2 ½ - 1 ¼ - 2 ½	84	66	92
90	32	10	**729 200 143**	0.671	55	46	3 - 1 - 3	97	93	110
90	63	10	**729 200 146**	0.715	55	46	3 - 2 - 3	97	93	110
110	32	10	**729 200 144**	1.109	67	56	4 - 1 - 4	117	89	133
110	50	10	**729 200 136**	1.143	67	56	4 - 1 ½ - 4	117	98	133
140	50	10	**729 200 148**	2.452	82	72	5 - 1 ½ - 5	148	113	172
140	75	10	**729 200 149**	2.478	78	72	5 - 2 ½ - 5	148	122	172
160	110	10	**729 200 152**	4.305	91	81	6 - 3 - 6	167	142	192
160	90	10	**729 200 158**	3.431	91	81	6 - 3 - 6	167	142	192
200	110	10	**729 200 153**	6.688	131	106	7 - 4 - 7	213	192	232
225	110	10	**729 200 156**	8.096	143	119	8 - 4 - 8	239	204	257
225	160	10	**729 200 157**	7.485	119	119	8 - 6 - 8	239	205	257

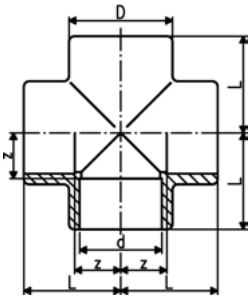




Tee 45° ABS metric

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	closest inch [inch]	z [mm]	z1 [mm]
20	10	**729 250 106**	0.027	28	68	46	½	30	6
25	10	**729 250 107**	0.043	33	83	55	¾	36	9
32	10	**729 250 108**	0.073	41	99	67	1	45	10
40	10	**729 250 109**	0.123	50	118	82	1 ¼	56	10
50	10	**729 250 110**	0.202	60	140	97	1 ½	66	12
63	10	**729 250 111**	0.334	74	175	123	2	85	14
75	6	**729 250 112**	0.605	91	207	145	2 ½	101	18
90	6	**729 250 113**	0.961	107	245	173	3	122	20
110	6	**729 250 114**	1.907	134	298	210	4	149	27
140	6	**729 250 116**	4.315	168	376	266	5	190	34

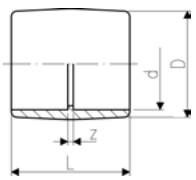




Cross ABS metric

PN [bar]	d [mm]	Code	Weight [kg]	closest inch [inch]	z [mm]	D [mm]	L [mm]
10	32	**729 300 108**	0.070	1	17	43	39
10	63	**729 300 111**	0.359	2	34	79	72
10	90	**729 300 113**	0.937	3	48	106	97



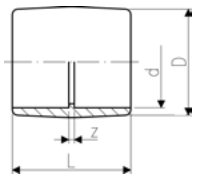


Socket ABS metric

- >d225 - maximum operating temperature: +40°C

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]	closest inch [inch]
20	16	**729 910 106**	0.007	26	35	3	½
25	16	**729 910 107**	0.012	32	41	3	¾
32	10	**729 910 108**	0.020	40	47	3	1
40	10	**729 910 109**	0.035	49	55	3	1 ¼
50	10	**729 910 110**	0.060	61	65	3	1 ½
63	10	**729 910 111**	0.110	76	79	3	2
75	10	**729 910 112**	0.145	87	92	4	2 ½
90	10	**729 910 113**	0.241	104	107	5	3
110	10	**729 910 114**	0.566	131	132	5	4
140	10	**729 910 116**	0.813	162	159	7	5
160	10	**729 910 117**	1.176	183	180	8	6
200	10	**729 910 119**	1.511	221	221	9	8
225	10	**729 910 120**	2.537	253	248	10	8
250	6	**729 910 121**	4.058	284	284	16	9
280	6	**729 910 122**	6.043	321	314	16	10
315	6	**729 910 123**	8.100	356	348	16	12





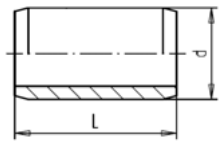
Adaptor socket ABS metric/Inch BS

Model:

- With BS Inch and metric solvent cement sockets

d [inch]	d [mm]	PN [bar]	Code	Weight [kg]	closest inch [inch]	z [mm]	L [mm]	D [mm]
½	20	10	**729 913 106**	0.010		5	38	27
¾	25	10	**729 913 107**	0.016		5	45	33
1	32	10	**729 913 108**	0.025		5	51	41
1 ¼	40	10	**729 913 109**	0.045		5	60	51
1 ½	50	10	**729 913 110**	0.070		4	65	59
2	63	10	**729 913 111**	0.130		5	79	75
2 ½	75	10	**729 910 112**	0.145	2 ½	4	92	87
3	90	10	**729 913 113**	0.365		6	108	104
4	110	10	**729 913 115**	0.630		7	135	134





Barrel nipple ABS metric

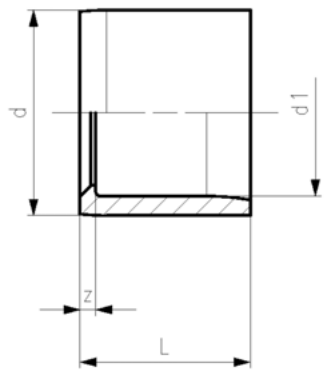
Model:

- For the shortest possible distance between fittings
- Overall length L = 2 x socket length
- With solvent cement spigots on both sides

PN [bar]	d [inch]	d [mm]	Code	Weight [kg]	closest inch [inch]	L [mm]
16		20	**729 900 906**	0.008	½	32
16		25	**729 900 907**	0.008	¾	38
10		32	**729 900 908**	0.007	1	44
10		40	**729 900 909**	0.016	1 ¼	52
10		50	**729 900 910**	0.032	1 ½	62
10		63	**729 900 911**	0.059	2	76
10	2 ½	75	**729 900 912**	0.095	2 ½	88
10		90	**729 900 913**	0.161	3	102
10		110	**729 900 914**	0.282	4	122







Reducing bush ABS metric

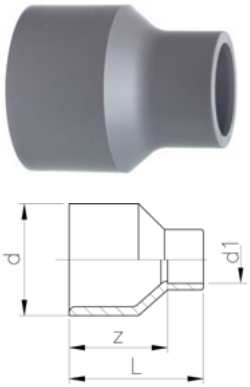
Model:

- With solvent cement spigot and socket metric

	d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
*	25	20	16	**729 900 337**	0.005	3	19
*	32	20	10	**729 900 342**	0.011	6	22
*	32	25	10	**729 900 341**	0.008	4	22
	40	20	10	**729 900 348**	0.016	10	26
	40	25	10	**729 900 347**	0.016	7	26
*	40	32	10	**729 900 346**	0.012	4	26
	50	20	10	**729 900 355**	0.026	15	31
	50	25	10	**729 900 354**	0.011	12	31
	50	32	10	**729 900 353**	0.035	9	31
*	50	40	10	**729 900 352**	0.022	5	31
	63	32	10	**729 900 360**	0.060	16	38
	63	40	10	**729 900 359**	0.051	12	38
*	63	50	10	**729 900 358**	0.043	7	36
	75	50	10	**729 900 365**	0.082	13	44
*	75	63	10	**729 900 364**	0.061	7	44
	90	50	10	**729 900 372**	0.143	20	51
	90	63	10	**729 900 371**	0.129	14	51
*	90	75	10	**729 900 370**	0.100	7	51
	110	63	10	**729 900 378**	0.231	24	61
*	110	90	10	**729 900 376**	0.196	10	61
*	125	110	10	**700 244 660**	0.356	8	69
*	140	110	10	**729 900 385**	0.459	15	76
	160	110	10	**729 900 390**	0.662	25	86
*	160	140	10	**729 900 388**	0.410	10	86
	200	160	10	**729 900 392**	0.820	20	106

table continued next page

	d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
	225	160	10	**729 900 396**	1.651	33	119
*	225	200	10	**729 900 181**	1.018	13	119
*	250	225	6	**729 900 303**	1.294	12	131
*	280	250	6	**729 900 306**	2.500	15	146
	315	280	6	**729 900 312**	2.852	17	164

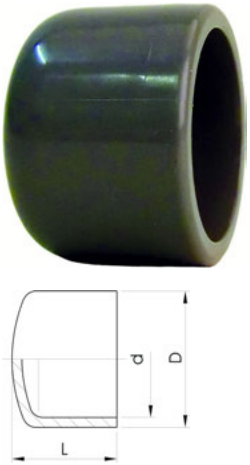


Reducing bush long ABS metric

Model:

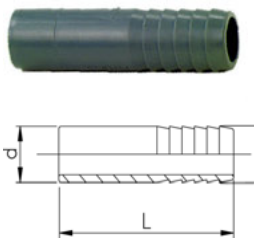
- With solvent cement spigot and socket metric

PN [bar]	d1 [mm]	d [mm]	Code	Weight [kg]	Closest inch [inch]	z [mm]	L [mm]
10	20	32	**729 910 342**	0.014	1 - ½	30	46
10	25	40	**729 910 347**	0.026	1 ¼ - ¾	36	55
10	25	50	**729 910 354**	0.038	1 ⅓ - ¾	44	63
10	32	63	**729 910 360**	0.077	2 - 1	54	76
10	40	75	**729 910 366**	0.115	2 ½ - 1 ¼	62	88
10	63	90	**729 910 371**	0.215	3 - 2	74	112



Cap ABS metric

d [mm]	PN [bar]	Code	Weight [kg]	closest inch [inch]	D [mm]	L [mm]
20	16	**729 960 106**	0.007	½	30	25
25	16	**729 960 107**	0.013	¾	37	30
32	10	**729 960 108**	0.019	1	44	34
40	10	**729 960 109**	0.034	1 ¼	55	41
50	10	**729 960 110**	0.046	1 ½	64	44
63	10	**729 960 111**	0.109	2	80	54
75	10	**729 960 112**	0.115	2 ½	87	65
90	10	**729 960 113**	0.218	3	112	77
110	10	**729 960 114**	0.499	4	145	101
140	10	**729 960 116**	0.880	5	163	114
160	10	**729 960 117**	1.140	6	188	130



Hose connector ABS metric

Model:

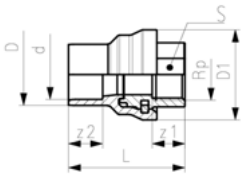
- With solvent cement spigot metric and parallel hose connection

d [mm]	PN [bar]	Code	Weight [kg]	closest inch [inch]	D [mm]	L [mm]
20	10	**729 960 406**	0.012	½	20	73
25	10	**729 960 407**	0.015	¾	25	79
32	10	**729 960 408**	0.027	1	30	89
40	10	**729 960 409**	0.026	1 ¼	40	100

Adaptor fittings

Adaptor fitting ABS/stainless steel Rp





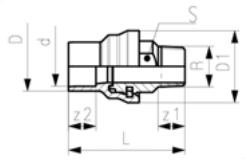
Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

D [mm]	Rp [inch]	d [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	S [mm]	z1 [mm]	L [mm]	z2 [mm]
25	½	20	10	**729 940 106**	0.094	40	25	17	55	17
32	¾	25	10	**729 940 107**	0.164	50	30	19	65	19
40	1	32	10	**729 940 108**	0.251	59	36	22	77	23

Adaptor fitting ABS/stainless steel R





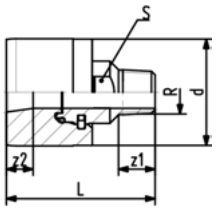
Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel with taper male thread R
- Gasket: O-ring EPDM

d [mm]	D [mm]	PN [bar]	R [inch]	Code	Weight [kg]	z2 [mm]	z1 [mm]	S [mm]	L [mm]	D1 [mm]
20	25	10	½	**729 940 606**	0.119	17	17	25	70	40
25	32	10	¾	**729 940 607**	0.209	19	19	30	83	50
32	40	10	1	**729 940 608**	0.319	23	22	36	96	59

Adaptor fitting ABS/stainless steel





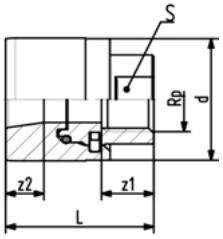
Model:

- Stainless steel WN 1.4404 (3162) with taper male thread R
- Gasket: O-ring EPDM

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**729 940 631**	0.476	17.0	12.4	63.2	25
50	½	10	**729 940 632**	0.535	17.0	12.5	69.2	25
50	¾	10	**729 940 633**	0.539	19.0	13.0	72.9	30
63	½	10	**729 940 634**	0.861	17.0	7.1	81.2	25
63	¾	10	**729 940 635**	0.869	19.0	13.0	84.9	30
63	1	10	**729 940 636**	0.878	22.0	18.9	89.7	36

Adaptor fitting ABS/stainless steel





Model:

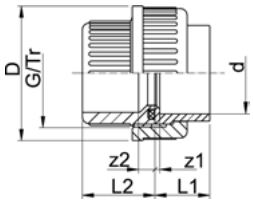
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**729 940 131**	0.356	17.0	12.4	48.2	25
50	½	10	**729 940 132**	0.443	17.0	12.5	54.2	25
50	¾	10	**729 940 133**	0.458	18.5	13.0	54.9	30
63	½	10	**729 940 134**	0.721	17.0	7.1	66.2	25
63	¾	10	**729 940 135**	0.732	18.5	13.0	66.9	30
63	1	10	**729 940 136**	0.746	21.5	18.9	70.7	36

COOL-FIT ABS unions

Unions





Union ABS metric

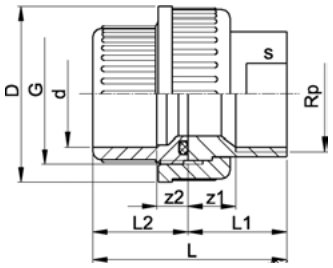
Model:

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 006-016

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	L1 [mm]	D [mm]	L2 [mm]	z1 [mm]	z2 [mm]	closest inch [inch]	G/Tr [inch]
20		10	**729 510 106**	0.035	21	43	26	4	10	½	1
25		10	**729 510 107**	0.044	24	53	29	5	10	¾	1 1/4
32		10	**729 510 108**	0.064	27	60	33	5	10	1	1 1/2
40		10	**729 510 109**	0.130	31	74	39	3	12	1 ¼	2
50		10	**729 510 110**	0.152	33	83	46	3	14	1 ½	2 1/4
63		10	**729 510 111**	0.258	40	103	58	3	18	2	2 3/4
75	2 ½	10	**729 510 112**	0.469	47	135	62	3	18	2 ½	Tr 108x5
90		10	**729 510 313**	0.701	56	158	69	5	18	3	Tr 128x5
110		10	**729 510 114**	1.069	66	158	72	5	11	4	Tr 154x5

Adaptor Unions





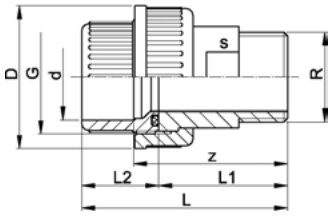
Adaptor union ABS/stainless steel metric Rp

Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

PN [bar]	Rp [inch]	d [mm]	EPDM Code	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
10	½	20	**729 540 206**	0.096	11	10	43	50	24	26	1	24
10	¾	25	**729 540 207**	0.154	11	10	51	55	26	29	1 1/4	29
10	1	32	**729 540 208**	0.212	12	10	58	61	29	33	1 1/2	36
10	1 ¼	40	**729 540 209**	0.356	14	12	74	71	33	39	2	45
10	1 ½	50	**729 540 210**	0.443	15	14	83	79	34	46	2 1/4	54
10	2	63	**729 540 211**	0.721	15	18	100	95	39	58	2 3/4	63





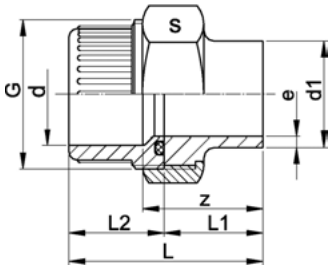
Adaptor union ABS/stainless steel metric R

Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

d [mm]	R [inch]	PN [bar]	EPDM Code	Weight [kg]	z [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
20	½	10	**729 540 706**	0.126	44	43	60	34	26	1	24
25	¾	10	**729 540 707**	0.174	46	51	65	36	29	11/4	32
32	1	10	**729 540 708**	0.262	50	58	72	40	33	11/2	37
40	1 ¼	10	**729 540 709**	0.476	58	74	84	46	39	2	48
50	1 ½	10	**729 540 710**	0.535	62	83	93	48	46	21/4	54
63	2	10	**729 540 711**	0.861	73	100	111	55	58	23/4	69





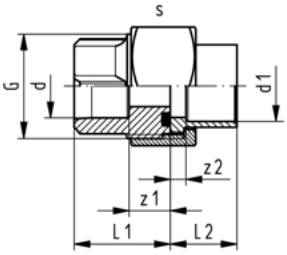
Adaptor union ABS/stainless steel metric Welding end

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 code no. 748 410 006-011

d1 [mm]	d [mm]	PN [bar]	EPDM Code	Weight [kg]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	G [inch]	s [mm]
21	20	10	**729 545 506**	0.176	32	48	22	26	2.0	1	41
27	25	10	**729 545 507**	0.204	33	52	23	29	2.0	1 1/4	46
34	32	10	**729 545 508**	0.313	36	58	26	33	2.0	1 1/2	55
42	40	10	**729 545 509**	0.493	38	64	26	39	2.0	2	68
48	50	10	**729 545 510**	0.566	42	73	28	46	2.0	2 1/4	74
60	63	10	**729 545 511**	0.902	50	88	32	58	2.6	2 3/4	88





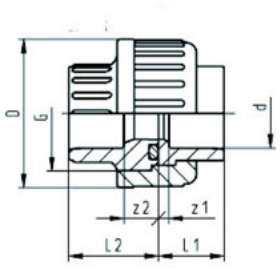
Adaptor union ABS/copper for soldering metric

Model:

- Union End: Copper
- Union Bush: Solvent cement socket ABS metric
- Union Nut: brass
- Gasket: O-ring EPDM code no. 748 410 006-011

PN [bar]	d1 [mm]	d [mm]	Code	Weight [kg]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]	G [inch]	s [mm]
10	22	20	**720 510 106**	0.140	26	19	9	3	1	40
10	28	25	**720 510 107**	0.269	29	28	9	6	1 1/4	50
10	35	32	**720 510 108**	0.198	33	27	10	5	1 1/2	52
10	42	40	**720 510 109**	0.350	39	35	12	6	2	66
10	54	50	**720 510 110**	0.438	46	46	14	3	2 1/4	72





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 code no. 748 410 006-011

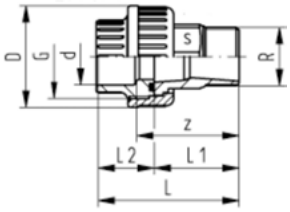
PN [bar]	Rp [inch]	d [mm]	Code	Weight [kg]	z1 [mm]	s [mm]	L2 [mm]	L [mm]	G [inch]	z2 [mm]	D [mm]	L1 [mm]
10	½	20	**729 550 506**	0.084	7	25	26	48	1	10	43	22
10	¾	25	**729 550 507**	0.134	9	30	29	54	1 1/4	11	51	25
10	1	32	**729 550 508**	0.179	8	36	33	60	1 1/2	11	58	27
10	1 ¼	40	**729 550 509**	0.327	10	48	39	70	2	13	72	31
10	1 ½	50	**729 550 510**	0.452	14	55	46	81	2 1/4	21	83	35
10	2	63	**729 550 511**	0.674	14	65	58	98	2 3/4	21	100	40



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 code no. 748 410 006-011

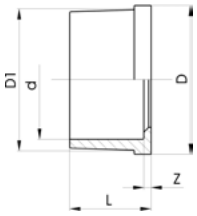


d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	s [mm]
20	½	10	**729 550 906**	0.123	43	63	37	26	47	1	25
25	½	10	**729 550 957**	0.185	51	66	37	29	48	1 1/4	30
25	¾	10	**729 550 907**	0.175	51	71	42	29	52	1 1/4	30
25	1	10	**729 550 967**	0.293	51	75	46	29	57	1 1/4	30
32	½	10	**729 550 958**	0.283	58	70	37	33	48	1 1/2	36
32	¾	10	**729 550 968**	0.283	58	75	42	33	53	1 1/2	36
32	1	10	**729 550 908**	0.374	58	79	46	33	57	1 1/2	36
40	1 ¼	10	**729 550 909**	0.503	72	91	52	39	65	2	46
50	1 ½	10	**729 550 910**	0.640	83	102	56	46	71	2 1/4	55
63	2	10	**729 550 911**	1.019	100	125	67	58	87	2 3/4	65

COOL-FIT ABS union spare parts

Union spare parts





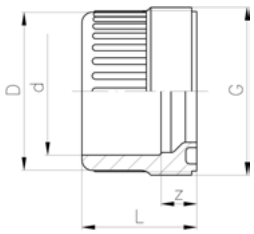
Union end ABS metric

Model:

- Solvent cement socket metric
- For union 729 510 106-114, 729 510 156-164

PN [bar]	d [mm]	Code	Weight [kg]	closest inch [inch]	z [mm]	L [mm]	D [mm]	D1 [mm]
10	20	**729 800 106**	0.007	½	4	21	30	28
10	25	**729 800 107**	0.012	¾	5	24	39	36
10	32	**729 800 108**	0.016	1	5	27	44	41
10	40	**729 800 109**	0.042	1 ¼	3	31	57	53
10	50	**729 800 110**	0.045	1 ½	3	34	63	59
10	63	**729 800 111**	0.084	2	3	41	78	74
10	75	**729 800 162**	0.109	2 ½	3	47	101	91
10	90	**729 800 163**	0.178	3	5	56	121	108
10	110	**729 800 164**	0.295	4	5	66	146	131





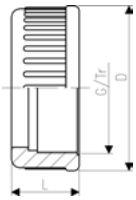
Union bush ABS metric

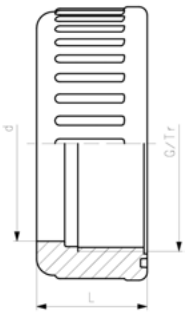
Model:

- Solvent cement socket metric
- For union 729 510 106-114
- Jointing face: with O-ring groove

d [mm]	PN [bar]	Code	Weight [kg]	closest inch [inch]	z [mm]	D [mm]	L [mm]	G/Tr [inch]
20	10	**729 840 106**	0.011	½	10	28	26	1
25	10	**729 840 107**	0.016	¾	10	33	29	1 1/4
32	10	**729 840 108**	0.027	1	10	41	33	1 1/2
40	10	**729 840 109**	0.046	1 ¼	12	50	39	2
50	10	**729 840 110**	0.058	1 ½	14	62	46	2 1/4
63	10	**729 840 111**	0.110	2	18	77	58	2 3/4
75	10	**729 840 112**	0.160	2 ½	18	93	62	Tr108x5
90	10	**729 840 123**	0.274	3	18	110	69	Tr128x5
110	10	**729 840 114**	0.330	4	11	133	72	Tr154x6







Union nut ABS

Model:

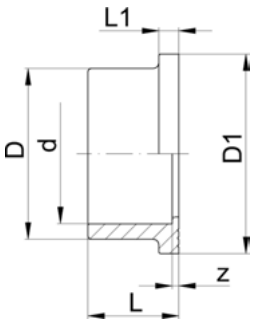
- For union 723 510 105-114

d [mm]	PN [bar]	Code	Weight [kg]	L [mm]	G/Tr [inch]	D [mm]	closest inch [inch]
16	10	**729 890 405**	0.009	21	3/4		⅜
20	10	**729 890 406**	0.048	23	1	28	½
25	10	**729 890 407**	0.046	25	1 1/4	36	¾
32	10	**729 890 408**	0.025	27	1 1/2	42	1
40	10	**729 890 409**	0.060	30	2	53	1 ¼
50	10	**729 890 410**	0.100	34	2 1/4	59	1 ½
63	10	**729 890 411**	0.147	38	2 3/4	74	2
75	10	**729 690 012**	0.192	40	Tr108x5	92	2 ½
90	10	**729 690 013**	0.269	43	Tr128x5	110	3
110	10	**729 690 014**	0.416	48	Tr154x6	133	4

COOL-FIT ABS flange adaptors

Flange adaptor





Flange adaptor ABS metric

Model:

- Counter part: same flange adaptor
- Gasket: profile flange gasket EPDM code no. 748 440 706-723, FPM code no. 749 440 706-723
- Gasket: flat gasket EPDM code no. 748 400 306-323
- Joining faces flat/serrated

- >d225 - maximum operating temperature: +40°C

Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039

	d [mm]	d [inch]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	closest inch [inch]
	20		15	10	**729 790 106**	0.007	27	34	21	6	3	½
	25		20	10	**729 790 107**	0.015	33	41	24	7	3	¾
	32		25	10	**729 790 108**	0.020	41	50	27	7	3	1
	40		32	10	**729 790 109**	0.028	50	61	30	8	3	1 ¼
	50		40	10	**729 790 110**	0.038	61	73	34	8	3	1 ½
	63		50	10	**729 790 111**	0.068	76	90	41	9	3	2
	75	2 ½	65	10	**729 790 112**	0.116	91	106	47	10	3	2 ½
	90		80	10	**729 790 113**	0.185	108	125	56	11	5	3
	110		100	10	**729 790 114**	0.305	131	150	66	12	5	4
	140	5	125	10	**729 790 116**	0.535	165	188	81	14	5	5
*	160		150	10	**729 790 117**	0.821	188	213	91	16	5	6
*	200		200	10	**729 790 119**	1.123	224	250	112	24	6	8
	225		200	10	**729 790 120**	1.330	248	274	125	25	6	8
	250		250	6	**729 790 121**	1.699	274	303	140	23	9	9
	280		250	6	**729 790 122**	2.183	307	329	151	23	5	10
	315		300	6	**729 790 123**	3.321	346	379	172	27	8	12

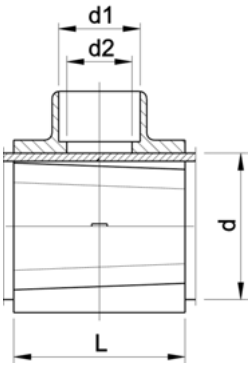
COOL-FIT ABS branch saddles



Branch saddle ABS metric

Model:

- For ABS-pipes
- Outlet with solvent cement socket metric
- PN10
- Top saddle (ABS) for solvent cementing
- Bottom part and wedges made from PVC-U



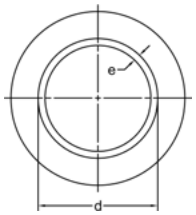
d [mm]	PN* [bar]	Code	Weight [kg]	d1 [mm]	d2 [mm]	Tapping-Ø [mm]	L [mm]
90	10	**169 110 056**	0.786	50	40	39	105
110	10	**169 110 066**	0.864	50	40	39	105
160	10	**169 110 097**	1.329	63	49	48	120
225	10	**169 110 117**	1.587	63	49	48	120

COOL-FIT Lite pipes



Pipes pre-insulated, COOL-FIT ABS metric (5 meters)

- Standard COOL-FIT ABS pipe with 1" thick flexible foam insulation.
- Color: Black insulation, pipe RAL 7001 gravel grey
- Length: Lengths of 16.4 feet (5 meters)
- Also available in 11/2" thick insulation. White insulation available, contact factory.



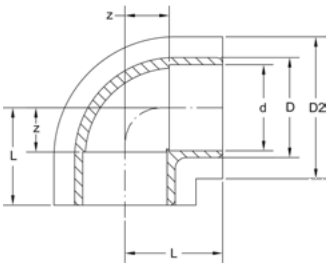
d [mm]	PN [bar]	Code	e [mm]	closest inch [inch]	Copper size [inch]	
25	16	**169 017 102**	2.30	¾	⅞	
32	10	**169 017 103**	2.70	1	1 ⅛	
40	10	**169 017 104**	3.80	1 ¼	1 ⅜	
50	10	**169 017 105**	3.00	1 ½	1 ⅝	
63	10	**169 017 106**	3.80	2	2 ⅛	
75	10	**169 017 107**	4.50	2 ½	2 ⅝	
90	10	**169 017 108**	5.40	3	3 ⅛	
110	10	**169 017 109**	6.60	4	4 ⅛	
160	10	**169 017 112**	9.90	6	6	

COOL-FIT Lite fittings

Elbow 90 pre-insulated, COOL-FIT ABS Lite metric



- Standard COOL-FIT ABS Elbow 90°, with 3/4" thick flexible foam insulation
- Color: Black insulation, fitting RAL 7001 gravel grey

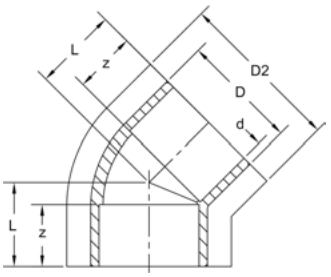


d [mm]	PSI [bar]	Code	Weight [kg]	closest inch [inch]	L [inch]	D2 [inch]	z [inch]	D [inch]
63	150	**738 102 111**	0.001	2	3	4	1	3
75	150	**738 102 112**	0.001	2 ½	3	5	2	4
90	150	**738 102 113**	0.001	3	4	5	2	4
110	150	**738 102 114**	0.900	4	5	6	2	5
160	150	**738 102 117**	2.500	6	7	8	3	7

Elbow 45 pre-insulated, COOL-FIT ABS Lite metric



- Standard COOL-FIT ABS Elbow 45°, with 3/4" thick flexible foam insulation
- Color: Black insulation, fitting RAL 7001 gravel grey

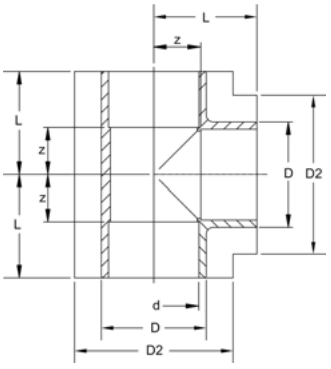


d [mm]	PSI [bar]	Code	Weight [kg]	D [inch]	D2 [inch]	closest inch [inch]	L [inch]	z [inch]
63	150	**738 152 111**	0.001	3	4	2	2	1
75	150	**738 152 112**	0.258	4	5	2 ½	2	1
90	150	**738 152 113**	0.001	4	6	3	3	1
110	150	**738 152 114**	0.700	5	7	4	4	1
160	150	**738 152 117**	1.900	7	9	6	5	1

Tee 90° pre-insulated, COOL-FIT ABS Lite metric



- Standard COOL-FIT ABS Tee 90°, with 3/4" thick flexible foam insulation
- Color: Black insulation, fitting RAL 7001 gravel grey

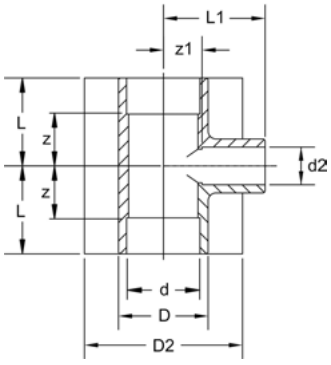


d [mm]	PSI [bar]	Code	Weight [kg]	closest inch [inch]	L [inch]	z [inch]	D [inch]	D2 [inch]
63	150	**738 202 111**	0.001	2	3	1	3	4
75	150	**738 202 112**	0.001	2 ½	3	2	4	5
90	150	**738 202 113**	0.001	3	4	2	4	6
110	150	**738 202 114**	0.001	4	5	2	5	7
160	150	**738 202 117**		6	7	3	8	9



Reducing Tee 90° pre-insulated, COOL-FIT ABS Lite metric

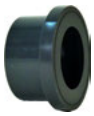
- Standard COOL-FIT ABS Reducing Tee 90°, with 1" thick flexible foam insulation
- Color: Black insulation, fitting RAL 7001 gravel grey



d [mm]	d2 [mm]	PSI [bar]	Code	Weight [kg]	z1 [inch]	D [inch]	D2 [inch]	L [inch]	z [inch]	L1 [inch]	Closest inch run-branch-run [inch]
63	25	150	**738 202 193**	0.020	1	3	5	3	1	2	2 - ¾ - 2
63	32	150	**738 202 178**	0.001	1	3	5	3	1	2	2 - 1 - 2
63	50	150	**738 202 170**	0.001	1	3	5	3	1	3	2 - 1 ½ - 2
75	40	150	**738 202 182**	0.001	2	4	5	3	2	3	2 ½ - 1 ¼ - 2 ½
90	32	150	**738 202 143**	0.001	2	4	6	4	2	4	3 - 1 - 3
90	63	150	**738 202 146**	0.001	2	4	6	4	2	4	3 - 2 - 3
110	32	150	**738 202 144**	0.500	3	5	7	5	2	4	4 - 1 - 4
110	50	150	**738 202 136**	0.900	3	5	7	5	2	4	4 - 1 ½ - 4
160	90	150	**738 202 158**	2.500	4	8	9	7	3	6	6 - 3 - 6

PVC-U metric

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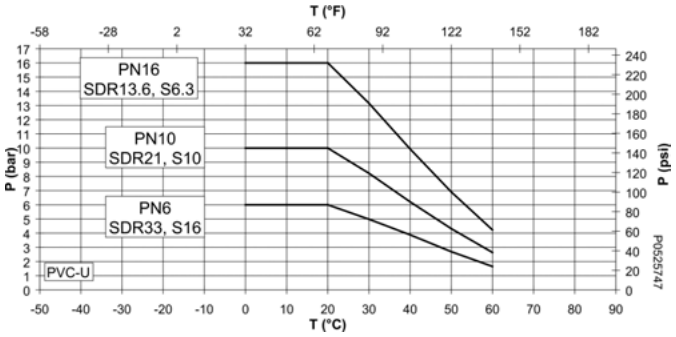
Pressure/temperature diagram for PVC-U

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

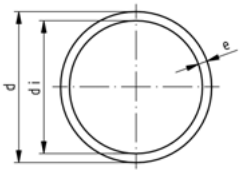
Attention: PVC-U solvent cement jointing fittings d200 to 280 from Georg Fischer are designed and testet to a nominal pressure of PN10. Sizes d315 to d400 are designed and testet to a nominal pressure of PN6.

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





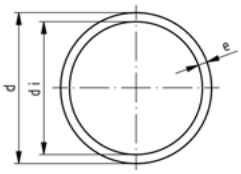
Pipe PVC-U grey
Series S10 SDR21 nominal pressure PN10

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

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
25	10	**161 017 082**	0.174	1.5	22.0
32	10	**161 017 083**	0.276	1.8	28.4
40	10	**161 017 084**	0.350	1.9	36.2
50	10	**161 017 085**	0.552	2.4	45.2
63	10	**161 017 086**	0.854	3.0	57.0
75	10	**161 017 087**	1.220	3.6	67.8
90	10	**161 017 088**	1.750	4.3	81.4
110	10	**161 017 089**	2.610	5.3	99.4
125	10	**161 017 090**	3.340	6.0	113.0
140	10	**161 017 091**	4.180	6.7	126.6
160	10	**161 017 092**	5.470	7.6	144.7
180	10	**161 017 093**	6.880	8.6	162.8
200	10	**161 017 094**	8.510	9.6	180.8
225	10	**161 017 095**	10.800	10.8	203.4
250	10	**161 017 096**	13.200	11.9	226.2
280	10	**161 017 097**	16.600	13.4	253.2
315	6	**161 017 098**	20.900	15.0	285.0





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

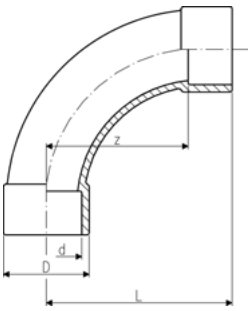
d [mm]	Size (NB) [inch]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
12		16	**161 017 104**	0.055	1.0	10.0
16		16	**161 017 105**	0.090	1.2	13.6
20		16	**161 017 106**	0.137	1.5	17.0
25		16	**161 017 107**	0.212	1.9	21.2
32		16	**161 017 108**	0.342	2.4	27.2
40		16	**161 017 109**	0.525	3.0	34.0
50		16	**161 017 110**	0.809	3.7	42.6
63		16	**161 017 111**	1.290	4.7	53.6
75	2 ½	16	**161 017 112**	1.820	5.6	58.2
90		16	**161 017 113**	2.610	6.7	76.6
110		16	**161 017 114**	3.856	8.1	93.8
125		16	**161 017 115**	4.956	9.2	106.6
140	5	16	**161 017 116**	6.215	10.3	119.4
160		16	**161 017 117**	8.109	11.8	136.4

Fittings

Pipe fittings for solvent cement jointing

Bend 90° PVC-U metric

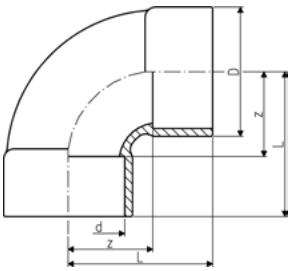




d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
20	16	**721 000 106**	0.029	40	27	56
25	16	**721 000 107**	0.049	50	33	69
32	16	**721 000 108**	0.074	64	38	86
40	16	**721 000 109**	0.121	80	47	106
50	16	**721 000 110**	0.298	100	61	131
63	16	**721 000 111**	0.516	126	76	164
75	16	**721 000 112**	0.798	150	90	194
90	16	**721 000 113**	1.373	180	108	231
110	16	**721 000 114**	2.699	220	137	281
140	16	**721 000 116**	5.204	280	168	356
160	16	**721 000 117**	8.298	320	192	406

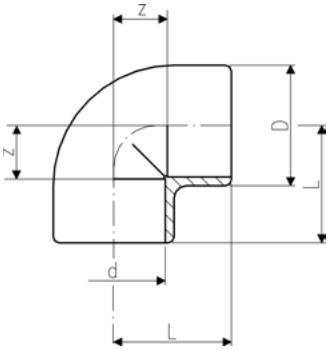
Bend 90° short pattern PVC-U metric





d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
225	10	**721 010 120**	7.554	168	256	287
280	10	**721 010 122**	16.987	210	318	357
315	6	**721 010 123**	21.567	237	356	402
400	6	**721 010 125**	30.000	300	442	521

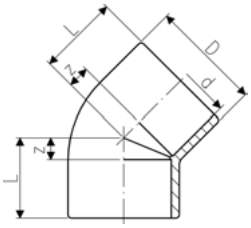




Elbow 90° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
6		16	**721 100 101**	0.004	4	11	16
8		16	**721 100 102**	0.004	5	13	17
10		16	**721 100 103**	0.004	6	14	18
12		16	**721 100 104**	0.006	7	17	19
16		16	**721 100 105**	0.007	9	21	23
20		16	**721 100 106**	0.012	11	25	27
25		16	**721 100 107**	0.024	14	32	33
32		16	**721 100 108**	0.043	17	40	39
40		16	**721 100 109**	0.062	23	47	49
50		16	**721 100 110**	0.106	26	59	57
63		16	**721 100 111**	0.205	33	73	71
75	2 ½	16	**721 100 112**	0.336	40	87	83
90		16	**721 100 113**	0.576	46	105	97
110		16	**721 100 114**	1.009	55	128	116
125		16	**721 100 115**	1.522	63	146	131
140	5	16	**721 100 116**	1.945	70	162	146
160		16	**721 100 117**	2.873	80	185	166
200		10	**721 100 119**	4.446	101	225	207
225		10	**721 100 120**	5.989	114	252	233
250		10	**721 100 121**	10.014	131	282	263

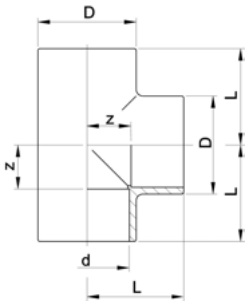




Elbow 45° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16		16	**721 150 105**	0.008	5	21	19
20		16	**721 150 106**	0.011	5	25	21
25		16	**721 150 107**	0.017	6	31	25
32		16	**721 150 108**	0.021	8	38	30
40		16	**721 150 109**	0.048	10	47	36
50		16	**721 150 110**	0.086	12	59	43
63		16	**721 150 111**	0.160	14	73	52
75	2 ½	16	**721 150 112**	0.253	17	87	61
90		16	**721 150 113**	0.430	20	105	71
110		16	**721 150 114**	0.750	25	127	86
125		16	**721 150 115**	1.193	28	146	97
140	5	16	**721 150 116**	1.570	32	162	108
160		16	**721 150 117**	2.280	36	185	122
200		10	**721 150 119**	3.288	43	225	149
225		10	**721 150 120**	4.191	49	250	168
250		10	**721 150 121**	7.115	60	282	192
280		10	**721 150 122**	10.340	66	318	213
315		6	**721 150 123**	14.292	74	356	239
400		6	**721 150 125**	25.268	94	442	302

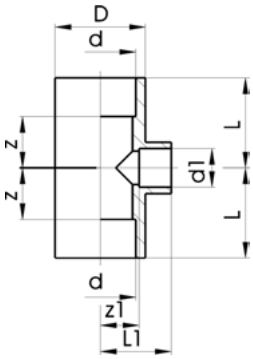




Tee 90° equal PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
6		16	**721 200 101**	0.004	11	16	4
8		16	**721 200 102**	0.008	13	17	5
10		16	**721 200 103**	0.008	16	18	6
12		16	**721 200 104**	0.011	19	19	7
16		16	**721 200 105**	0.011	21	23	9
20		16	**721 200 106**	0.019	25	27	11
25		16	**721 200 107**	0.029	31	33	14
32		16	**721 200 108**	0.055	38	39	17
40		16	**721 200 109**	0.100	48	49	23
50		16	**721 200 110**	0.156	58	57	26
63		16	**721 200 111**	0.291	73	71	33
75	2 ½	16	**721 200 112**	0.476	87	83	39
90		16	**721 200 113**	0.824	105	97	46
110		16	**721 200 114**	1.411	127	116	55
125		16	**721 200 115**	2.521	151	135	66
140	5	16	**721 200 116**	3.410	169	147	71
160		16	**721 200 117**	4.982	193	167	81
200		10	**721 200 119**	5.868	225	207	101
225		10	**721 200 120**	9.268	256	233	114
250		10	**721 200 121**	14.350	282	263	132
280		10	**721 200 122**	19.541	318	298	152
315		6	**721 200 123**	27.254	356	332	168
400		6	**721 200 125**	35.000	442	420	214

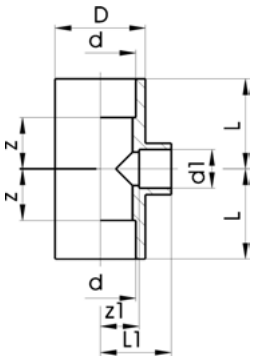




Tee 90° reducing PVC-U metric

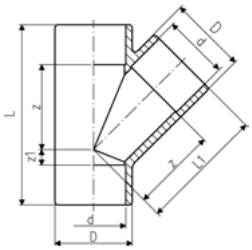
d [mm]	d1 [mm]	PN [bar]	d-d [inch]	Code	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
25	20	16		**721 200 134**	0.038	14	14	33	33	30
32	20	16		**721 200 141**	0.061	17	17	41	39	33
32	25	16		**721 200 138**	0.063	17	17	41	39	36
40	20	16		**721 200 155**	0.103	23	23	50	49	39
40	25	16		**721 200 151**	0.107	23	23	50	49	42
40	32	16		**721 200 147**	0.109	23	23	50	49	45
50	20	16		**721 200 009**	0.179	28	28	62	59	44
50	25	16		**721 200 010**	0.183	28	28	62	59	47
50	32	16		**721 200 164**	0.189	28	28	62	59	50
50	40	16		**721 200 161**	0.208	28	28	62	59	54
63	25	16		**721 200 011**	0.332	35	34	77	73	53
63	32	16		**721 200 178**	0.336	35	34	77	73	56
63	40	16		**721 200 174**	0.347	35	34	77	73	60
63	50	16		**721 200 170**	0.354	35	34	77	73	65
75	32	16		**721 200 181**	0.535	40	41	92	84	63
75	40	16		**721 200 182**	0.555	40	41	92	84	67
75	50	16		**721 200 183**	0.541	40	41	92	84	72
75	63	16		**721 200 184**	0.570	40	41	92	84	79
90	32	16		**721 200 142**	0.855	46	55	110	97	77
90	50	16		**721 200 144**	0.907	46	55	110	97	86
90	63	16		**721 200 145**	0.931	46	55	110	97	93
90	75	16		**721 200 146**	0.959	46	55	110	97	99
110	32	16		**721 200 135**	1.441	56	67	133	117	89
110	50	16		**721 200 136**	1.471	56	67	133	117	98
110	63	16		**721 200 132**	1.522	56	65	133	117	103
110	75	16		**721 200 133**	1.543	56	65	133	117	109
110	90	16		**721 200 137**	1.634	56	65	133	117	116
125	50	16		**721 200 139**	1.970	64	75	151	133	106
125	90	16		**721 200 140**	2.200	64	75	151	133	126
140	50	16		**721 200 148**	3.235	72	82	172	148	113
140	75	16	5 - 2 ½	**721 200 149**	3.319	72	78	172	148	122
140	110	16		**721 200 150**	3.422	72	74	172	148	135
160	110	16		**721 200 152**	4.305	81	81	192	167	142
200	110	10		**721 200 153**	8.782	107	131	232	213	192
200	160	10		**721 200 154**	8.036	107	106	232	213	192
225	110	10		**721 200 156**	10.619	120	143	257	239	204

table continued next page



d [mm]	d1 [mm]	PN [bar]	d-d [inch]	Code	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
225	160	10		**721 200 157**	9.760	120	119	257	239	205
250	160	10		**721 200 159**	14.520	132	151	282	263	237
250	200	10		**721 200 162**	12.213	132	131	282	263	237
280	160	10		**721 200 165**	18.402	120	180	318	266	266
280	225	10		**721 200 167**	16.145	120	148	318	266	268
315	160	6		**721 200 169**	22.189	120	197	356	284	283
315	225	6		**721 200 172**	20.154	120	165	356	284	284
400	225	6		**721 200 176**	40.000	163	258	442	369	377
400	315	6		**721 200 180**	35.000	163	213	442	369	377

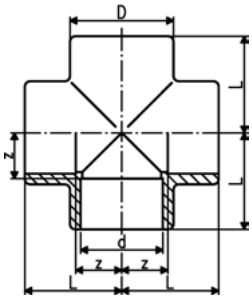




Tee 45° PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
10		10	**721 250 103**	0.013	18	4	16	46	30
12		10	**721 250 104**	0.014	21	4	18	49	33
16		10	**721 250 105**	0.022	25	5	23	58	39
20		10	**721 250 106**	0.035	30	6	28	68	46
25		10	**721 250 107**	0.056	36	9	33	83	55
32		10	**721 250 108**	0.096	45	10	41	99	67
40		10	**721 250 109**	0.159	56	10	50	118	82
50		10	**721 250 110**	0.265	66	12	60	140	97
63		10	**721 250 111**	0.439	85	14	74	175	123
75	2 ½	6	**721 250 112**	0.816	101	18	91	207	145
90		6	**721 250 113**	1.275	122	20	107	245	173
110		6	**721 250 114**	2.579	149	27	134	298	210
125		6	**721 250 115**	3.616	167	30	147	335	236
140	5	6	**721 250 116**	5.628	190	34	168	376	266
160		6	**721 250 117**	7.187	213	41	190	428	300
200		6	**721 250 119**	12.314	265	48	232	527	372
225		6	**721 250 120**	15.735	296	54	260	590	416
250		6	**721 250 121**	20.350	330	60	286	654	462

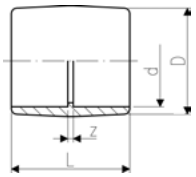




Cross PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
10		16	**721 300 103**	0.009	16	19	7
12		16	**721 300 104**	0.010	18	20	8
16		16	**721 300 105**	0.020	23	24	10
20		16	**721 300 106**	0.036	29	27	11
25		16	**721 300 107**	0.054	35	33	14
32		16	**721 300 108**	0.092	43	39	17
40		16	**721 300 109**	0.155	52	49	23
50		16	**721 300 110**	0.259	63	59	28
63		16	**721 300 111**	0.482	79	72	34
75	2 ½	10	**721 300 112**	0.725	92	83	40
90		10	**721 300 113**	1.221	106	97	48
110		10	**721 300 114**	2.111	128	117	59

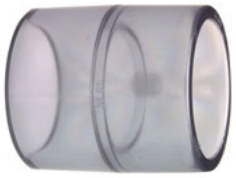


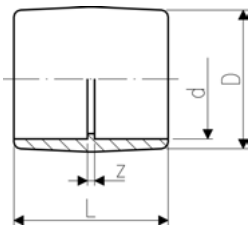


Socket equal PVC-U metric

[1] Socket d355 and d400 fabricated from pipe

	d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
	6		16	**721 910 101**	0.004	3	12	27
	8		16	**721 910 102**	0.005	3	14	27
	10		16	**721 910 103**	0.004	3	16	27
	12		16	**721 910 104**	0.004	3	19	27
	16		16	**721 910 105**	0.006	3	22	31
	20		16	**721 910 106**	0.011	3	26	35
	25		16	**721 910 107**	0.015	3	32	41
	32		16	**721 910 108**	0.026	3	39	47
	40		16	**721 910 109**	0.045	3	48	55
	50		16	**721 910 110**	0.064	3	58	65
	63		16	**721 910 111**	0.118	3	73	79
	75	2 ½	16	**721 910 112**	0.188	4	87	92
	90		16	**721 910 113**	0.328	5	105	107
	110		16	**721 910 114**	0.554	6	128	128
	125		16	**721 910 115**	0.825	7	142	145
	140	5	16	**721 910 116**	1.118	7	162	159
	160		16	**721 910 117**	1.540	8	183	180
	200		10	**721 910 119**	2.559	9	221	221
	225		10	**721 910 120**	3.519	10	253	248
	250		10	**721 910 121**	5.394	16	284	284
	280		10	**721 910 122**	8.312	16	321	314
	315		6	**721 910 123**	10.388	16	356	348
1	355		6	**721 910 124**	10.706	68	377	454
1	400		6	**721 910 125**	11.326	73	425	505

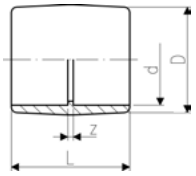




Socket equal PVC-U transparent metric

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	16	**752 910 105**	0.009	3	23	31
20	16	**752 910 106**	0.012	3	27	35
25	16	**752 910 107**	0.016	3	32	41
32	16	**752 910 108**	0.027	3	40	47
40	16	**752 910 109**	0.061	3	52	55
50	16	**752 910 110**	0.068	3	60	65
63	16	**752 910 111**	0.115	3	75	79





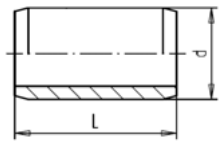
Adaptor socket PVC-U metric Inch/BS

Model:

- With solvent cement sockets metric and BS inch

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	⅜	16	**721 913 105**	0.010	5	23	35
20	½	16	**721 913 106**	0.012	5	27	38
25	¾	16	**721 913 107**	0.020	5	33	45
32	1	16	**721 913 108**	0.031	5	41	51
40	1 ¼	16	**721 913 109**	0.054	5	51	60
50	1 ½	16	**721 913 110**	0.074	4	59	65
63	2	16	**721 913 111**	0.155	5	75	79
90	3	16	**721 913 113**	0.340	6	104	108
110	4	16	**721 913 115**	0.488	4	128	128





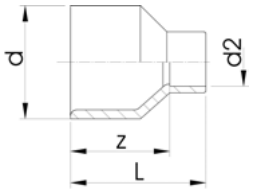
Barrel nipple PVC-U metric

Model:

- With solvent cement spigots on both sides
- Overall length L = 2 x socket length
- For the shortest possible distance between fittings

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	L [mm]
16		16	**721 900 905**	0.002	28
20		16	**721 900 906**	0.005	32
25		16	**721 900 907**	0.009	38
32		16	**721 900 908**	0.015	44
40		16	**721 900 909**	0.027	52
50		16	**721 900 910**	0.048	62
63		16	**721 900 911**	0.092	76
75	2 ½	16	**721 900 912**	0.156	88
90		16	**721 900 913**	0.260	102
110		16	**721 900 914**	0.455	122
125		16	**721 900 915**	0.673	138
140	5	16	**721 900 916**	0.932	152
160		16	**721 900 917**	1.565	192
200		10	**721 900 919**	1.779	212
225		10	**721 900 920**	2.566	238





Reducing bush long PVC-U metric

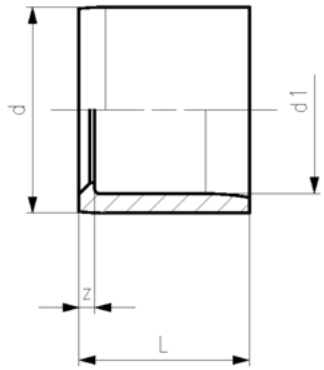
Model:

- With solvent cement spigot and socket metric

d [mm]	d2 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
8	6	16	**721 910 323**	0.003	15	27
10	6	16	**721 910 326**	0.003	15	27
10	8	16	**721 910 325**	0.003	15	27
20	16	16	**721 910 334**	0.009	21	35
25	20	16	**721 910 337**	0.014	25	41
32	25	16	**721 910 341**	0.024	30	49
40	32	16	**721 910 346**	0.044	36	58
50	40	16	**721 910 352**	0.074	44	70
63	50	16	**721 910 358**	0.148	54	85
75	63	16	**721 910 364**	0.211	62	100
90	75	16	**721 910 370**	0.335	74	118
140	110	16	**721 910 385**	0.808	111	172







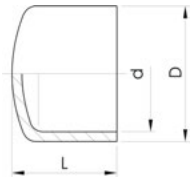
Reducing bush short PVC-U metric

Model:

- With solvent cement spigot and socket metric

	d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
*	12	8	16	**721 900 329**	0.002	2	14
*	16	12	16	**721 900 331**	0.002	2	14
*	20	16	16	**721 900 334**	0.002	2	16
*	25	20	16	**721 900 337**	0.004	3	19
*	32	20	16	**721 900 342**	0.014	6	22
*	32	25	16	**721 900 341**	0.009	3	22
	40	20	16	**721 900 348**	0.021	10	26
	40	25	16	**721 900 347**	0.021	7	26
*	40	32	16	**721 900 346**	0.016	4	26
	50	20	16	**721 900 355**	0.037	15	31
	50	25	16	**721 900 354**	0.034	12	31
	50	32	16	**721 900 353**	0.036	9	31
*	50	40	16	**721 900 352**	0.030	5	31
	63	32	16	**721 900 360**	0.064	16	38
	63	40	16	**721 900 359**	0.067	12	38
*	63	50	16	**721 900 358**	0.058	7	38
	75	50	16	**721 900 365**	0.109	13	44
*	75	63	16	**721 900 364**	0.078	6	44
	90	50	16	**721 900 372**	0.181	20	51
	90	63	16	**721 900 371**	0.183	13	51
*	90	75	16	**721 900 370**	0.135	7	51
	110	50	16	**721 900 379**	0.316	30	61
	110	63	16	**721 900 378**	0.308	23	61
	110	75	16	**721 900 377**	0.295	17	61
*	110	90	16	**721 900 376**	0.259	10	61
	125	90	16	**721 900 381**	0.465	18	69
*	125	110	16	**721 900 380**	0.267	8	69
	140	90	16	**721 900 386**	0.562	25	76
*	140	110	16	**721 900 385**	0.605	15	76
*	140	125	16	**721 900 384**	0.331	7	76
	160	90	16	**721 900 391**	0.751	35	86
	160	110	16	**721 900 390**	0.883	25	86
*	160	140	16	**721 900 388**	0.551	10	86
	200	110	10	**721 900 393**	1.985	45	108
	200	125	10	**721 900 325**	2.024	37	108
	200	140	10	**721 900 394**	1.928	29	108
*	200	160	10	**721 900 392**	1.085	20	108
	225	110	10	**721 900 397**	2.544	57	120
	225	125	10	**721 900 399**	2.563	49	120
	225	140	10	**721 900 398**	2.609	41	120
	225	160	10	**721 900 396**	2.199	31	119
*	225	200	10	**721 900 181**	1.360	13	119
	250	125	10	**721 900 326**	3.150	11	133
	250	140	10	**721 900 300**	3.200	54	133
	250	160	10	**721 900 301**	3.390	44	133
*	250	200	10	**721 900 302**	3.198	24	133
*	250	225	10	**721 900 303**	1.686	11	133
	280	140	10	**721 900 307**	4.157	69	148
	280	160	10	**721 900 308**	4.170	60	148
	280	200	10	**721 900 304**	4.577	39	148
*	280	225	10	**721 900 305**	4.409	27	146
*	280	250	10	**721 900 306**	2.515	14	148
	315	160	6	**721 900 313**	5.188	77	166
	315	200	6	**721 900 309**	5.480	57	166
	315	225	6	**721 900 310**	6.035	44	166
*	315	250	6	**721 900 311**	6.481	32	166
*	315	280	6	**721 900 312**	4.055	28	167
	355	315	6	**721 900 315**	5.792	23	206
	400	250	6	**721 900 319**	11.528	60	206
	400	280	6	**721 900 320**	11.366	60	206
*	400	315	6	**721 900 321**	13.006	42	206
*	400	355	6	**721 900 322**	7.524	22	206



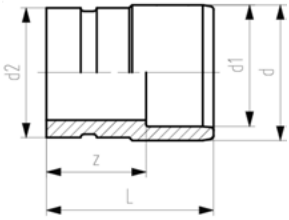


Cap PVC-U metric

d [mm]	d [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
12		16	**721 960 104**	0.004	19	15
16		16	**721 960 105**	0.005	23	21
20		16	**721 960 106**	0.008	27	24
25		16	**721 960 107**	0.013	33	28
32		16	**721 960 108**	0.020	40	32
40		16	**721 960 109**	0.029	47	38
50		16	**721 960 110**	0.051	59	45
63		16	**721 960 111**	0.095	74	56
75	2 ½	16	**721 960 112**	0.152	87	65
90		16	**721 960 113**	0.269	105	77
110		16	**721 960 114**	0.457	128	94
140	5	10	**721 960 116**	1.036	164	92
160		10	**721 960 117**	1.534	188	130
200		10	**721 960 119**	2.614	230	170
225		10	**721 960 120**	3.320	257	185
280		10	**721 960 122**	6.200	318	230
315		6	**721 960 123**	8.500	356	255

Adaptor fittings





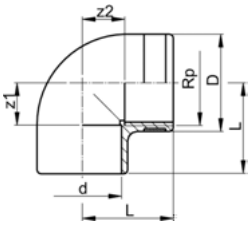
Adaptor fitting PVC-U metric - Victaulic

Model:

- With solvent cement spigot and socket metric
- For metal couplings (type Victaulic)

d [mm]	d1 [mm]	d2 [inch]	PN [bar]	Code	Weight [kg]	L [mm]	z [mm]
50	40	1 ½	10	**721 910 090**	0.150	71	45
63	50	2	10	**721 910 091**	0.200	78	47
75	63	2 ½	10	**721 910 092**	0.250	84	46





Elbow 90° PVC-U metric Rp

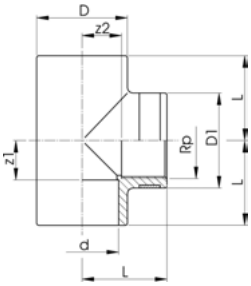
Model:

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

as long as stocks last

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L [mm]
12	¼	16	**721 100 204**	0.010	7	7	20	19
16	⅜	16	**721 100 205**	0.015	9	9	25	23
20	½	16	**721 100 206**	0.023	13	11	30	27
25	¾	16	**721 100 207**	0.035	16	15	35	33
32	1	16	**721 100 208**	0.060	19	19	45	39
40	1 ¼	16	**721 100 209**	0.122	23	27	55	50
50	1 ½	16	**721 100 210**	0.187	27	36	62	58
63	2	16	**721 100 211**	0.324	33	46	75	73





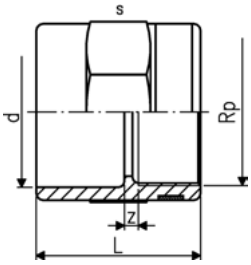
Tee 90° PVC-U metric Rp

Model:

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

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	L [mm]
12	¼	16	**721 200 204**	0.015	7	7	17	20	19
16	⅜	16	**721 200 205**	0.027	9	9	21	25	23
20	½	16	**721 200 206**	0.029	11	13	26	30	29
25	¾	16	**721 200 207**	0.043	14	15	32	35	33
32	1	16	**721 200 208**	0.080	17	19	40	45	39
40	1 ¼	16	**721 200 209**	0.134	23	26	47	55	49
50	1 ½	16	**721 200 210**	0.212	27	36	59	59	59
63	2	16	**721 200 211**	0.379	33	46	74	75	71





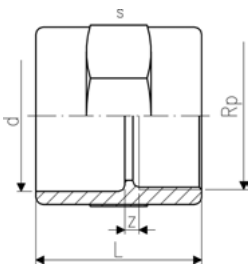
Adaptor socket PVC-U metric Rp

Model:

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

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
12	¼	16	**721 910 204**	0.010	4	27	22
16	⅜	16	**721 910 205**	0.016	5	31	27
20	½	16	**721 910 206**	0.025	5	36	32
25	¾	16	**721 910 207**	0.032	5	40	36
32	1	16	**721 910 208**	0.057	5	45	46
40	1 ¼	16	**721 910 209**	0.087	5	51	55
50	1 ½	16	**721 910 210**	0.126	7	59	65
63	2	16	**721 910 211**	0.206	7	69	80





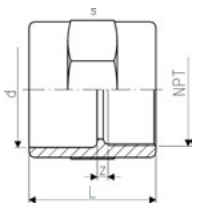
Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
75	2 ½	10	**721 916 012**	0.220	7	82	90
90	3	10	**721 916 013**	0.365	9	94	110
110	4	10	**721 916 014**	0.536	9	110	130





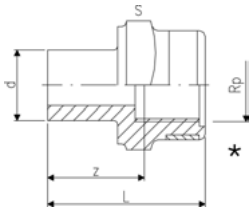
Adaptor socket PVC-U metric NPT

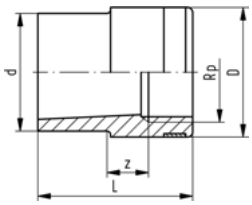
Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	NPT [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
20	½	10	**721 914 206**	0.021	5	35	32
25	¾	10	**721 914 207**	0.028	6	40	36
32	1	10	**721 914 208**	0.049	6	45	46
40	1 ¼	10	**721 914 209**	0.076	6	51	55
50	1 ½	10	**721 914 210**	0.110	10	59	65
63	2	10	**721 914 211**	0.175	10	69	80







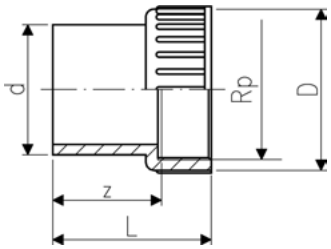
Reducing bush PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

	d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]	s [mm]
*	12	¼	16	**721 910 404**	0.008	0	20	27	22
	20	⅜	16	**721 910 434**	0.014	7	25	35	
	25	½	16	**721 910 437**	0.021	7	30	41	
	32	¾	16	**721 910 441**	0.032	15	35	48	
	40	1	16	**721 910 446**	0.058	20	45	56	
	50	1 ¼	16	**721 910 452**	0.097	20	55	66	
	63	1 ½	16	**721 910 458**	0.151	10	62	77	





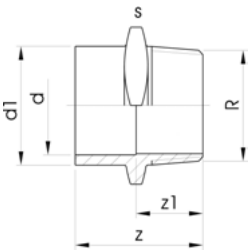
Adaptor bush equal PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
20	½	10	**721 900 406**	0.012	22	28	37
25	¾	10	**721 900 407**	0.018	25	34	41
32	1	10	**721 900 408**	0.035	29	42	48
40	1 ¼	10	**721 900 409**	0.063	34	52	56
50	1 ½	10	**721 900 410**	0.097	40	62	61
63	2	10	**721 900 411**	0.170	49	77	74





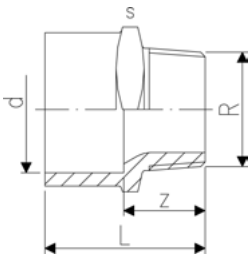
Adaptor socket nipple PVC-U metric R

Model:

- With solvent cement spigot/socket reducing metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	d1 [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	s [mm]
12	16	⅜	16	**721 910 555**	0.010	35	23	27
16	20	½	16	**721 910 556**	0.016	42	28	32
20	25	¾	16	**721 910 557**	0.023	47	31	36
25	32	1	16	**721 910 558**	0.040	54	35	46
32	40	1 ¼	16	**721 910 559**	0.061	60	38	55
40	50	1 ½	16	**721 910 560**	0.094	66	40	65
50	63	2	16	**721 910 561**	0.164	78	47	80





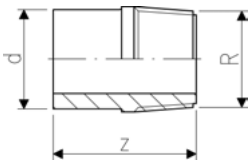
Adaptor bush equal PVC-U metric R

Model:

- With solvent cement socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [inch]	R [inch]	d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
⅜	⅜	16	16	**721 910 705**	0.011	20	34	27
½	½	20	16	**721 910 706**	0.018	24	40	32
¾	¾	25	16	**721 910 707**	0.025	25	44	36
1	1	32	16	**721 910 708**	0.039	28	50	46
1 ¼	1 ¼	40	16	**721 910 709**	0.061	31	57	55
1 ½	1 ½	50	16	**721 910 710**	0.092	32	63	65
2	2	63	16	**721 910 711**	0.161	38	76	80
2 ½	2 ½	75	10	**721 910 712**	0.227	42	86	90
3	3	90	10	**721 910 713**	0.389	46	97	110
4	4	110	10	**721 910 714**	0.572	53	114	130





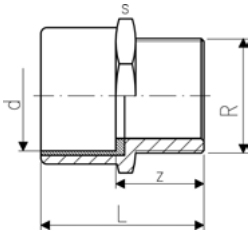
Adaptor nipple PVC-U metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z [mm]
16	⅜	10	**721 913 505**	0.006	31
20	½	10	**721 913 506**	0.010	35
25	¾	10	**721 913 507**	0.017	40
32	1	10	**721 913 508**	0.026	46





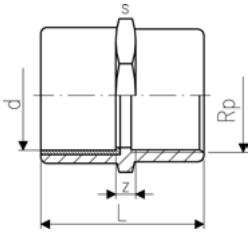
Adaptor socket brass/PVC-U metric R

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 [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
40	1 ¼	16	**720 910 709**	0.437	36	64	58
50	1 ½	16	**720 910 710**	0.671	38	72	70
63	2	16	**720 910 711**	1.035	43	84	85



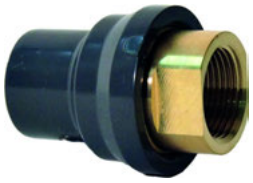


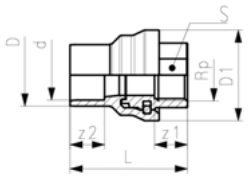
Adaptor socket brass/PVC-U metric Rp

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 [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
40	1 ¼	16	**720 910 209**	0.482	17	66	58
50	1 ½	16	**720 910 210**	0.737	19	74	70
63	2	16	**720 910 211**	1.130	19	86	83





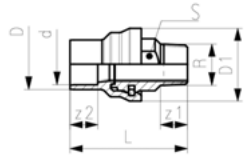
Adaptor Fitting PVC-U/brass Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with parallel female thread Rp
- Gasket: O-ring EPDM

d [mm]	D [mm]	PN [bar]	Rp [inch]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D1 [mm]	L [mm]	S [mm]
20	25	16	½	**721 950 106**	0.098	17.0	16.5	40	54.5	25
25	32	16	¾	**721 950 107**	0.181	18.5	19.0	50	65.2	30
32	40	16	1	**721 950 108**	0.270	21.5	22.5	59	76.5	36





Adaptor Fitting PVC-U/brass R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with taper male thread R
- Gasket: O-ring EPDM

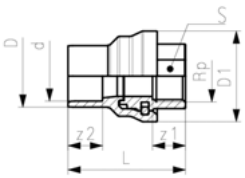
d [mm]	D [mm]	PN [bar]	R [inch]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D1 [mm]	L [mm]	S [mm]
20	25	16	½	**721 950 606**	0.129	17	17	40	70	25
25	32	16	¾	**721 950 607**	0.232	19	19	50	83	30
32	40	16	1	**721 950 608**	0.390	22	23	59	96	36



Adaptor Fitting PVC-U/stainless steel Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM



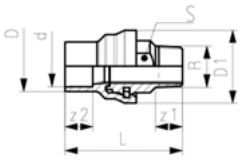
d [mm]	D [mm]	PN [bar]	Rp [inch]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D1 [mm]	L [mm]	S [mm]
20	25	16	½	**721 940 106**	0.095	17	17	40	70	25
25	32	16	¾	**721 940 107**	0.171	19	19	50	83	30
32	40	16	1	**721 940 108**	0.262	22	23	59	96	36



Adaptor Fitting PVC-U/stainless steel R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel with taper male thread R
- Gasket: O-ring EPDM



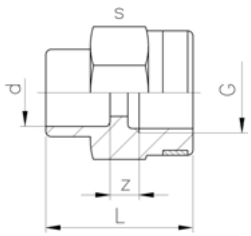
PN [bar]	D [mm]	R [inch]	d [mm]	Code	Weight [kg]	D1 [mm]	S [mm]	z2 [mm]	z1 [mm]	L [mm]
16	25	½	20	**721 940 606**	0.120	40	25	17	17	70
16	32	¾	25	**721 940 607**	0.213	50	30	19	19	83
16	40	1	32	**721 940 608**	0.320	59	36	23	22	96



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



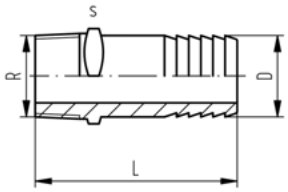
d [mm]	G [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
12	¼	16	**721 916 204**	0.010	4	27	22
16	½	16	**721 916 206**	0.026	7	36	32



Hose connector PVC-U R

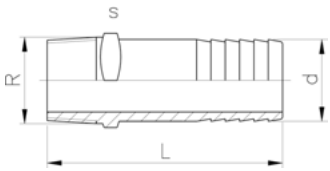
Model:

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U



R [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	s [mm]
¼	10	**721 960 704**	0.003	12	59	14
⅜	10	**721 960 705**	0.006	16	67	19
½	10	**721 960 706**	0.019	20	86	22
¾	10	**721 960 707**	0.026	25	92	27
1	10	**721 960 708**	0.048	30	103	36
1 ¼	10	**721 960 709**	0.079	40	115	46





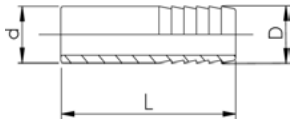
Hose connector PVC-U R reduced

Model:

- With taper male thread R
- With parallel hose connector
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

R [inch]	Code	Weight [kg]	s [mm]	d [mm]	L [mm]
½	**721 961 706**	0.012	22	14	70
¾	**721 961 707**	0.021	27	20	80
1	**721 961 708**	0.042	36	27	90





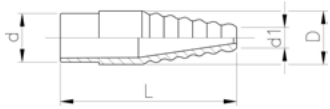
Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and parallel hose connection

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
10	16	**721 960 403**	0.002	8	47
12	16	**721 960 404**	0.003	12	51
16	16	**721 960 405**	0.008	16	57
20	16	**721 960 406**	0.016	20	73
25	16	**721 960 407**	0.021	25	79
32	16	**721 960 408**	0.035	30	89
40	16	**721 960 409**	0.060	40	100
50	16	**721 960 410**	0.112	50	105
63	16	**721 960 411**	0.180	60	120



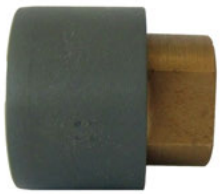


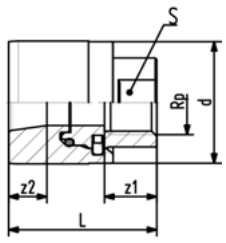
Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and tapered hose connection

d [mm]	PN [bar]	Code	Weight [kg]	d1 [mm]	D [mm]	L [mm]
10	16	**721 960 303**	0.004	6	12	51
12	16	**721 960 304**	0.004	6	12	51
16	16	**721 960 305**	0.007	8	16	57
20	16	**721 960 306**	0.016	11	22	73





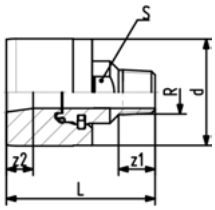
Adaptor fitting PVC-U/brass

Model:

- Brass with parallel female thread Rp
- Gasket: O-ring EPDM

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**721 950 131**	0.279	17.0	12.4	48.2	25
50	½	10	**721 950 132**	0.355	17.0	12.5	54.2	25
50	¾	10	**721 950 133**	0.362	18.5	13.0	54.9	30
63	½	10	**721 950 134**	0.526	17.0	7.1	66.2	25
63	¾	10	**721 950 135**	0.531	18.5	13.0	66.9	30
63	1	10	**721 950 136**	0.542	21.5	18.9	70.7	36





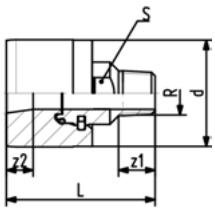
Adaptor fitting PVC-U/brass

Model:

- Brass with taper male thread R
- Gasket: O-ring EPDM

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**721 950 631**	0.352	17.0	12.4	63.2	25
50	½	10	**721 950 632**	0.438	17.0	12.5	69.2	25
50	¾	10	**721 950 633**	0.442	18.5	13.0	72.9	30
63	½	10	**721 950 634**	0.498	17.0	7.1	81.2	25
63	¾	10	**721 950 635**	0.512	18.5	13.0	84.9	30
63	1	10	**721 950 636**	0.521	21.5	18.9	89.7	36





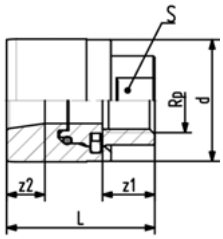
Adaptor fitting PVC-U/stainless steel

Model:

- Stainless steel WN 1.4404 (3162) with taper male thread R
- Gasket: O-ring EPDM

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**721 940 631**	0.335	17.0	12.4	63.2	25
50	½	10	**721 940 632**	0.402	17.0	12.5	69.2	25
50	¾	10	**721 940 633**	0.414	18.5	13.0	72.9	30
63	½	10	**721 940 634**	0.521	17.0	7.1	81.2	25
63	¾	10	**721 940 635**	0.533	18.5	13.0	84.9	30
63	1	10	**721 940 636**	0.542	21.5	18.9	89.7	36





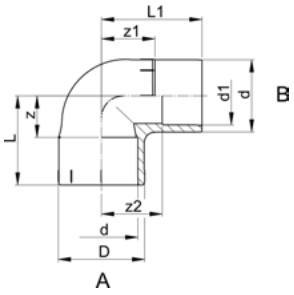
Adaptor fitting PVC-U/stainless steel

Model:

- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	L [mm]	S [mm]
40	½	10	**721 940 131**	0.267	17.0	12.4	63.2	25
50	½	10	**721 940 132**	0.345	17.0	12.5	69.2	25
50	¾	10	**721 940 133**	0.352	18.5	13.0	72.9	30
63	½	10	**721 940 134**	0.432	17.0	7.1	81.2	25
63	¾	10	**721 940 135**	0.441	18.5	13.0	84.9	30
63	1	10	**721 940 136**	0.453	21.5	18.9	89.7	36





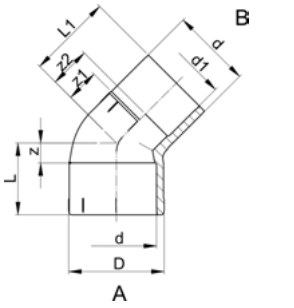
PRO-FIT elbow 90° PVC-U metric

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 [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]
20	16	16	**721 100 306**	0.011	11	16	18	25	27	32
25	20	16	**721 100 307**	0.020	14	18	21	31	33	37
32	25	16	**721 100 308**	0.038	17	22	25	38	39	44
40	32	16	**721 100 309**	0.069	23	30	34	47	49	56
50	40	16	**721 100 310**	0.122	26	36	41	58	57	67
63	50	16	**721 100 311**	0.237	33	45	52	73	71	83





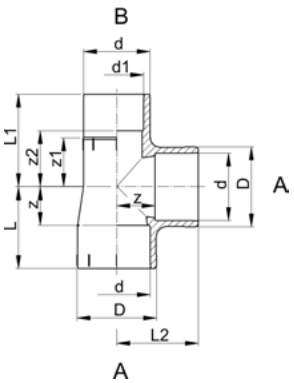
PRO-FIT elbow 45° PVC-U metric

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 [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]
20	16	16	**721 150 306**	0.010	5	9	11	25	21	25
25	20	16	**721 150 307**	0.015	6	11	14	31	25	30
32	25	16	**721 150 308**	0.027	8	13	16	38	30	35
40	32	16	**721 150 309**	0.053	10	17	21	47	36	43
50	40	16	**721 150 310**	0.090	12	18	23	58	43	49
63	50	16	**721 150 311**	0.175	14	23	30	73	52	61





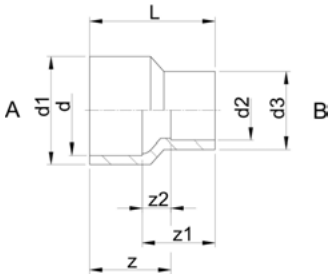
PRO-FIT tee 90° equal PVC-U metric

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 [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]
20	16	16	**721 200 306**	0.017	11	17	19	25	27	33	27
25	20	16	**721 200 307**	0.022	14	19	22	31	33	38	33
32	25	16	**721 200 308**	0.051	17	24	27	38	39	46	39
40	32	16	**721 200 309**	0.098	23	30	34	47	47	56	49
50	40	16	**721 200 310**	0.164	26	36	41	58	57	67	57
63	50	16	**721 200 311**	0.329	33	45	52	73	71	83	71





PRO-FIT reducing bush PVC-U metric

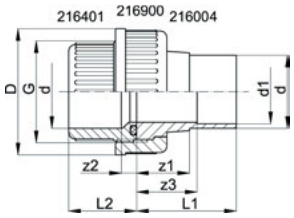
Model:

- Outlet: A and B = solvent cemented spigot in combination with reducing socket metric

d [mm]	d1 [mm]	d3 [mm]	PN [bar]	d2 [mm]	Code	Weight [kg]	z [mm]	z1 [mm]	z2 [mm]	L [mm]
10	14	12	16	8	**721 910 903**	0.003	15	15	3	27
12	16	12	16	8	**721 910 905**	0.004	18	18	6	30
12	16	16	16	10	**721 910 906**	0.004	18	18	6	30
16	20	16	16	10	**721 910 908**	0.003	21	19	7	33
16	20	16	16	12	**721 910 909**	0.004	21	19	7	33
20	25	16	16	12	**721 910 910**	0.008	25	21	9	37
20	25	20	16	16	**721 910 911**	0.008	25	23	9	39
25	32	16	16	12	**721 910 912**	0.014	30	23	11	42
25	32	20	16	16	**721 910 913**	0.015	30	26	12	44
25	32	25	16	20	**721 910 914**	0.017	30	27	11	46
32	40	20	16	16	**721 910 915**	0.025	36	28	14	50
32	40	25	16	20	**721 910 916**	0.026	36	30	14	52
32	40	32	16	25	**721 910 917**	0.031	36	33	14	55
40	50	25	16	20	**721 910 918**	0.045	44	34	18	60
40	50	32	16	25	**721 910 919**	0.052	44	37	18	63
40	50	40	16	32	**721 910 920**	0.058	44	40	18	66
50	63	32	16	25	**721 910 921**	0.092	54	42	23	73
50	63	40	16	32	**721 910 922**	0.098	54	45	23	76
50	63	50	16	40	**721 910 923**	0.111	54	49	23	80
63	75	40	16	32	**721 910 924**	0.127	62	46	24	84
63	75	50	16	40	**721 910 925**	0.139	62	50	24	88
63	75	63	16	50	**721 910 926**	0.167	62	55	24	93
75	90	50	16	40	**721 910 927**	0.224	74	56	30	100
75	90	63	16	50	**721 910 928**	0.253	74	61	30	105
75	90	75	16	63	**721 910 929**	0.265	74	68	30	112







PRO-FIT union PVC-U metric

Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011

	d [mm]	d1 [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
*	16	12	16	**721 510 305**	0.029	**721 510 330**	0.029
*	20	16	16	**721 510 306**	0.046	**721 510 331**	0.044
*	25	20	16	**721 510 307**	0.073	**721 510 332**	0.073
*	32	25	16	**721 510 308**	0.097	**721 510 333**	0.095
	40	32	16	**721 510 309**	0.169	**721 510 334**	0.171
	50	40	16	**721 510 310**	0.250	**721 510 335**	0.250
	63	50	16	**721 510 311**	0.437	**721 510 336**	0.449

	d [mm]	G [inch]	z1 [mm]	z2 [mm]	z3 [mm]	D [mm]	L1 [mm]	L2 [mm]
*	16	¾	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 ¼	25	10	28	51	44	29
*	32	1 ½	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 ¼	35	14	40	83	66	46
	63	2 ¾	39	18	46	100	77	58

Unions/tank adapters

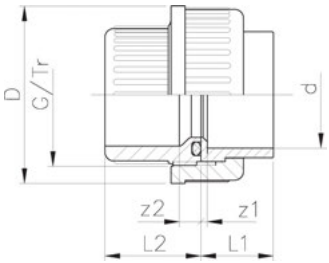
Unions for solvent cement jointing



Union for solvent cement jointing PVC-U metric

Model:

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 004-016; d90 748 410 248
- Jointing face: With O-ring groove



d [mm]	d [inch]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
10		16	**721 510 103**	0.021	**721 510 128**	0.020
12		16	**721 510 104**	0.020	**721 510 129**	0.019
16		16	**721 510 105**	0.025	**721 510 130**	0.025
20		16	**721 510 106**	0.041	**721 510 131**	0.042
25		16	**721 510 107**	0.058	**721 510 132**	0.058
32		16	**721 510 108**	0.083	**721 510 133**	0.084
40		16	**721 510 109**	0.147	**721 510 134**	0.152
50		16	**721 510 110**	0.203	**721 510 135**	0.207
63		16	**721 510 111**	0.356	**721 510 136**	0.361
75	2 ½	10	**721 510 112**	0.614	**721 510 137**	0.621
90		10	**721 510 313**	0.920	**721 510 338**	0.929
110		10	**721 510 114**	1.434	**721 510 139**	1.492

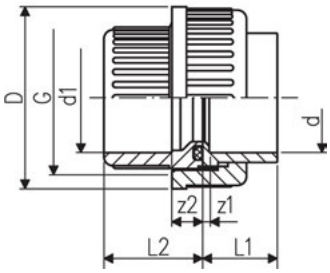
d [mm]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr [inch]
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5
110	5	11	188	66	72	Tr154x6



Adaptor union PVC-U metric Inch BS

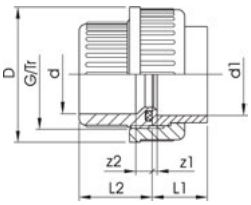
Model:

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)



PN [bar]	d [mm]	d1 [inch]	Code	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]
15	16	⅜	**721 513 105**	0.025	¾	3	8	35	17	24
15	20	½	**721 513 106**	0.040	1	3	9	43	19	26
15	25	¾	**721 513 107**	0.065	1 ¼	3	9	51	22	29
15	32	1	**721 513 108**	0.090	1 ½	3	9	58	25	33
15	40	1 ¼	**721 513 109**	0.155	2	3	10	72	29	39
15	50	1 ½	**721 513 110**	0.200	2 ¼	3	10	83	34	46
15	63	2	**721 513 111**	0.341	2 ¾	3	10	100	41	58





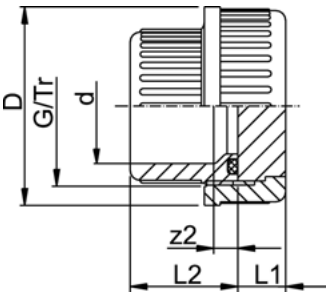
Union for solvent cement jointing PVC-U metric/ASTM

Model:

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)

d [mm]	d1 [inch]	PN [bar]	Code	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]
16	⅜	16	**721 514 105**	0.022	¾	3	10	35	22	24
20	½	16	**721 514 106**	0.042	1	3	10	43	25	26
25	¾	16	**721 514 107**	0.065	1 ¼	3	10	51	28	29
32	1	16	**721 514 108**	0.103	1 ½	3	10	58	32	33
40	1 ¼	16	**721 514 109**	0.174	2	3	12	72	35	39
50	1 ½	16	**721 514 110**	0.239	2 ¼	3	14	83	38	46
63	2	16	**721 514 111**	0.356	2 ¾	3	18	100	41	58





Union with union end blank PVC-U metric

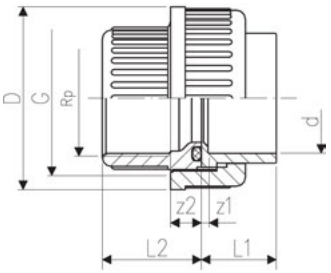
Model:

- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove

d [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]	z2 [mm]	L2 [mm]	D [mm]	L1 [mm]	G/Tr [inch]
10	16	**721 510 003**	0.020	**721 510 028**	0.020	9	22	31	10	5/8
12	16	**721 510 004**	0.020	**721 510 029**	0.020	9	22	31	15	5/8
16	16	**721 510 005**	0.026	**721 510 030**	0.026	10	24	35	10	3/4
20	16	**721 510 006**	0.041	**721 510 031**	0.041	10	26	43	11	1
25	16	**721 510 007**	0.068	**721 510 032**	0.068	10	29	51	11	1 1/4
32	16	**721 510 008**	0.095	**721 510 033**	0.095	10	33	58	12	1 1/2
40	16	**721 510 009**	0.159	**721 510 034**	0.159	12	39	72	13	2
50	16	**721 510 010**	0.227	**721 510 035**	0.227	14	46	83	16	2 1/4
63	16	**721 510 011**	0.392	**721 510 036**	0.405	18	58	100	18	2 3/4
75	10	**721 510 012**	0.679	**721 510 037**	0.693	18	62	135	22	Tr108x5
90	10	**721 510 213**	1.022	**721 510 238**	1.022	18	69	158	24	Tr128x5
110	10	**721 510 014**	1.556	**721 510 039**	1.573	11	72	188	26	Tr154x6

Adaptor unions





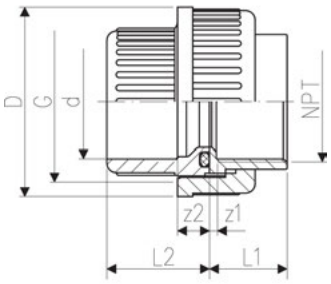
Adaptor union PVC-U metric Rp

Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FPM code no. 749 410 004-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN [bar]	EPDM Code	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]
12	¼	10	**721 510 204**	0.019	⅝	3	12	31	15	22
16	⅜	10	**721 510 205**	0.020	¾	3	13	35	17	24
20	½	10	**721 510 206**	0.040	1	3	13	43	19	26
25	¾	10	**721 510 207**	0.057	1 ¼	3	14	51	22	29
32	1	10	**721 510 208**	0.084	1 ½	3	15	58	25	33
40	1 ¼	10	**721 510 209**	0.147	2	3	19	72	29	39
50	1 ½	10	**721 510 210**	0.218	2 ¼	3	26	83	34	46
63	2	10	**721 510 211**	0.383	2 ¾	3	33	100	41	58





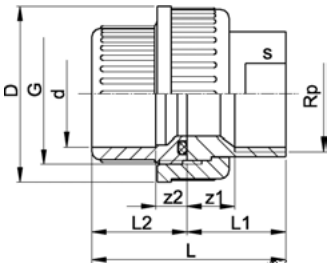
Adaptor union PVC-U metric NPT

Model:

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FPM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	NPT [inch]	PN [bar]	EPDM Code	Weight [kg]	G [inch]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]
16	⅜	10	**721 514 205**	0.026	¾	4	10	35	17	24
20	½	10	**721 514 206**	0.042	1	2	10	43	19	26
25	¾	10	**721 514 207**	0.068	1 ¼	4	10	51	22	29
32	1	10	**721 514 208**	0.093	1 ½	4	10	58	25	33
40	1 ¼	10	**721 514 209**	0.150	2	6	12	72	29	39
50	1 ½	10	**721 514 210**	0.228	2 ¼	11	14	83	34	46
63	2	10	**721 514 211**	0.387	2 ¾	17	18	100	41	58





Adaptor union PVC-U/stainless steel metric Rp

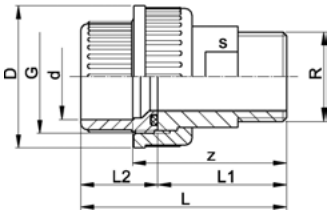
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

Rp [inch]	d [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
⅜	16	16	**721 540 205**	0.053	**721 540 230**	0.053
½	20	16	**721 540 206**	0.096	**721 540 231**	0.096
¾	25	16	**721 540 207**	0.154	**721 540 232**	0.134
1	32	16	**721 540 208**	0.212	**721 540 233**	0.212
1 ¼	40	16	**721 540 209**	0.356	**721 540 234**	0.343
1 ½	50	16	**721 540 210**	0.455	**721 540 235**	0.455
2	63	16	**721 540 211**	0.730	**721 540 236**	0.721

G [inch]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	s [mm]
¾	9	10	35	43	19	24	19
1	11	10	43	50	24	26	24
1 ¼	11	10	51	55	26	29	29
1 ½	12	10	58	61	29	33	36
2	14	12	72	71	33	39	45
2 ¼	15	14	83	79	34	46	54
2 ¾	15	18	100	95	39	58	63





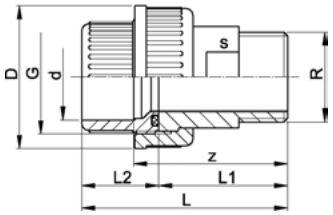
Adaptor union PVC-U/stainless steel metric R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

d [mm]	R [inch]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	⅜	16	**721 540 705**	0.073	**721 540 730**	0.073
20	½	16	**721 540 706**	0.126	**721 540 731**	0.126
25	¾	16	**721 540 707**	0.174	**721 540 732**	0.170
32	1	16	**721 540 708**	0.262	**721 540 733**	0.262
40	1 ¼	16	**721 540 709**	0.476	**721 540 734**	0.472
50	1 ½	16	**721 540 710**	0.535	**721 540 735**	0.535
63	2	16	**721 540 711**	0.934	**721 540 736**	0.931

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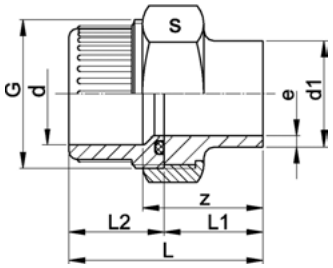
d [mm]	G [inch]	z [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	s [mm]
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69



Adaptor union PVC-U/stainless steel metric Welding end

Model:

- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 005-011



d [mm]	d1 [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	17	16	**721 545 505**	0.101	**721 545 530**	0.101
20	21	16	**721 545 506**	0.176	**721 545 531**	0.168
25	27	16	**721 545 507**	0.204	**721 545 532**	0.198
32	34	16	**721 545 508**	0.313	**721 545 533**	0.313
40	42	16	**721 545 509**	0.493	**721 545 534**	0.493
50	48	16	**721 545 510**	0.566	**721 545 535**	0.605
63	60	16	**721 545 511**	0.902	**721 545 536**	0.902

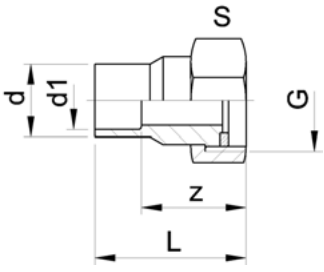
d [mm]	G [inch]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	s [mm]
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88



Tap connectors PVC-U/brass metric G

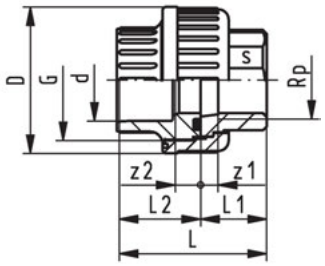
Model:

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM code no. 748 400 030; 748 400 005-006



d [mm]	d1 [mm]	G [inch]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
16	12	½	16	**721 550 305**	0.031	22	34	24
20	16	¾	16	**721 550 306**	0.049	24	38	30
25	20	1	16	**721 550 307**	0.079	27	43	38





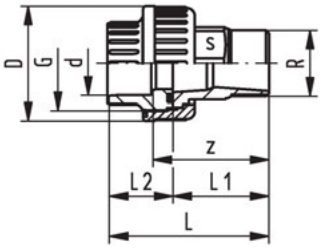
Adaptor union PVC-U/malleable iron galvanised metric Rp

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]	G [inch]	s [mm]
20	½	16	**721 530 306**	0.073	43	48	22	26	9	10	1	25
25	¾	16	**721 530 307**	0.107	51	51	22	29	7	10	1 1/4	31
32	1	16	**721 530 308**	0.154	58	58	26	33	9	10	1 1/2	38
40	1 ¼	16	**721 530 309**	0.282	72	69	31	39	12	12	2	48
50	1 ½	16	**721 530 310**	0.377	83	78	33	46	14	14	2 1/4	54
63	2	16	**721 530 311**	0.594	100	91	35	58	11	18	2 3/4	67
75	2 ½	10	**721 530 312**	1.008	127	101	39	62	12	18	Tr 108x5	85
90	3	10	**721 530 313**	1.350	150	114	45	69	15	19	Tr 128x5	96





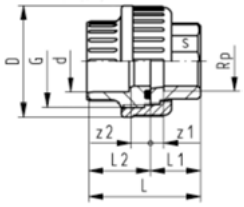
Adaptor union PVC-U/malleable iron galvanised metric R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	s [mm]
20	½	16	**721 530 806**	0.107	43	66	40	26	50	1	25
25	¾	16	**721 530 807**	0.159	51	72	43	29	53	1 1/4	31
32	1	16	**721 530 808**	0.213	58	80	48	33	58	1 1/2	38
40	1 ¼	16	**721 530 809**	0.426	72	95	57	39	69	2	48
50	1 ½	16	**721 530 810**	0.528	83	104	59	46	73	2 1/4	54
63	2	16	**721 530 811**	0.863	100	118	62	58	80	2 3/4	67
75	2 ½	10	**721 530 812**	1.441	127	137	75	62	93	Tr 108x5	85
90	3	10	**721 530 813**	1.873	150	149	80	69	99	Tr 128x5	96





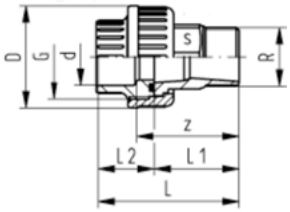
Adaptor union PVC-U/brass metric Rp

Model:

- Union Nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	s [mm]	z1 [mm]	z2 [mm]	G [inch]
20	½	16	**721 550 506**	0.088	43	48	22	26	25	7	10	1
25	¾	16	**721 550 507**	0.145	51	54	25	29	30	9	10	1 1/4
32	1	16	**721 550 508**	0.175	58	60	27	33	36	8	11	1 1/2
40	1 ¼	16	**721 550 509**	0.322	72	70	31	39	46	10	13	2
50	1 ½	16	**721 550 510**	0.467	83	81	35	46	55	13	15	2 1/4
63	2	16	**721 550 511**	0.776	100	98	40	58	65	14	20	2 3/4
75	2 ½	10	**721 550 512**	1.360	127	109	47	62	85	16	18	Tr 108x5
90	3	10	**721 550 513**	2.003	150	121	52	69	95	18	18	Tr 128x5





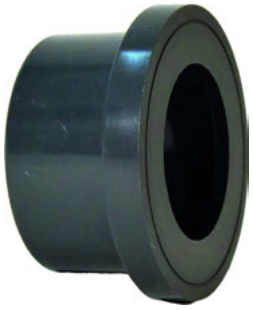
Adaptor union PVC-U/brass metric R

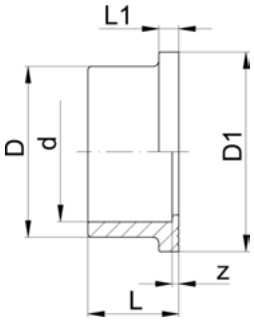
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d [mm]	R [inch]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	s [mm]
20	½	16	**721 550 906**	0.125	43	63	37	26	47	1	25
25	½	16	**721 550 957**	0.196	51	66	37	29	47	1 1/4	30
25	¾	16	**721 550 907**	0.196	51	71	42	29	52	1 1/4	30
25	1	16	**721 550 967**	0.307	51	75	46	29	56	1 1/4	30
32	½	16	**721 550 958**	0.297	58	70	37	33	48	1 1/2	36
32	¾	16	**721 550 968**	0.297	58	75	42	33	53	1 1/2	36
32	1	16	**721 550 908**	0.283	58	79	46	33	57	1 1/2	36
40	1 ¼	16	**721 550 909**	0.502	72	91	52	39	65	2	46
50	1 ½	16	**721 550 910**	0.681	83	102	56	46	71	2 1/4	55
63	2	16	**721 550 911**	1.101	100	125	67	58	87	2 3/4	65
75	2 ½	10	**721 550 912**	1.706	127	139	77	62	95	Tr 108x5	85
90	3	10	**721 550 913**	2.662	150	155	86	69	104	Tr 125x8	95

Flange adaptors





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

Model:

- Solvent cement socket metric
- d63 - d400: combined jointing face flat and serrated
- Gasket: profile flange gasket EPDM code no. 748 440 705-725, FPM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FPM code no. 749 410 000-174 in combination with counterpart flange adaptor code no. 721 810 105-123
- Flange: PVC-U code no. 721 700 005-140, PP with steel ring code no. 727 700 206-225, backing flange PP-V for socket systems metric code no. 727 700 406-425

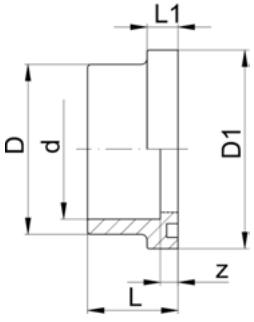
Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039

The flat gasket affects the maximum allowable operating pressure!

	DN [mm]	d [inch]	d [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	z [mm]	L [mm]	D [mm]	L1 [mm]
	10		16	16	**721 800 105**	0.006	29	3	17	22	6
	15		20	16	**721 800 106**	0.009	34	3	19	27	6
	20		25	16	**721 800 107**	0.015	41	3	22	33	7
	25		32	16	**721 800 108**	0.024	50	3	25	41	7
	32		40	16	**721 800 109**	0.039	61	3	29	50	8
	40		50	16	**721 800 110**	0.056	73	3	34	61	8
	50		63	16	**721 790 111**	0.103	90	3	41	77	9
	65	2 ½	75	16	**721 790 112**	0.159	106	3	47	91	10
	80		90	16	**721 790 113**	0.253	125	5	56	108	11
	100		110	16	**721 790 114**	0.417	150	5	66	131	12
	100		125	16	**721 790 115**	0.533	170	5	74	148	13
	125	5	140	16	**721 790 116**	0.725	188	5	81	165	14
	150		160	16	**721 790 117**	1.093	213	5	91	188	16
*	200		200	10	**721 790 119**	1.443	250	6	112	224	24
	200		225	10	**721 790 120**	1.743	274	6	125	248	25
*	250		250	10	**721 790 121**	2.203	303	9	140	274	23
	250		280	10	**721 790 122**	2.930	329	5	151	308	23
*	300		315	6	**721 790 123**	4.455	379	8	172	346	27
	350		355	6	**721 790 124**	5.963	430	10	194	384	32
	400		400	6	**721 790 125**	9.041	482	10	216	438	34





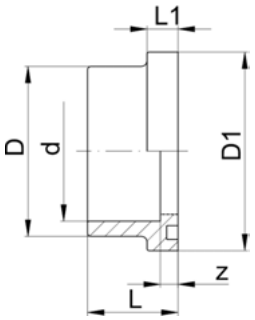
Flange adaptor PVC-U
Jointing face with O-ring groove metric

Model:

- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FPM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700 206-223, PP-V for socket systems metric code no. 727 700 406-423

d [inch]	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]
	16	10	16	**721 810 105**	0.008	29	6	22	20	9
	20	15	16	**721 810 106**	0.011	34	6	27	22	9
	25	20	16	**721 810 107**	0.018	41	6	33	25	10
	32	25	16	**721 810 108**	0.027	50	6	41	28	10
	40	32	16	**721 810 109**	0.046	61	8	50	34	13
	50	40	16	**721 810 110**	0.068	73	8	61	39	13
	63	50	16	**721 810 111**	0.120	90	8	77	46	14
2 ½	75	65	16	**721 810 112**	0.183	106	8	91	52	15
	90	80	16	**721 810 113**	0.286	125	10	108	61	16
	110	100	16	**721 810 114**	0.478	150	11	131	72	18
	125	100	16	**721 810 115**	0.607	170	11	148	80	19
5	140	125	16	**721 810 116**	0.804	188	11	165	87	20

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d [inch]	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]
	160	150	16	**721 810 117**	1.226	213	11	188	97	22
	200	200	10	**721 810 119**	1.593	250	12	224	118	30
	225	200	10	**721 810 120**	1.878	274	12	248	131	31
	250	250	10	**721 810 121**	2.175	303	9	274	140	23
	280	250	10	**721 810 122**	3.170	329	13	308	158	30
	315	300	6	**721 810 123**	4.891	379	17	346	180	35

Solvent Cements and Tools

Tangit solvent cement for PVC-U





- 0.125 kg tube
- Tin à 0.250, 0.500 and 1.000 kg (Net)

Code	Weight [kg]	Description
799 298 000	0.125	tube: 0.125 kg
799 298 001	0.250	tin: 0.25 kg
799 298 002	0.500	tin: 0.50 kg
799 298 003	1.000	tin: 1.00 kg

Tangit Dytex special solvent cement



Model:

- Special solvent cement, transparent.

- 1.350 kg (net) tin
- For concentrated acids and strong oxidizing agents the use of Dytex is recommended

Code	Weight [kg]
799 298 016	0.668

Cap for cement



- Tangit cement
- Cap prevents the evaporation of the solvent whilst using the Tangit cement

Code	Weight [kg]
799 298 028	0.035

Tangit cleaner



Model:

- 1 litre tin

Code	Weight [kg]
799 298 010	0.900



Round brush

d-d [mm]		Code	Weight [kg]	Closest inch [inch]	
6 - 10	4 mm (for Fittings 6-10mm)	**799 299 001**	0.004	⅛	
12 - 32	8 mm (for Fittings 12-32mm)	**799 299 002**	0.006	¼ - 1	



Flat brush

d-d [mm]		Closest inch [inch]	Code	Weight [kg]	
40 - 63	25x3 mm (for Fittings 40-63mm)	1 ¼ - 2	**799 299 003**	0.015	
75 - 225	50x5 mm (for Fittings 75-225mm)	2 ½ - 8	**799 299 004**	0.035	
250 - 400	75x6 mm (for Fittings 250-400mm)	9 - 16	**799 299 005**	0.053	



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	Weight [kg]	
16 - 200	**790 309 003**	1.024	
63 - 400	**790 309 004**	2.548	



Replacement cutting wheels

- **for plastic pipe cutter**

d-d [mm]	Article	Code	Weight [kg]	
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0.004	
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0.015	
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0.023	



PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	Weight [kg]	Closest inch [inch]	
PPC 63, s max. = 7.2mm	10 - 63	**790 109 001**	0.865	⅛ - 2	
PPC 110, s max. = 12.7mm	50 - 110	**790 109 002**	1.624	1 ½ - 4	
PPC 160, s max. = 19.0mm	110 - 160	**790 109 003**	2.212	4 - 6	



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts neccessary
- Weight of the saw: 13,0 kg
- Power: 1750 W ; 230 V 50 / 60 Hz
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d [mm]	Code	Weight [kg]	
160 - 355	**790 202 001**	35.000	

PVC-C metric

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	Solvent Cements and Tools	294

Pressure/temperature diagram for PVC-C

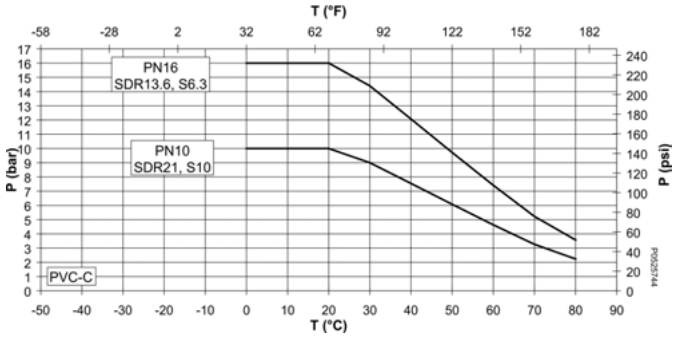
The following pressure/temperature diagram for PVC-C pipes and fittings is valid for a lifetime of 25 years.

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.

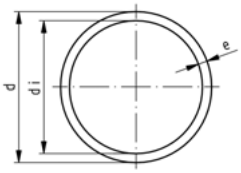


P Permissible pressure in bar, psi

T Temperature in °C, °F

Pipes





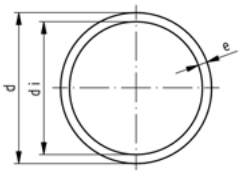
Pipe PVC-C grey
Series S10 SDR21 nominal pressure PN10

Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079, EN ISO 15493
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
75	10	**163 017 187**	1.320	3.6	67.8
90	10	**163 017 188**	1.930	4.3	81.4
110	10	**163 017 189**	2.890	5.3	99.4
140	10	**163 017 191**	4.620	6.7	
160	10	**163 017 192**	6.060	7.7	124.6
225	10	**163 017 195**	11.900	10.8	203.4





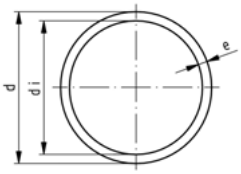
Pipe PVC-C grey
Series S4 SDR9 nominal pressure PN16

Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079, EN ISO 15493
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN [bar]	Code	Weight [kg/m]	di [mm]	e [mm]
16	16	**163 017 130**	0.136	12.4	1,8
20	16	**163 017 131**	0.217	15.4	2,3
25	16	**163 017 132**	0.326	19.4	2,8





Pipe PVC-C grey
Series S6.3 SDR13.6 nominal pressure PN16

Model:

- Material: PVC-C
- Colour: RAL 7038 - agate grey
- Dimension: DIN 8079, EN ISO 15493
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

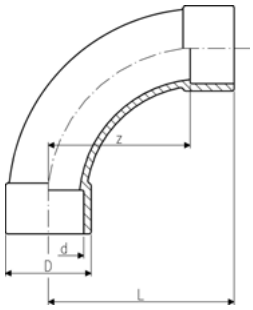
d [mm]	PN [bar]	Code	Weight [kg/m]	e [mm]	di [mm]
32	16	**163 017 133**	0.379	2.4	27.2
40	16	**163 017 134**	0.589	3.0	34.0
50	16	**163 017 135**	0.896	3.7	42.6
63	16	**163 017 136**	1.420	4.7	53.6
75	16	**163 017 137**	2.010	5.6	63.0
90	16	**163 017 138**	2.880	6.7	76.6
110	16	**163 017 139**	4.270	8.2	93.8
160	16	**163 017 142**	8.970	11.9	136.4

Fittings

Fittings

Bend 90° PVC-C metric



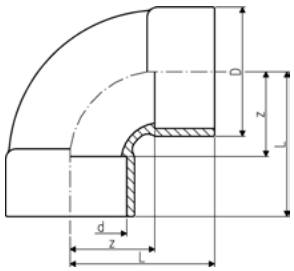


- Radius = 2 d

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
20	16	**723 000 106**	0.032	40	27	58
25	16	**723 000 107**	0.055	50	35	71
32	16	**723 000 108**	0.080	64	38	88
40	16	**723 000 109**	0.143	80	54	109
50	16	**723 000 110**	0.327	100	61	131
63	16	**723 000 111**	0.547	126	76	163
75	16	**723 000 112**	0.847	150	90	194
90	16	**723 000 113**	1.470	180	113	231
110	16	**723 000 114**	2.943	220	137	284
160	16	**723 000 117**	5.247	320	192	406

Bend 90° short pattern PVC-C metric



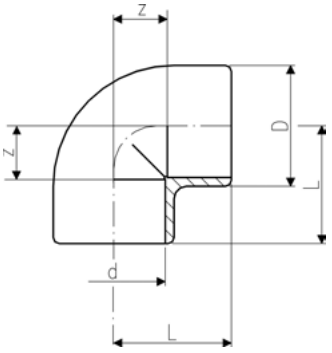


- Radius = 0,75 d

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
225	10	**723 010 120**	7.930	168	256	287

Elbow 90° PVC-C metric

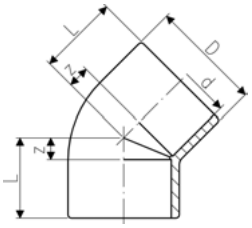




d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	16	**723 100 105**	0.015	9	21	23
20	16	**723 100 106**	0.014	11	25	27
25	16	**723 100 107**	0.025	14	31	33
32	16	**723 100 108**	0.047	17	40	39
40	16	**723 100 109**	0.077	21	49	47
50	16	**723 100 110**	0.139	26	61	57
63	16	**723 100 111**	0.259	33	76	72
75	16	**723 100 112**	0.437	40	90	84
90	16	**723 100 113**	0.626	46	110	97
110	16	**723 100 114**	1.085	61	128	116
160	16	**723 100 117**	3.097	80	185	166

Elbow 45° PVC-C metric

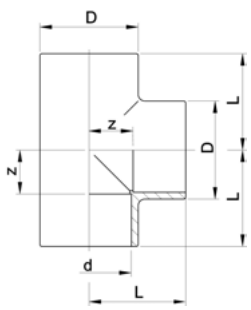




d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	16	**723 150 105**	0.008	5	21	19
20	16	**723 150 106**	0.011	5	25	21
25	16	**723 150 107**	0.021	6	31	25
32	16	**723 150 108**	0.037	8	40	30
40	16	**723 150 109**	0.063	10	49	36
50	16	**723 150 110**	0.110	12	61	43
63	16	**723 150 111**	0.207	14	76	52
75	16	**723 150 112**	0.323	17	88	61
90	16	**723 150 113**	0.526	20	106	71
110	16	**723 150 114**	0.782	28	137	89
160	16	**723 150 117**	2.384	36	185	122
225	10	**723 150 120**	4.833	49	250	168

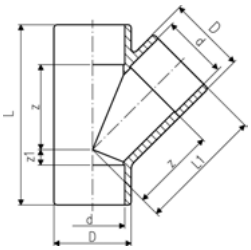
Tee 90° PVC-C metric





d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	16	**723 200 105**	0.014	9	21	23
20	16	**723 200 106**	0.020	11	25	27
25	16	**723 200 107**	0.035	14	31	33
32	16	**723 200 108**	0.061	17	40	39
40	16	**723 200 109**	0.111	21	49	47
50	16	**723 200 110**	0.198	26	61	57
63	16	**723 200 111**	0.365	34	76	72
75	16	**723 200 112**	0.581	40	90	84
90	16	**723 200 113**	0.945	47	107	98
110	16	**723 200 114**	1.450	55	128	116
160	16	**723 200 117**	5.580	81	193	167
225	10	**723 200 120**	9.560	114	256	233

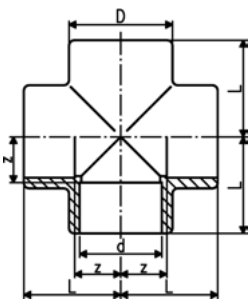




Tee 45° PVC-C metric

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
20	10	**723 250 106**	0.039	30	6	28	68	46
25	10	**723 250 107**	0.062	36	9	33	83	55
32	10	**723 250 108**	0.102	45	10	41	99	67
40	10	**723 250 109**	0.172	56	10	50	118	82
50	10	**723 250 110**	0.289	66	12	60	140	97
63	10	**723 250 111**	0.449	85	14	74	175	123
75	6	**723 250 112**	0.857	101	18	91	207	145
90	6	**723 250 113**	1.334	122	20	107	245	173
110	6	**723 250 114**	2.677	149	27	134	298	210

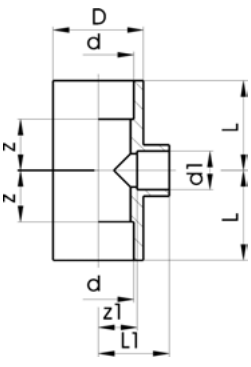




Cross PVC-C metric

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
32	16	**723 300 108**	0.101	17	43	39
63	16	**723 300 111**	0.511	34	79	72

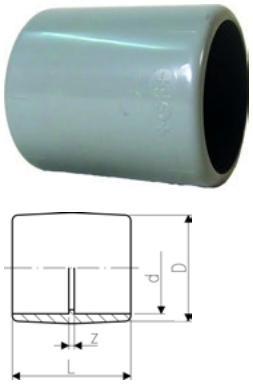




Tee 90° reducing PVC-C metric

*Tee 90° delivered with the required reducing bushes

	d1 [mm]	d [mm]	PN [bar]	Code	Weight [kg]	z1 [mm]	L1 [mm]	z [mm]	D [mm]	L [mm]
	20	25	16	**723 200 134**	0.042	14	30	14	33	33
	25	32	16	**723 200 138**	0.069	17	36	17	41	39
	25	40	16	**723 200 151**	0.120	23	42	23	50	49
	32	40	16	**723 200 147**	0.120	23	45	23	50	49
	20	50	16	**723 200 009**	0.196	28	44	28	62	59
	25	50	16	**723 200 010**	0.192	28	47	28	62	59
	32	50	16	**723 200 164**	0.199	28	50	28	62	59
	25	63	16	**723 200 011**	0.358	34	53	34	77	73
	32	63	16	**723 200 178**	0.368	34	56	35	77	73
	50	63	16	**723 200 170**	0.096	34	65	35	77	73
*	63	75	16	**723 200 184**	0.766	47	84	41	92	84
*	32	90	16	**723 200 142**	1.436	75	97	46	111	97
*	63	90	16	**723 200 145**	1.166	66	97	46	111	97
*	32	110	16	**723 200 135**	2.796	101	116	55	128	116
*	90	110	16	**723 200 137**	2.677	71	116	55	128	116

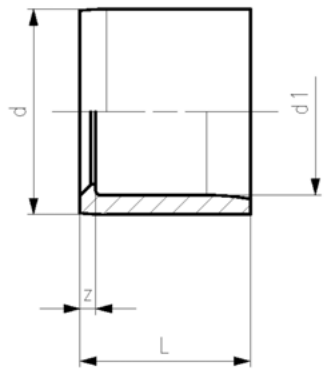


Socket PVC-C metric

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
16	16	**723 910 105**	0.008	3	22	31
20	16	**723 910 106**	0.010	3	26	35
25	16	**723 910 107**	0.017	3	31	41
32	16	**723 910 108**	0.029	3	39	47
40	16	**723 910 109**	0.049	3	49	55
50	16	**723 910 110**	0.085	3	61	65
63	16	**723 910 111**	0.155	3	76	79
75	16	**723 910 112**	0.204	4	87	92
90	16	**723 910 113**	0.338	5	110	107
110	16	**723 910 114**	0.769	5	131	132
160	16	**723 910 117**	1.605	8	183	180
225	10	**723 910 120**	3.644	10	253	248







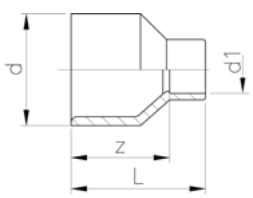
Reducing bush short pattern PVC-C metric

Model:

- With solvent cement spigot and socket metric

	d [mm]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
*	20	16	16	**723 900 334**	0.004	2	16
*	25	20	16	**723 900 337**	0.004	3	19
*	32	20	16	**723 900 342**	0.015	6	22
*	32	25	16	**723 900 341**	0.009	4	22
	40	20	16	**723 900 348**	0.023	10	26
	40	25	16	**723 900 347**	0.024	7	26
*	40	32	16	**723 900 346**	0.017	4	26
	50	20	16	**723 900 355**	0.036	15	31
	50	25	16	**723 900 354**	0.037	12	31
	50	32	16	**723 900 353**	0.050	9	31
*	50	40	16	**723 900 352**	0.032	5	31
	63	32	16	**723 900 360**	0.086	16	38
	63	40	16	**723 900 359**	0.074	12	38
*	63	50	16	**723 900 358**	0.061	6	38
	75	50	16	**723 900 365**	0.115	13	44
*	75	63	16	**723 900 364**	0.086	6	44
	90	50	16	**723 900 372**	0.196	20	51
	90	63	16	**723 900 371**	0.183	14	51
*	90	75	16	**723 900 370**	0.146	8	51
	110	63	16	**723 900 378**	0.329	24	61
*	110	90	16	**723 900 376**	0.283	10	61
	160	110	16	**723 900 390**	0.956	25	86
	225	160	16	**723 900 396**	2.380	33	119





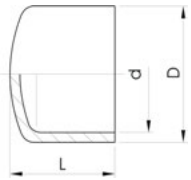
Reducing bush long pattern PVC-C metric

Model:

- With solvent cement spigot and socket metric

d1 [mm]	d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]
20	32	16	**723 910 342**	0.021	30	46
25	40	16	**723 910 347**	0.036	36	55
25	50	16	**723 910 354**	0.058	44	63
32	63	16	**723 910 360**	0.110	54	76
40	75	16	**723 910 366**	0.165	62	88
63	90	16	**723 910 371**	0.466	74	112

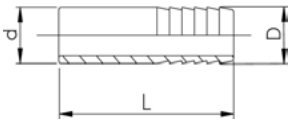




Cap PVC-C metric

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
16	16	**723 960 105**	0.008	26	24
20	16	**723 960 106**	0.011	30	25
25	16	**723 960 107**	0.018	37	30
32	16	**723 960 108**	0.029	44	34
40	16	**723 960 109**	0.046	55	41
50	16	**723 960 110**	0.064	64	44
63	16	**723 960 111**	0.120	80	54
75	16	**723 960 112**	0.162	87	65
90	16	**723 960 113**	0.315	112	77
110	16	**723 960 114**	0.692	145	101
160	10	**723 960 117**	1.599	188	130





Hose nozzle PVC-C metric

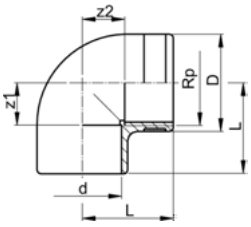
Model:

- With solvent cement spigot and parallel hose connection

d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	L [mm]
16	16	**723 960 405**	0.009	16	57
20	16	**723 960 406**	0.016	20	73
25	16	**723 960 407**	0.023	25	79
32	16	**723 960 408**	0.038	30	89

Adaptor fittings





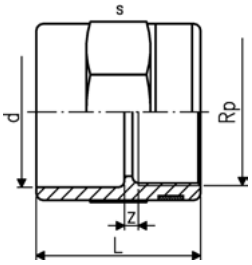
Elbow 90° PVC-C metric Rp

Model:

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

Rp [inch]	d [mm]	PN [bar]	Code	Weight [kg]	z1 [mm]	z2 [mm]	D [mm]	L [mm]
½	20	16	**723 100 206**	0.024	11	14	30	27
¾	25	16	**723 100 207**	0.037	14	17	35	33
1	32	16	**723 100 208**	0.063	17	22	45	39
1 ¼	40	16	**723 100 209**	0.134	23	27	55	50
1 ½	50	16	**723 100 210**	0.199	27	36	62	58
2	63	16	**723 100 211**	0.337	33	46	75	73





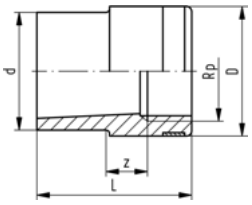
Socket PVC-C metric Rp

Model:

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

Rp [inch]	d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	L [mm]	s [mm]
½	20	16	**723 910 206**	0.027	4	35	32
¾	25	16	**723 910 207**	0.035	3	40	36
1	32	16	**723 910 208**	0.059	3	45	46
1 ¼	40	16	**723 910 209**	0.093	5	51	55
1 ½	50	16	**723 910 210**	0.133	7	59	65
2	63	16	**723 910 211**	0.211	7	69	80





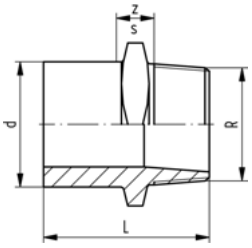
Reducing bush PVC-C metric Rp

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 [mm]	Rp [inch]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
20	⅜	16	**723 910 434**	0.016	7	25	35
25	½	16	**723 910 437**	0.022	7	30	41
32	¾	16	**723 910 441**	0.033	15	35	48
40	1	16	**723 910 446**	0.061	20	45	56
50	1 ¼	16	**723 910 452**	0.101	20	55	66
63	1 ½	16	**723 910 458**	0.161	10	62	77





Adaptor nipple PVC-C metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

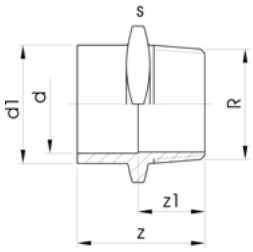
R [inch]	d [mm]	PN [bar]	Code	Weight [kg]	L [mm]	z [mm]	s [mm]
⅜	16	16	**723 910 505**	0.012	35	8	27



Adaptor socket nipple PVC-C metric R

Model:

- With solvent cement spigot/socket metric and taper male thread R
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

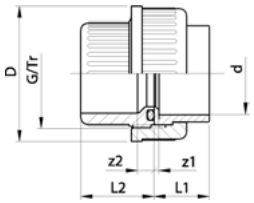


d [mm]	R [inch]	d1 [mm]	PN [bar]	Code	Weight [kg]	z [mm]	z1 [mm]	s [mm]
16	½	20	16	**723 910 556**	0.017	42	28	32
20	¾	25	16	**723 910 557**	0.026	47	31	36
25	1	32	16	**723 910 558**	0.043	54	35	46
32	1 ¼	40	16	**723 910 559**	0.065	60	38	55
40	1 ½	50	16	**723 910 560**	0.102	66	40	65
50	2	63	16	**723 910 561**	0.173	78	47	80

Unions

Solvent cement unions





Union PVC-C metric

Model:

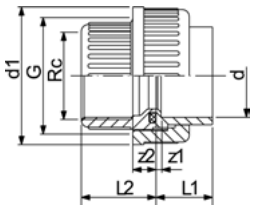
- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Jointing face: With O-ring groove
- Gasket: O-ring EPDM code no. 748 410 005-016, for d90 748 410 248

d [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	16	**723 510 105**	0.028	**723 510 130**	0.027
20	16	**723 510 106**	0.046	**723 510 131**	0.044
25	16	**723 510 107**	0.063	**723 510 132**	0.072
32	16	**723 510 108**	0.090	**723 510 133**	0.098
40	16	**723 510 109**	0.158	**723 510 134**	0.167
50	16	**723 510 110**	0.214	**723 510 135**	0.098
63	16	**723 510 111**	0.360	**723 510 136**	0.362
75	10	**723 510 112**	0.650	**723 510 137**	0.670
90	10	**723 510 313**	0.994	**723 510 338**	1.008
110	10	**723 510 114**	1.509	**723 510 139**	1.523

z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr [inch]
3	8	35	19	24	3/4
3	9	43	21	26	1
3	9	53	24	29	1 1/4
3	9	60	27	33	1 1/2
3	10	74	32	39	2
3	10	83	33	46	2 1/4
3	10	103	40	58	2 3/4
3	18	135	47	62	Tr108x5
5	18	158	56	69	Tr128x5
5	11	188	66	72	Tr154x6

Adaptor unions





Adaptor union PVC-C metric Rp

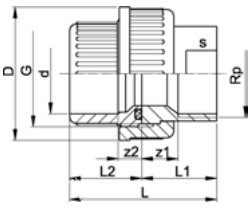
Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

Rp [inch]	d [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
⅜	16	16	**723 510 205**	0.022	**723 510 230**	0.022
½	20	16	**723 510 206**	0.047	**723 510 231**	0.040
¾	25	16	**723 510 207**	0.065	**723 510 232**	0.065
1	32	16	**723 510 208**	0.103	**723 510 233**	0.103
1 ¼	40	16	**723 510 209**	0.615	**723 510 234**	0.174
1 ½	50	16	**723 510 210**	0.239	**723 510 235**	0.239
2	63	16	**723 510 211**	0.400	**723 510 236**	0.435

z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
3	13	35	17	24	3/4
3	13	43	19	26	1
3	14	51	22	29	1 1/4
3	15	58	25	32	1 1/2
3	19	74	31	38	2
3	26	83	34	45	2 1/4
3	33	100	41	56	2 3/4





Adaptor union PVC-C/stainless steel metric Rp

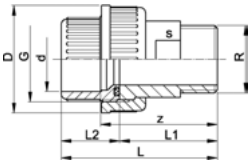
Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

d [mm]	Rp [inch]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	⅜	16	**723 540 205**	0.053	**723 540 230**	0.053
20	½	16	**723 540 206**	0.096	**723 540 231**	0.096
25	¾	16	**723 540 207**	0.154	**723 540 232**	0.154
32	1	16	**723 540 208**	0.212	**723 540 233**	0.212
40	1 ¼	16	**723 540 209**	0.356	**723 540 234**	0.347
50	1 ½	16	**723 540 210**	0.455	**723 540 235**	0.502
63	2	16	**723 540 211**	0.721	**723 540 236**	0.721

z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
9	10	35	43	19	24	3/4	19
11	10	43	50	24	26	1	24
11	10	51	55	26	29	1 1/4	29
12	10	58	61	29	33	1 1/2	36
14	12	74	71	33	39	2	45
15	14	83	79	34	46	2 1/4	54
15	18	100	95	39	58	2 3/4	63





Adaptor union PVC-C/stainless steel metric R

Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

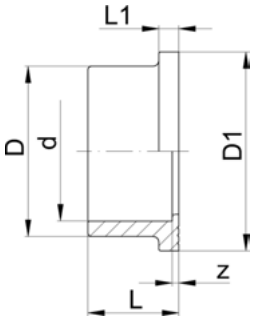
R [inch]	d [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
⅜	16	16	**723 540 705**	0.073	**723 540 730**	0.073
½	20	16	**723 540 706**	0.126	**723 540 731**	0.120
¾	25	16	**723 540 707**	0.174	**723 540 732**	0.174
1	32	16	**723 540 708**	0.262	**723 540 733**	0.259
1 ¼	40	16	**723 540 709**	0.476	**723 540 734**	0.482
1 ½	50	16	**723 540 710**	0.535	**723 540 735**	0.535
2	63	16	**723 540 711**	0.931	**723 540 736**	0.982

z [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
40	35	54	30	24	3/4	19
44	43	60	34	26	1	24
46	51	65	36	29	1 1/4	32
50	58	72	40	33	1 1/2	37
58	74	84	46	39	2	48
62	83	93	48	46	2 1/4	54
73	100	111	55	58	2 3/4	69

Flange adaptors

Flange adaptor PVC-C
Combined jointing face flat and serrated metric





Model:

- Gasket: flat gasket EPDM code no. 748 400 306-320
- Flange: code no. 727 700 406-420, 727 700 206-220, 721 700 006-020
- Gasket: profile flange gasket EPDM code no. 748 440 706-720, FPM code no. 749 440 706-720

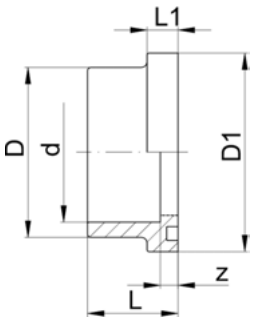
Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039

	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
	20	15	16	**723 790 106**	0.011	3	27	34	21	6
	25	20	16	**723 790 107**	0.018	3	33	41	24	7
	32	25	16	**723 790 108**	0.027	3	41	50	27	7
	40	32	16	**723 790 109**	0.032	3	50	61	30	8
	50	40	16	**723 790 110**	0.054	3	61	73	34	8
	63	50	16	**723 790 111**	0.097	3	76	90	41	9
	75	65	16	**723 790 112**	0.168	3	91	106	47	10
	90	80	16	**723 790 113**	0.265	5	108	125	56	11
	110	100	16	**723 790 114**	0.441	5	131	150	66	12
*	160	150	16	**723 790 117**	1.139	5	188	213	91	16
*	200	200	10	**723 790 119**	1.630	6	224	250	112	24
	225	200	10	**723 790 120**	1.860	6	248	274	125	25

Flange adaptor PVC-C with O-ring groove metric





Model:

- Counterpart: flange adaptor code no. 723 790 117, 723 790 120
- Gasket: O-ring EPDM code no. 748 410 019, 748 410 022; FPM code no. 749 410 019, 749 410 022
- Flange: code no. 727 700 406-420, 727 700 206-220, 721 700 006-020

d [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
160	16	**723 810 117**	1.252	11	188	213	97	22
225	10	**723 810 120**	2.050	12	248	274	131	31

Solvent Cements and Tools



Tangit solvent cement for PVC-C

Code	Weight [kg]	
799 298 027	0.700	



Tangit Dytex special solvent cement

Model:

- Special solvent cement, transparent.

- For concentrated acids and strong oxidizing agents the use of Dytex is recommended
- 1.350 kg (net) tin

Code	Weight [kg]	
799 298 016	0.668	



Tangit PVC-C Adhesive Can

Spezial-Klebstoff für die Klebung von Druckrohren aus PVC-C für Industrie- und Sanitäranwendung.

Article Code	Code	Weight [kg]	Description	
TA 6	**799 271 363**	0.801	6 boxes á 700 g	



Tangit cleaner

Model:

- 1 litre tin

Code	Weight [kg]	
799 298 010	0.900	



Cap for cement

Model:

- Cap prevents the evaporation of the solvent whilst using the Tangit cement
- Tangit cement

Code	Weight [kg]	
799 298 028	0.035	



Round brush

	d-d [mm]	Closest inch [inch]	Code	Weight [kg]	
4 mm (for Fittings 6-10mm)	6 - 10	⅛	**799 299 001**	0.004	
8 mm (for Fittings 12-32mm)	12 - 32	¼ - 1	**799 299 002**	0.006	



Flat brush

d-d [mm]		Closest inch [inch]	Code	Weight [kg]	
40 - 63	25x3 mm (for Fittings 40-63mm)	1 ¼ - 2	**799 299 003**	0.015	
75 - 225	50x5 mm (for Fittings 75-225mm)	2 ½ - 8	**799 299 004**	0.035	
250 - 400	75x6 mm (for Fittings 250-400mm)	9 - 16	**799 299 005**	0.053	



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	Weight [kg]	
16 - 200	**790 309 003**	1.024	
63 - 400	**790 309 004**	2.548	



PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	Weight [kg]	Closest inch [inch]	
PPC 63, s max. = 7.2mm	10 - 63	**790 109 001**	0.865	⅛ - 2	
PPC 110, s max. = 12.7mm	50 - 110	**790 109 002**	1.624	1 ½ - 4	
PPC 160, s max. = 19.0mm	110 - 160	**790 109 003**	2.212	4 - 6	



Replacement cutting wheels

- **for plastic pipe cutter**

d-d [mm]	Article	Code	Weight [kg]	
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0.004	
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0.015	
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0.023	

AQUASYSTEM®

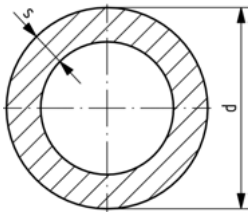
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Pipes

Pipe PN20



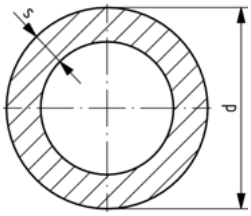


- * not certified for shipbuilding

d [mm]	s [mm]	Code	Weight [kg]	L [mm]
20	3.4	**760 840 002**	0.176	3000
25	4.2	**760 840 003**	0.270	3000
32	5.4	**760 840 004**	0.444	3000
40	6.7	**760 840 005**	0.690	3000
50	8.4	**760 840 006**	1.037	3000
63	10.5	**760 840 007**	1.688	3000
75	12.5	**760 840 008**	2.409	3000
90	15.0	**760 840 009**	3.450	3000
110	18.4	**760 840 010**	4.910	3000

Pipe PN10
For cold water only





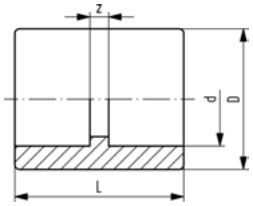
- * not certified for shipbuilding

d [mm]	s [mm]	Code	Weight [kg]	L [mm]
20	1.9	**760 840 012**	0.107	3000
25	2.3	**760 840 013**	0.164	3000
32	3.0	**760 840 014**	0.267	3000
40	3.7	**760 840 015**	0.412	3000
50	4.6	**760 840 016**	0.636	3000
63	5.8	**760 840 017**	1.005	3000
75	6.9	**760 840 018**	1.418	3000
90	8.2	**760 840 019**	2.030	3000
110	10.0	**760 840 020**	3.000	3000
125	11.4	**760 840 021**	5.580	3000

Socket fusion fittings

Socket

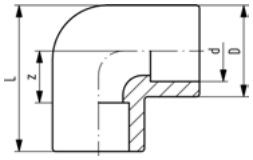




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 022**	0.013	30	36	4
25	**760 840 023**	0.017	34	40	4
32	**760 840 024**	0.026	42	43	3
40	**760 840 025**	0.051	55	47	3
50	**760 840 026**	0.091	69	53	3
63	**760 840 027**	0.168	86	62	4
75	**760 840 028**	0.280	107	67	5
90	**760 840 029**	0.425	127	74	6
110	**760 840 030**	0.380	148	80	6

90° elbow

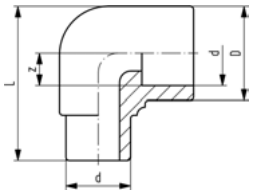




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 032**	0.018	30	42	11
25	**760 840 033**	0.030	34	48	13
32	**760 840 034**	0.046	42	59	18
40	**760 840 035**	0.090	55	71	21
50	**760 840 036**	0.167	69	87	27
63	**760 840 037**	0.315	86	106	34
75	**760 840 038**	0.535	107	124	39
90	**760 840 039**	0.860	129	145	46
110	**760 840 040**	1.090	148	173	62

90° elbow, male-female

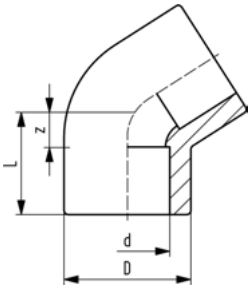




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 042**	0.019	29	45	14
25	**760 840 047**	0.030	34	51	16
32	**760 840 048**	0.047	42	60	19

45° elbow

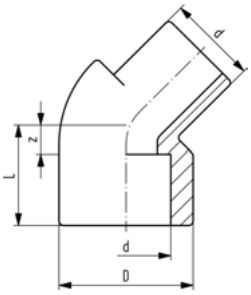




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 052**	0.016	30	20	5
25	**760 840 053**	0.020	34	22	6
32	**760 840 054**	0.031	42	27	8
40	**760 840 055**	0.068	55	31	10
50	**760 840 056**	0.124	69	36	12
63	**760 840 057**	0.237	86	44	14
75	**760 840 058**	0.397	107	48	16
90	**760 840 059**	0.530	122	55	19
110	**760 840 060**	0.700	148	69	32

45° elbow, male-female

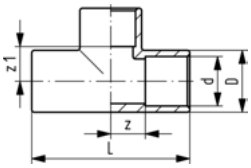




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 172**	0.013	30	20	5

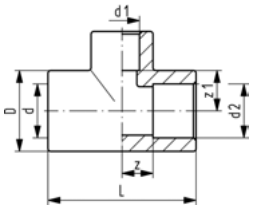
Tee equal





d [mm]	Code	Weight [kg]	z1 [mm]	D [mm]	L [mm]	z [mm]
20	**760 840 062**	0.023	12	30	55	12
25	**760 840 063**	0.036	14	34	64	14
32	**760 840 064**	0.070	19	42	77	19
40	**760 840 065**	0.126	22	55	87	22
50	**760 840 066**	0.236	28	69	105	28
63	**760 840 067**	0.445	34	86	126	34
75	**760 840 068**	0.705	40	107	141	40
90	**760 840 069**	0.920	46	122	162	46
110	**760 840 070**	1.280	62	148	198	62

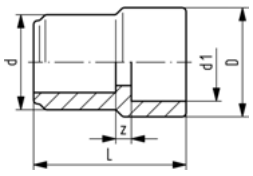




Reducing Tee

d1 [mm]	d [mm]	d2 [mm]	Code	Weight [kg]	z1 [mm]	D [mm]	L [mm]	z [mm]
20	25	25	**760 840 071**	0.038	14	34	64	14
20	25	20	**760 840 072**	0.041	14	34	64	15
25	25	20	**760 840 073**	0.038	14	34	64	15
20	32	32	**760 840 076**	0.064	19	42	77	19
25	32	32	**760 840 077**	0.064	19	42	77	19
32	32	25	**760 840 078**	0.073	19	42	77	20
25	32	25	**760 840 079**	0.068	19	42	77	20
20	40	40	**760 840 082**	0.080	24	52	88	24
25	40	40	**760 840 083**	0.190	24	52	88	24
32	40	40	**760 840 084**	0.135	26	55	88	25
20	50	50	**760 840 087**	0.190	31	65	104	28
25	50	50	**760 840 088**	0.190	30	65	104	28
32	50	50	**760 840 089**	0.190	28	65	104	27
40	50	50	**760 840 090**	0.254	32	69	106	35
25	63	63	**760 840 092**	0.390	46	85	124	35
32	63	63	**760 840 093**	0.400	44	85	124	35
40	63	63	**760 840 094**	0.390	35	85	124	34
50	63	63	**760 840 095**	0.472	34	86	128	41
25	75	75	**760 840 086**	0.550	55	100	142	41
32	75	75	**760 840 096**	0.560	53	100	142	41
40	75	75	**760 840 097**	0.520	51	100	142	41
50	75	75	**760 840 098**	0.550	48	100	142	42
63	75	75	**760 840 099**	0.647	35	107	141	40
75	90	90	**760 840 100**	0.880	53	120	166	50
90	110	110	**760 840 101**	1.280	84	165	248	84



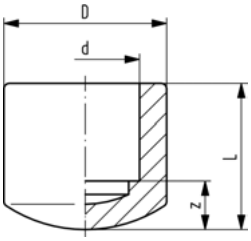


Reducing bush, male-female

d1 [mm]	d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	25	**760 840 102**	0.010	28	39	5
20	32	**760 840 105**	0.016	28	44	8
25	32	**760 840 106**	0.018	33	46	8
20	40	**760 840 107**	0.027	29	47	10
25	40	**760 840 109**	0.029	35	50	11
32	40	**760 840 110**	0.034	44	52	11
20	50	**760 840 111**	0.047	27	53	12
25	50	**760 840 112**	0.047	34	55	12
32	50	**760 840 114**	0.052	44	58	13
40	50	**760 840 115**	0.060	55	60	13
20	63	**760 840 117**	0.085	27	60	15
25	63	**760 840 118**	0.085	32	62	15
32	63	**760 840 119**	0.085	42	64	15
40	63	**760 840 120**	0.096	55	70	19
50	63	**760 840 121**	0.110	59	70	17
25	75	**760 840 129**	0.135	32	66	12
32	75	**760 840 130**	0.135	42	63	12
40	75	**760 840 122**	0.135	55	63	14
50	75	**760 840 123**	0.150	70	70	14
63	75	**760 840 124**	0.183	87	75	15
50	90	**760 840 125**	0.192	71	72	17
63	90	**760 840 126**	0.205	86	82	19
75	90	**760 840 127**	0.241	100	84	19
63	110	**760 840 139**	0.300	130	87	27
75	110	**760 840 116**	0.350	130	90	29
90	110	**760 840 128**	0.340	130	93	31

Cap

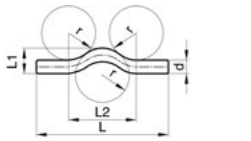




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 132**	0.010	30	27	11
25	**760 840 133**	0.013	34	29	11
32	**760 840 134**	0.021	42	33	13
40	**760 840 135**	0.039	55	35	15
50	**760 840 136**	0.073	69	42	20
63	**760 840 137**	0.137	86	50	25
75	**760 840 138**	0.251	107	58	27

Swan neck

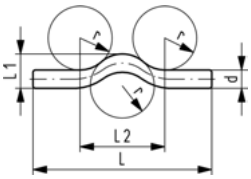




d [mm]	Code	Weight [kg]	r [mm]	L [mm]	L1 [mm]	L2 [mm]
20	**760 840 142**	0.065	80	350	45	200
25	**760 840 143**	0.099	80	350	55	200
32	**760 840 144**	0.156	80	350	67	200

Narrow swan neck

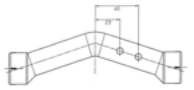




d [mm]	Code	Weight [kg]	r [mm]	L [mm]	L1 [mm]	L2 [mm]
20	**760 840 146**	0.065	70	365	55	180

Narrow swan neck F-F

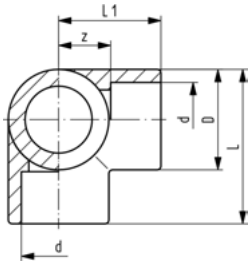




d [mm]	Code	Weight [kg]	h [mm]	l [mm]
20	**760 840 148**	0.042	48	160
25	**760 840 149**	0.068	60	200

Three-ways welding 90° elbow

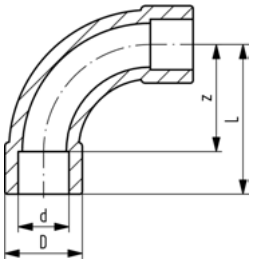




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	z [mm]
20	**760 840 152**	0.022	30	42	28	10

90° bend

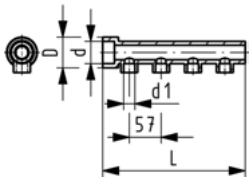




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	**760 840 162**	0.031	29	70	40
25	**760 840 163**	0.038	34	85	50

Manifold

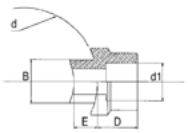




d [mm]	Rp [inch]	d1 [mm]	Code	Weight [kg]	z [mm]	L [mm]	D [mm]
40		20	**760 840 182**	0.241	57	255	55
40	½		**760 840 186**	0.490	57	255	55

Saddle with spigot



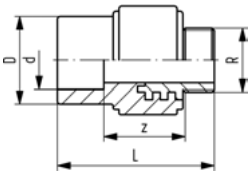


d - d1 [mm]	Code	Weight [kg]	B [mm]	E [mm]	D [mm]
40 - 20	**760 840 190**	0.016	22	7	20
40 - 25	**760 840 191**	0.018	22	7	27
50 - 20	**760 840 192**	0.016	22	8	20
50 - 25	**760 840 193**	0.018	22	8	27
63 - 20	**760 840 194**	0.016	22	10	20
63 - 25	**760 840 195**	0.018	22	10	27
63 - 32	**760 840 196**	0.028	32	10	30
75 - 20	**760 840 197**	0.016	22	10	20
75 - 25	**760 840 198**	0.018	22	10	27
75 - 32	**760 840 199**	0.028	32	10	30
75 - 40	**760 840 200**	0.042	32	15	30
90 - 20	**760 840 220**	0.016	22	15	20
90 - 25	**760 840 221**	0.029	22	15	27
90 - 32	**760 840 222**	0.029	32	15	30
90 - 40	**760 840 231**	0.040	32	15	30
110 - 20	**760 840 223**	0.016	22	15	20
110 - 25	**760 840 224**	0.018	22	15	27
110 - 32	**760 840 225**	0.028	32	15	30
110 - 40	**760 840 226**	0.040	32	15	30

Transition fittings

Threaded male coupling

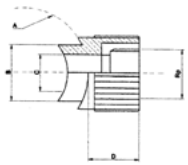




d [mm]	R [inch]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	½	**760 840 241**	0.086	30	54	23
20	¾	**760 840 242**	0.137	34	56	24
25	½	**760 840 243**	0.088	34	56	25
25	¾	**760 840 244**	0.133	34	56	22
32	¾	**760 840 245**	0.137	42	67	31
32	1	**760 840 246**	0.328	42	80	43
40	1	**760 840 239**	0.338	54	86	28
40	1 ¼	**760 840 247**	0.463	54	85	43
50	1 ½	**760 840 248**	0.529	68	89	44
63	2	**760 840 249**	0.776	85	100	46
75	2 ½	**760 840 250**	1.170	101	108	50
90	3	**760 840 238**	1.450	121	113	50

Threaded female saddle with spigot

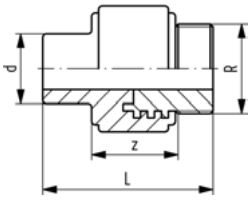




Rp [inch]	d [mm]	Code	Weight [kg]	B [mm]	D [mm]	C [mm]
½	40	**760 840 764**	0.062	22	27	13
½	50	**760 840 766**	0.061	22	27	13
¾	50	**760 840 767**	0.090	32	30	21
½	63	**760 840 768**	0.062	22	27	13
¾	63	**760 840 769**	0.090	32	30	21
½	75	**760 840 770**	0.062	22	27	13
¾	75	**760 840 771**	0.090	32	30	21
1	75	**760 840 772**	0.221	32	34	22
½	90	**760 840 773**	0.062	22	27	13
¾	90	**760 840 774**	0.090	32	30	21
1	90	**760 840 775**	0.221	32	34	22
½	110	**760 840 776**	0.062	22	27	13
¾	110	**760 840 777**	0.091	32	30	21
1	110	**760 840 778**	0.221	32	34	22

Threaded male coupling for connection

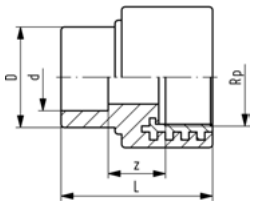




d [mm]	R [inch]	Code	Weight [kg]	z [mm]	L [mm]
20	½	**760 840 251**	0.083	21	52
25	½	**760 840 253**	0.088	21	52
25	¾	**760 840 254**	0.130	21	55
32	¾	**760 840 255**	0.168	29	65
32	1	**760 840 256**	0.323	40	77
40	1	**760 840 257**	0.235	33	78

Threaded female coupling

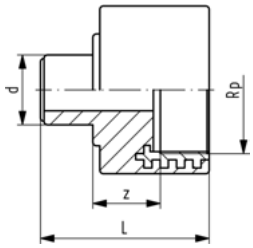




Rp [inch]	d [mm]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
½	20	**760 840 271**	0.076	13	30	42
¾	20	**760 840 272**	0.084	12	34	42
½	25	**760 840 273**	0.078	11	34	42
¾	25	**760 840 274**	0.083	10	34	42
¾	32	**760 840 275**	0.089	19	42	53
1	32	**760 840 276**	0.240	25	42	62
1	40	**760 840 269**	0.249	28	54	71
1 ¼	40	**760 840 277**	0.381	26	54	68
1 ½	50	**760 840 278**	0.441	26	68	71
2	63	**760 840 279**	0.610	26	85	80
2 ½	75	**760 840 280**	0.804	25	101	83

Threaded female coupling for connection

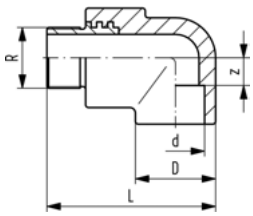




d [mm]	Rp [inch]	Code	Weight [kg]	z [mm]	L [mm]
20	½	**760 840 281**	0.066	13	40
25	½	**760 840 283**	0.075	11	40
25	¾	**760 840 284**	0.080	10	40
32	¾	**760 840 285**	0.117	19	51
32	1	**760 840 286**	0.233	26	61
40	1	**760 840 287**	0.235	24	62

Threaded male 90° elbow

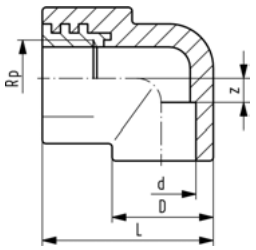




d [mm]	R [inch]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
20	½	**760 840 291**	0.093	12	29	61
20	¾	**760 840 292**	0.141	12	29	65
25	½	**760 840 293**	0.109	15	34	69
25	¾	**760 840 294**	0.153	15	34	71
32	¾	**760 840 295**	0.163	17	42	83
32	1	**760 840 296**	0.345	19	43	91

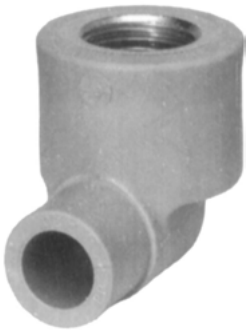
Threaded female 90° elbow

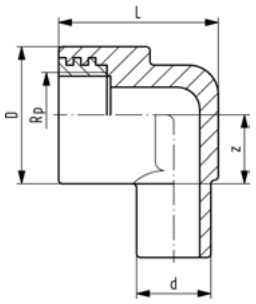




Rp [inch]	d [mm]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]
½	20	**760 840 301**	0.086	12	29	49
¾	20	**760 840 302**	0.091	12	29	49
½	25	**760 840 303**	0.098	15	34	57
¾	25	**760 840 304**	0.103	15	34	57
¾	32	**760 840 305**	0.113	17	43	69
1	32	**760 840 306**	0.256	19	44	75

Threaded female 90° elbow with spigot

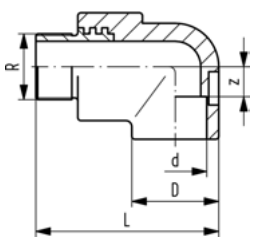




Rp [inch]	d [mm]	Code	Weight [kg]	D [mm]	z [mm]	L [mm]
½	20	**760 840 315**	0.079	37	14	43

Threaded male 90° elbow with bracket

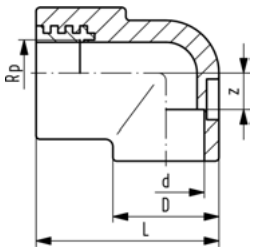




d [mm]	R [inch]	Code	Weight [kg]	L [mm]	z [mm]	D [mm]
20	½	**760 840 321**	0.096	62	12	29

Threaded female 90° elbow with bracket

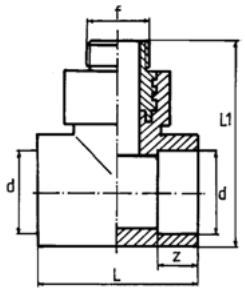




Rp [inch]	d [mm]	Code	Weight [kg]	z [mm]	L [mm]	D [mm]
½	20	**760 840 331**	0.088	12	50	29

Threaded male tee

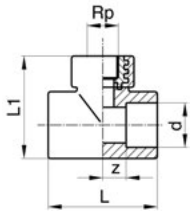




d [mm]	R [inch]	Code	Weight [kg]	z [mm]	L [mm]	L1 [mm]
20	½	**760 840 341**	0.098	11	55	64
20	¾	**760 840 342**	0.144	11	55	65
25	½	**760 840 343**	0.111	14	64	69
25	¾	**760 840 344**	0.160	14	64	72
32	¾	**760 840 345**	0.186	18	77	79
32	1	**760 840 346**	0.353	18	77	91

Threaded female tee

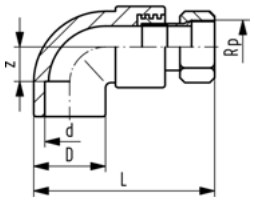




Rp [inch]	d [mm]	Code	Weight [kg]	L [mm]	L1 [mm]	z [mm]
½	20	**760 840 351**	0.087	55	50	11
¾	20	**760 840 352**	0.095	55	50	11
½	25	**760 840 353**	0.103	64	57	14
¾	25	**760 840 354**	0.109	64	57	14
½	32	**760 840 360**	0.126	77	64	18
¾	32	**760 840 355**	0.133	77	64	18
1	32	**760 840 356**	0.267	77	75	18

90° elbow for metal taper threaded

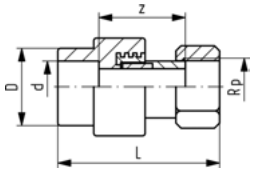




d [mm]	Rp [inch]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
20	¾	**760 840 362**	0.145	29	69	12
25	1	**760 840 365**	0.209	34	91	15
32	1 ¼	**760 840 367**	0.414	43	101	19

Adaptor union for metal taper threaded

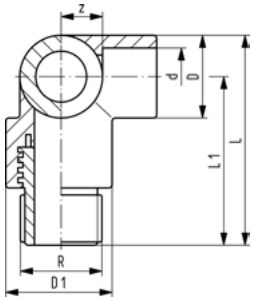




Rp [inch]	d [mm]	Code	Weight [kg]	D [mm]	L [mm]	z [mm]
¾	20	**760 840 372**	0.130	30	63	23
1	25	**760 840 375**	0.189	34	68	27
1 ¼	32	**760 840 377**	0.315	43	90	30
1 ½	40	**760 840 379**	0.647	54	102	68
2	50	**760 840 380**	0.810	68	110	72

Three-ways threaded male 90° elbow

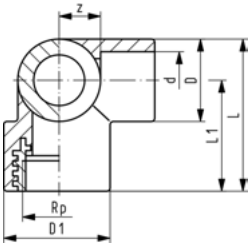




R [inch]	d [mm]	Code	Weight [kg]	D1 [mm]	L [mm]	L1 [mm]	D [mm]	z [mm]
½	20	**760 840 382**	0.096	37	63	35	29	12

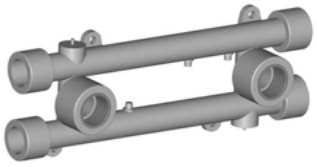
Three-ways threaded female 90° elbow

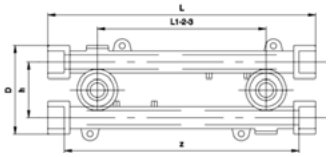




Rp [inch]	d [mm]	Code	Weight [kg]	D1 [mm]	z [mm]	L [mm]	L1 [mm]	D [mm]
½	20	**760 840 392**	0.087	37	12	50	35	29

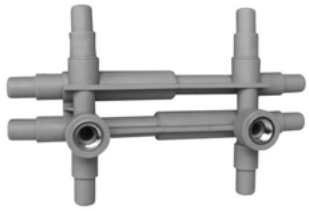
Modular distribution element





Rp [inch]	d [mm]	Code	Weight [kg]	L [mm]	L2 [mm]	z [mm]	L3 [mm]	L1 [mm]	D [mm]
½	20	**760 840 335**	0.255	248	135	220	153	100	80

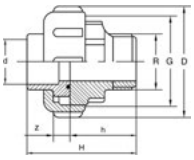
Distribution element



d-d [mm]	Rp [inch]	Code	Weight [kg]
20 - 25	½	**760 840 336**	0.422
20 - 25	¾	**760 840 337**	0.462

Adaptor union socket male threaded

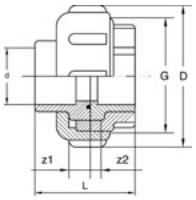




R [inch]	d [mm]	Code	Weight [kg]	G [inch]	h [mm]	D [mm]	z [mm]	H [mm]
¾	25	**760 840 702**	0.325	1 ½	41	56	8	67
1	32	**760 840 703**	0.471	2 ½	45	69	8	73
1 ¼	40	**760 840 704**	0.758	2 ½	48	83	10	80
1 ½	50	**760 840 705**	0.800	2 ¾	48	90	10	83
2	63	**760 840 706**	1.175	3 ½	54	104	10	92

Adaptor union socket-socket

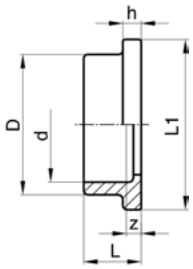




d [mm]	Code	Weight [kg]	G [inch]	L [mm]	z1 [mm]	z2 [mm]	D [mm]
25	**760 840 732**	0.215	1 ½	49	8	5	56
32	**760 840 733**	0.297	2 ½	53	8	5	69
40	**760 840 734**	0.474	2 ½	59	10	5	83
50	**760 840 735**	0.510	2 ¾	65	10	5	90
63	**760 840 736**	0.753	3 ½	71	10	5	110

Flange adaptor





d [mm]	Code	Weight [kg]	L1 [mm]	z [mm]	D [mm]	L [mm]
25	**760 840 414**	0.012	41	5	33	23
32	**760 840 415**	0.018	50	5	41	25
40	**760 840 416**	0.024	61	5	50	27
50	**760 840 417**	0.046	74	8	61	33
63	**760 840 418**	0.084	91	8	76	37
75	**760 840 419**	0.140	107	8	90	39
90	**760 840 420**	0.213	126	10	106	46
110	**760 840 421**	0.240	150	7	131	49
125	**760 840 422**	0.363	162	15	146	55

Transition coupler PPR-iFIT



d1 [mm]	d [mm]	Code	Weight [kg]
16 - 20	20	**760 840 741**	0.086
16 - 20	25	**760 840 742**	0.088
25 - 32	25	**760 840 743**	0.134
25 - 32	32	**760 840 744**	0.137

Transition saddle PPR-iFIT

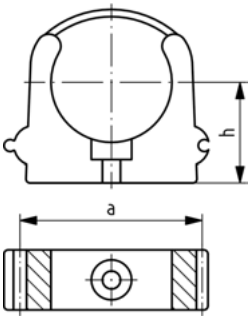


d1 [mm]	d [mm]	Code	Weight [kg]
16 - 20	40	**760 840 751**	0.110
16 - 20	50	**760 840 753**	0.110
25 - 32	50	**760 840 754**	0.130
16 - 20	63	**760 840 755**	0.110
25 - 32	63	**760 840 756**	0.130
16 - 20	75	**760 840 757**	0.110
25 - 32	75	**760 840 758**	0.130
16 - 20	90	**760 840 759**	0.110
25 - 32	90	**760 840 760**	0.130
16 - 20	110	**760 840 761**	0.110
25 - 32	110	**760 840 762**	0.130

Accessories

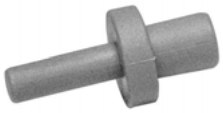
Pipe clamp

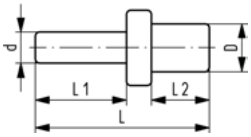




	Code	Weight [kg]	HoH +/- 2mm [mm]
*	**167 061 036**	0.007	21
	167 061 037	0.009	27
	167 061 038	0.012	37
	167 061 039	0.027	44
	167 061 040	0.031	52
	167 061 041	0.052	67
	167 061 012	0.057	
	167 061 013	0.092	
	167 061 014	0.117	
	167 061 015	0.180	

Repairing hole plug

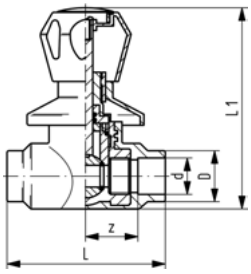




di [mm]	Code	Weight [kg]	L2 [mm]	D [mm]	L1 [mm]	L [mm]
8	**760 840 425**	0.001	14	11	22	42

Stop cock with handle

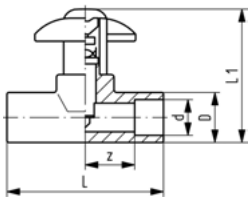




d [mm]	Code	Weight [kg]	L1 [mm]	L [mm]	D [mm]	z [mm]
20	**760 840 462**	0.359	114	77	28	22
25	**760 840 463**	0.384	118	87	36	25
32	**760 840 464**	0.494	119	90	43	25

Stop cock tap





d [mm]	Code	Weight [kg]	D [mm]	L1 [mm]	L [mm]	z [mm]
20	**760 840 432**	0.234	28	91	77	22
25	**760 840 433**	0.292	36	91	87	25
32	**760 840 434**	0.309	43	98	90	25

Handle for cock



d [mm]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]	L1 [mm]
20 - 25 - 32	**760 840 436**	0.266	16 - 18	36	87	121

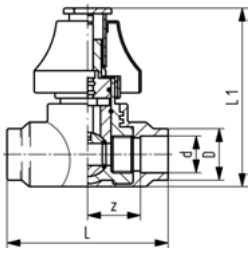
Extension for cock



d [mm]	Code	Weight [kg]	z [mm]	D [mm]	L [mm]	L1 [mm]
20 - 25 - 32	**760 840 438**	0.096	16 - 18	36	87	130

Ball valve

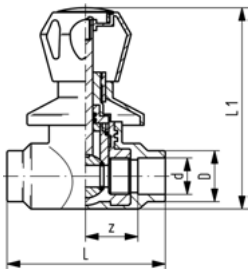




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	z [mm]
20	**760 840 444**	0.393	28	86	100	27
25	**760 840 445**	0.404	33	98	100	31

Ball valve with handle

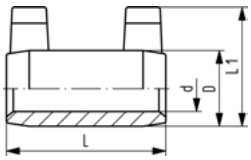




d [mm]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	z [mm]
20	**760 840 447**	0.511	28	86	105	27
25	**760 840 448**	0.522	33	98	105	31

Electric socket





d [mm]	Code	Weight [kg]	L1 [mm]	D [mm]	L [mm]
20	**760 840 452**	0.045	50	33	70
25	**760 840 453**	0.050	57	38	70
32	**760 840 454**	0.070	62	46	79
40	**760 840 455**	0.100	71	55	90
50	**760 840 456**	0.155	82	67	100
63	**760 840 457**	0.215	101	86	106
75	**760 840 458**	0.415	115	103	121
90	**760 840 459**	0.580	134	121	131
110	**760 840 460**	0.790	156	142	142
125	**760 840 461**	1.060	175	163	151

Machine and tools



MSA 250 EX MULTI PLUS
Automatic Electrofusion Unit

INSTAFLEX BIG/ELGEF/FUSEAL
Including transportation case
Including Barcodescanner
Only avaiable in 230V

d-d [mm]	Code	Weight [kg]	Type	
125 - 225	**761 069 007**	16.985	MSA 250 EX MULTI	



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 [mm]	Code	Weight [kg]	
16 - 63	**760 840 518**	2.400	
16 - 63	**760 840 519**	2.400	
16 - 110	**760 840 521**	3.800	



Bench holder

	Code	Weight [kg]	
	760 840 524	0.580	



Suitcase

	Code	Weight [kg]	
	760 840 533	3.000	



Complete socket welder
PF63R manual welding with electromechanical thermo-stat, 700W - 230V

Model:

- Heating tools 20-32
- Fork holder
- Empty box

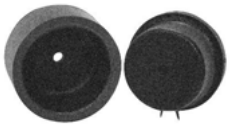
d-d [mm]	Code	Weight [kg]	
20 - 32	**760 840 540**	8.300	



SG 125, 230 V

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP, PE, PB and PVDF pipes and fittings; dimension 20 - 125 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **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.
- V-shaped pipe support d 20 - 125 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
20 - 125	230 V/1500 W	**790 310 034**	50.000	



Set of heating tools for welder

d [mm]	Code	Weight [kg]	
20	**760 840 562**	0.001	
25	**760 840 563**	0.001	
32	**760 840 564**	0.001	
40	**760 840 565**	0.001	
50	**760 840 566**	0.001	
63	**760 840 567**	0.001	
75	**760 840 568**	0.001	
90	**760 840 569**	0.001	
110	**760 840 570**	0.001	



Hole mender

d [mm]	Code	Weight [kg]	
8	**760 840 481**	0.050	
12	**760 840 482**	0.050	



Set of heating tools for saddles

d [mm]	Code	Weight [kg]	
40 - 20 - 25	**760 840 585**	0.209	
50 - 20 - 25	**760 840 586**	0.223	
63 - 20 - 25	**760 840 587**	0.223	
75 - 20 - 25	**760 840 588**	0.231	
90 - 20 - 25	**760 840 589**	0.231	
110 - 20 - 25	**760 840 590**	0.233	
125 - 20 - 25	**760 840 591**	0.250	
50 - 32 - 40	**760 840 592**	0.285	
63 - 32 - 40	**760 840 593**	0.317	

table continued next page

d [mm]	Code	Weight [kg]
75 - 32 - 40	**760 840 594**	0.322
90 - 32 - 40	**760 840 595**	0.322
110 - 32 - 40	**760 840 596**	0.334
125 - 32 - 40	**760 840 597**	0.350



Milling cutter for saddles with spigot

d [mm]	Code
20 - 25	**760 840 600**
32	**760 840 601**



Thermostatic pencil

Code	Weight [kg]
799 496 008	0.169
799 496 009	0.013





Cutting nippers

d [mm]	Code	Weight [kg]
20 - 32	**760 840 484**	0.510
20 - 75	**760 840 486**	2.700



Pipe cutter

d-d [mm]	Code	Weight [kg]
20 - 75	**760 840 505**	0.680
50 - 110	**760 840 506**	1.380

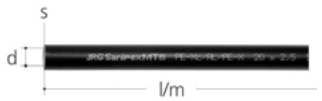
JRG Sanipex MT

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Pipes

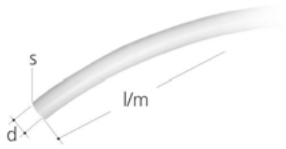
JRG Sanipex MT pipe in bars



in bars, multilayer pipe (PE-X/AL/PEX), according DVGW W542 and EN ISO 21003, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	L [m]	s [mm]
16	12	**4600.016**	**351 616 702**	0.675	5	2.25
20	15	**4600.020**	**351 620 702**	0.925	5	2.50
26	20	**4600.026**	**351 626 702**	1.425	5	3.00
32	25	**4600.032**	**351 632 702**	1.965	5	3.00
40	32	**4600.040**	**351 640 902**	3.025	5	3.50
50	40	**4600.050**	**351 650 902**	0.886	5	4.00
63	50	**4600.063**	**351 663 902**	1.265	5	4.50
16	12	**4600.316**	**351 616 712**	0.405	3	2.25
20	15	**4600.320**	**351 620 712**	0.555	3	2.50
26	20	**4600.326**	**351 626 712**	0.855	3	3.00
32	25	**4600.332**	**351 632 712**	1.179	3	3.00
40	32	**4600.340**	**351 640 912**	0.605	3	3.50

JRG Sanipex MT pipe in coils

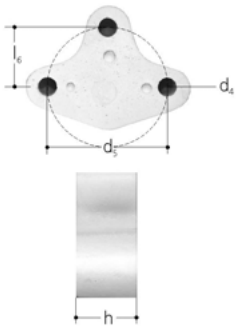


in coils, multilayer pipe, (PE-X/AL/PE-X) according DVGW W542 and EN ISO 21003, inner pex pipe (white) and outer pex coating (white) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, for drinking water 70°C/10 bar, heating max. 95°C and compressed air installations 40°C/15 bar (dry and oil free)

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	L [m]	s [mm]	kg/m [kg/m]
12	10	**4604.112**	**351 612 014**	6.900	100	1.70	0.069
16	12	**4604.016**	**351 616 714**	6.650	50	2.25	0.133
20	15	**4604.020**	**351 620 714**	9.850	50	2.50	0.197
26	20	**4604.026**	**351 626 714**	14.900	50	3.00	0.298
32	25	**4604.032**	**351 632 714**	19.650	50	3.00	0.393

Fittings

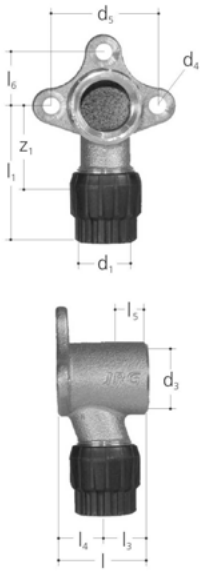
Distance piece



made of plastic, for fitting connector 4610, 4613, 5533, 5534, 762101018, 762101019, 762101022, 762101070, 762101071 axis distance d16/d20 = 32 mm, d26 = 37 mm

JRG Code	GF Code	Weight [kg]	d4 [mm]	d5 [mm]	h [mm]	l6 [mm]
4610.090	**351 515 002**	0.030	6.4	40	20	20

Fitting connector, single

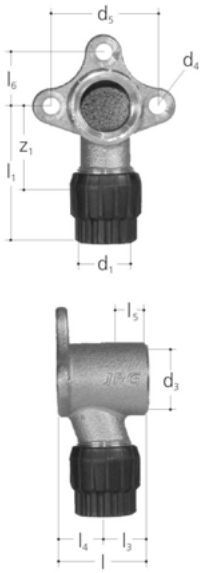


made of gunmetal, with female thread and plastic cone grip union MT, for surface mounting as for installation pre-installed systems and element use, 4610.135/.150/.180/.195/.235/.350 for JRG Sanipex and JRG Sanipex MT pipes, 4610.450 for JRG Sanipex MT pipes, sound insulation to 4610 see 5409.010, Sealing gasket to 4610 see 5409.012, Distance piece to 4610 see 4610.090

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16	½	**4610.135**	**351 616 993**	0.129
16	½	**4610.150**	**351 616 943**	0.200
16	½	**4610.180**	**351 616 944**	0.222
16	½	**4610.195**	**351 616 958**	0.260
20	½	**4610.235**	**351 620 990**	0.140
20	¾	**4610.350**	**351 620 991**	0.185
26	¾	**4610.450**	**351 626 992**	0.210

d [mm]	GN [inch]	d1 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	L [m]	l [mm]	l1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	l6 [mm]	z1 [mm]
16	½	16	½	6.5	40	34	35	49	17	17	15	20	31
16	½	16	½	6.5	40	52	50	52	35	17	25	20	34
16	½	16	½	6.5	40	90	80	52	63	17	43	20	34
16	½	16	½	6.5	40	95	95	52	78	17	58	20	34
20	½	20	½	6.5	40	34	35	54	16	18	15	20	30
20	¾	20	¾	6.5	40	50	50	53	32	18	17	20	29
26	¾	26	¾	6.5	40	50	50	62	28	22	17	20	31

Fitting connector, single, internally coated

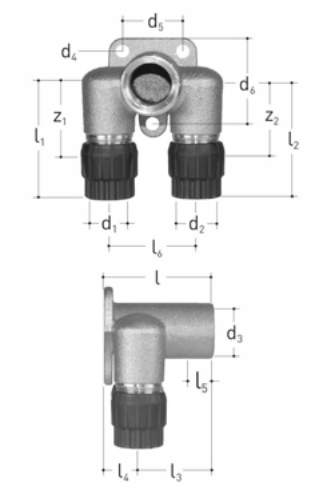


made of gunmetal, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 mµ, for fully desalinated water up to 30°C, with female thread and plastic cone grip union MT, for surface mounting as for installation pre-installed systems and element use, for 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

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16	½	**4610.137**	**351 616 593**	0.130
20	½	**4610.237**	**351 620 590**	0.150
20	¾	**4610.357**	**351 620 591**	0.190

table continued next page

d [mm]	GN [inch]	d1 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	l [mm]	l1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	l6 [mm]	z1 [mm]
16	½	16	½	7	49	35	49	35	17	15	20	31
20	½	20	½	7	52	35	52	35	17	15	20	30
20	¾	20	¾	7	40	50	51	33	17	17	20	29



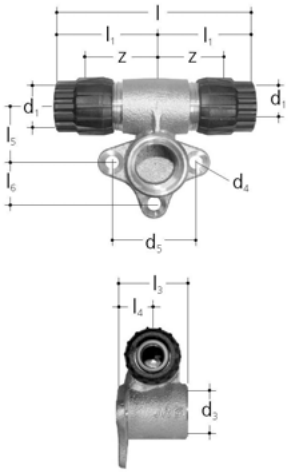
Fitting connector, double

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

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16	½	**4611.150**	**351 616 945**	0.270
20 - 16	½	**4611.160**	**351 620 949**	0.325
20 - 20	½	**4611.170**	**351 620 948**	0.400
16 - 16	½	**4611.180**	**351 616 946**	0.400
26 - 26	½	**4611.250**	**351 626 931**	0.440

d-d [mm]	GN [inch]	d1 [mm]	d2 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	d6 [mm]	l [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	l6 [mm]
16 - 16	½	16	16	½	6.5	28	34	50	52	52	35	17	25	40
20 - 16	½	16	20	½	6.5	28	34	50	55	62	62	17	25	44
20 - 20	½	20	20	½	6.5	28	34	50	62	62	37	17	25	50
16 - 16	½	16	16	½	6.5	28	34	80	52	52	63	17	43	40
26 - 26	½	26	26	½	6.5	28	34	50	70	70	32	22	25	50

d-d [mm]	GN [inch]	z1 [mm]	z2 [mm]
16 - 16	½	34	34
20 - 16	½	37	39
20 - 20	½	39	39
16 - 16	½	34	34
26 - 26	½	40	40



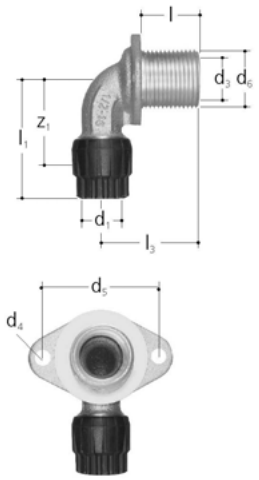
Fitting connector, double

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

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16	½	**4613.100**	**351 616 947**	0.210
20 - 20	½	**4613.200**	**351 620 947**	0.260

d-d [mm]	GN [inch]	d1 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	l [mm]	l1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	l6 [mm]	z [mm]
16 - 16	½	16	½	7	40	88	44	34	17	26	20	25
20 - 20	½	20	½	7	40	104	52	34	17	26	20	30

Wall penetration, single

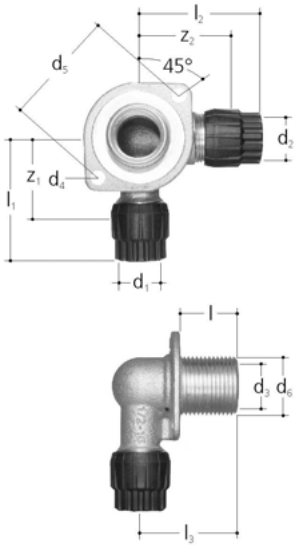


made of gunmetal, with female and male thread for fixation plastic cone grip union MT for JRG Sanipex and JRG Sanipex MT pipes, for wooden walls, gypsum boards and prefabricated elements fixing accessories to 4620 see 5539

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16	½	**4620.125**	**351 616 950**	0.140
16	½	**4620.140**	**351 616 951**	0.170
16	½	**4620.155**	**351 616 952**	0.190
16	½	**4620.165**	**351 616 953**	0.230

d [mm]	GN [inch]	d1 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	d6 G [inch]	l [mm]	l1 [mm]	l3 [mm]	z1 [mm]
16	½	16	½	7	50	¾	25	51	42	32
16	½	16	½	7	50	¾	40	51	57	32
16	½	16	½	7	50	¾	55	51	72	32
16	½	16	½	7	50	¾	65	51	82	32

Wall penetration, double

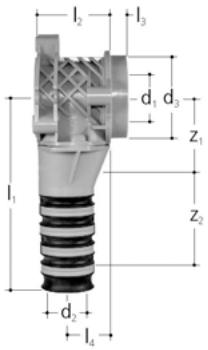


made of gunmetal, with female and male thread for fixation plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes for wooden walls, gypsum boards and prefabricated elements fixing accessories to 4621 see 5539

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16	½	**4621.125**	**351 616 954**	0.216
16 - 16	½	**4621.140**	**351 616 955**	0.241
16 - 16	½	**4621.155**	**351 616 956**	0.263

d-d [mm]	GN [inch]	d1 [mm]	d2 [mm]	d3 Rp [inch]	d4 [mm]	d5 [mm]	d6 G [inch]	l [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]
16 - 16	½	16	16	½	7	50	¾	25	55	55	42	36	36
16 - 16	½	16	16	½	7	50	¾	40	55	55	57	36	36
16 - 16	½	16	16	½	7	50	¾	55	55	55	72	36	36

JRG Sanipex MT Box 90°

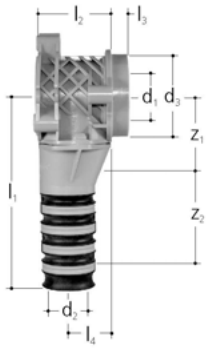


box body in two parts made of plastic, gunmetal bend with female thread and plastic cone grip union MT with flexible box foot, for JRG Sanipex and JRG Sanipex MT pipes, Box d16 with grey thread ring, d20 with blue thread ring, Box extension for tight application to 4630 see 5409.060, sealing gasket for 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

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16	½	**4630.100**	**351 616 960**	0.190
20	½	**4630.200**	**351 620 960**	0.210
20	½	**4630.300**	**351 620 961**	0.210

table continued next page

d [mm]	GN [inch]	d1 Rp [inch]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	z1 [mm]	z2 [mm]
16	½	½	25	47	108	42	9	24	36	60
20	½	½	29	47	108	42	9	21	36	70
20	½	½	29	47	108	42	9	21	36	70

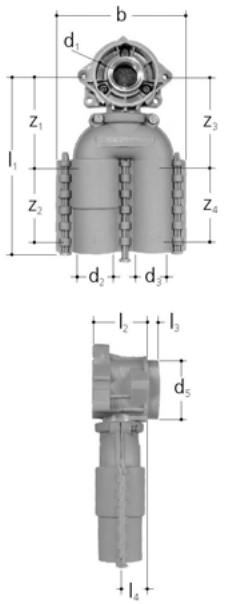


JRG Sanipex MT Box 90°, internally coated

box body in two parts made of plastic, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 mµ, for fully desalinated water up to 30°C, 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, 5741.001, 5741.020, 5471.030, 5741.032, 5741.050, 5741.090/.091, 5755.005, protection and pressure plug to 4630 see 5409, 5741.092/.093, fixing accessories to 4630, 4634, 4635, see 5409.001, 5409.002, 5409.004, 5409.005/.006, 5755.001

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16	½	**4630.107**	**351 616 560**	0.195
20	½	**4630.207**	**351 620 560**	0.210
20	½	**4630.307**	**351 620 561**	0.210

d [mm]	GN [inch]	d1 Rp [inch]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	z1 [mm]	z2 [mm]
16	½	½	25	47	108	42	9	24	36	60
20	½	½	29	47	108	42	9	21	36	70
20	½	½	29	47	108	42	9	21	36	70



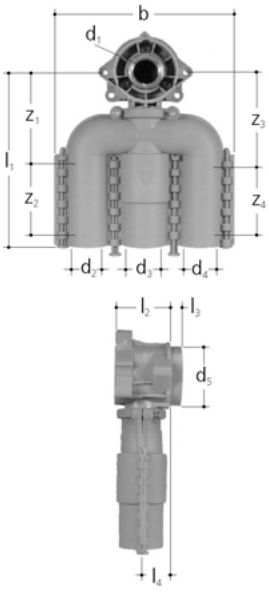
JRG Sanipex MT Box 2-way 90°

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 4634, see 5741, 5741.001, 5741. 020, 5471.030, 5741.032, 5741.050, 5741.090/.091, 5755.05, protection and pressure plug to 4630, 4634, 4635, see 5409, 5741.092/.093, fixing accessories to 4634 see 5409.001, 5409.002, 5409.004, 5409.005/.006, 5755.001

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16	½	**4634.100**	**351 616 963**	0.390
20 - 20	½	**4634.200**	**351 620 963**	0.360
20 - 20	½	**4634.300**	**351 620 962**	0.395

d-d [mm]	GN [inch]	d1 Rp [inch]	d2 [mm]	d3 [mm]	d5 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	z1 [mm]	z2 [mm]	z3 [mm]	z4 [mm]	b [mm]
16 - 16	½	½	25	25	47	134	42	9	21	68	60	68	60	100
20 - 20	½	½	29	25	47	134	42	9	21	73	50	73	50	100
20 - 20	½	½	29	29	47	134	42	9	21	73	50	73	50	110

JRG Sanipex MT Box 3-way 90°



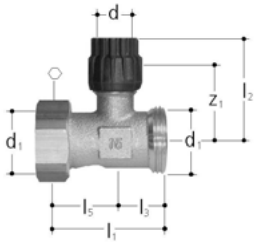
box body made of plastic, distributor made of gunmetal, with female thread and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes, box bracket and bar gauge to 4635 see 5741, 5741.001, 5741.0020, 5471.030, 5741.032, 5741.050, 5741.090/.091, 5755.005, protection and pressure plug to 4635 see 5409, 5741.092/.093, fixing accessories to 4634 see 5409.001, 5409.002, 5409.004, 5409.005/.006, 5755.001

d-d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16 - 16	½	**4635.100**	**351 616 964**	0.440
16 - 20 - 16	½	**4635.200**	**351 620 964**	0.450

d-d-d [mm]	b [mm]	d1 Rp [inch]	d2 [mm]	d3 [mm]	d4 [mm]	d5 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
16 - 16 - 16	140	½	25	25	25	47	134	42	9	21	68	60	68
16 - 20 - 16	140	½	25	29	25	47	134	42	9	21	68	60	73

d-d-d [mm]	z4 [mm]
16 - 16 - 16	60
16 - 20 - 16	70

Distributor 1-way



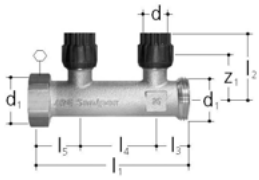
made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip union MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.

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, fixing accessories to 4640 see 5738, 5738, 5739, 5740, 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 [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	l5 [mm]	z1 [mm]	M
16	**4640.116**	**351 616 965**	0.210	1	55	50	24	31	31	37
20	**4640.120**	**351 620 965**	0.210	1	55	60	24	31	38	37

Distributor 2-way



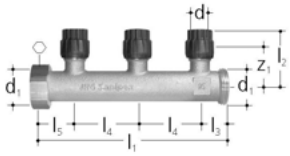
made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.

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 [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	z1 [mm]	M
16	**4640.216**	**351 616 966**	0.320	1	110	50	24	55	31	31	37
20	**4640.220**	**351 620 966**	0.465	1	110	60	24	55	31	38	37

Distributor 3-way



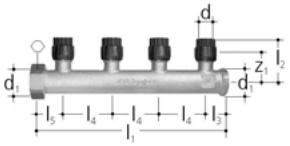
made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.

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, Fixing accessories to 4640 see 5758, 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 [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	z1 [mm]	M
16	**4640.316**	**351 616 967**	0.515	1	165	50	24	55	31	31	37
20	**4640.320**	**351 620 967**	0.490	1	165	60	24	55	31	38	37

Distributor 4-way



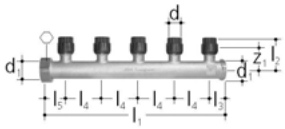
made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.

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, Fixing accessories to 4640 see 5738, 5739, 5740, 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 [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	z1 [mm]	M
16	**4640.416**	**351 616 968**	0.590	1	220	50	24	55	31	31	37

Distributor 5-way

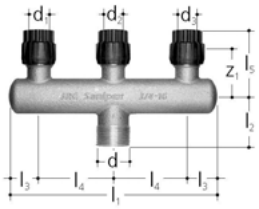


made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.

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, Fixing accessories to 4640 see 5738, 5739, 5740, 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 [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	z1 [mm]	M
16	**4640.516**	**351 616 969**	0.700	1	275	50	24	55	31	31	37

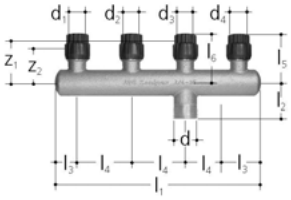


Concealed distributor 3-way

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. Marking sleeve to distributor 4645 see 5734, heat insulation to 4645 see 5758. Accessories to protection cover to 4645 see 5758.001 - .004, 5758.009, fixing accessories to 4645 see 5738, 5739, 5740, 5754

d-d-d [mm]	d R [inch]	JRG Code	GF Code	Weight [kg]
16 - 16 - 16	¾	**4645.050**	**351 616 970**	0.430

d-d-d [mm]	d R [inch]	d1 [mm]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	z1 [mm]
16 - 16 - 16	¾	16	16	16	155	37	23	55	50	31



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. Marking sleeve to distributor 4645 see 5734, Heat insulation to 4645 see 5758, Accessories to protection cover to 4645 see 5758.001 - .004, 5758.009 Fixing accessories to 4645 see 5738, 5738.001, 5739, 5740, 5740.010, 5754

d-d-d-d [mm]	d R [inch]	JRG Code	GF Code	Weight [kg]
16 - 16 - 16 - 16	¾	**4645.100**	**351 616 971**	0.620
16 - 16 - 20 - 16	¾	**4645.200**	**351 620 971**	0.560

d-d-d-d [mm]	d R [inch]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	l6 [mm]	z1 [mm]	z2 [mm]
16 - 16 - 16 - 16	¾	16	16	16	16	210	37	23	55	50			31
16 - 16 - 20 - 16	¾	16	16	20	16	210	37	23	55	50	60	38	31

Tee



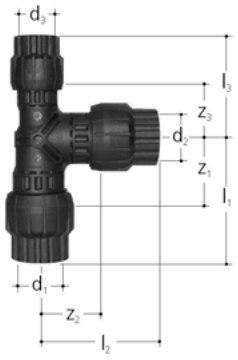
made of plastic, two layer technology,inner lining made of PPSU and cover made of PA, plastic cone grip unions MTfor JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d-d-d [mm]	JRG Code	GF Code	Weight [kg]
16 - 16 - 16	**4650.016**	**351 616 921**	0.040
20 - 20 - 20	**4650.020**	**351 620 921**	0.070
26 - 26 - 26	**4650.026**	**351 626 921**	0.130
32 - 32 - 32	**4650.032**	**351 632 921**	0.220
40 - 40 - 40	**4650.040**	**351 640 921**	0.420
50 - 50 - 50	**4650.050**	**351 650 821**	0.660
63 - 63 - 63	**4650.063**	**351 663 821**	1.295



d-d-d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
16 - 16 - 16	16	16	16	46	46	46	27	27	27
20 - 20 - 20	20	20	20	55	55	55	31	31	31
26 - 26 - 26	26	26	26	68	68	68	31	31	31
32 - 32 - 32	32	32	32	82	82	82	45	45	45
40 - 40 - 40	40	40	40	99	99	99	55	55	55
50 - 50 - 50	50	50	50	114	114	114	64	64	64
63 - 63 - 63	63	63	63	142	142	142	79	79	79

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

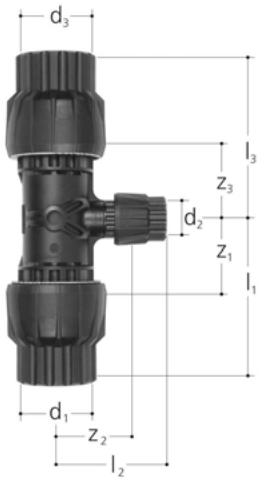
d-d-d [mm]	JRG Code	GF Code	Weight [kg]
20 - 16 - 16	**4652.110**	**351 620 924**	0.050
20 - 16 - 20	**4652.112**	**351 620 926**	0.060
20 - 20 - 16	**4652.114**	**351 620 927**	0.060
26 - 16 - 26	**4652.214**	**351 626 924**	0.100
26 - 20 - 20	**4652.218**	**351 626 928**	0.095
26 - 20 - 26	**4652.220**	**351 626 925**	0.110
26 - 26 - 20	**4652.222**	**351 626 929**	0.110
32 - 16 - 32	**4652.316**	**351 632 924**	0.170
32 - 20 - 32	**4652.324**	**351 632 928**	0.180
32 - 26 - 26	**4652.330**	**351 632 930**	0.170
32 - 26 - 32	**4652.332**	**351 632 929**	0.181
40 - 26 - 32	**4652.426**	**351 640 932**	0.280
40 - 26 - 40	**4652.428**	**351 640 928**	0.330
40 - 32 - 32	**4652.436**	**351 640 931**	0.312
40 - 32 - 40	**4652.438**	**351 640 930**	0.360

d-d-d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
20 - 16 - 16	20	16	16	55	48	46	31	29	27
20 - 16 - 20	20	16	20	55	48	55	31	29	31
20 - 20 - 16	20	20	16	55	55	48	31	31	29
26 - 16 - 26	26	16	26	68	52	68	39	33	39
26 - 20 - 20	26	20	20	68	59	55	39	35	31
26 - 20 - 26	26	20	26	68	59	68	39	35	39
26 - 26 - 20	26	26	20	68	68	59	39	39	35
32 - 16 - 32	32	16	32	82	57	82	45	38	45
32 - 20 - 32	32	20	32	82	64	82	45	40	45

table continued next page

d-d-d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
32 - 26 - 26	32	26	26	82	73	68	45	44	39
32 - 26 - 32	32	26	32	82	73	82	45	44	45
40 - 26 - 32	40	26	32	99	79	82	55	50	45
40 - 26 - 40	40	26	40	99	79	99	55	50	55
40 - 32 - 32	40	32	32	99	89	82	55	52	45
40 - 32 - 40	40	32	40	99	89	99	55	52	55

Tee reduced

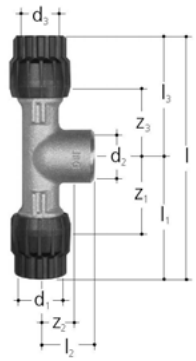


made of plastic, two layer technology,inner lining made of PPSU and cover made of PA, plastic cone grip unions MTfor JRG Sanipex MT pipes

d-d-d [mm]	JRG Code	GF Code	Weight [kg]
50 - 26 - 50	**4652.530**	**351 650 827**	0.500
50 - 32 - 50	**4652.534**	**351 650 828**	0.525
50 - 40 - 40	**4652.544**	**351 650 829**	0.490
50 - 40 - 50	**4652.546**	**351 650 830**	0.570
63 - 26 - 63	**4652.634**	**351 663 828**	0.925
63 - 32 - 63	**4652.638**	**351 663 829**	0.955
63 - 40 - 63	**4652.642**	**351 663 830**	1.000
63 - 50 - 63	**4652.656**	**351 663 831**	1.105

d-d-d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
50 - 26 - 50	50	26	50	114	75	114	63	46	63
50 - 32 - 50	50	32	50	114	85	114	63	48	63
50 - 40 - 40	50	40	40	114	96	96	63	52	52
50 - 40 - 50	50	40	50	114	96	114	63	52	63
63 - 26 - 63	63	26	63	142	84	142	79	55	79
63 - 32 - 63	63	32	63	142	94	142	79	57	79
63 - 40 - 63	63	40	63	142	104	142	79	60	79
63 - 50 - 63	63	50	63	142	120	142	79	69	79

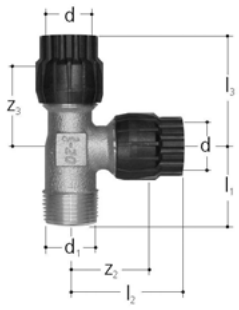
Tee with female thread, internally coated



made of gunmetal, with female thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 mµ, for fully desalinated water up to 30°C, and plastic cone grip unions MT for JRG Sanipex MT pipes

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]
16 - 16	½	**4654.117**	**351 616 544**	0.140
20 - 20	½	**4654.217**	**351 620 544**	0.190
26 - 26	½	**4654.227**	**351 626 544**	0.275
26 - 26	¾	**4654.257**	**351 626 545**	0.290
32 - 32	¾	**4654.317**	**351 632 545**	0.430

d-d [mm]	GN [inch]	d1 [mm]	d2 Rp [inch]	d3 [mm]	l [mm]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	z2 [mm]	z3 [mm]
16 - 16	½	16	½	16	108	54	27	54	35	12	35
20 - 20	½	20	½	20	125	63	28	63	39	13	39
26 - 26	½	26	½	26	149	70	34	70	41	19	41
26 - 26	¾	26	¾	26	149	70	34	70	41	18	41
32 - 32	¾	32	¾	32	182	86	34	86	49	18	49



T-pce. with male thread

made of gunmetal, with male thread, and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

d-d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 Rp [inch]	l1 [mm]	l2 [mm]	l3 [mm]	z2 [mm]	z3 [mm]
16 - 16	½	**4655.100**	**351 616 972**	0.145	½	29	44	44	26	26
16 - 16	¾	**4655.200**	**351 616 973**	0.135	¾	35	44	44	26	26
20 - 20	¾	**4655.220**	**351 620 973**	0.270	¾	35	52	52	30	30





Elbow 90°

made of plastic, two layer technology,inner lining made of PPSU and cover made of PA, plastic cone grip unions MTfor JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]
16	**4670.016**	**351 616 922**	0.030	46	46	27	27
20	**4670.020**	**351 620 922**	0.045	55	55	31	31
26	**4670.026**	**351 626 922**	0.090	68	68	39	39
32	**4670.032**	**351 632 922**	0.155	82	82	45	45
40	**4670.040**	**351 640 922**	0.285	99	99	55	55
50	**4670.050**	**351 650 822**	0.455	114	114	63	63
63	**4670.063**	**351 663 822**	0.880	142	142	79	79



Elbow 90°

made of plastic, two layer technology,inner lining made of PPSU and cover made of PA, plastic cone grip unions MTfor JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]
50	**4670.050**	**351 650 822**	0.455	114	114	63	63
63	**4670.063**	**351 663 822**	0.880	142	142	79	79



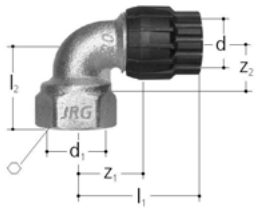
Elbow 90° with loose nut

made of gunmetal, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	a [mm]	b [mm]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]	M
16	**4670.216**	**351 616 917**	0.111	73	16	53	46	46	27	25
20	**4670.220**	**351 620 917**	0.180	89	20	67	55	58	31	30
26	**4670.226**	**351 626 948**	0.300	106	26	78	68	67	39	36

table continued next page

d [mm]	JRG Code	GF Code	Weight [kg]	a [mm]	b [mm]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]	M
32	**4670.232**	**351 632 963**	0.120	128	32	96	82	83	45	43
40	**4670.240**	**351 640 946**	0.860	150	40	110	99	95	55	50
50	**4670.250**	**351 650 934**	1.200	157	50	115	114	94	63	60
63	**4670.263**	**351 663 934**	2.110	188	63	138	142	138	142	70



Elbow 90° with female thread

made of gunmetal, with female thread plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

GN [inch]	JRG Code	GF Code	Weight [kg]	d1 Rp [inch]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]	M
⅜	**4671.100**	**351 616 918**	0.072	⅜	46	27	27	17	25
½	**4671.110**	**351 616 974**	0.100	½	43	33	25	17	27
½	**4671.210**	**351 620 918**	0.120	½	55	34	31	21	30
¾	**4671.220**	**351 620 974**	0.140	¾	56	36	30	22	32
¾	**4671.250**	**351 626 949**	0.180	¾	68	37	39	23	36
1	**4671.310**	**351 632 964**	0.310	1	85	45	45	28	43
1 ¼	**4671.410**	**351 640 947**	0.500	1 ¼	99	50	55	31	50
1 ½	**4671.510**	**351 650 935**	0.770	1 ½	114	59	63	40	60
2	**4671.610**	**351 663 935**	1.350	2	142	67	79	44	70



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

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	l2 [mm]	z1 [mm]	M
16	½	**4672.110**	**351 616 975**	0.070	½	44	31	25	18
20	½	**4672.210**	**351 620 975**	0.092	½	50	33	27	21
20	¾	**4672.220**	**351 620 976**	0.106	¾	52	35	30	21
26	¾	**4672.250**	**351 626 993**	0.180	¾	69	54	39	27
32	1	**4672.310**	**351 632 994**	0.280	1	83	60	45	32
40	1 ¼	**4672.410**	**351 640 994**	0.480	1 ¼	106	74	55	46
50	1 ½	**4672.510**	**351 650 994**	0.779	1 ½	111	62	60	50



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

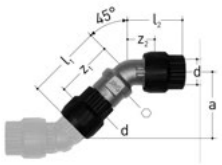
d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 G [inch]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]
16	**4674.016**	**351 563 023**	0.091	16	½	46	32	27	22



Elbow 45°

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

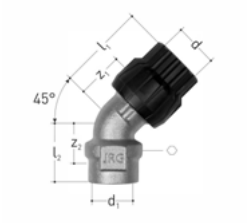
d [mm]	JRG Code	GF Code	Weight [kg]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]
20	**4676.020**	**351 620 923**	0.041	45	45	21	21
26	**4676.026**	**351 626 923**	0.075	56	56	27	27
32	**4676.032**	**351 632 923**	0.128	69	69	32	32
40	**4676.040**	**351 640 923**	0.260	81	81	37	37
50	**4676.050**	**351 650 823**	0.440	98	98	47	47
63	**4676.063**	**351 663 823**	0.840	119	119	56	56



Elbow 45° with loose nut

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 [mm]	JRG Code	GF Code	Weight [kg]	a [mm]	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]	M
26	**4676.226**	**351 626 950**	0.295	65	76	58	65	27	36
32	**4676.232**	**351 632 965**	0.480	72	82	72	70	32	43
40	**4676.240**	**351 640 948**	0.790	84	96	84	82	37	50
50	**4676.250**	**351 650 936**	1.130	90	98	98	80	48	60
63	**4676.263**	**351 663 936**	2.010	111	121	119	101	57	70



Elbow 45° with female thread

made of gunmetal, with female thread plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	d1	l1 [mm]	l2 [mm]	z1 [mm]	z2 [mm]	M
26	**4677.250**	**351 626 951**	0.180	3/4	58	35	27	21	36
32	**4677.310**	**351 632 966**	0.270	1	72	32	32	15	43
40	**4677.410**	**351 640 949**	0.430	1 1/4	84	37	37	18	50
50	**4677.510**	**351 650 937**	0.700	1 1/2	98	42	48	23	60
63	**4677.610**	**351 663 937**	1.230	2	119	50	57	27	70



Coupling

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 [mm]	JRG Code	GF Code	Weight [kg]	l1 [mm]	z1 [mm]
16	**4690.016**	**351 616 920**	0.026	76	37
20	**4690.020**	**351 620 920**	0.040	90	42
26	**4690.026**	**351 626 920**	0.077	108	50
32	**4690.032**	**351 632 920**	0.190	127	53
40	**4690.040**	**351 640 920**	0.240	150	62
50	**4690.050**	**351 650 820**	0.385	166	64
63	**4690.063**	**351 663 820**	0.740	205	79

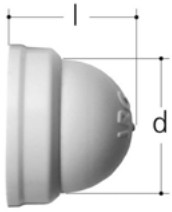
Double union



from JRG Sanipex MT pipe, prefabricated with two plastic cone grip unions MT, for JRG Sanipex components

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
16	**4692.016**	**351 616 940**	0.019	35
20	**4692.020**	**351 620 940**	0.031	46
26	**4692.026**	**351 626 940**	0.060	57
32	**4692.032**	**351 632 940**	0.108	72
40	**4692.040**	**351 640 940**	0.190	84
50	**4692.050**	**351 650 940**	0.330	104
63	**4692.063**	**351 663 940**	0.610	126

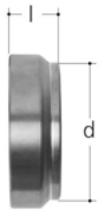
Cap



made of PPSU plastic, as lasting plug for plastic cone grip union MT for JRG Sanipex MT components

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
16	**4695.016**	**351 616 904**	0.002	16
20	**4695.020**	**351 620 904**	0.003	19
26	**4695.026**	**351 626 904**	0.007	24
32	**4695.032**	**351 632 904**	0.012	28
40	**4695.040**	**351 640 904**	0.019	34

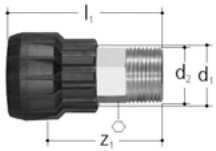
Cap



made of gunmetal, as durable connection for cone grip union MT made of plastic, for JRG Sanipex MT components

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
50	**4695.050**	**351 650 904**	0.135	18
63	**4695.063**	**351 663 904**	0.248	22

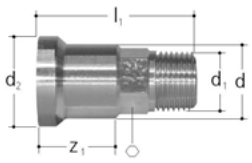
Adapter with male thread and MT connecting nut



made of gunmetal, with male thread, suitable to plastic cone grip union MT with preinstalled MT connecting nut, for JRG Sanipex MT components

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 R [inch]	l1 [mm]	z1 [mm]	M
20	½	**4696.210**	**351 620 931**	0.090	20	½	59	34	18
26	¾	**4696.220**	**351 626 960**	0.155	26	¾	70	41	23

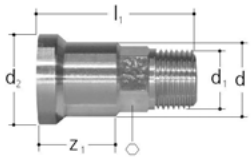
Adapter with male thread



made of gunmetal, with male thread suitable to plastic cone grip union MT for JRG Sanipex MT components

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	d2 [mm]	l1 [mm]	z1 [mm]	M
26	½	**4696.215**	**351 626 983**	0.115	½	32	55	42	21
32	½	**4696.315**	**351 632 984**	0.170	½	39	62	49	21
32	¾	**4696.320**	**351 632 982**	0.205	¾	39	65	50	27
40	½	**4696.415**	**351 640 987**	0.278	½	49	69	56	21
40	¾	**4696.420**	**351 640 982**	0.310	¾	49	72	57	27
40	1	**4696.425**	**351 640 983**	0.330	1	49	78	59	32

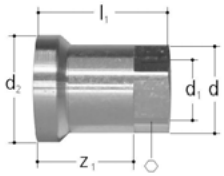
Adapter with male thread, internally coated



made of gunmetal, with male thread, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 mµ, for fully desalinated water up to 30°C, suitable to plastic cone grip union MT for JRG Sanipex MT components

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	d2 [mm]	l1 [mm]	z1 [mm]	M
26	½	**4696.217**	**351 626 583**	0.120	½	32	55	42	21

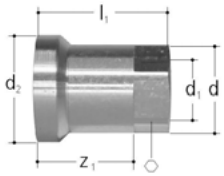
Adapter with female thread



made of gunmetal, with female thread, suitable to plastic cone grip union MT for JRG Sanipex MT components

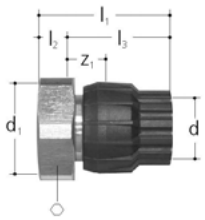
d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d2 [mm]	l1 [mm]	z1 [mm]	M
26	⅜	**4697.210**	**351 626 982**	0.105	32	39	27	24
32	½	**4697.315**	**351 632 983**	0.160	39	47	34	27
40	½	**4697.415**	**351 640 984**	0.270	49	54	40	27
40	¾	**4697.420**	**351 640 985**	0.260	49	55	40	32

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 mµ, for fully desalinated water up to 30°C, suitable to plastic cone grip union MT for JRG Sanipex MT components

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 Rp [inch]	d2 [mm]	l1 [mm]	z1 [mm]	M
40	½	**4697.417**	**351 640 584**	0.270	½	49	54	40	27

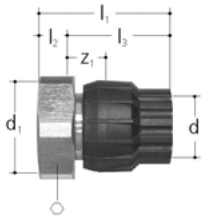


Adapter to valves

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

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	M
16	¾	**4700.102**	**351 616 994**	0.066	¾	39.0	6.0	33.0	14.5	32
20	¾	**4700.104**	**351 620 992**	0.070	¾	44.0	6.0	38.0	15.5	32
16	1	**4700.108**	**351 616 936**	0.135	1	42.5	7.0	35.5	22.5	37
20	1	**4700.110**	**351 620 936**	0.080	1	49.0	7.0	42.0	20.5	37
26	1	**4700.112**	**351 626 994**	0.115	1	54.5	7.0	47.5	18.5	37
16	1 ¼	**4700.120**	**351 616 996**	0.130	1 ¼	41.0	8.0	33.0	14.5	46
20	1 ¼	**4700.122**	**351 620 994**	0.130	1 ¼	46.0	8.0	38.0	15.5	46
26	1 ¼	**4700.124**	**351 626 995**	0.150	1 ¼	55.5	8.0	47.5	18.5	46
32	1 ¼	**4700.126**	**351 632 995**	0.200	1 ¼	65.5	8.0	57.5	19.5	46
26	1 ½	**4700.128**	**351 626 996**	0.204	1 ½	56.5	9.0	47.5	18.5	54
32	1 ½	**4700.130**	**351 632 996**	0.260	1 ½	66.5	9.0	57.5	19.5	54
40	1 ½	**4700.132**	**351 640 995**	0.330	1 ½	77.5	9.0	68.5	23.5	55
40	2	**4700.136**	**351 640 996**	0.420	2	82.5	13.5	69.0	24.5	67
50	1 ¾	**4700.134**	**351 650 995**	0.550	1 ¾	81.5	10.0	71.5	33.0	60
50	2 ¼	**4700.138**	**351 650 996**	0.667	2 ¼	82.5	11.0	71.5	34.0	72
63	2 ⅜	**4700.140**	**351 663 995**	0.950	2 ⅜	99.5	11.0	88.5	39.0	78
63	2 ¾	**4700.142**	**351 663 996**	1.050	2 ¾	100.0	13.5	86.5	40.0	89

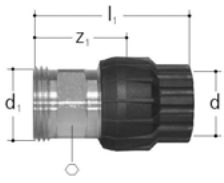


Adapter to fittings, internally coated

made of gunmetal, with female thread and gasket*, water-conducting gunmetal surfaces coated with IGP-DURApox epoxy resin, blue, RAL 5010, thickness 60-80 mµ, 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

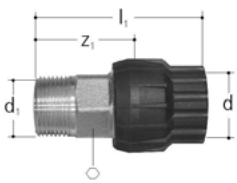
d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l1 [mm]	l2 [mm]	l3 [mm]	z1 [mm]	M
26	1 ½	**4700.728**	**351 626 596**	0.220	1 ½	56	9	47	19	54



Adapter to distributor

made of gunmetal, with male thread, plastic cone grip union MT for JRG Sanipex d20 and JRG Sanipex MT pipes

GN [mm]	JRG Code	GF Code	Weight [kg]	d1 G [inch]	l2 [mm]	z1 [mm]	M
1	**4705.020**	**351 620 989**	0.120	1	58	35	30
1	**4705.026**	**351 626 991**	0.150	1	68	39	30
1	**4705.032**	**351 632 993**	0.185	1	78	38	30



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

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d1 R [inch]	l1 [mm]	z1 [mm]	M
16	½	**4710.110**	**351 616 997**	0.070	16	½	50	31	21
16	¾	**4710.150**	**351 620 933**	0.100	16	¾	57	37	21
20	½	**4710.210**	**351 620 995**	0.077	20	½	59	36	21

table continued next page

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d1 R [inch]	l1 [mm]	z1 [mm]	M
20	¾	**4710.220**	**351 620 996**	0.110	20	¾	60	37	21
26	¾	**4710.250**	**351 626 997**	0.130	26	¾	74	44	27
26	1	**4710.260**	**351 626 987**	0.160	26	1	77	47	30
32	1	**4710.310**	**351 632 997**	0.200	32	1	88	50	32
40	1 ¼	**4710.410**	**351 640 997**	0.440	40	1 ¼	103	58	46
50	1 ½	**4710.510**	**351 650 997**	0.550	50	1 ½	118	67	50
63	2	**4710.610**	**351 663 997**	0.990	63	2	143	80	65



Connecting piece with external thread, nickel-coated

in gunmetal nickel-coated, with male thread and plastic cone grip union MT for the heating element connection, for JRG Sanipex MT pipes

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	z1 [mm]	M
16	½	**4710.115**	**351 564 901**	0.070	½	50	31	21
16	¾	**4710.150**	**351 620 933**	0.100	¾	57	37	21
20	½	**4710.215**	**351 565 101**	0.080	½	59	36	21
20	¾	**4710.225**	**351 565 201**	0.117	¾	60	37	21
26	¾	**4710.255**	**351 565 301**	0.120	¾	74	44	27



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 mµ, for fully desalinated water up to 30°C, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

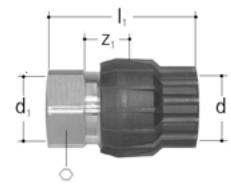
d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l2 [mm]	z1 [mm]	M
16	½	**4710.117**	**351 616 597**	0.070	½	50	31	21
20	½	**4710.217**	**351 620 595**	0.080	½	59	36	21
20	¾	**4710.227**	**351 620 596**	0.120	¾	60	37	21
26	¾	**4710.257**	**351 626 597**	0.150	¾	74	44	27
26	1	**4710.267**	**351 626 587**	0.160	1	77	47	30
32	1	**4710.317**	**351 632 597**	0.200	1	88	50	32
40	1 ¼	**4710.417**	**351 640 597**	0.450	1 ¼	103	58	46



Connecting piece with external thread, nickel-coated

in gunmetal nickel-coated, with male thread and plastic cone grip union MT, white for the heating element connection.

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	z1 [mm]	M
16	½	**4711.115**	**351 565 001**	0.066	½	50	31	21



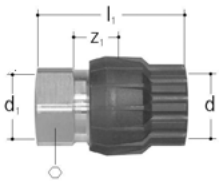
Adapter with female thread

made of gunmetal, with female thread, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	z1 [mm]	M
16	½	**4712.110**	**351 616 998**	0.070	½	47	15	27
20	½	**4712.210**	**351 620 997**	0.078	½	51	15	27
20	¾	**4712.220**	**351 620 998**	0.100	¾	54	17	32

table continued next page

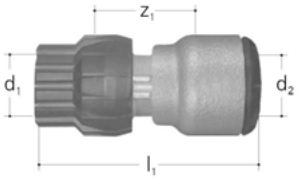
d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	z1 [mm]	M
26	¾	**4712.250**	**351 626 998**	0.120	¾	61	17	32
26	1	**4712.260**	**351 626 984**	0.190	1	67	20	41
32	1	**4712.310**	**351 632 998**	0.220	1	74	19	41
40	1 ¼	**4712.410**	**351 640 998**	0.350	1 ¼	86	22	50
50	1 ½	**4712.510**	**351 650 998**	0.480	1 ½	95	44	55
63	2	**4712.610**	**351 663 998**	0.900	2	115	52	70



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 mμ, for fully desalinated water up to 30°C, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

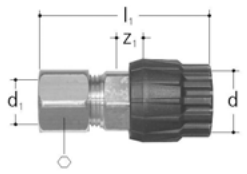
d [mm]	GN [inch]	JRG Code	GF Code	Weight [kg]	d1 R [inch]	l1 [mm]	z1 [mm]	M
20	½	**4712.217**	**351 620 597**	0.080	½	51	15	27
26	¾	**4712.257**	**351 626 598**	0.130	¾	61	17	32
32	1	**4712.317**	**351 632 598**	0.230	1	74	19	41
40	1 ¼	**4712.417**	**351 640 598**	0.360	1 ¼	86	22	50



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, plastic cone grip union MT and push-in connection for stainless steel pipes and copper pipes, for water up to 90°C

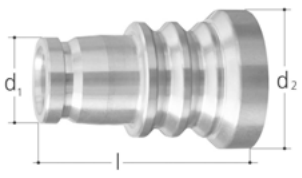
d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 [mm]	l1 [mm]	z1 [mm]
16 - 15	12	**4714.100**	**351 060 501**	0.075	16	15	62	21
20 - 18	15	**4714.104**	**351 060 511**	0.125	20	18	76	24
20 - 22	15	**4714.105**	**351 060 516**	0.140	20	22	82	25
26 - 22	20	**4714.106**	**351 060 521**	0.140	26	22	75	15
32 - 28	25	**4714.108**	**351 060 531**	0.245	32	28	93	14
40 - 35	32	**4714.110**	**351 060 541**	0.380	40	35	107	16



Adapter with compression joint union

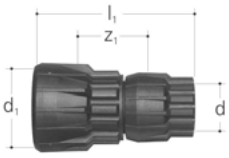
made of gunmetal, with hex nut union for copper pipe and plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT -pipes

d [mm]	d-d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	l1 [mm]	z1 [mm]	M
10	16 - 10	**4715.016**	**351 616 923**	0.060	16	56	11	19



iFIT-MT adapter

d1 [mm]	d2 [mm]	Code	Weight [kg]	l [mm]
16 / 20	26	**762 101 250**	0.089	49
16 / 20	32	**762 101 251**	0.143	57
25 / 32	32	**762 101 252**	0.185	64



Reduction

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

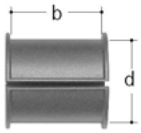
d1 [mm]	d [mm]	JRG Code	GF Code	Weight [kg]	l1 [mm]	z1 [mm]
20	16	**4730.100**	**351 620 925**	0.035	58.0	31
26	16	**4730.102**	**351 626 926**	0.050	70.5	41
26	20	**4730.104**	**351 626 927**	0.055	74.0	39
32	16	**4730.106**	**351 632 925**	0.075	82.0	52
32	20	**4730.108**	**351 632 926**	0.075	87.0	50
32	26	**4730.110**	**351 632 927**	0.095	92.0	50
40	16	**4730.112**	**351 640 924**	0.125	94.0	61
40	20	**4730.114**	**351 640 925**	0.117	100.0	61
40	26	**4730.116**	**351 640 926**	0.140	105.0	61
40	32	**4730.118**	**351 640 927**	0.160	111.0	58



Reduction

made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT

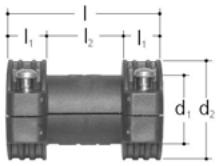
d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	l1 [mm]	z1 [mm]
26	**4730.124**	**351 650 824**	0.160	50	110	57
32	**4730.126**	**351 650 825**	0.185	50	118	58
40	**4730.128**	**351 650 826**	0.240	50	128	59
32	**4730.136**	**351 663 825**	0.100	63	134	67
40	**4730.138**	**351 663 826**	0.345	63	145	71
50	**4730.140**	**351 663 827**	0.430	63	158	77



Sliding insert

made of plastic, for commercial used clamps with sound protection for JRG Sanipex MT pipes

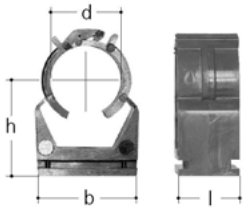
d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]
16	**4751.016**	**351 616 942**	0.002	30
20	**4751.020**	**351 620 952**	0.003	30
26	**4751.026**	**351 626 952**	0.004	30
32	**4751.032**	**351 632 952**	0.005	30
40	**4751.040**	**351 640 952**	0.006	30



Sliding insert

made of plastic, for commercial used clamps sound protection, for JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 [mm]	l [mm]	l1 [mm]	l2 [mm]
16	**4752.016**	**351 616 906**	0.028	16	32	63	16	31
20	**4752.020**	**351 620 906**	0.032	20	36	63	16	31
26	**4752.026**	**351 626 906**	0.038	26	42	63	16	31
32	**4752.032**	**351 632 906**	0.045	32	48	63	16	31
40	**4752.040**	**351 640 906**	0.050	40	56	63	16	31



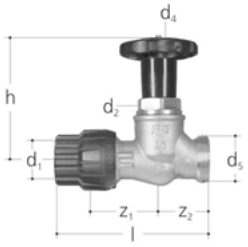
Pipe clip

made of plastic, black, one piece clip with quick release fastener, for JRG Sanipex and JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	h [mm]	l [mm]	
16	**4755.016**	**355 637 901**	0.004	15	20	23	
20	**4755.020**	**355 637 902**	0.006	15	23	26	

Valves

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 plastic cone grip union MT, for water up to 90°C.

Shut-off valve top q.v. 5395.320 suitable for distributor and distributor accessories 4640, 5419-5424, 5455

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]
26	20	**4771.010**	**351 626 975**	0.420

d [mm]	DN [mm]	d1 [mm]	d2 G [inch]	d4 [mm]	d5 G [inch]	h [mm]	l [mm]	z1 [mm]	z2 [mm]
26	20	26	¾	53	1	79	101	39	33

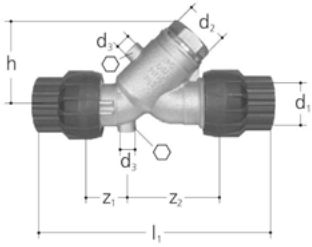
Plug for pipes



made of yellow plastic, with male thread, not tight, as protection plug for pipes and plastic cone grip unions MT

d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	l [mm]
16	**4790.016**	**351 616 905**	0.003	32	23
20	**4790.020**	**351 620 905**	0.005	39	27
26	**4790.026**	**351 626 905**	0.010	51	32
32	**4790.032**	**351 632 905**	0.015	63	36
40	**4790.040**	**351 640 905**	0.025	78	43

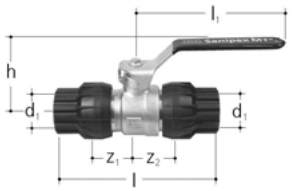
Return flow inhibitor MT, PN 10



with adapter for JRG Sanipex MT, PN 10 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 DIN EN 13959, noise tested, valve sound group 1. Check valve replacement q.v. 1628, test and drain valve q.v. 7301.080

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]
16	12	**1612.016**	**350 896 268**	0.314
20	15	**1612.020**	**350 896 269**	0.340
26	20	**1612.026**	**350 896 270**	0.513
32	25	**1612.032**	**350 896 271**	0.845
40	32	**1612.040**	**350 896 272**	1.243
50	40	**1612.050**	**350 896 294**	1.887
63	50	**1612.063**	**350 896 295**	2.870

d [mm]	DN [mm]	d1 [mm]	d2 G [inch]	d3 Rp [inch]	h [mm]	l1 [mm]	z1 [mm]	z2 [mm]	M
16	12	16	½	¼	47	115	28	50	6
20	15	20	½	¼	47	122	27	51	6
26	20	26	¾	¼	56	148	27	63	6
32	25	32	1	¼	68	178	28	75	6
40	32	40	1 ¼	¼	80	218	37	92	6
50	40	50	1 ½	¼	90	256	46	108	6
63	50	63	2	¼	107	315	55	134	6



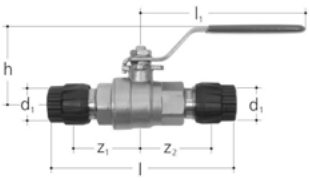
Ball valve, PN 10, with JRG Sanipex MT cone grip unions

made of gunmetal, black handle and cone grip unions made of plastic, ball PTFE, PTFE gaskets, for water*, compressed air and vacuum.

Temperature limit: -20C up to +95C

*Not approved for drinking water installations according SVGW W3

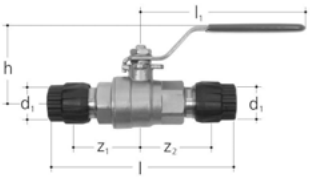
d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	h [mm]	l [mm]	l1 [mm]	z1 [mm]	z2 [mm]
16	12	**6040.016**	**351 616 300**	0.160	16	35	93	81	27	29
20	15	**6040.020**	**351 620 302**	0.284	20	46	110	92	30	33
26	20	**6040.026**	**351 626 302**	0.458	26	49	134	92	36	39
32	25	**6040.032**	**351 632 302**	0.737	32	53	158	127	39	44
40	32	**6040.040**	**351 640 302**	1.212	40	58	193	127	47	53



JRG Sanipex MT ball valve, made of rust resistant steel, PN 10

with adapter to JRG Sanipex MT, PN 10 rust resistant steel body, PTFE gasket, blue handle, plastic cone grip union, for fully desalinized water up to 90°C special media on request, also suitable to JRG Sanipex d16/20 pipes

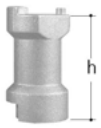
d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	h [mm]	l [mm]	l1 [mm]	z1 [mm]	z2 [mm]
16	12	**6040.716**	**351 616 559**	0.350	16	48	108	38	110	38
20	15	**6040.720**	**351 620 559**	1.000	20	48	133	41	110	41
26	20	**6040.726**	**351 626 559**	0.582	26	60	165	50	110	50
32	25	**6040.732**	**351 632 559**	0.885	32	60	200	60	125	60
40	32	**6040.740**	**351 640 559**	1.660	40	76	230	70	185	70



JRG Sanipex MT ball valve, made of rust resistant steel, PN 10

with adapter to JRG Sanipex MT, PN 10 rust resistant steel body, PTFE gasket, blue handle, plastic cone grip union, for fully desalinized water up to 90°C special media on request, also suitable to JRG Sanipex d16/20 pipes

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	h [mm]	l [mm]	l1 [mm]	z1 [mm]	z2 [mm]
16	12	**6040.716**	**351 616 559**	0.350	16	55	120	110	42.0	42.0
20	15	**6040.720**	**351 620 559**	1.000	20	50	129	110	41.5	41.5
26	20	**6040.726**	**351 626 559**	0.582	26	60	161	110	51.5	51.5
32	25	**6040.732**	**351 632 559**	0.885	32	60	194	125	60.0	60.0
40	32	**6040.740**	**351 640 559**	1.660	40	76	223	185	70.0	68.0



Spindle extension

for ball valve 6040.016 - 6040.040

d [mm]	DN [mm]	JRG Code	GF Code	Weight [kg]	h [mm]
16	12	**6045.016**	**355 638 902**	0.060	41
20 - 26	15 - 20	**6045.020**	**355 639 002**	0.055	43
32 - 40	25 - 32	**6045.032**	**355 639 102**	0.074	55

Tools

Fitter's toolkit complete d16/20/26





made of plastic, consisting of: 4804.005 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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]
16 - 26	**4800.050**	**351 600 033**	8.350	345	110	520

Fitter's toolkit complete d25/d26/d32





made of plastic, consisting of: 4804.126 Expanding mandrel d26 for pipes JRG Sanipex MT, 4804.132 Expanding mandrel d32 for pipes JRG Sanipex MT, 4804.225 Expanding mandrel d25 for pipes JRG Sanipex, 4805.000 Expanding pliers, 4805.026 Clamping jaws d26 for pipes JRG Sanipex MT, 4805.032 Clamping jaws d32 for pipes JRG Sanipex MT, 4805.125 Clamping jaws d25 for pipes JRG Sanipex, 4806.026 Hand bending template d26, 4828.005 Fitter's toolkit empty, 4832.026 Ratchet torque wrench d26, 4832.032 Ratchet torque wrench d32, 4834.026 Counter key d26, 4834.032 Counter key d32, 4836.000 Pipe cutter d16-d40, 4838.000 Marking pen, yellow

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]
25/26/32	**4802.100**	**351 600 088**	8.090	345	55	520

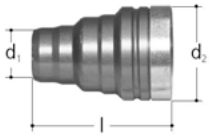
Expanding pliers



Pliers head and clamping lever made of aluminium die casting, with exchangeable clamping jaws and expansion mandrel to expand JRG Sanipex MT, JRG Sanipex and JRG Sanipex Calor pipes

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
16 - 26	**4804.005**	**351 600 400**	2.050	171	418

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

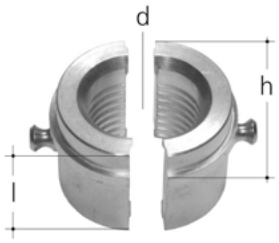
d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 [mm]	l [mm]
16	**4804.116**	**351 600 496**	0.030	10	23	35
20	**4804.120**	**351 600 497**	0.032	14	23	34
26	**4804.126**	**351 600 488**	0.036	18	23	32
32	**4804.132**	**351 600 547**	0.017	32	33	34



Expanding pliers

Pliers head and clamping lever made of aluminium die casting, with exchangeable clamping jaws and expansion mandrel to expand JRG Sanipex MT, JRG Sanipex and JRG Sanipex Calor pipes

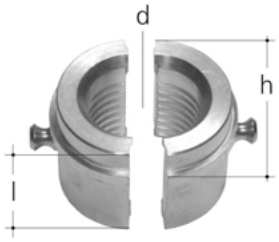
d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
25/26/32	**4805.000**	**351 600 505**	2.190	150	470



Clamping jaws for pipes JRG Sanipex MT

made of steel, to expanding pliers 4805.000

d [mm]	JRG Code	GF Code	Weight [kg]	h [mm]	l [mm]
16	**4805.016**	**351 600 560**	0.320	46	35
20	**4805.020**	**351 600 569**	0.290	46	35
26	**4805.026**	**351 600 573**	0.250	46	35
32	**4805.032**	**351 600 575**	0.085	46	35



Clamping jaws for pipes JRG Sanipex

made of steel, to expanding pliers 4805.000

d [mm]	JRG Code	GF Code	Weight [kg]	h [mm]	l [mm]
25	**4805.125**	**351 600 571**	0.255	46	35



Hand bending template

made of aluminium die casting, to bend JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
16	**4806.016**	**351 616 907**	0.200	217
20	**4806.020**	**351 620 907**	0.320	270
26	**4806.026**	**351 626 007**	0.770	415



Bending template set d16 + d20

made of aluminium, with PE bending rolls, for smallest bending radii 2xd

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]
16 / 20	**4807.100**	**351 600 090**	2.790	295	106	395





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

JRG Code	GF Code	Weight [kg]	b [mm]	h [mm]	l [mm]	Plug	
4810.000	**351 600 000**	7.230	142	230	400	EU (not Italy)	
4810.050	**351 600 008**	6.700	142	230	400	CH	
4810.100	**351 600 009**	7.100	142	230	400	Italy	



Fitter's toolkit d26-40

made of plastic, 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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]	
26 - 40	**4815.100**	**351 600 029**	15.950	423	170	574	



Fitter's toolkit d32+40

made in plastic, 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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]	
32 - 40	**4815.150**	**351 600 026**	1.320	423	170	574	

Fitter's toolkit d50+63





made of plastic, 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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]	
50 - 63	**4820.100**	**351 600 012**	14.550	423	170	574	

Fitter's toolkit empty for expanding pliers



made of plastic, suitable to: 4800.000/4800.050

d-d-d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]	
16 - 26	**4828.000**	**351 600 041**	2.300	345	110	520	
16 - 32	**4828.005**	**351 600 067**	2.300	345	110	520	

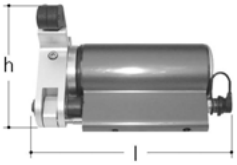
Fitter's toolkit empty d16-40



made of plastic, suitable to: 4815.000, 4815.100, 4815.150

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]	
16 - 40	**4828.001**	**351 600 002**	4.100	423	170	574	

Expanding unit

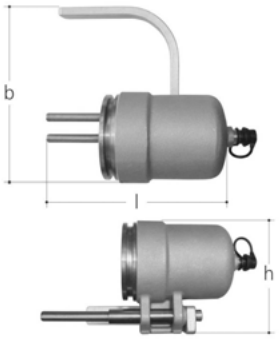




made of aluminium and steel, clamping lever with plastic handle, to expand JRG Sanipex MT pipes, suitable to: 4810 hydraulic unit

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]	
16	**4830.016**	**351 616 008**	1.400	99	170	
20	**4830.020**	**351 620 008**	1.900	99	184	
26	**4830.026**	**351 626 008**	2.250	99	196	
32	**4830.032**	**351 632 008**	2.550	99	201	
40	**4830.040**	**351 640 008**	3.650	107	222	

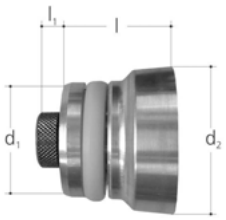
Operating cylinder d50+63



made of aluminium and steel, to expand JRG Sanipex MT pipes, suitable to 4831.050, 4831.063, 4831.350, 4831.363

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	h [mm]	l [mm]
50 - 63	**4831.000**	**351 600 628**	2.370	201	130	244

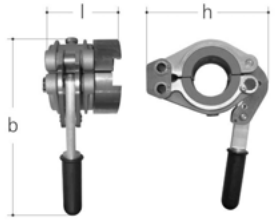
Expanding mandrel d50+63



made of aluminium to expand JRG Sanipex MT pipes, suitable to: 4831.000

d [mm]	JRG Code	GF Code	Weight [kg]	d1 [mm]	d2 [mm]	l [mm]	l1 [mm]
50	**4831.350**	**351 650 108**	0.100	40	52	40	11
63	**4831.363**	**351 663 108**	0.200	52	65	37	11

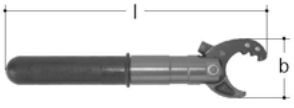
Clamp unit complete d50+63



made of aluminium and steel, handle with plastic sleeve to expand JRG Sanipex MT pipes, suitable to: 4831.000, and clamping jaws

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	h [mm]	l [mm]
50	**4831.050**	**351 650 131**	2.930	243	160	87
63	**4831.063**	**351 663 131**	2.200	243	160	87

Ratchet torque wrench d16-40



made of aluminium and steel, handle with plastic sleeve, with fix adjusted torque, to tighten the plastic cone grip unions MT

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
16	**4832.016**	**351 616 220**	0.135	34	157
20	**4832.020**	**351 620 220**	0.100	41	174
26	**4832.026**	**351 626 009**	0.350	51	224
32	**4832.032**	**351 632 009**	0.450	61	271
40	**4832.040**	**351 640 009**	0.660	76	326

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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
50	**4832.050**	**351 650 009**	0.500	102	379
63	**4832.063**	**351 663 009**	0.850	130	442

Counter key d16-40



made of steel, to counter the plastic cone grip union JRG Sanipex MT

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
16	**4834.016**	**351 616 010**	0.050	27	157
20	**4834.020**	**351 620 010**	0.100	33	174
26	**4834.026**	**351 626 010**	0.200	42	224
32	**4834.032**	**351 632 010**	0.300	52	271
40	**4834.040**	**351 640 010**	0.550	65	326

Counter key d50+63



made of aluminium, to counter during tightening of the plastic cone grip union MT

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
50	**4834.050**	**351 650 210**	0.300	102	405
63	**4834.063**	**351 663 210**	0.500	127	453

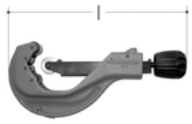
Pipe cutter d16-40



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

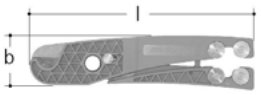
d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
16 - 40	**4836.000**	**351 600 300**	0.620	251

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 [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
50 - 63	**4836.050**	**351 650 852**	0.950	240



Multi-purpose cutter d16/20

made of plastic, with steel blade, lockable, to cut conduit, as to cut JRG Sanipex-, JRG Sanipex MT and iFIT pipes d16/d20

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
16 - 20	**4837.000**	**355 632 403**	0.150	45	200



Marking pen, yellow

to mark out JRG Sanipex MT components and pipes

JRG Code	GF Code	Weight [kg]
4838.000	**351 600 027**	0.008



Hydraulic oil

Spare bottle 0,5 l, to hydraulic unit no. 4810

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]
65	**4839.000**	**351 600 072**	0.478	200



Bending toolkit d16-40

made of plastic, 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 [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]
16 - 40	**4850.000**	**351 600 010**	9.450	345	110	520

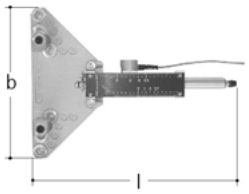
Toolbox for bending tools d50 + d63



Made of plastic, including hydraulic cylinder, retaining bolt, bending template and bending rolls d50 and d63.

d [mm]	JRG Code	Code
50 - 63	**4851.000**	

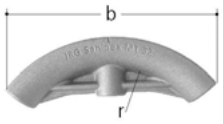
Bending tool



consisting of: baseplate made of aluminium and hydraulic cylinder scale to adjust bending angle suitable to: 4810 hydraulic unit 4855 bending template d16-d40

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	l [mm]
16 - 40	**4852.000**	**351 600 003**	6.250	412	550

Bending template



made of aluminium die cast, suitable to: 4810 hydraulic unit 4852.000 bending tool

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	r [mm]
16	**4855.016**	**351 616 911**	0.100	90	48
20	**4855.020**	**351 620 911**	0.100	112	60
26	**4855.026**	**351 626 911**	0.165	146	78
32	**4855.032**	**351 632 911**	0.260	180	96
40	**4855.040**	**351 640 911**	0.400	225	120

Bending toolkit empty



made of plastic suitable to: 4850.000

d [mm]	JRG Code	GF Code	Weight [kg]	b [mm]	b1 [mm]	l [mm]
16 - 40	**4858.001**	**351 600 011**	2.200	345	110	520



Battery toolkit d16-40

made of plastic, consisting of: 4809.000 Battery tool MAPLSONOV, 4809.005 Makita charger, 4809.010 Makita battery, 4809.116 Expansion head d16, 4809.120 Expansion head d20, 4809.126 Expansion head d26, 4809.132 Expansion head d32, 4809.140 Expansion head 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 spanner d16, 4834.020 Counter spanner d20, 4834.026 Counter spanner d26, 4834.032 Counter spanner d32, 4834.040 Counter spanner d40, 4837.000 Multi-purpose cutter d16/d20, 4836.000 Pipe cutter d16-d40, 4838.000 Marking pen

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]	b [mm]	h [mm]	
16 - 40	**4808.000**	**351 600 864**	16.000	574	170	423	



Battery toolkit d16-26

made of plastic, consisting of: 4809.000 Battery tool MAPLSONOV, 4809.005 Makita charger, 4809.010 Makita battery, 4809.116 Expansion head d16, 4809.120 Expansion head d20, 4809.126 Expansion head d26, 4832.016 Ratchet torque wrench d16, 4832.020 Ratchet torque wrench d20, 4832.026 Ratchet torque wrench d26, 4834.016 Counter spanner d16, 4834.020 Counter spanner d20, 4834.026 Counter spanner d26, 4837.000 Multi-purpose cutter d16/d20, 4836.000 Pipe cutter d16-d40, 4838.000 Marking pen

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]	b [mm]	h [mm]	
16 - 26	**4808.050**	**351 600 801**	11.500	574	170	423	



Battery toolkit d32+40

made of plastic, consisting of: 4809.000 Battery tool MAPLSONOV, 4809.005 Makita charger, 4809.010 Makita battery, 4809.132 Expansion head d32, 4809.140 Expansion head d40, 4832.032 Ratchet torque wrench d32, 4832.040 Ratchet torque wrench d40, 4834.032 Counter spanner d32, 4834.040 Counter spanner d40, 4836.000 Pipe cutter d16-d40, 4838.000 Marking pen

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]	b [mm]	h [mm]	
32 - 40	**4808.150**	**351 600 802**	11.200	574	170	423	



Battery tool

Basic unit made of plastic with connection for the battery and operation unit, tool head made of aluminium for the assembling of the expansion heads with bayonet catch, to expand JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]	b [mm]	h [mm]	
16 - 40	**4809.000**	**351 600 809**	0.010	320	75	150	



Expansion head

made of steel, aluminium and plastic, partly anodised, with bayonet catch, to expand JRG Sanipex MT pipes

d [mm]	JRG Code	GF Code	Weight [kg]	l [mm]	b [mm]	h [mm]	
16	**4809.116**	**351 600 804**	1.200	137	95	121	
20	**4809.120**	**351 600 805**	1.200	137	95	121	
26	**4809.126**	**351 600 806**	1.200	137	95	121	
32	**4809.132**	**351 600 807**	1.200	137	95	121	
40	**4809.140**	**351 600 808**	1.400	174	108	124	

GF Piping Systems

Automation made easy for you

Accurate measurement
Precise control
Reliable actuation



Automation made easy

Our automation loop consists of three elements: measurement, control and actuation. Measurement encompasses a wide range of measurement technologies and parameters. Most of these products are available in plastic and are offered with dedicated fittings, which integrate our sensors perfectly into your piping system. Control comprises various control functionalities (from simple relays to PID controllers) and all major communication technologies. Actuation includes pneumatic, electric and magnetic actuators, which can be seamlessly combined with all kinds of valves and accessories.

The all-in-one solution for your automation needs

Easy-to-combine
Flexible combination and upgrade

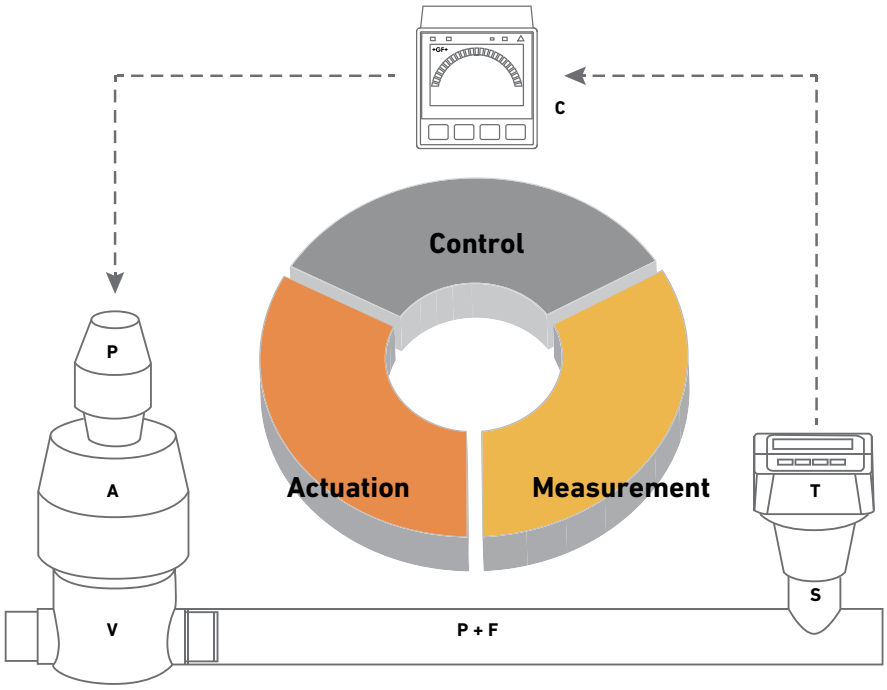
Easy-to-install
Seamless integration

Easy-to-connect
State-of-the-art communication technology

Easy-to-set-up
Plug-and-play design

Easy-to-operate
Intuitive menu structure

Easy-to-maintain
Wide range of accessories



S: Sensor
T: Transmitter
C: Controller
P: Positioner
A: Actuator
V: Valve
P+F: Pipe & Fittings

Measurement
Accurate measurement



Control
Precise control



Actuation
Reliable actuation



Measurement

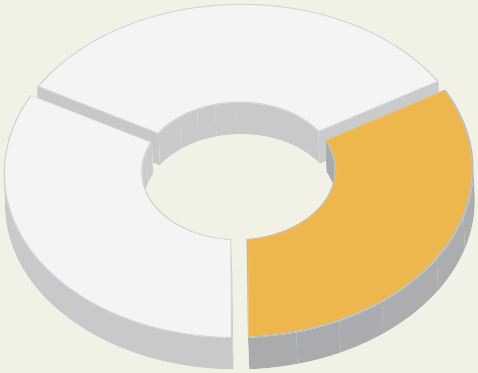
Accurate measurement is the basis for reliable process control



Our measurement offering will cover your needs: flow, pH, conductivity, level, temperature and various water quality parameters. Corresponding to our piping systems, most sensors are available in plastic and are therefore highly resistant to chemicals. Our plug-and-play measurement products are self-explanatory, easy to maintain and are offered with suitable installation fittings.

Measurement products

An overview of the key products



Flow Sensors and Instruments



Rotor-X Paddlewheel Flow Sensor type 515

- non-powered
- 0.3-6 m/s (1 to 20 ft/s)
- DN15-DN900 (½ to 36 in.)
- PP 12.5 bar @ 20 °C (180 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 19.7 Hz per m/s nominal (6 Hz per ft/s nominal)



Rotor-X Paddlewheel Flow type 2536

- powered
- 0.1-6 m/s (0.3 to 20 ft/s)
- DN15-DN900 (½ to 36 in.)
- PP 12.5 bar @ 20 °C (180 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 49 Hz per m/s nominal (15 Hz per ft/s nominal)



Paddlewheel Flow Sensor type 2537

- 0.1-6 m/s (0.3 to 20 ft/s)
- DN15-DN200 (½ to 8 in.)
- PP 12.5 bar @ 20 °C (181 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 4-20 mA, digital (S^3L), flow switch or pulse outputs (based on part number)



Stainless Steel Paddlewheel Flow Sensor - type 2540

- 0.1-6 m/s (0.3 to 20 ft/s)
- DN40-DN900 (1½ to 36 in.)
- 316 Stainless Steel
- 17 bar @ 100 °C (250 psi @ 212 °F)
- 49 Hz per m/s nominal (15 Hz per ft/s nominal)
- Open Collector output



Magmeter (blind or display) type 2551

- 0.05-10 m/s (0.15 to 33 ft/s)
- DN15-DN900 (½ to 36 in.)
- 10.3 bar @ 25 °C (150 psi @ 77 °F)
- 4-20 mA, or frequency/ digital (S^3L) outputs
- Optional relay outputs



Metal Magmeter type 2552

- 0.05-10 m/s (0.15 to 33 ft/s)
- DN50-DN2550 (2 to 102 in.)
- 316 Stainless Steel & PVDF
- 20.7 bar @ 25 °C (300 psi @ 77 °F)
- 4-20 mA, frequency/ digital (S^3L)
- Hot-tap using ball or gate valves



Turbine Flow Sensor type 2100

- 0.38 to 38 lpm (0.10 to 10 gpm)
- DN15 (½ in.)
- PVDF
- 16 bar @ 20 °C (232 psi @ 68 °F)
- Open Collector output
- Use with End Fitting: 3-2100-31 to 3-2100-38



Micro-Flow Rotor Sensor type 2000

- 0.11-12.11 lpm (0.03-3.2 gpm)
- ¼ in. NPT or ISO 7/1-R1/4 threads
- Polyphenylene Sulphide and PEEK
- 5.5 bar @ 0 ° to 80 °C (80 psi @ 32 °F to 176 °F)
- Open Collector output
- Standard cable 7.6 m (25 ft)



Mini-Flow Rotor Sensor type 2507

- 400-12 000 mL/m (0.1 to 3.2 U.S. gpm)
- G ¼ in. ports, ¼ in. NPT pipe adapters
- PVDF
- 5.5 bar @ 24 °C (80 psi @ 75 °F)
- Open Collector output
- Standard cable 7.6 m (25 ft)



Metalex Paddlewheel Flow Sensor type 525

- 0.5-6 m/s (1.6-20 ft/s)
- DN15-DN300 (½-12 in.)
- 316 Stainless Steel
- 103 bar (1500 psi @ safety factor 1.5) @149 °C (300 °F)
- 39 Hz per m/s nominal (12 Hz per ft/s nominal)

Easy to install

Flow sensors and instruments



SmartPro transmitter
type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity / Resistivity, HART modules 4 to 20 mA Output Module are available



ProPoint Sensor-Powered
Flow Monitor - type 5090

- Displays GPM
- No power required
- Single input
- Panel mount
- Analogue dial for indication
- Use with 515 flow sensor



Variable Area Flow Meters
type 335 / 350, SK50-73

- Taper tubes in PVC transparent, PA, PSU, PVDF
- Union connection with PVC (std)
- DN10-DN65 ($^3/_8$"-3 $^1/_2$")
- PN10
- Optional switch feedback
- Special scales on request



Portaflow portable Ultrasonic
flowmeter - type 330 / 220

- 0.1 m / s - 20 m / s
- d13-d2000
- Battery powered, AC 110-240 V
- Output: 0/4 to 20 mA, RS 232, USB, pulse
- Data logger (Type 330)
- Transit time measurement



Ultrasonic Flowmeter
type U1000

- 0.1 m/s-10 m/s
- d50-d150
- DC 12-24 V
- Output: 4-20 mA, pulse or frequency
- Transit time measurement



Flow Integral Mount
type 9900

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Battery Powered Flow Totaliser
type 8150

- Displays GPS, GPM, GPH, GPD, LPS, LPM, LPH, LPD
- Battery powered
- Single input
- Panel or field mount
- 3 totalisers, auto calibration
- Use with 515 or 525 flow sensors



Flow Wet-Tap Valve
type 3519

- DN15-DN900 (½ to 36 in.)
- PVC
- 7 bar @ 20 °C (100 psi max @ 68 °F)
- Use with Wet-Tap Paddlewheel Flow Sensors Type 515 and 2536



Ultraflow Wall-mount Ultrasonic
flowmeter - type 3000 / 4000

- 0.1 m / s - 20 m / s
- d13-d2000
- DC 24 V or AC 86-240 V
- Output 0/4 to 20mA, RS 232, USB, pulse
- Data logger (Type 4000)
- Transit time measurement



pH/ORP sensors and instruments



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity / Resistivity, HART modules 4 to 20 mA Output Module are available



Threaded DryLoc pH/ORP Electrode - type 2774-2777

- 0-14 pH, ±2 000 mV ORP
- Ryton body, PTFE junction
- Use sensor $^{3}/_{4}$" threads for mounting
- DryLoc preamplifier connection with gold plated pins
- Suitable for submersible applications
- For use with 2750/2760 preamplifiers



Differential DryLoc pH/ORP Electrodes type 2764-2767

- 0-14 pH, ±2000 mV ORP
- Ryton body, PTFE junction
- Use sensor 1 inch threads for mounting
- DryLoc preamplifier connection with gold plated pins
- For use with 2750/2760 preamplifiers



DryLoc pH and ORP Electrodes for Harsh Applications - type 2734 – 2736

- Enhanced reference and bridge gels to resist chemical poisoning
- Ryton (PPS) body and PTFE junction for broad range of chemical compatibility
- PTFE reference junction resists fouling and chemical attack
- Mounts in Signet standard fittings from DN15 to DN100 (½ to 4 in.)



DryLoc pH and ORP Electrodes type 2724-2726

- 0-14 pH, ±2000 mV ORP
- Ryton body, PE junction
- Use fittings for in-line applications or $^{3}/_{4}$" NPT or ISO
- Suitable for submersible applications
- DryLoc preamplifier connection with gold plated pins



pH/ORP Wet-Tap Assembly - type 3719/ 2756, Wet-Tap Electrodes type 2757

- Use a wet-tap style sensor; for 0-14 pH, ±2000 mV ORP
- CPVC, PVC
- 1 ½ or larger
- 1 ½ or 2 NPT; ISO 7/1-R1.5 or R2
- Electrode removal without process shutdown



DryLoc pH/ORP SensorElectronics type 2750

- 0-14 pH, ±2 000 mV ORP
- PBT, CPVC (PVC-C)
- DryLoc connection with gold plated pins
- 4-20 mA or digital (S^{3}L)
- Use with 8900, 9900 or PLC
- In-line and submersible versions available



Advanced pH/ORP Sensor Electronics type 2751

- -1 to 15 pH, +/- 1,500 mV ORP
- Memory chip support for 262x and 273x pH/ORP Electrodes
- Remote Calibration
- Electrode Diagnostics
- 4-20mA or Digital (S^{3}L)
- Use with 8900, 9900, or PLC
- In-Line and Submersible

Conductivity/resistivity sensors and instruments



Dual-Channel Conductivity Controller - type 8860

- Displays µS, mS, KΩ, MΩ, PPM
- AC or DC supply
- Up to 2 sensor inputs
- Up to 2 Open Collector outputs and 4 relay outputs
- Up to 3 active current outputs
- % reject, % recovery, and ratio functions



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- „Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity / Resistivity, HART modules 4 to 20 mA Output Module are available



Conductivity Integral System with 9900 Transmitter

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



DryLoc Conductivity Sensor Electronics type 2850

- 0.055-400 000 µS (0.02-200 000 ppm) (18.2 MΩ - 1 KΩ)
- PBT or CPVC
- Integral systems connect to the 2839 series electrodes or 2819 series electrode via special order
- 4-20 mA or digital (S^3L)



Conductivity/Resistivity Electrodes type 2818-2823

- 0.055-400 000 µS (0.02-200 000 ppm) (18.2 MΩ - 1 KΩ)
- 316 SS or Titanium (Hastelloy-C also available upon request)
- Reversible threads or sanitary flange connections
- Connect to 2850 sensor electronics



Conductivity Electrodes Sensor type 2839-2842

- 0.055-200 000 µS (0.02-100 000 ppm) (18.2 MΩ - 1 KΩ)
- 316 SS and PEEK
- Dual threaded NPT or ISO
- Connection to Conductivity/Resistivity instruments or 2850 sensor electronics
- NIST Certificate

Dual-Channel ProcessPro's -3 are still available

Temperature sensors and instruments



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/ Resistivity and HART modules are available



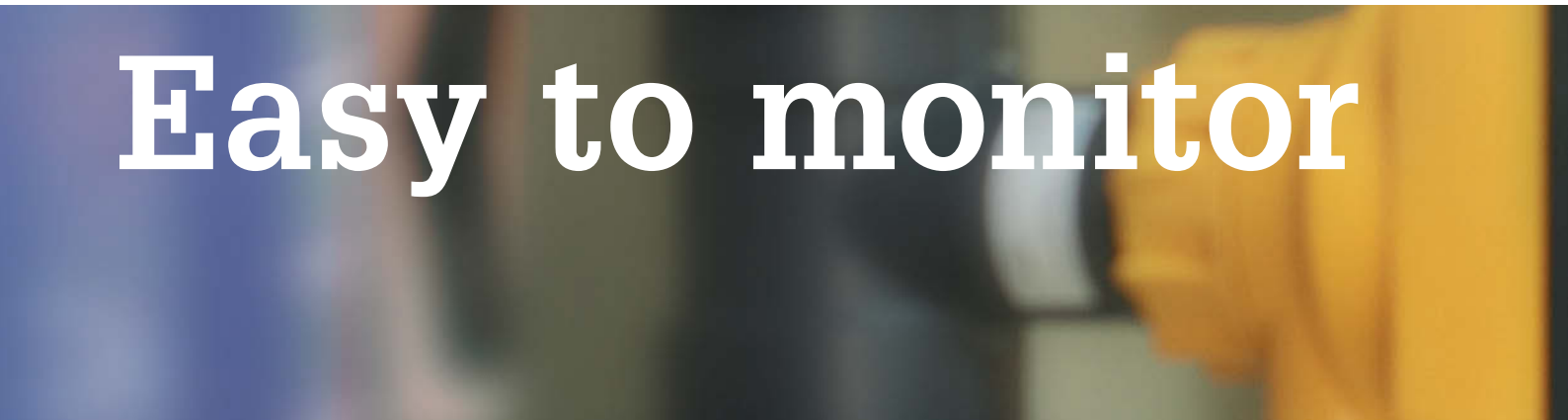
Temperature Integral System with 9900 Transmitter

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Temperature Sensor type 2350

- In-line mounting: 10 °C to 100 °C (14 °-212 °F)
- Submersible mounting: 10 °C to 85 °C (14 °-185 °F)
- PVDF
- ¾ inch dual threaded for in-line or submersible installation
- 4-20 mA or digital (S^3L)



Temperature, pressure and level sensors and instruments



Pressure Integral System with 9900 Transmitter

- Utilizes the 2450 sensor for pressure or hydrostatic level measurement
- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Pressure Sensor type 2450

- 0 - 0.7 bar (0 - 10 psig) - U
- 0 - 3.4 bar (0 - 50 psig) - L
- 0 - 17 bar (0 - 250 psig) - h
- Vacuum range available
- Wetted material: PVDF, ceramic and FPM
- $^{1}/_{2}$" union, dual threaded
- 4-20 mA or digital (S^3L)



Ultrasonic Integral Level Transmitter type 2260

- Non-contact principle
- Narrow 5 and 6° beam
- Range: 4, 6, 15 meters (13, 20, 50 ft)
- 4-20 mA, HART, relay ouput
- PP and PVDF bodies
- ATEX versions
- Quick-set and advanced menu
- Large multy-parameter display



Ultrasonic Level Sensor type 2270

- Non-contact principle
- Narrow 5 and 6° beam
- Range: 4, 6, meters (13, 20, ft)
- 4-20 mA, HART
- PP and PVDF bodies
- Easy to use EView programming software



Point level switches

- Body materials for water, water based liquids and concentrated chemicals
- Versions for industrial- and municipal water treatment
- Digital transistor- and relay outputs
- ATEX versions
- WHG versions
- Versions without moving parts



Hydrostatic Level Sensor type 2250

- 0-10 psi = 0-7.03 m = 0-23.06 ft
- 0-50 psi = 0-35.15 m = 0-115.32 ft
- Wetted Material: PVDF, PVC, ceramic and PFM
- Submersible sensor
- 4-20 mA or digital (S^3L)
- Uses hydrostatic pressure for level and depth control

Water analysis



Chlorine Analyzer System type 4630

- Continuous free chlorine measurement without chemical reagents
- Optional pH sensor for increased accuracy
- Pre-wired panel for easy installation
- Built in pressure regulator and variable area flow meter



Turbidimeter type 4150

- Compliant with U.S. EPA 180.1 or ISO7027
- Two adjustable alarm relays
- Built-in pressure regulator
- Easy access for wiring and maintenance
- Optional auto cleaning for reduced maintenance



Process Optical Dissolved Oxygen Sensor - type 2610

- Optical DO measurement with no flow requirements
- No membranes or filling solutions
- Flexible communications 4 to 20 mA or Modbus 3-2610-31 (S3L), 4 to 20 mA or Modbus 3-2610-41
- Measurement Range: 0-20 mg/L, 0-200% Saturation



Chlorine Dioxide System type 4632

- Complete turnkey system – no additional parts required to install
- Now available with a flow switch interrupt (chlorine and Chlorine dioxide)
- Complies with EPA standard 334.0
- Chemical free measuring system – 0-2 ppm
- Optional pH measurement





Easy to operate

Accessories



Switching Power Supplies type 7310

- Universal AC input/Full Range
- Protections: Short circuit/Overload/ Over-voltage
- Cooling by free air convection
- Install on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on



8059 external relay module

- AC and DC powered versions
- External relays controlled by host instrument
- Digital pass-through (DC versions) to simplify wiring
- Relay can be tested locally, and also via the host instrument
- Only compatible with 8900



pH/ORP System Tester type 2759

- Battery powered
- Simulates pH and ORP
- Compatible with 2750 and 2760 preamp
- Connects to any pH/ORP instrument



Conductivity/Resistivity Tools type 2850-101-X

- Available in 5 different values
- Verifies electronic independent of electrode
- Compatible with all conductivity and resistivity instruments
- Temperature compensated to 25 °C



i-GO Signal Converter type 8058

- Connects third party 4-20 mA signals to the 8900 and 9900
- Available for single or dual 4-20 mA sensor inputs
- Requires special programming for use with the 8350, 8450
- Compatible with 8900, 9900



HART – USB Modem

- HART to USB converter
- Portable or DIN rail version
- ATEX



Configuration/Diagnostic Tool type 0250 USB to Digital (S³L)

- User friendly interface
- Configure all modifiable parameters in the sensor
- Monitor/graph sensor data or log sensor data to a file
- Monitor mV readings in pH/ORP sensors to monitor drift



PC COMM Configuration Tool type 0251

- User friendly interface
- Configure settings such as instrument type, units and modify labels
- Back up and restore 9900 Transmitter configurations to a computer
- Use a single file to clone multiple 9900 Transmitters





Buffer Solutions
type pH/ORP

- NIST Traceable
- Easily identifiable colour coded buffer solutions
- Liquid or powder versions
- Temperature compensated values
- Kits for easy use



Calibration Kits for Turbidimeter
type 4150

- Stable pre-mixed standards that are certified accurate
- Sealed calibration cuvettes
- Shelf-life 12 months
- Easy to follow instructions
- Kits for easy use



4-20mA Sensor GK 15 for VAFM
type 335/350

- 12-24 V DC
- IP 65
- 4-20 mA (3 wire)



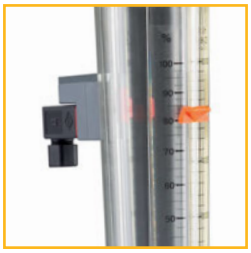
Formazin Stock Kit for Turbidimeter
type 4150

- Turbidity standard for most any value
- Three different graduated pipettes included
- Four glass cuvettes with light shield caps
- Easy to follow instructions



Wall Mount
Accessory Kit

- Compact enclosure that works with 9900 Transmitter and other ¼ DIN size instruments
- Equiped with a ¼ DIN cutout and two ½" holes at the base
- Mounting hardware and liquid tight connectors are included



Limit contacts GK 10/GK11 for type
335/350 and short version

- Reed contact
- IP65
- 230 V



Easy to connect

Installation fitting tees



Plastic -
Metric Tees

- ABS* DN20-DN50
- PVC DN15-DN50
- PP DN15-DN50
- PVDF DN15-DN50
- PE DN15-DN50



Plastic -
PVC Tees

- PVC 0.50-4.0" / SCH 80
- PVC-C 0.50-2.0" / SCH 80
- PVC BSP* 0.50-2.0"
- Fiberglass 1.50-2.0" / SCH 80



Metal -
Tees

- 316 SS NPT 0.50-2.00" / SCH 40
- Brass NPT 1.00-2.00" / SCH 40



Plastic -
Fiberglass Tees

- Fibreglass 1.5-2.0" / SCH 80



Metal -
Tees

- Carbon Steel NPT 0.50-2.0" / SCH 40
- Copper Sweat-on 0.50-2.0" / SCH K
- Galvanized Iron NPT 1.00-2.0" / SCH 40

* BSP and ABS fittings are available through your local Georg Fischer sales company.

Weldolets / brazolets



Weldolet

- PVC-U DN65-DN600
- PP DN65-DN600
- PE DN65-DN600
- PVDF DN65-DN600
- SS DN50-DN630



Weldolets / Brazolets

- Carbon Steel 2.5-12.0" / SCH 40
- Brass 2.5-12.0" / SCH 40
- 316 SS 2.5-12.0" / SCH 40

Metalex



Metalex

- SS Socket 0.50-1.00"
- SS Weld-on 1.25-12"



Metalex Weld-on Mini-Tap

- 1.25-12"



Wafer fittings



Wafer

- PP DN65–DN300 (2.5-4.0")
- PVDF DN65-DN200 (3.0")

Saddles



Saddle

- Iron Multi 1.25-1.50" / SCH 80



Strap-On

- Iron 2.0-12.0" / SCH 80



Electrofusion Transition

- PE 2.0-12.0"



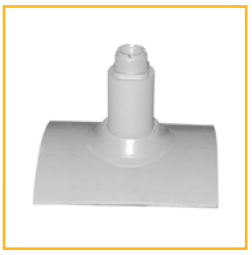
Electrofusion

- PE DN65-DN400



Clamp-On

- PVC 2.0-8.0" / SCH 80
- PVC-U metric DN65-DN200
- BSP 3"–6"



PVC-U Glue-On

- PVC 10"-12" / SCH 80



Glue-On

- PP Glue-On 10.0" and 12.0" / SCH 80



Glue-on

- PVC-U DN65-DN300
- ABS DN65-DN200

Control

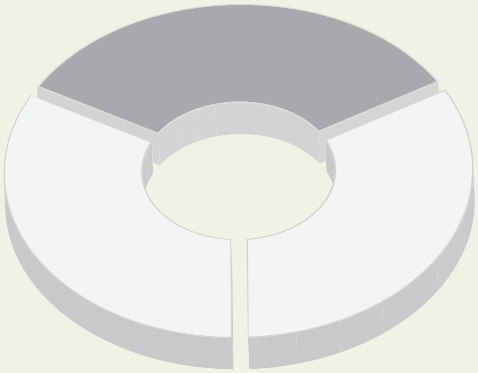
Precise control throughout your automation loop



Clever design makes life easy. All our measurement parameters can be connected with one and the same transmitter, a true multi-parameter controller. Additional functionalities like batch control or communication technologies can be added anytime because of the modular design. Our control products are simple to operate, have intuitive menu structures and can be upgraded modularly.

Control products

An overview of the key products



Multi-parameter instruments



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- „Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity / Resistivity, HART modules 4 to 20 mA Output Module are available



Multi-parameter/ Multi-channel controller - type 8900

- AC or DC power option
- Up to 6 sensor inputs (2 frequency inputs max)
- Up to 4 4-20mA outputs
- Up to 8 relays
- Use with all digital (S^3L) sensors

Flow instruments



SmartPro Batch Controller type 9900-1BC

- "Dial-type" digital bar graph
- Remote control wiring with start, stop and resume terminals for remote batch control
- 3 programmable relays
- 10 batch memory
- Compatible with flow sensors
- Two-stage control to prevent overfilling
- Simple and advanced programing modes

Accessories



i-GO Signal Converter type 8058

- Connects third party 4-20 mA signals to the 8900 and 9900
- Available for single or dual 4-20 mA sensor inputs
- Compatible with 8900, 9900
- Requires programming at the factory with the 8350, 8450

Actuation

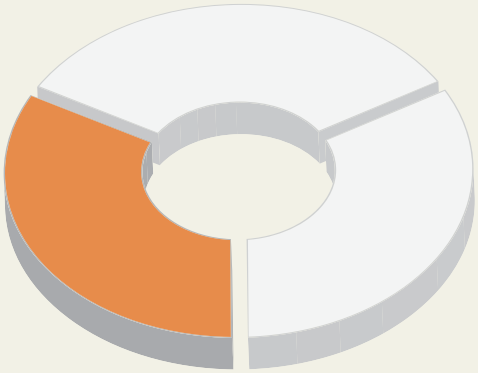
Reliable actuation with configuration flexibility



With our modular set-up, valves and actuators can be combined flexibly and additional functionalities, like positioners or monitoring devices, can be added optionally. Naturally, we offer the whole range in all-plastic designs, which are capable of withstanding harsh environments. A wide range of pressure regulating valves and accessories complete our actuation portfolio.

Actuation products

An overview of the key products



Actuators electric and pneumatic



Electric actuators
type EA11

- 100-230 V AC, 24 V AC/DC
- 20 Nm peak (F05)
- 150 000 cycles, 40% ED
- Position Feedback optional
- Fail-safe modul optional
- Heating Element optional



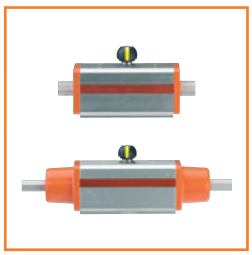
Electric actuators
type EA21, EA31, EA42

- 100-230 V AC, 24 V AC/DC
- EA21: 20 Nm peak (F05) 100% ED
- EA31: 120 Nm peak (F07) 50% ED
- EA42: 250 Nm peak (F07) 35% ED
- Accessory like EA11 plus additional
- with monitoring and positioner options



Pneumatic actuator
type PA11, PA21

- FC, FO, DA
- Rack and pinion principle
- Accessory interface acc. ISO5211
- Visual position indication
- Full plastic solution
- PA11: 10 Nm/ PA21: 20 Nm



Pneumatic actuator
type PA30 - PA90

- FC, FO, DA
- Scotch Yoke principle
- Accessory interface acc. ISO5211
- Visual position indication
- Adjustable end stops
- Various coatings on request

Actuated butterfly valves



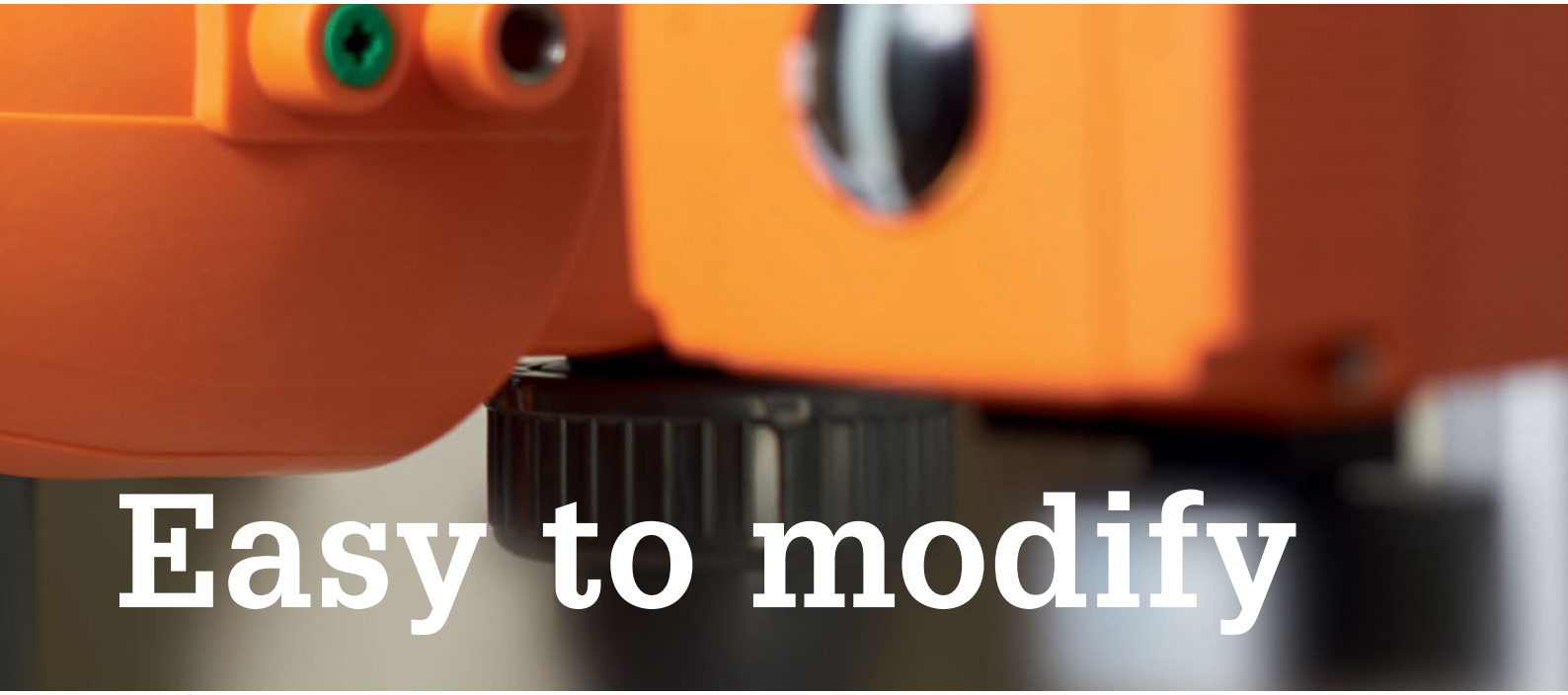
Butterfly valve electric
type 140 / 141 / 142

- Electric actuated butterfly valve
- Actuator Type: EA31/42 (24 V, 110-230 V)
- Plastic Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Typ 567/568
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50-DN600; 568: DN50-DN200



Butterfly valve electric
type 038-E/ 039-E

- Electric actuated butterfly valve
- Actuator Type: EA31/42 (24 V, 110-230 V)
- Metal Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Type 037/038/039
- 037: Aluminium, Wafer; 038/039: Ductile Iron with Powder/ Epoxy Coating/ Rilsan Coating
- 037: DN50-DN300; 038: DN50-DN600; 039: DN50-DN1200



Easy to modify

Actuated butterfly valves



Butterfly valve pneumatic
type 240 / 241 / 242

- Pneumatic actuated butterfly valve
- Actuator Type: PA30-PA90
- Plastic Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Typ 567/568
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50-DN600; 568: DN50-DN200



Butterfly valve pneumatic
type 038-P / 039-P

- Pneumatic actuated butterfly valve
- Actuator Type: PA30-PA90
- Metal Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Type 037/038/039
- 038/039: Ductile Iron with Powder/Epoxy Coating/ Rilsan Coating
- 038: DN50-DN600; 039: DN50-DN1200

Actuated ball valves



Electric Ball Valve
type 104

- Electric actuated 2-way ball valve
- Actuator Type: EA04 (24V, 85-230V)
- Actuating angle 0-90°
- Ball Valve 546
- PVC-U, CPVC, PP-H
- DN10 – DN50
- Limited accessory range
- Low cycle applications



Electric ball valve
type 107

- Electric actuated 2-way ball valve
- Actuator Type: EA11 (24 V, 110-230 V)
- Actuating angle 90°
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10-DN50



Electric ball valve
type 130-135

- Electric actuated 2-way ball valve
- Actuator Type: EA21/31 (24 V, 110-230 V)
- Actuating angle 90°
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- EA21 DN10-DN50; EA 31 DN65-DN100



Electric ball valve
type 185-188

- Electric actuated 3-way ball valve
- Actuator Type: EA21 (24 V, 110-230 V)
- Actuating angle 90°; max. 180°
- Ball Valve 543
- PVC-U; PVC-C; ABS; PP; PVDF
- DN10–DN50



Pneumatic ball valve
type 285-288

- Pneumatic actuated 3-way ball valve
- Actuator Type: PA11/PA21
- Actuating angle 90°
- Ball Valve 543
- PVC-U, PVC-C, ABS, PP, PVDF
- DN10-DN50



Pneumatic ball valve
type 230-235

- Pneumatic actuated 2-way ball valve
- Actuator Type: PA11/PA21 (<DN65)
- Actuator Type: PA30-PA90 (>DN50)
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10-DN100

Actuated diaphragm valves



Diaphragm valve DIASTAR type Six

- ABS, PVC-U, PVC-C, PP-H
- EPDM
- DN15-DN50
- PN6
- pneumatic actuated FC



Diaphragm valve DIASTAR type Ten

- ABS, PVC-U, PVC-C, PP-H, PP-N, PVDF, PVDF-HP
- EPDM, FPM, PTFE / EPDM, PTFE / FPM
- DN15-DN50
- PN10
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type TenPLUS

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FPM, PTFE / EPDM, PTFE / FPM
- DN15-DN50
- PN10 (both sides)
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type Sixteen

- PVDF, PVDF-HP
- EPDM, FPM, PTFE / EPDM, PTFE / FPM
- DN15-DN50
- PN16
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type 025

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FPM, PTFE/EPDM, PTFE / FPM
- DN65-DN150
- up to PN10
- pneumatic actuated FC, FO, DA

Actuated process control valves



Solenoid valve type 157

- direct acting pivoted armature valve
- 2/2-Ways
- PVC-U
- EPDM, FPM
- 230 V AC, 24 V AC, 24 V DC
- DN4-DN8
- 0-4 bar depending on dimension



Solenoid valve type 160 / 161

- direct acting pivoted armature valve
- 2/2- or 3/2-Ways
- PVC-U
- EPDM, FPM
- 230 V AC, 24 V AC, 24 V DC
- DN10-DN20
- 0-3 bar depending on dimension



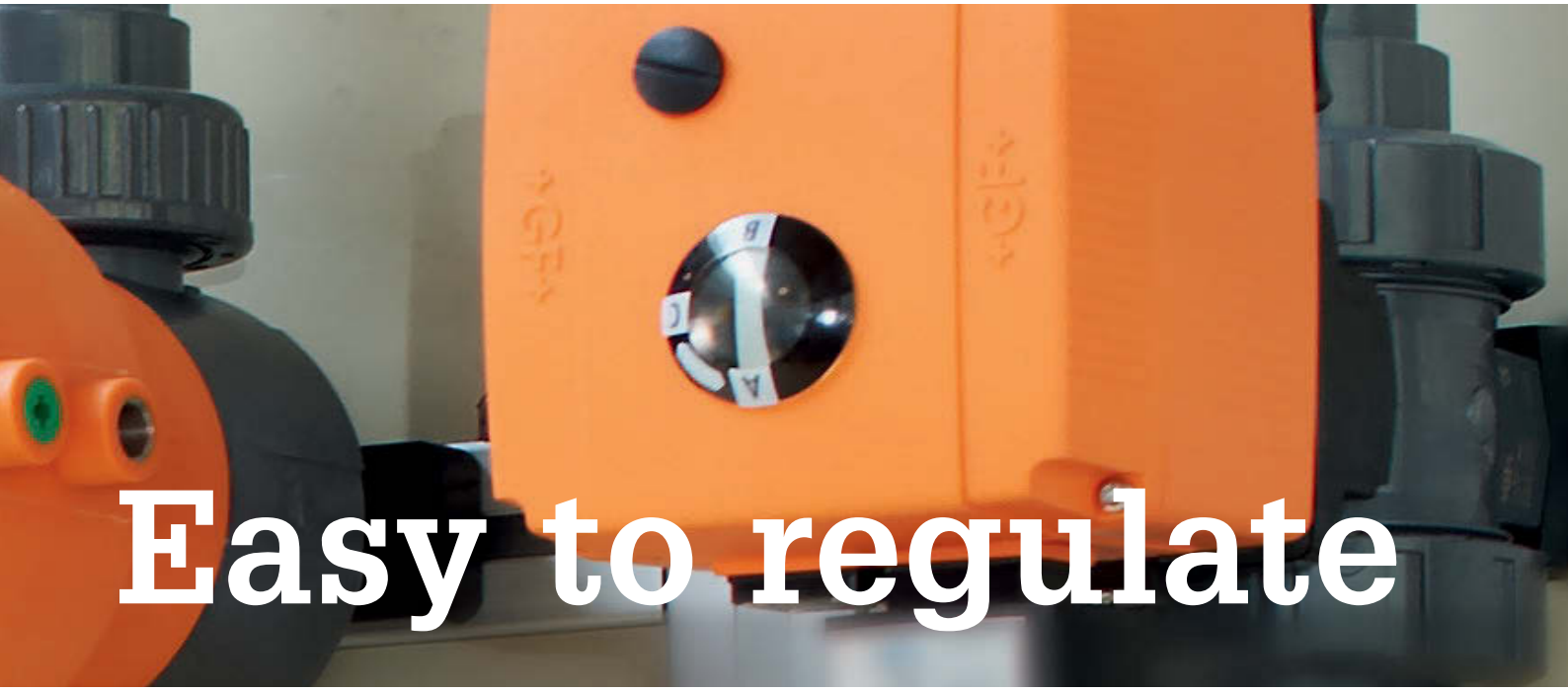
Solenoid valve type 165

- pilot assisted solenoid valve
- 2/2-Ways
- PVC-U, PVDF
- EPDM, FPM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN15-DN50
- 0.5-6 bar



Solenoid valve type 166

- direct acting pivoted armature valve
- 2/2- or 3/2-Ways
- PVC-U, PVDF
- EPDM, FPM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN3-DN5
- 0-10 bar depending on dimension



Easy to regulate

Pressure regulating valves



Pressure Reducing Valve type 582

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FPM
- DN10–DN50
- 0.5-9 bar or 0.3-3 bar
- Manometer with or without gauge guard optional



Pressure Retaining Valve type 586

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FPM
- DN10–DN50
- 0.5-9 bar or 0.3-3 bar
- Manometer with or without gauge guard optional



Pressure retaining valve type V86

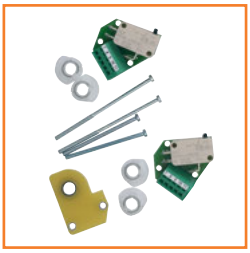
- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V86: DN65-80: 1–6 bar
  DN100: 1–4 bar



Pressure reducing valve type V82

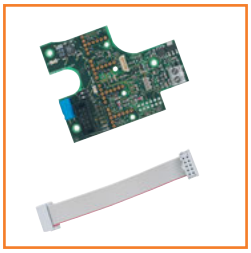
- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V82: DN65-80: 0.5-6 bar
  DN100 0.5–4 bar

Electric accessories



Limit switches (position feedback) for EA11-42

- Mechanical switches (AgNi or Au)
- NPN/PNP
- Middle position (3way ball valve)
- Additional 2 limit switches
- For EA11: AgNi switches only



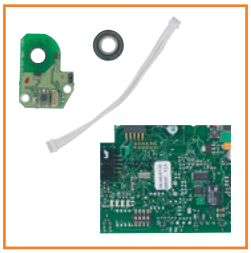
Monitoring Options for electric actuators for EA21-42

- Cycle counter
- Cycle time monitoring
- Cycle time extention
- Motor current monitoring
- 4-20 mA Feedback
  (together with Position detection)



Heating element and Fail-safe return unit for EA11-42

- Heating element reduces condensation
- Caused by temperature variation
- Fail safe return unit for safe
- Adjustment in case of power failure
- 230 V AC; 24 V AC/DC



Positioner and Position Detection for EA21-42

- Input: 0-10 V or 4-20 mA
- Output: 4-20 mA
- Self-learning function
- End-stop adjustment
- Plug and Play



Pneumatic accessories



Solenoid pilot valve 3/2-ways type PV94

- 230 V, 50-60 Hz
- 115 V, 50-60 Hz
- 24 V, 50-60 Hz
- 24 V DC
- G 1/8;G1/4; G6 mm
- DN1.2



Solenoid pilot valve 3/2-ways type PV95

- 230 V, 50-60 Hz
- 115 V, 50-60 Hz
- 24 V, 50-60 Hz
- 24 V DC
- G 1/8;G1/4;
- DN1.5-DN2



Solenoid Pilot valve type 2000

- Modular version for 3/2-way and 5/2-way valves
- 24 V DC
- Connection module AS-Interface
- Connection module profibus interface



Solenoid pilot valve type MNL 532

- Version for 3/2-way and 5/2-way
- Namur connection
- Material of body: Aluminium
- 24 V AC, 24 V DC, 48 V AC, 110 V AC, 230 V AC



Electric position feedback type ER 52-1/ER53-1

- For pneumatic stroke actuators
- For Diastar Ten, TenPLUS, Sixteen, 025
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur
- With visual position indication



Electric position feedback limit switch box

- For pneumatic rotary actuators
- For PA11-90:
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur
- With visual position indication



Stroke limiter/ manual override

- For Diastar all type Ten, TenPLUS, Sixteen, 025



Digital electro-pneumatic positioner type DSR 500

- Mounted on pneumatic control valves
- Linear and rotary actuators
- Nominal stroke 3-28 mm
- Self-learning
- Control signal 4-20 mA
- 24 V DC

Communication Products

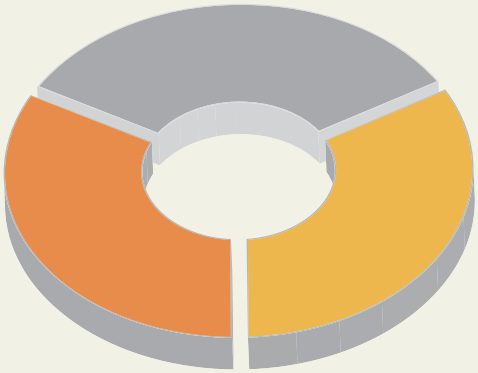
Different communication protocols for different needs



Our automation loop can be managed with various communication technologies and can therefore be seamlessly integrated into existing plant management systems.
We offer analogue and digital communication technologies which support on / off or continuous control loops. Benefits are less wiring, faster installations and more efficient diagnostic and parameterization capabilities.

Communication products

An overview of the key products



Communication

HART

- HART Protocol superimposes digital signals on top of the 4-20 mA analog signal
- Communication occurs between two HART-enabled devices
- HART protocol operates according to the master-slave method



Profibus

- Modular version for 3/2-way and 5/2-way valves
- 24 V DC
- Connection module AS-Interface
- Connection module profibus interface



AS-interface for pneumatic rotary actuators

- Pilot valve 5/2-Ways
- Electric feedback integrated
- Full plastic housing
- Optical status indicator
- AS Interface Version 3.0



AS-interface for electric actuators

- Integrated control an electric
- Feedback
- For 24 V DC actuators
- For EA11-EA42
- Manual override standard



AS-interface for manual valves with feedback

- With integrated feedback
- Ideal for ball valves
- Ideal for butterfly valves
- Ideal for diaphragm valves



AS-interface for pneumatic stroke actuators

- Pilot valve 3/2-Ways
- Compact design
- Full plastic housing
- Optical status indicator
- AS Interface Version 3.0



AS-interface for sensor with switch output

- With switiching output
- For level switch
- For flow switch
- For pressure switch
- For temperature switch



Profibus Concentrator type 3-0486

- Connect GF Actuated Valves and Sensors to Profibus Automation Networks
- Supports Six S3L sensors or relay modules plus a proportional controlled actuated valve
- Four of the S3L inputs support Flow frequency devices for cost effective flow monitoring
- Two of the S3L inputs support 4 to 20mA current loop inputs for connections to third party sensors
- 4 to 20 mA current loop input and output for connection to GF proportional controlled actuated valves



Valves

The right valve for your application

We offer one of the most comprehensive valve product ranges, which enables you to find the right match for your application.
Our valves are available in a wide selection of dimensions, materials, chemical resistances, standards, actuation, operation principles, and pipe connections and are designed for long service life. The combination of the right valve selection and our high product quality leads to a favorable total cost of ownership.

Manual ball valves



Ball valve
type 546

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE, PVDF
- DN10-DN100
- up to PN16 = PVC-U, PVC-C, PVDF; up to PN10 = PP-H, ABS
- Lockable Lever, Multifunctional Module
- Lever
- Linear version



3-Way ball valve
type 543

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE, PVDF
- DN10-DN50
- up to PN10
- Lockable Lever, Multifunctional Module
- Lever



Metering ball valve
type 523

- PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE
- DN10-DN15
- up to PN16
- Lever



Ball valve
type 375

- PVC-U
- EPDM, FPM, Ball Seat: PTFE
- DN10-DN100
- up to PN16 to DN50, up to PN10 to DN100
- Lever
- not actuated



Coloro
type 353-355

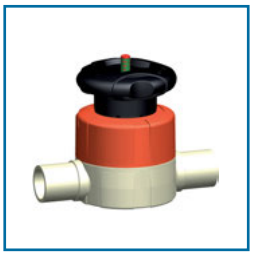
- PVC-U
- EPDM, Ball Seat: HD-PE
- DN10-DN50
- up to PN16
- Lever
- not actuated

Manual diaphragm valves



Diaphragm valve
type 514

- PVC-U; PVC-C; ABS; PP-H; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



Diaphragm valve
type 515

- PVC-U; PVC-C; ABS; PP-H; PP-N; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



Diaphragm valve
type 517 (317)

- PVC-U; PVC-C; PP-H; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50 (Type 317: DN65-DN150)
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



Diaphragm valve
type 519

- PP-H; PP-N; PVDF-HP
- EPDM; PTFE/EPDM; PTFE/FPM
- DN20-DN20 : d110-d63
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module

Manual butterfly valves



Butterfly valve manual
type 567 / 568

- ABS, PVC-U, PVC-C, PP-H, PVDF
- Sealings: EPDM, FPM, PTFE / FPM
- DN50-DN300 (-DN600)
  568: DN50-DN200
- PN10
- Lever, Gear, 230 V o. 24 V, FC / FO/DA
- Electrical Feedback Module



Metal butterfly valve
type 038 / 039

- 038: GGG,LUG; 039: GGG Wafer
- Sealings: EPDM, FPM
- 038: DN50-DN300;
  039: DN50-DN1200
- PN10/PN16
- Lever, Gear, 230 V o. 24 V, FC/FO/DA

Accessories



Multifunctional
modules

- Multi functional module
- Accessory for ball valves 546/543
- Limit switch Ag Ni, Au, Namur, NPN, PNP
- Interface for el./pneum. Actuators



Electrical feedback
module

- Electrical feedback module
- Accessory for diaphragm valves 514-519
- Limit switch Ag Ni or Au
- Self adjusting mechanism



Integrated position
indicator

- Integrated position indicator
- Accessory for butterfly valves 567
- Limit switch Ag Ni, AU, Namur, NPN, PNP

Special valves



Check valve
type 561 / 562

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN100
- up to PN16
- Type 562 with spring



Ventilating valve/
Ventilating and bleed valve
type 591 / 595

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN100
- up to PN16
- Type 595 with spring



Special valves



Angle seat check valve
type 303 / 304

- PVC-U, ABS
- EPDM, FPM
- DN10-DN80
- PN10



Wafer check valve
type 369

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN32-DN300
- PN6



Line strainer
type 305 / 306

- PVC-U, PVC-C, ABS, PP-H, PVC-U transparent
- EPDM, FPM
- DN15-DN50, PVC-U up to DN80
- PN10



Angle seat valve
type 300 / 301

- PVC-U
- PE, PTFE
- DN10-DN80
- PN10



Water jet suction pump (eductor)
type P20

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN80
- PN10



Throttle valve
type V251

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN50
- PN10



Gauge guard
type Z700/701

- PVC-U, PP-H, PVDF
- EPDM, EPDM-PTFE-coated
- DN20 or DN 25
- PN10
- With or without manometer



Float valve
type V140

- PVC, PP
- EPDM, FPM
- DN10-DN80
- PN6
- Vertical mounting position

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Fundamentals for ball valves, hand operated

Ball valves type 546 DN10 - DN100

Overview

Product description

Manual ball valves are used for shutting off or diverting gaseous or liquid media. They are used in various application areas. Their numerous specific product features offer quality, flexibility, safety and, first of all, modularity. With ball valve type 546 you obtain a well-engineered product, which incorporates over 40 years experience of GF Piping Systems' know how with plastic pipes. With ball valve type 546 you get a product that is part of a modular system. A ball valve as part of a system, which considers your requirements for operational safety as well as your ecological and economic requirements.

Versions

Ball valve type 546 is characterised by its versatility. This is reflected in the different connection types and the choice of materials. From the simple standard version up to the actuated version, we off er you all variations with a broad range of accessories. Even the manual version has interesting additional functions, such as the integrated fixing system and a lockable lever with catch function. With the function module, the valve positions Open/Closed of the control can be fed back in various signal types.

Ball valve type 546 with solvent cement sockets



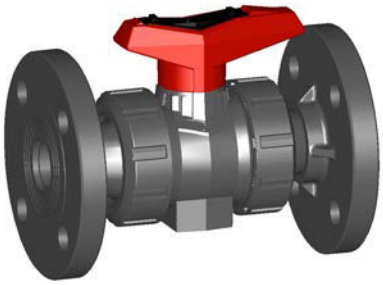
Ball valve type 546 with solvent cement spigots



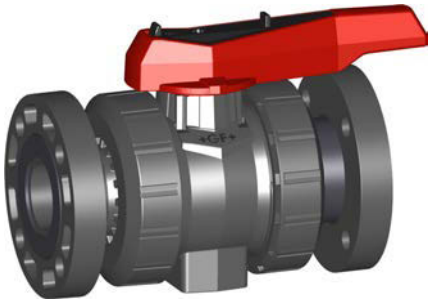
Ball valve type 546 with threaded sockets Rp



Ball valve type 546 with fixed flange serrated metric



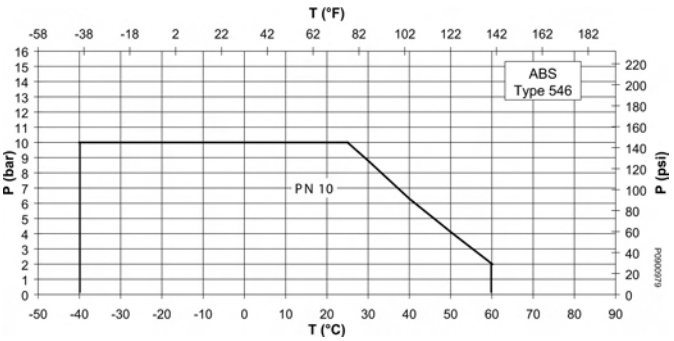
Ball valve type 546 with backing flange metric



Product features

- From the manual valve to the automated valve with many options - from electrical position feedback, the lockable hand lever up to the pipe clip
- The greatest range of products (via the configurator, all executions can be generated)
- Ergonomic hand lever (optionally lockable) with integrated tool for dismounting the union bushing
- Integrated fixation system with mounted threaded inserts

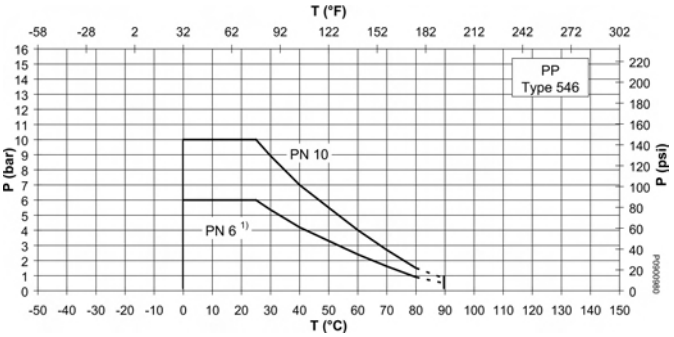
ABS



P Permissible pressure in bar, psi

T Temperature in °C, °F

PP



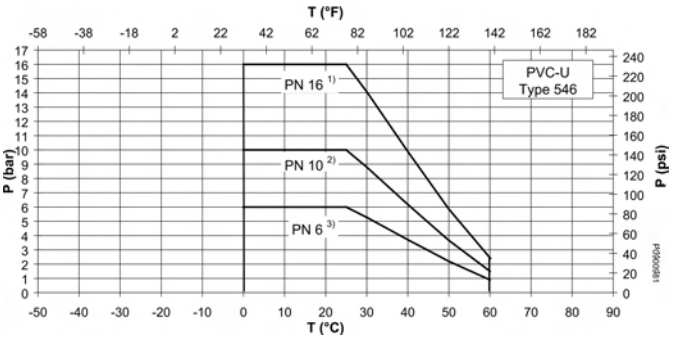
1) E. g. ball valve with PP or PE100 spigot end, SDR 17

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.

PVC-U



1) The central part of the ball valve is designed for the nominal pressure PN 16

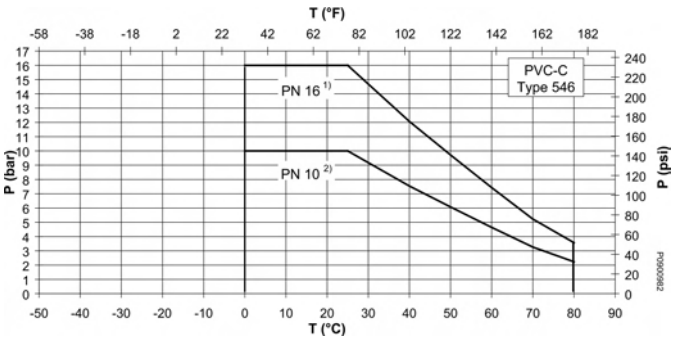
2) Depending on the valve end, the nominal pressure is reduced to PN 10

3) Depending on the valve end, the nominal pressure is reduced to PN 6

P Permissible pressure in bar, psi

T Temperature in °C, °F

PVC-C



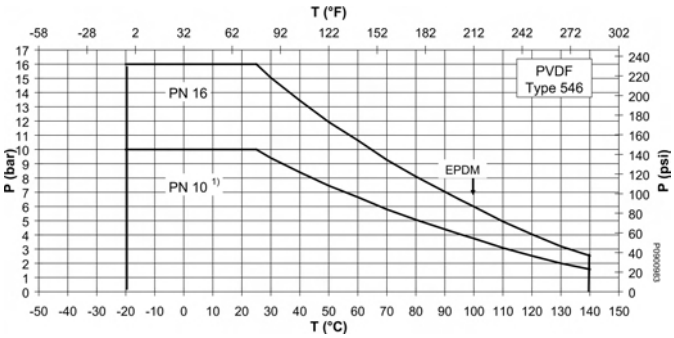
1) The central part of the ball valve is designed for the nominal pressure PN 16

2) Depending on the valve end, the nominal pressure is reduced to PN 10

P Permissible pressure in bar, psi

T Temperature in °C, °F

PVDF

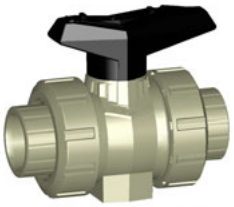


1) E. g. ball valve with threaded sockets
EPDM-sealing to max. 100 °C

P Permissible pressure in bar, psi

T Temperature in °C, °F

Ball valves PP-H



DN10/15 - 50

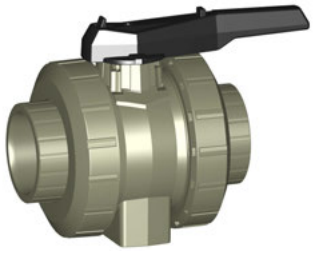
PROGEF Standard
Ball valve type 546
With mounting inserts
With fusion sockets metric

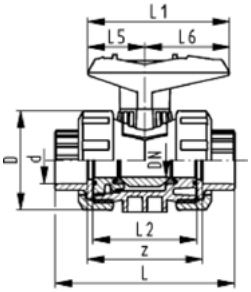
Model:

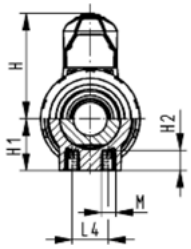
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

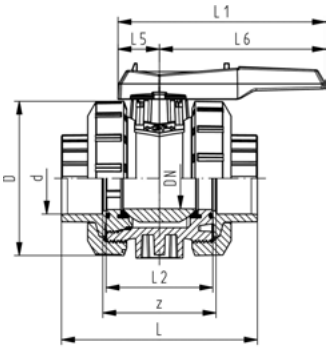
Option:

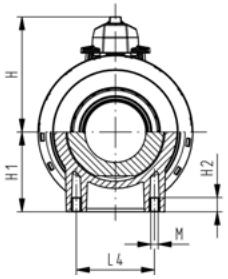
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+





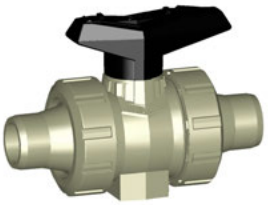




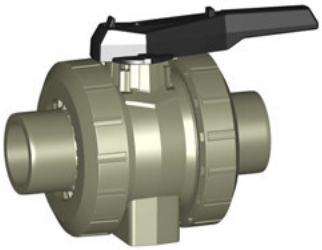


d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	10	10	71	**167 546 401**	0.119	**167 546 411**	0.115
20	15	10	185	**167 546 402**	0.120	**167 546 412**	0.123
25	20	10	350	**167 546 403**	0.188	**167 546 413**	0.184
32	25	10	700	**167 546 404**	0.256	**167 546 414**	0.258
40	32	10	1000	**167 546 405**	0.444	**167 546 415**	0.451
50	40	10	1600	**167 546 406**	0.608	**167 546 416**	0.617
63	50	10	3100	**167 546 407**	1.108	**167 546 417**	1.130
75	65	10	5000	**167 546 408**	3.322	**167 546 418**	3.335
90	80	10	7000	**167 546 409**	4.701	**167 546 419**	5.500
110	100	10	11000	**167 546 410**	7.276	**167 546 420**	8.700

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
16	50	57	27	12	93	77	56	25	32	45	M6	67	⅜
20	50	57	27	12	95	77	56	25	32	45	M6	66	½
25	58	67	30	12	109	97	65	25	39	58	M6	77	¾
32	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	84	90	44	15	135	128	85	45	54	74	M8	99	1 ¼
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 ½
63	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	166	149	85	15	233	270	136	70	64	206	M8	167	2 ½
90	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	238	178	123	22	301	320	164	120	64	256	M12	215	4



DN10/15 - 50



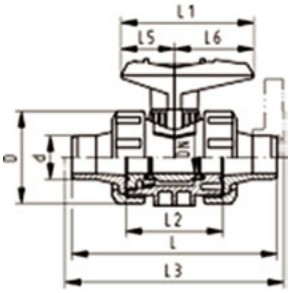
PROGEF Standard
Ball valve type 546
With mounting inserts
With socket fusion spigots metric

Model:

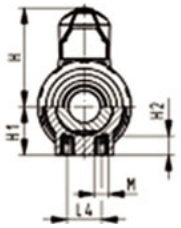
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

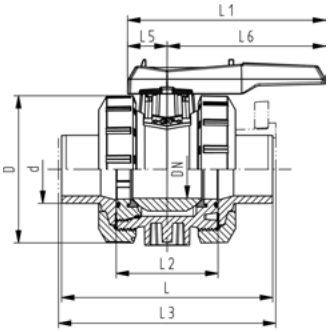
Option:

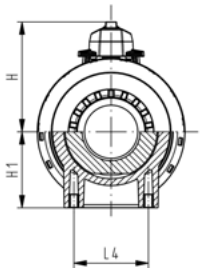
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	10	10	71	**167 546 041**	0.120	**167 546 051**	0.120
20	15	10	185	**167 546 042**	0.120	**167 546 052**	0.120
25	20	10	350	**167 546 043**	0.180	**167 546 053**	0.180
32	25	10	700	**167 546 044**	0.266	**167 546 054**	0.260
40	32	10	1000	**167 546 045**	0.450	**167 546 055**	0.450
50	40	10	1600	**167 546 046**	0.635	**167 546 056**	0.640
63	50	10	3100	**167 546 047**	1.174	**167 546 057**	1.210
75	65	10	5000	**167 546 048**	3.800	**167 546 058**	3.800
90	80	10	7000	**167 546 049**	5.600	**167 546 059**	5.600
110	100	10	11000	**167 546 050**	8.800	**167 546 060**	8.800



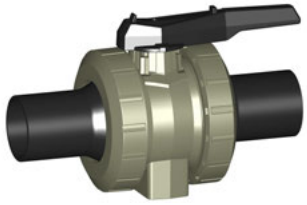




d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	closest inch [inch]
16	50	57	27	12	110	77	56		25	32	45	M6	⅜
20	50	57	27	12	120	77	56	130	25	32	45	M6	½
25	58	67	30	12	139	97	65	150	25	39	58	M6	¾
32	68	73	36	12	150	97	71	160	25	39	58	M6	1
40	84	90	44	15	170	128	85	180	45	54	74	M8	1 ¼
50	97	97	51	15	190	128	89	200	45	54	74	M8	1 ½
63	124	116	64	15	220	152	101	230	45	66	87	M8	2
75	166	149	85	15	280	270	136	290	70	64	206	M8	2 ½
90	200	161	105	15	296	270	141	310	70	64	206	M8	3
110	238	178	123	22	336	320	164	350	120	64	256	M12	4



DN10/15 - 50



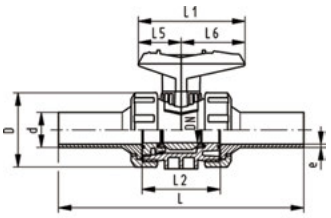
ecoFIT
Ball valve type 546
With mounting inserts
With butt fusion spigots long
PE100 SDR11 metric

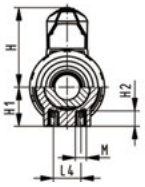
Model:

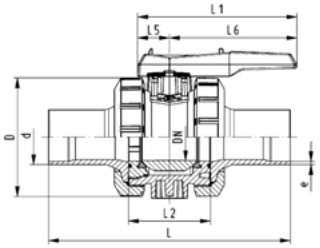
- Material: PP-H/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

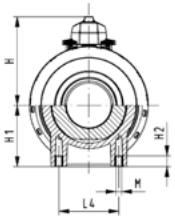
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+







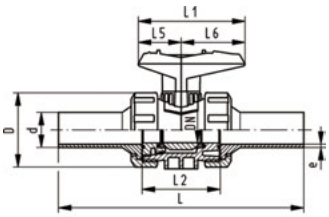


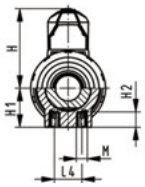
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	15	10	185	**167 546 282**	0.131	**167 546 292**	0.130
25	20	10	350	**167 546 283**	0.195	**167 546 293**	0.195
32	25	10	700	**167 546 284**	0.285	**167 546 294**	0.280
40	32	10	1000	**167 546 285**	0.485	**167 546 295**	0.485
50	40	10	1600	**167 546 286**	0.703	**167 546 296**	0.695
63	50	10	3100	**167 546 287**	1.296	**167 546 297**	1.309
75	65	10	5000	**167 546 288**	2.788	**167 546 298**	3.900
90	80	10	7000	**167 546 289**	5.569	**167 546 299**	5.900
110	100	10	11000	**167 546 290**	9.300	**167 546 300**	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]	closest inch [inch]
20	50	57	27	12	193	77	56	25	32	45	M6	2,3	½
25	58	67	30	12	216	97	65	25	39	58	M6	2,3	¾
32	68	73	36	12	223	97	71	25	39	58	M6	2,9	1
40	84	90	44	15	249	128	85	45	54	74	M8	3,7	1 ¼
50	97	97	51	15	271	128	89	45	54	74	M8	4,6	1 ½
63	124	116	64	15	321	152	101	45	66	87	M8	5,8	2
75	166	149	85	15	386	270	136	70	64	206	M8	6.8	2 ½
90	200	161	105	15	421	270	141	70	64	206	M8	8.2	3
110	238	178	123	22	484	320	164	120	64	256	M12	10,0	4



DN10/15 - 50





PROGEF Standard
Ball valve type 546
With mounting inserts
With butt fusion spigots long SDR11 metric

Model:

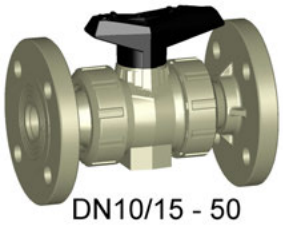
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

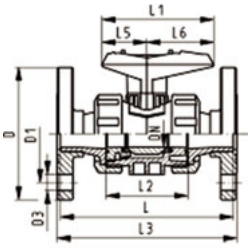
Option:

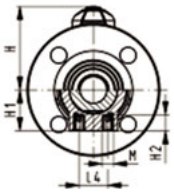
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	15	10	185	**167 546 262**	0.130	**167 546 272**	0.130
25	20	10	350	**167 546 263**	0.195	**167 546 273**	0.195
32	25	10	700	**167 546 264**	0.280	**167 546 274**	0.280
40	32	10	1000	**167 546 265**	0.492	**167 546 275**	0.480
50	40	10	1600	**167 546 266**	0.691	**167 546 276**	0.700
63	50	10	3100	**167 546 267**	1.274	**167 546 277**	1.288

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]	closest inch [inch]
20	50	57	27	12	193	77	56	25	32	45	M6	2,3	½
25	58	67	30	12	216	97	65	25	39	58	M6	2,3	¾
32	68	73	36	12	223	97	71	25	39	58	M6	2,9	1
40	84	90	44	15	249	128	85	45	54	74	M8	3,7	1 ¼
50	97	97	51	15	271	128	89	45	54	74	M8	4,6	1 ½
63	124	116	64	15	321	152	101	45	66	87	M8	5,8	2







PROGEF Standard
Ball valve type 546
With mounting inserts
With fixed flanges PP-H serrated metric

Model:

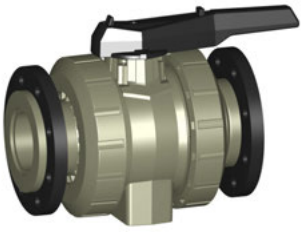
- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Overall length EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

Option:

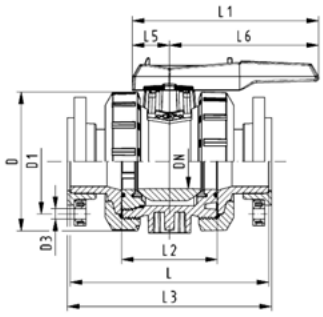
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

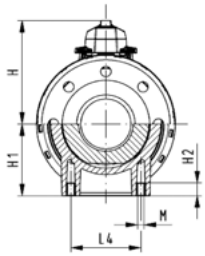
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	½	15	10	185	**167 546 182**	0.245	**167 546 192**	0.245
25	¾	20	10	350	**167 546 183**	0.345	**167 546 193**	0.345
32	1	25	10	700	**167 546 184**	0.492	**167 546 194**	0.495
40	1 ¼	32	10	1000	**167 546 185**	0.820	**167 546 195**	0.824
50	1 ½	40	10	1600	**167 546 186**	1.052	**167 546 196**	1.066
63	2	50	10	3100	**167 546 187**	1.751	**167 546 197**	1.751

d [mm]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M
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 dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501

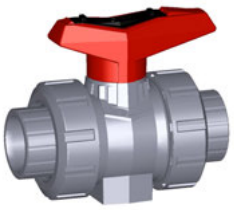
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	**DN** [mm]	**PN** [bar]	**kv-value (Δp=1 bar)** [l/min]	**EPDM Code**	**Weight** [kg]	**FPM Code**	**Weight** [kg]
75	65	10	5000	**167 546 808**	6.352	**167 546 818**	5.417
90	80	10	7000	**167 546 809**	7.907	**167 546 819**	7.941
110	100	10	11000	**167 546 810**	10.896	**167 546 820**	9.928

d [mm]	**D** [mm]	**D1** [mm]	**D3** [mm]	**H** [mm]	**H1** [mm]	**L** [mm]	**L1** [mm]	**L2** [mm]	**L3** [mm]	**L4** [mm]	**L5** [mm]	**L6** [mm]	**M**	**closest inch** [inch]
75	166	145	18	149	85	280	270	136	290	70	64	206	8	2 ½
90	200	160	18	161	105	296	270	141	310	70	64	206	8	3
110	238	180	18	178	123	336	320	164	350	120	64	256	12	4

Ball valves ABS



DN10/15 - 50

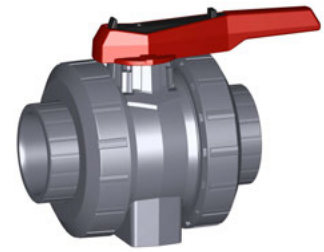
Ball valve type 546 ABS
With mounting inserts
With solvent cement sockets metric

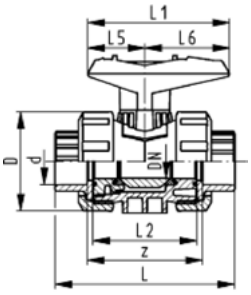
Model:

- 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)

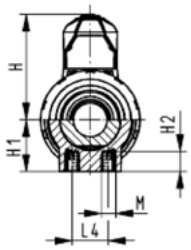
Option:

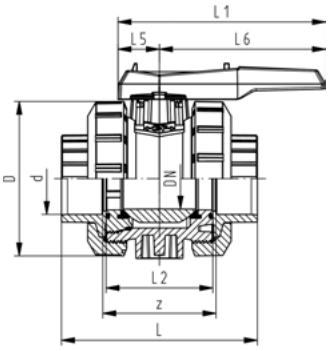
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

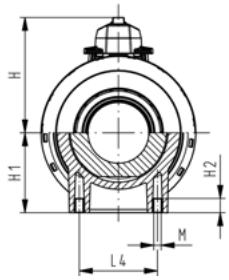




d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
16	10	10	71	**169 546 061**	0.112
20	15	10	185	**169 546 062**	0.114
25	20	10	350	**169 546 063**	0.188
32	25	10	700	**169 546 064**	0.272
40	32	10	1000	**169 546 065**	0.481
50	40	10	1600	**169 546 066**	0.657
63	50	10	3100	**169 546 067**	1.200
75	65	10	5000	**169 546 068**	3.463
90	80	10	7000	**169 546 069**	5.700
110	100	10	11000	**169 546 070**	6.985





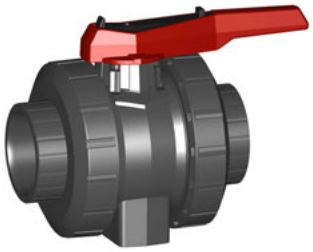


d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	closest inch [inch]
16	50	57	27	12	92	77	56	25	32	45	M6	64	⅜
20	50	57	27	12	95	77	56	25	32	45	M6	64	½
25	58	67	30	12	110	97	65	25	39	58	M6	72	¾
32	68	73	36	12	123	97	71	25	39	58	M6	79	1
40	84	90	44	15	146	128	85	45	54	74	M8	94	1 ¼
50	97	97	51	15	157	128	89	45	54	74	M8	95	1 ½
63	124	116	64	15	183	152	101	45	66	87	M8	107	2
75	166	149	85	15	233	270	136	70	64	206	M8	144	2 ½
90	200	161	105	15	254	270	141	70	64	206	M8	151	3
110	238	178	123	22	301	320	164	120	64	256	M12	174	4

Ball valves PVC-U



DN10/15 - 50



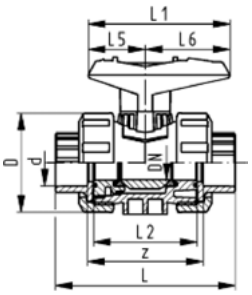
Ball valve type 546 PVC-U
With solvent cement sockets metric

Model:

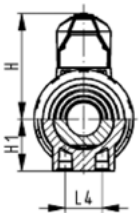
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

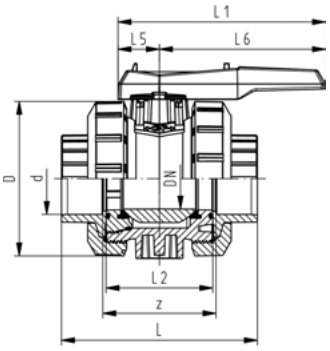
Option:

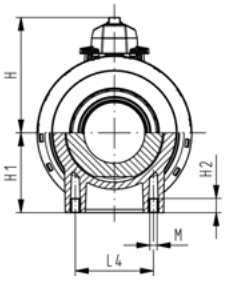
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	10	16	71	**161 546 001**	0.148	**161 546 011**	0.150
20	15	16	185	**161 546 002**	0.150	**161 546 012**	0.152
25	20	16	350	**161 546 003**	0.233	**161 546 013**	0.237
32	25	16	700	**161 546 004**	0.336	**161 546 014**	0.343
40	32	16	1000	**161 546 005**	0.600	**161 546 015**	0.603
50	40	16	1600	**161 546 006**	0.830	**161 546 016**	0.851
63	50	16	3100	**161 546 007**	1.523	**161 546 017**	1.542
75	65	16	5000	**161 546 008**	3.781	**161 546 018**	3.794
90	80	16	7000	**161 546 009**	5.338	**161 546 019**	7.400
110	100	16	11000	**161 546 010**	8.650	**161 546 020**	11.600

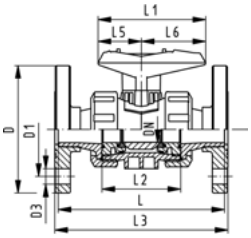


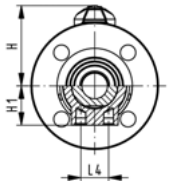




d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]
16	50	57	27	92	77	56	25	32	45	64	⅜
20	50	57	27	95	77	56	25	32	45	64	½
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2
75	166	149	85	233	270	136	70	64	206	144	2 ½
90	200	161	105	254	270	141	70	64	206	151	3
110	238	178	123	301	320	164	120	64	256	174	4







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

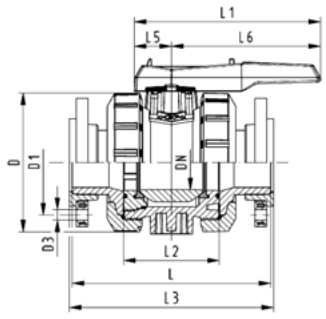
Option:

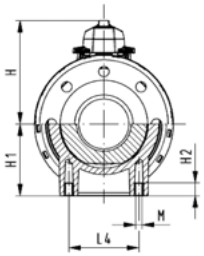
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	15	16	185	**800 000 182**	0.370	**800 000 192**	0.370
25	20	16	350	**800 000 183**	0.510	**800 000 193**	0.510
32	25	16	700	**800 000 184**	0.724	**800 000 194**	0.727
40	32	16	1000	**800 000 185**	1.235	**800 000 195**	1.230
50	40	16	1600	**800 000 186**	1.609	**800 000 196**	1.621
63	50	16	3100	**800 000 187**	2.636	**800 000 197**	2.653

d [mm]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]
20	95	65	14	57	27	124	77	56	130	25	32	45	½
25	105	75	14	67	30	144	97	65	150	25	39	58	¾
32	115	85	14	73	36	154	97	71	160	25	39	58	1
40	140	100	18	90	44	174	128	85	180	45	54	74	1 ¼
50	150	110	18	97	51	194	128	89	200	45	54	74	1 ½
63	165	125	18	116	64	224	152	101	230	45	66	87	2







Ball valve type 546 PVC-U
With mounting inserts
With backing flanges PP-st metric

Model:

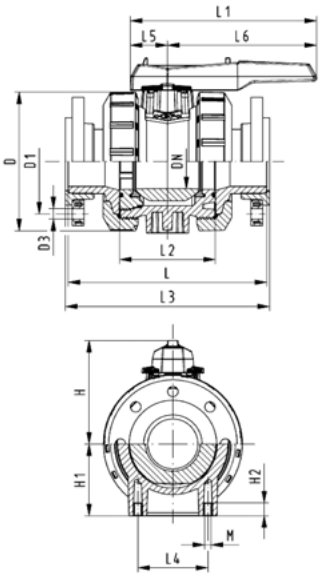
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
75	65	16	5000	**161 546 948**	9.100	**161 546 958**	9.100
90	80	16	7000	**161 546 949**	9.700	**161 546 959**	12.400
110	100	16	11000	**161 546 950**	13.825	**161 546 960**	18.500

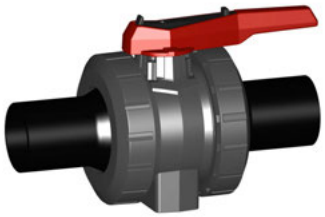
table continued next page



d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	closest inch [inch]	
75	166	149	85	284	270	136	290	70	64	206	1 ¼	
90	200	161	105	300	270	141	310	70	64	206	1 ½	
110	238	178	123	340	320	164	350	120	64	256	2	



DN10/15 - 50



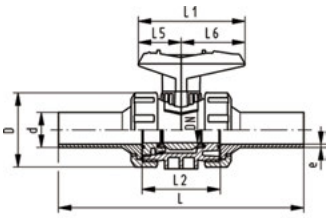
ecoFIT
Ball valve type 546
With mounting inserts
With butt fusion spigots long
PE100 SDR11 metric

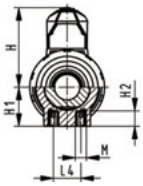
Model:

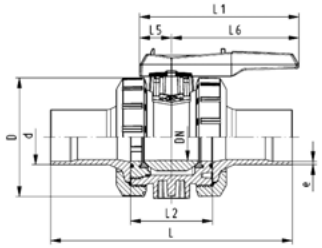
- Material: PVC-U/PE
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

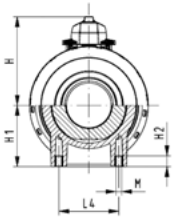
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+





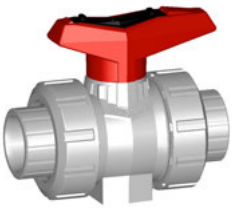




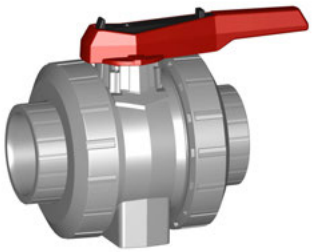
d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	15	16	185	**161 546 822**	0.162	**161 546 832**	0.150
25	20	16	350	**161 546 823**	0.248	**161 546 833**	0.220
32	25	16	700	**161 546 824**	0.362	**161 546 834**	0.310
40	32	16	1000	**161 546 825**	0.550	**161 546 835**	0.550
50	40	16	1600	**161 546 826**	0.886	**161 546 836**	0.750
63	50	16	3100	**161 546 827**	1.630	**161 546 837**	1.360
75	65	16	5000	**161 546 828**	3.651	**161 546 838**	5.000
90	80	16	7000	**161 546 829**	7.500	**161 546 839**	7.500
110	100	16	11000	**161 546 830**	8.860	**161 546 840**	11.800

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]	closest inch [inch]
20	50	57	27	12	193	77	56	25	32	45	M6	1.9	½
25	58	67	30	12	216	97	65	25	39	58	M6	2.3	¾
32	68	73	36	12	223	97	71	25	39	58	M6	2.9	1
40	84	90	44	15	249	128	85	45	54	74	M8	3.7	1 ¼
50	97	97	51	15	271	128	89	45	54	74	M8	4.6	1 ½
63	124	116	64	15	321	152	101	45	66	87	M8	5.8	2
75	166	149	85	15	386	270	136	70	64	206	M8	6.8	2 ½
90	200	161	105	15	421	270	141	70	64	206	M8	8.2	3
110	238	178	123	22	484	320	164	120	64	256	M12	10.0	4

Ball valves PVC-C



DN10/15 - 50



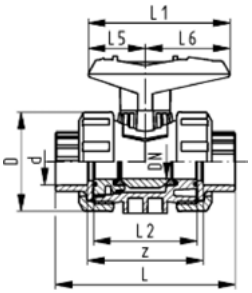
Ball valve type 546 PVC-C
With solvent cement sockets metric

Model:

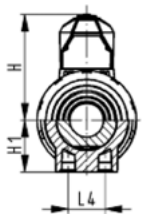
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

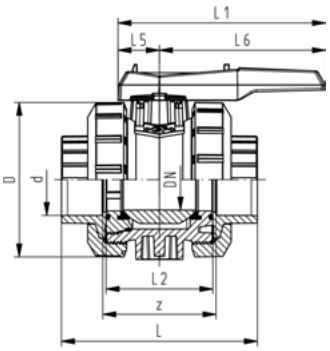
Option:

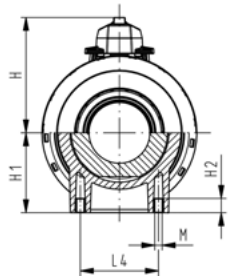
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	10	16	71	**163 546 001**	0.160	**163 546 011**	0.160
20	15	16	185	**163 546 002**	0.163	**163 546 012**	0.160
25	20	16	350	**163 546 003**	0.252	**163 546 013**	0.245
32	25	16	700	**163 546 004**	0.362	**163 546 014**	0.366
40	32	16	1000	**163 546 005**	0.638	**163 546 015**	0.660
50	40	16	1600	**163 546 006**	0.891	**163 546 016**	0.890
63	50	16	3100	**163 546 007**	1.644	**163 546 017**	1.652
75	65	16	5000	**163 546 008**	4.069	**163 546 018**	5.300
90	80	16	7000	**163 546 009**	6.023	**163 546 019**	8.000
110	100	16	11000	**163 546 010**	10.457	**163 546 020**	12.700







d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	closest inch [inch]
16	50	57	27	92	77	56	25	32	45	64	⅜
20	50	57	27	95	77	56	25	32	45	64	½
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2
75	166	149	85	233	270	136	70	64	206	144	2 ½
90	200	161	105	254	270	141	70	64	206	151	3
110	238	178	123	301	320	164	120	64	256	174	4

Fundamentals for butterfly valve, hand operated

Butterfly valve type 567/568 DN50 - DN600

Overview

Product description

Industrial water treatment, drinking water treatment, swimming pools, aquariums, oceanaria and wastewater technology are typical applications of butterfly valves- from Georg Fischer Piping Systems. In most applications of the chemical industry, chemical trade, galvanizing and power plants, extremely aggressive media have to be transported. Often, the combination of aggressive chemicals and entrained solids lead to abrasion and corrosion problems, especially with butterfly valves. Butterfly valves type 567/568 are compact, flexible and reliable shut-off valves for wafer and lugstyle applications. Our system's modular design principle allows you to exchange individual system components – fast, easily and at very little expense and effort. The butterfly valves are available in various materials and sizes, so you will always find the right material for your application or medium.

Versions

Georg Fischer presents the new 567/568 type series of butterfly valves with a comprehensive range of products and a multitude of interesting combination possibilities. We can offer you, for example, manual valves with hand lever or reduction gear. Our system's modular design principle allows you to exchange individual system components – fast, easily and at very little expense and effort. You also have a choice of materials: PVC-U, PVC-C, ABS, or PP-H and PVDF. Our standard sealing materials are EPDM, FPM and PTFE/FPM. Other materials are available on request.





Standard Wafer-type butterfly valve Type 567



Standard Lug-type butterfly valve/ end installation Type 568





Butterfly valve with fine adjustment



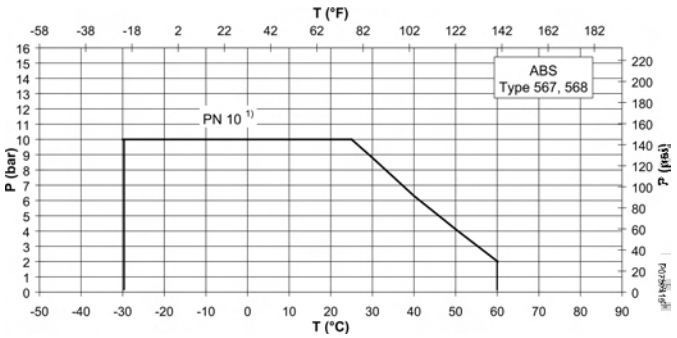


Butterfly valve with reduction gear

Product features

- 50% lower actuation torque compared to a centric butterfly valve due to the double eccentric operating principle
- Noticably reduced abrasion
- Integrated electric position indicator in the mounting flange
- Optimized gaskets
- All components which are in contact with the medium are made of piping material, consequently the permeation can be minimized
- Functional hand lever made of glass-fiber-reinforced polypropylene (PP-GF 30) with 5° ratchet setting, lockable
- Dimensions up to DN 600
- Flexibility thanks to modular design
- Standard interface according to ISO 5211
- For all common standards: DIN/EN/ISO, ANSI/BS, JIS

ABS DN50 - DN300

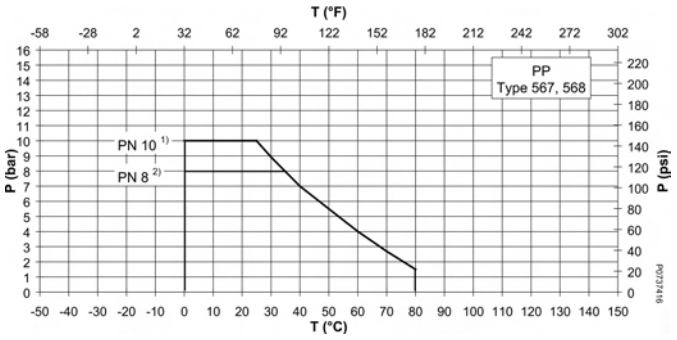


1) DN50 - DN300

T Temperature in °C, °F

P Permissible pressure in bar, psi

PP DN50 - DN300



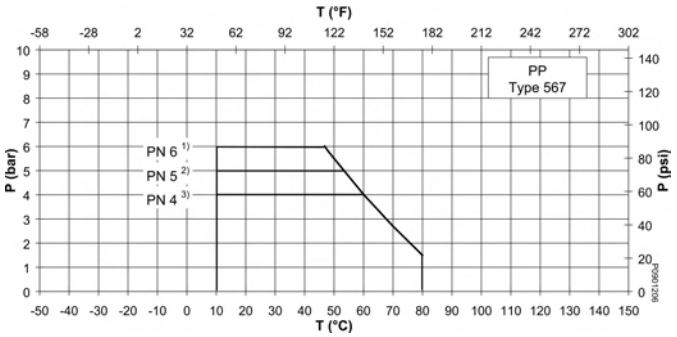
1) DN50 - DN200

2) DN250 - DN 300

T Temperature in °C, °F

P Permissible pressure in bar, psi

PP DN350 - DN600



1) DN350 - 400

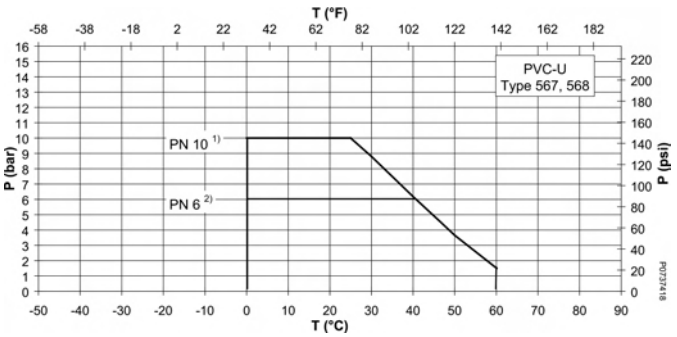
2) DN450

3) DN500 - 600

T Temperature in °C, °F

P Permissible pressure in bar, psi

PVC-U DN50 - DN400



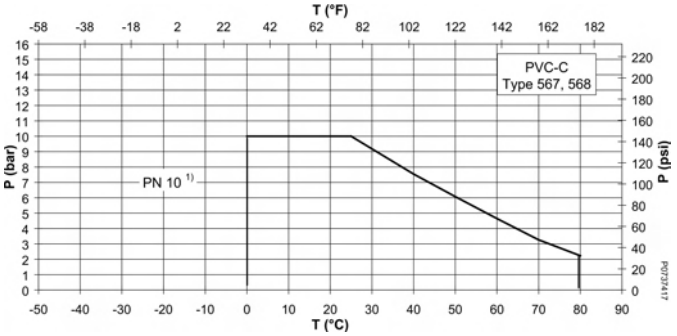
1) DN50 - DN300

2) DN350 - 400

T Temperature in °C, °F

P Permissible pressure in bar, psi

PVC-C DN50 - DN300

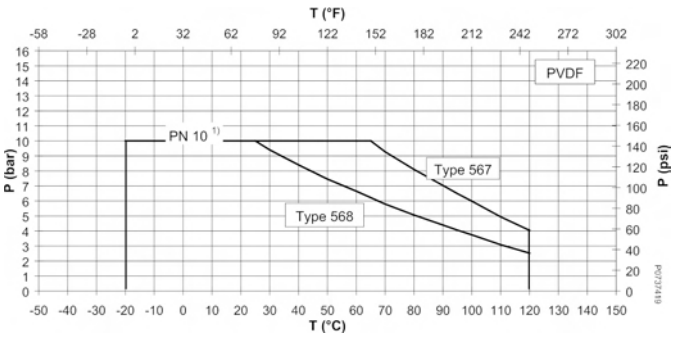


1) DN50 - DN300

T Temperature in °C, °F

P Permissible pressure in bar, psi

PVDF and PVDF/PTFE DN50 - DN300



1) DN50 - DN300

T Temperature in °C, °F

P Permissible pressure in bar, psi

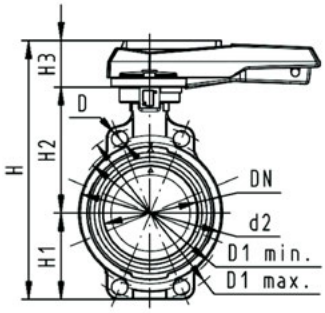
Butterfly valves PP-H

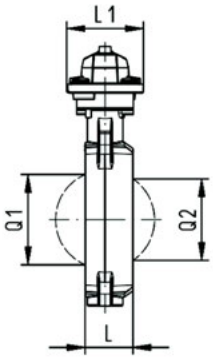


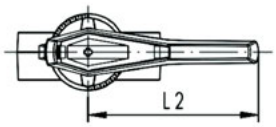
PROGEF Standard
Butterfly valve type 567
Hand lever with ratchet settings

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- 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
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version







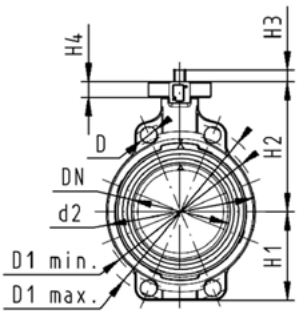
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**167 567 002**	1.170	**167 567 022**	1.627
75	2 ½	65	10	2200	**167 567 003**	1.254	**167 567 023**	1.061
90	3	80	10	3000	**167 567 004**	1.384	**167 567 024**	1.404
110	4	100	10	6500	**167 567 005**	1.961	**167 567 025**	1.998
140	5	125	10	11500	**167 567 006**	2.367	**167 567 026**	2.429
160	6	150	10	16600	**167 567 007**	3.741	**167 567 027**	3.246
225	8	200	10	39600	**167 567 008**	5.545	**167 567 028**	5.609
280	10	250	8	55200	**167 567 009**	11.061	**167 567 029**	11.841
315	12	300	8	80000	**167 567 010**	16.548	**167 567 030**	13.245

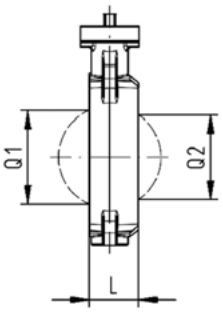
d [mm]	PTFE Code	Weight [kg]
63	**167 567 202**	1.170
75	**167 567 203**	1.254
90	**167 567 204**	1.384
110	**167 567 205**	1.961
140	**167 567 206**	2.367
160	**167 567 207**	3.741
225	**167 567 208**	5.545
280	**167 567 209**	11.061
315	**167 567 210**	16.548

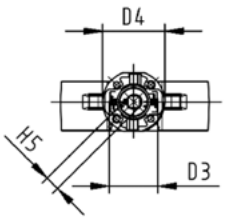
d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253

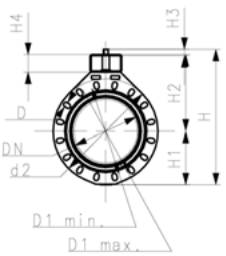












PROGEF Standard
Butterfly valve type 567
Bare shaft

Model:

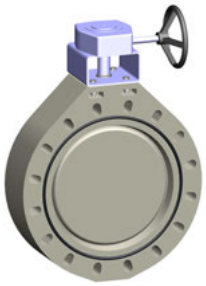
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

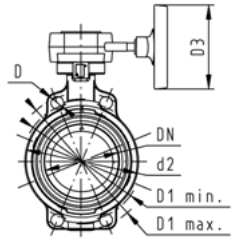
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**167 567 802**	0.699	**167 567 822**	0.721
75	2 ½	65	10	2200	**167 567 803**	0.793	**167 567 823**	0.804
90	3	80	10	3000	**167 567 804**	0.913	**167 567 824**	0.939
110	4	100	10	6500	**167 567 805**	1.409	**167 567 825**	1.450
140	5	125	10	11500	**167 567 806**	1.831	**167 567 826**	1.929
160	6	150	10	16600	**167 567 807**	2.641	**167 567 827**	2.713
225	8	200	10	39600	**167 567 808**	4.110	**167 567 828**	4.186
280	10	250	8	51000	**167 567 809**	9.412	**167 567 829**	10.251
315	12	300	8	73000	**167 567 810**	13.054	**167 567 830**	13.251
355	14	350	6	90000	**167 567 811**	35.000	**167 567 831**	35.000
400	16	400	6	115000	**167 567 812**	45.000	**167 567 832**	45.000
450	18	450	5	155000	**167 567 813**	60.000	**167 567 833**	60.000
500	20	500	4	204000	**167 567 814**	75.000	**167 567 834**	75.000
630	24	600	4	265000	**167 567 815**	110.000	**167 567 835**	110.000

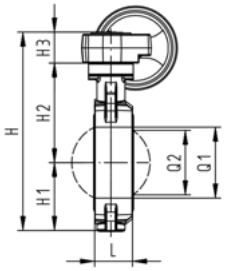
d [mm]	PTFE Code	Weight [kg]
63	**167 567 840**	0.699
75	**167 567 841**	0.793
90	**167 567 842**	0.913
110	**167 567 843**	1.409
140	**167 567 844**	1.831
160	**167 567 845**	2.641
225	**167 567 846**	4.110
280	**167 567 847**	9.412
315	**167 567 848**	13.054
355		
400		
450		
500		
630		

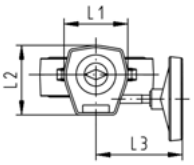
d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	D4 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	70	90	77	134	27	23	11	45	40	
75	115	19	140	145	70	90	83	140	27	23	11	46	54	35
90	131	19	150	160	70	90	89	146	27	23	11	49	67	50
110	161	19	175	191	70	90	104	167	16	23	14	56	88	74
140	187	23	210	216	70	90	117	181	16	23	14	64	113	97
160	215	24	241	241	70	90	130	189	19	23	17	72	139	123
225	267	23	290	295	70	90	158	210	19	23	17	73	178	169
280	329	25	353	362	102	125	205	264	40	23	22	113	210	207
315	379	25	400	432	102	125	228	285	40	23	22	113	256	253
355	535	29	445	477	125	180	268	410	31	100	27	129	325	305
400	595	29	510	540	125	180	300	435	31	100	27	169	353	350
450	635	32	565	578	140	220	320	520	35	120	36	179	393	390
500	700	32	620	635	140	220	350	550	35	120	36	190	444	440
630	813	35	725	750	140	220	420	610	35	120	36	209	530	527

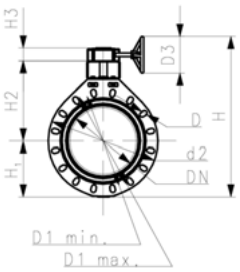












PROGEF Standard
Butterfly valve type 567
Reduction gear with handwheel

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- 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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**167 567 042**	3.003	**167 567 062**	3.007
75	2 ½	65	10	2200	**167 567 043**	2.781	**167 567 063**	3.099
90	3	80	10	3000	**167 567 044**	3.301	**167 567 064**	3.229
110	4	100	10	6500	**167 567 045**	3.736	**167 567 065**	3.741
140	5	125	10	11500	**167 567 046**	2.770	**167 567 066**	4.243
160	6	150	10	16600	**167 567 047**	4.969	**167 567 067**	5.038
225	8	200	10	39600	**167 567 048**	8.538	**167 567 068**	6.539
280	10	250	8	51000	**167 567 049**	12.884	**167 567 069**	13.074
315	12	300	8	73000	**167 567 050**	16.442	**167 567 070**	16.066
355	14	350	6	90000	**167 567 051**	40.000	**167 567 071**	40.000
400	16	400	6	115000	**167 567 052**	50.000	**167 567 072**	50.000
450	18	450	5	155000	**167 567 053**	70.000	**167 567 073**	70.000
500	20	500	4	204000	**167 567 054**	90.000	**167 567 074**	90.000
630	24	600	4	265000	**167 567 055**	125.000	**167 567 075**	125.000

d [mm]	PTFE Code	Weight [kg]
63	**167 567 242**	3.003
75	**167 567 243**	2.781
90	**167 567 244**	3.301
110	**167 567 245**	3.736
140	**167 567 246**	2.770
160	**167 567 247**	4.969
225	**167 567 248**	8.538
280	**167 567 249**	12.884
315	**167 567 250**	16.442
355		
400		
450		
500		
630		

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	150	77	134	50	45	110	120	155	40	
75	115	19	140	145	150	83	140	50	46	110	120	155	54	35
90	131	19	150	160	150	89	146	50	49	110	120	155	67	50
110	160	19	175	191	150	104	167	50	56	110	120	155	88	74
140	187	23	210	216	150	117	181	50	64	110	120	155	113	97
160	215	24	241	241	150	130	189	50	72	110	120	155	139	123
225	267	23	290	295	150	158	210	50	73	110	120	155	178	169
280	329	25	353	362	200	205	264	55	113	130	140	200	210	207
315	379	25	400	432	200	228	285	55	113	130	140	200	256	253
355	535	29	445	477	200	268	410	69	129	180	168	218	325	305
400	595	29	510	540	200	300	435	69	169	180	195	218	353	350
450	635	32	565	578	250	320	520	81	179	220	195	240	393	390
500	700	32	620	635	350	350	550	94	190	220	226	260	444	440
630	813	35	725	750	350	420	610	94	209	220	260	260	530	527



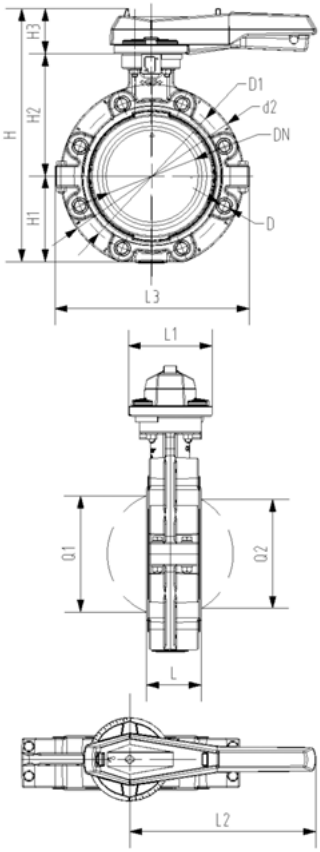
PROGEF Standard
Lugstyle butterfly valve type 578
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**167 578 002**	1.800	**167 578 022**	1.800
75	2 ½	65	10	2200	**167 578 003**	1.895	**167 578 023**	1.895
90	3	80	10	3000	**167 578 004**	2.251	**167 578 024**	2.251
110	4	100	10	6500	**167 578 005**	3.146	**167 578 025**	3.146
140	5	125	10	11500	**167 578 006**	4.660	**167 578 026**	4.660
160	6	150	10	16600	**167 578 007**	6.430	**167 578 027**	6.430
225	8	200	10	39600	**167 578 008**	8.625	**167 578 028**	8.625
280	10	250	8	55200	**167 578 009**	19.528	**167 578 029**	19.528
315	12	300	8	80000	**167 578 010**	26.106	**167 578 030**	26.106

d [mm]	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	160	M16	125	265	77	134	54	45	106	205	150	40	
75	180	M16	145	277	83	140	54	46	106	205	182	54	35
90	195	M16	160	289	89	146	54	49	106	205	210	67	50
110	226	M16	180	328	106	167	55	56	106	255	240	88	74
140	258	M16	210	357	121	181	55	64	106	255	272	113	97
160	284	M20	240	377	133	189	55	72	106	255	297	139	123
225	341	M20	295	436	159	210	67	73	140	408	360	178	169
280	412	M20	350	536	205	264	67	113	140	408	440	210	207
315	482	M20	400	586	234	285	67	113	140	408	510	256	253

Butterfly valves ABS

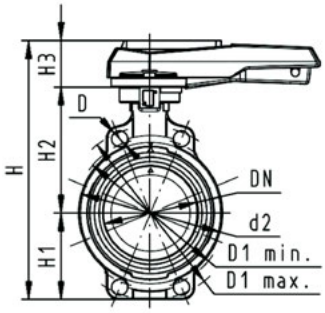


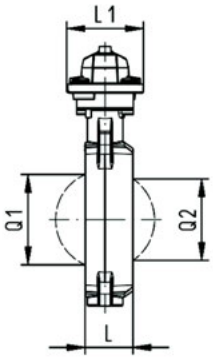
Butterfly valve type 567 ABS
Hand lever with ratchet settings

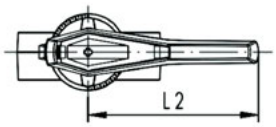
Model:

- Overall length according to EN 558, ISO 5752
- 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

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]
63	50	10	1470	**169 567 002**	1.187
75	65	10	2200	**169 567 003**	1.282
90	80	10	3000	**169 567 004**	1.420
110	100	10	6500	**169 567 005**	2.020
140	125	10	11500	**169 567 006**	2.536
160	150	10	16600	**169 567 007**	3.337
225	200	10	39600	**169 567 008**	5.808







d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	closest inch [inch]
63	104	19	120	125	264	77	134	54	45	106	205	40		2
75	115	19	140	145	277	83	140	54	46	106	205	54	35	2 ½
90	131	19	150	160	289	89	146	54	49	106	205	67	50	3
110	161	19	175	191	325	104	167	55	56	106	255	88	74	4
140	187	23	210	216	352	117	181	55	64	106	255	113	97	5
160	215	24	241	241	373	130	189	55	72	106	255	139	123	6
225	267	23	290	295	435	158	210	67	73	140	408	178	169	8

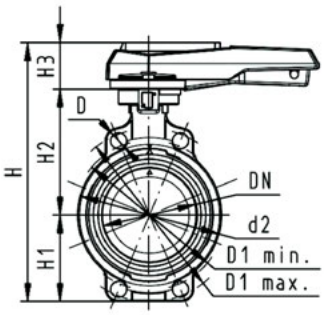
Butterfly valves PVC-U

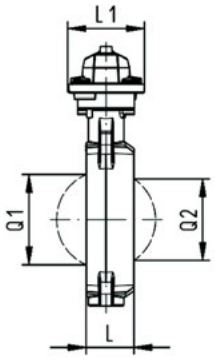


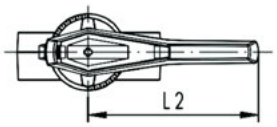
Butterfly valve type 567 PVC-U
Hand lever with ratchet settings

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- 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
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version





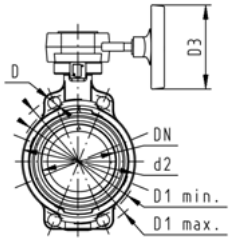


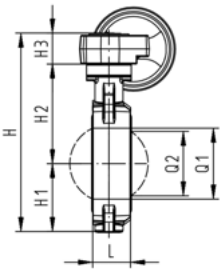
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**161 567 002**	1.653	**161 567 022**	1.259
75	2 ½	65	10	2200	**161 567 003**	1.352	**161 567 023**	1.799
90	3	80	10	3000	**161 567 004**	1.515	**161 567 024**	1.534
110	4	100	10	6500	**161 567 005**	2.193	**161 567 025**	2.235
140	5	125	10	11500	**161 567 006**	2.536	**161 567 026**	2.799
160	6	150	10	16600	**161 567 007**	4.268	**161 567 027**	3.791
225	8	200	10	39600	**161 567 008**	6.481	**161 567 028**	6.570
280	10	250	10	55200	**161 567 009**	14.328	**161 567 029**	12.998
315	12	300	10	80000	**161 567 010**	18.899	**161 567 030**	19.139

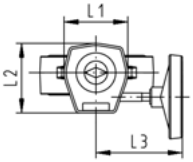
d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253

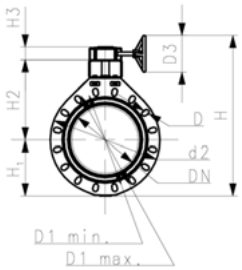












Butterfly valve type 567 PVC-U
Reduction gear with handwheel

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- 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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**161 567 042**	3.078	**161 567 062**	3.082
75	2 ½	65	10	2200	**161 567 043**	3.181	**161 567 063**	3.186
90	3	80	10	3000	**161 567 044**	3.346	**161 567 064**	3.353
110	4	100	10	6500	**161 567 045**	4.022	**161 567 065**	3.973
140	5	125	10	11500	**161 567 046**	4.185	**161 567 066**	4.544
160	6	150	10	16600	**161 567 047**	5.174	**161 567 067**	5.181
225	8	200	10	39600	**161 567 048**	7.072	**161 567 068**	8.339
280	10	250	10	51000	**161 567 049**	14.741	**161 567 069**	15.115
315	12	300	10	73000	**161 567 050**	19.254	**161 567 070**	35.000
355	14	350	6	90000	**161 567 051**	50.000	**161 567 071**	55.000
400	16	400	6	115000	**161 567 052**	60.000	**161 567 072**	60.000

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	D3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	150	77	134	50	45	110	120	155	40	
75	115	19	140	145	150	83	140	50	46	110	120	155	54	35
90	131	19	150	160	150	89	146	50	49	110	120	155	67	50
110	160	19	175	191	150	104	167	50	56	110	120	155	88	74
140	187	23	210	216	150	117	181	50	64	110	120	155	113	97
160	215	24	241	241	150	130	189	50	72	110	120	155	139	123
225	267	23	290	295	150	158	210	50	73	110	120	155	178	169
280	329	25	353	362	200	205	264	55	113	130	140	200	210	207
315	379	25	400	432	200	228	285	55	113	130	140	200	256	253
355	535	29	445	477	200	268	410	69	129	180	168	218	325	305
400	595	29	510	540	200	300	435	69	169	180	195	218	353	350

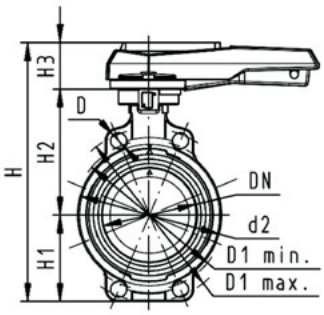
Butterfly valves PVC-C

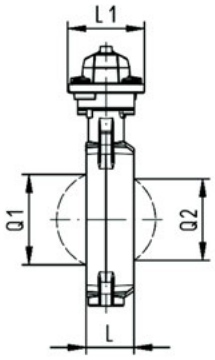


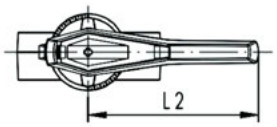
Butterfly valve type 567 PVC-C
Hand lever with ratchet settings

Model:

- Overall length according to EN 558, ISO 5752
- 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







d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
63	2	50	10	1470	**163 567 002**	1.257	**163 567 022**	1.268
75	2 ½	65	10	2200	**163 567 003**	1.366	**163 567 023**	1.174
90	3	80	10	3000	**163 567 004**	1.542	**163 567 024**	1.997
110	4	100	10	6500	**163 567 005**	2.231	**163 567 025**	2.715
140	5	125	10	11500	**163 567 006**	2.820	**163 567 026**	2.536
160	6	150	10	16600	**163 567 007**	6.719	**163 567 027**	3.361
225	8	200	10	39600	**163 567 008**	5.873	**163 567 028**	6.803

d [mm]	PTFE Code	Weight [kg]
63	**163 567 202**	1.257
75	**163 567 203**	1.366
90	**163 567 204**	1.542
110	**163 567 205**	2.231
140	**163 567 206**	2.820
160	**163 567 207**	6.719
225	**163 567 208**	5.873

d [mm]	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169

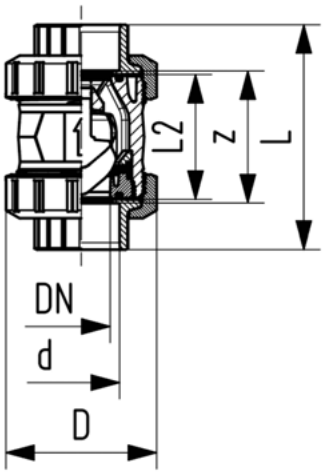
Cone check valves



PROGEF Standard
Check valve type 561
With fusion sockets metric

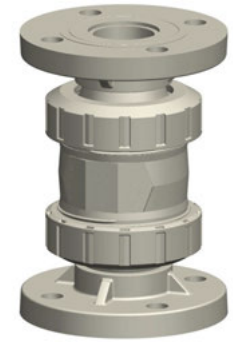
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
16	10	10	190	**167 561 001**	0.080	**167 561 011**	0.080
20	15	10	180	**167 561 002**	0.083	**167 561 012**	0.080
25	20	10	380	**167 561 003**	0.128	**167 561 013**	0.180
32	25	10	460	**167 561 004**	0.200	**167 561 014**	0.190
40	32	10	850	**167 561 005**	0.332	**167 561 015**	0.340
50	40	10	1080	**167 561 006**	0.498	**167 561 016**	0.480
63	50	10	1670	**167 561 007**	0.941	**167 561 017**	0.974
75	65	10	2950	**167 561 008**	2.300	**167 561 018**	2.310
90	80	10	3600	**167 561 009**	3.560	**167 561 019**	3.580
110	100	10	4150	**167 561 010**	5.900	**167 561 020**	5.930

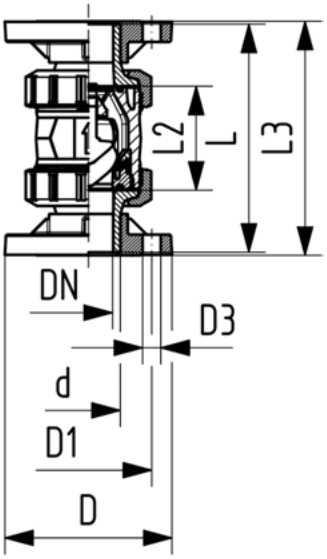
d [mm]	D [mm]	L [mm]	L2 [mm]	z [mm]	closest inch [inch]
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Standard
Check valve type 561
With fixed flanges metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

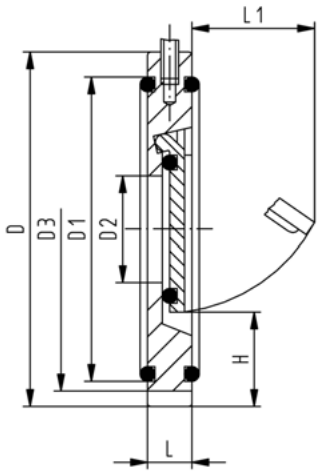


d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
20	15	10	180	**167 561 182**	0.220	**167 561 192**	0.220
25	20	10	380	**167 561 183**	0.340	**167 561 193**	0.350
32	25	10	460	**167 561 184**	0.440	**167 561 194**	0.440
40	32	10	850	**167 561 185**	0.730	**167 561 195**	0.730
50	40	10	1080	**167 561 186**	0.970	**167 561 196**	0.970
63	50	10	1670	**167 561 187**	1.600	**167 561 197**	1.600

d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L2 [mm]	L3 [mm]	closest inch [inch]
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2

Wafer check valves





PROGEF Standard
Wafer check valve type 369
With V4A spring (stainless steel 316)

Model:

- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

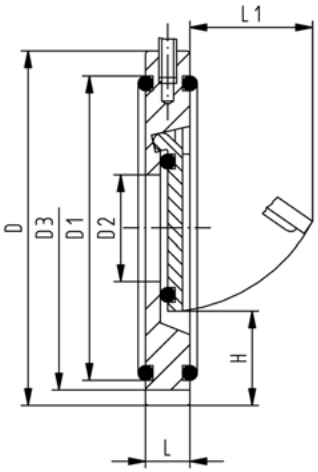
- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- 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

d [mm]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
40	32	10	**167 369 042**	0.090	**167 369 062**	0.071
50	40	10	**167 369 043**	0.095	**167 369 063**	0.100
63	50	10	**167 369 044**	0.141	**167 369 064**	0.170
75	65	10	**167 369 045**	0.218	**167 369 065**	0.245
90	80	10	**167 369 046**	0.260	**167 369 066**	0.260
110	100	10	**167 369 047**	0.375	**167 369 067**	0.370
140	125	10	**167 369 049**	0.535	**167 369 069**	0.500
160	150	6	**167 369 050**	0.740	**167 369 070**	0.740
225	200	6	**167 369 051**	1.376	**167 369 071**	1.400
280	250	6	**167 369 052**	2.345	**167 369 072**	2.400
315	300	6	**167 369 053**	3.520	**167 369 073**	3.520

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure horizontal [mbar]	closest inch [inch]
40	85	59	18	85	25	15	22	30	20	1 ¼
50	105	72	22	95	28	16	27	30	20	1 ½
63	124	86	32	109	29	18	40	30	20	2
75	137	105	40	129	31	20	55	30	20	2 ½
90	175	119	54	144	32	20	67	30	20	3
110	175	146	70	164	31	23	67	30	20	4
140	195	173	92	195	35	23	94	30	20	5
160	222	197	105	220	42	26	100	30	20	6
225	279	255	154	275	38	35	152	38	20	8
280	340	312	192	330	41	40	180	38	20	10
315	410	363	227	380	41	45	215	38	20	12

d [mm]	Minimum water column for sealing [m]
40	3
50	3
63	3
75	3
90	3
110	3
140	3

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d [mm]	Minimum water column for sealing [m]
160	3
225	3
280	3
315	3



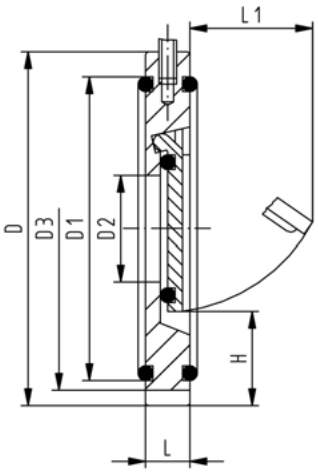
Wafer check valve type 369 PVC-U
With V4A spring (stainless steel 316)

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

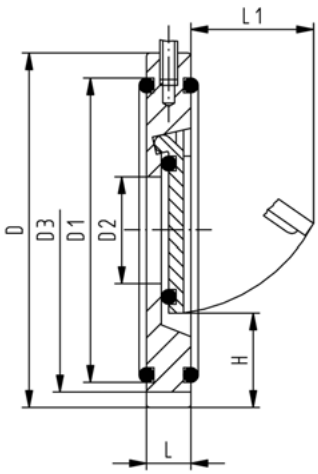
- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange 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 [mm]	Size [inch]	DN [mm]	PN [bar]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
40	1 ¼	32	10	**161 369 042**	0.130	**161 369 062**	0.107
50	1 ½	40	10	**161 369 043**	0.160	**161 369 063**	0.206
63	2	50	10	**161 369 044**	0.273	**161 369 064**	0.250
75	2 ½	65	10	**161 369 045**	0.357	**161 369 065**	0.320
90	3	80	10	**161 369 046**	0.561	**161 369 066**	0.390
110	4	100	10	**161 369 047**	0.651	**161 369 067**	0.684
140	5	125	10	**161 369 049**	0.791	**161 369 069**	0.750
160	6	150	6	**161 369 050**	1.171	**161 369 070**	1.100
225	8	200	6	**161 369 051**	2.252	**161 369 071**	2.100
280	10	250	6	**161 369 052**	3.790	**161 369 072**	3.500
315	12	300	6	**161 369 053**	6.274	**161 369 073**	5.300

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure horizontal [mbar]	Minimum water column for sealing [m]
40	85	59	18	85	25	15	22	30	20	2
50	105	74	22	95	27	16	27	30	20	2
63	124	90	32	109	29	18	40	30	20	2
75	137	110	40	129	31	20	55	30	20	2
90	175	125	54	144	32	20	67	30	20	2
110	175	150	70	164	31	23	67	30	20	2
140	195	178	92	195	35	23	94	30	20	2

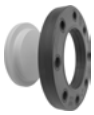
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d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure horizontal [mbar]	Minimum water column for sealing [m]	
160	222	192	105	220	41	26	100	30	20	2	
225	279	256	154	275	38	35	152	38	20	2	
280	340	306	192	330	41	40	180	38	20	2	
315	410	342	227	380	41	45	215	38	20	2	

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 centrically 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 [1)]	45	35
250	250, 280	65 [1)]	35	30
300	315	90 [1)]	50	40
350	355	90 [1)]	50	-
400	400	100 [1)]	60	-
500	450, 500	190 [1)]	70	-
600	560, 630	220 [1)]	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
½	15	15	10
¾	20	15	10
1	25	15	10
1¼	32	15	10
1½	40	15	10
2	50	30	20
2½	65	30	20
3	80	40	30
4	100	30	20
6	150	50	33
8	200	50	33
10	250	60 [1)]	40
12	300	75 [1)]	53

1) Up to a maximum working pressure of 6 bar

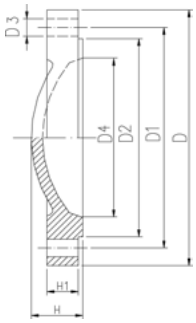
Backing flanges PVC-U



Blanking flange PVC-U
Jointing face serrated metric

Model:

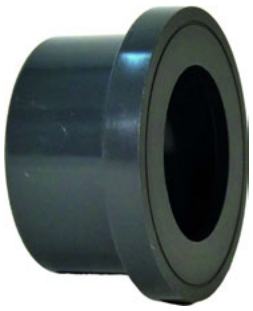
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

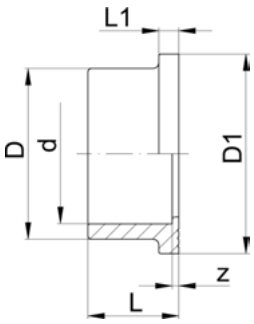


* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d20 - d110: bolt hole as long hole version
AL: number of holes

	Inch [inch]	DN [mm]	PN [bar]	d [mm]	Code	Weight [kg]
*	1/2	15	10	20	**721 700 506**	0.075
*	3/4	20	10	25	**721 700 507**	0.097
*	1	25	10	32	**721 700 508**	0.145
*	1 1/4	32	10	40	**721 700 509**	0.214
*	11/2	40	10	50	**721 700 510**	0.298
*	2	50	10	63	**721 700 511**	0.352
*	2 1/2	65	10	75	**721 700 512**	0.538
*	3	80	10	90	**721 700 513**	0.679
*	4	100	10	110	**721 700 514**	0.870
*	5	125	10	140	**721 700 516**	1.286
*	6	150	10	160	**721 700 517**	1.761
	8	200	10	225	**721 700 520**	2.731
	10	250	10	250	**721 700 521**	3.329
	10	250	10	280	**721 700 522**	3.769
	12	300	6	315	**721 700 523**	4.856
	14	350	6	355	**721 700 524**	6.972
	16	400	6	400	**721 700 525**	9.125

	D [mm]	D1 [mm]	D1 min. [mm]	D1 max. [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	AL
*	95		61	63	34	16	15	15	12	4
*	105		70	73	41	16	20	16	13	4
*	115		79	83	50	16	25	19	15	4
*	140		91	100	61	18	34	20	16	4
*	150		101	110	74	18	44	22	17	4
*	165		121	124	91	19	57	25	20	4
*	185		140	145	106	22	69	29	21	4
*	200		152	160	125	22	82	32	22	8
*	220		180	191	150	24	102	36	24	8
*	250	215			184	23	120	41	28	8
*	285	240			212	23	152	45	30	8
	340	295			273	22	213	63	36	8
	370	325			303	22	238	63	36	8
	395	350			328	22	266	65	36	12
	445	400			378	22	299	65	36	12
	505	460			430	22	341	67	38	16
	565	515			482	26	384	71	42	16





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

Model:

- Solvent cement socket metric
- d63 - d400: combined jointing face flat and serrated
- Gasket: profile flange gasket EPDM code no. 748 440 705-725, FPM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FPM code no. 749 410 000-174 in combination with counterpart flange adaptor code no. 721 810 105-123
- Flange: PVC-U code no. 721 700 005-140, PP with steel ring code no. 727 700 206-225, backing flange PP-V for socket systems metric code no. 727 700 406-425

Note:

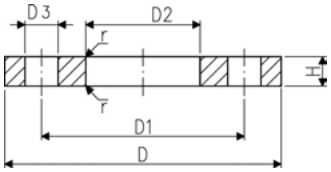
* bevel on pipe may be needed if used with butterfly valve type 037/038/039

The flat gasket affects the maximum allowable operating pressure!

	DN [mm]	d [inch]	d [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	z [mm]	L [mm]	D [mm]	L1 [mm]
	10		16	16	**721 800 105**	0.006	29	3	17	22	6
	15		20	16	**721 800 106**	0.009	34	3	19	27	6
	20		25	16	**721 800 107**	0.015	41	3	22	33	7
	25		32	16	**721 800 108**	0.024	50	3	25	41	7
	32		40	16	**721 800 109**	0.039	61	3	29	50	8
	40		50	16	**721 800 110**	0.056	73	3	34	61	8
	50		63	16	**721 790 111**	0.103	90	3	41	77	9
	65	2 ½	75	16	**721 790 112**	0.159	106	3	47	91	10
	80		90	16	**721 790 113**	0.253	125	5	56	108	11
	100		110	16	**721 790 114**	0.417	150	5	66	131	12
	100		125	16	**721 790 115**	0.533	170	5	74	148	13
	125	5	140	16	**721 790 116**	0.725	188	5	81	165	14
	150		160	16	**721 790 117**	1.093	213	5	91	188	16
*	200		200	10	**721 790 119**	1.443	250	6	112	224	24
	200		225	10	**721 790 120**	1.743	274	6	125	248	25
*	250		250	10	**721 790 121**	2.203	303	9	140	274	23
	250		280	10	**721 790 122**	2.930	329	5	151	308	23
*	300		315	6	**721 790 123**	4.455	379	8	172	346	27
	350		355	6	**721 790 124**	5.963	430	10	194	384	32
	400		400	6	**721 790 125**	9.041	482	10	216	438	34







Backing flange PVC-U metric

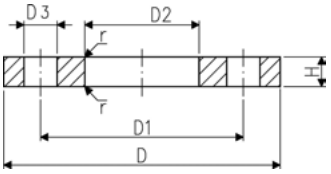
Model:

- For socket systems
- Connecting dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- Maximum medium- or ambient temperature 45 °C

¹ Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
² Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250
AL: number of holes

	d [mm]	Size [inch]	DN [mm]	PN [bar]	Code	Weight [kg]
	16	⅜	10	10	**721 700 005**	0.053
	20	½	15	10	**721 700 006**	0.067
	25	¾	20	10	**721 700 007**	0.092
	32	1	25	10	**721 700 008**	0.133
	40	1 ¼	32	10	**721 700 009**	0.198
	50	1 ½	40	10	**721 700 010**	0.247
	63	2	50	10	**721 700 011**	0.312
	75	2 ½	65	10	**721 700 012**	0.376
	90	3	80	10	**721 700 013**	0.464
	110	4	100	10	**721 700 014**	0.543
1	125	4 ½	125	10	**721 700 015**	0.904

table continued next page



	d [mm]	Size [inch]	DN [mm]	PN [bar]	Code	Weight [kg]
	140	5	125	10	**721 700 016**	0.758
	160	6	150	10	**721 700 017**	1.009
	200	7	200	10	**721 700 019**	1.669
	225	8	200	10	**721 700 020**	1.377
	250	9	250	6	**721 700 021**	2.376
2	250	9	225	6	**721 700 136**	1.800
	280	10	250	6	**721 700 137**	1.746
	315	12	300	6	**721 700 138**	2.349
	355	14	350	6	**721 700 139**	3.485
	400	16	400	6	**721 700 140**	4.526

	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL	SC
	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
1	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
2	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 flanges PVC-C



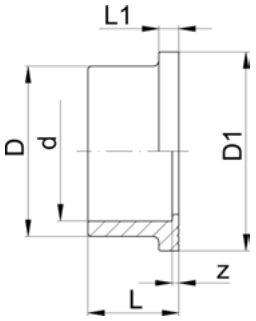
Flange adaptor PVC-C
Combined jointing face flat and serrated metric

Model:

- Gasket: flat gasket EPDM code no. 748 400 306-320
- Flange: code no. 727 700 406-420, 727 700 206-220, 721 700 006-020
- Gasket: profile flange gasket EPDM code no. 748 440 706-720, FPM code no. 749 440 706-720

Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039



	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
	20	15	16	**723 790 106**	0.011	3	27	34	21	6
	25	20	16	**723 790 107**	0.018	3	33	41	24	7
	32	25	16	**723 790 108**	0.027	3	41	50	27	7
	40	32	16	**723 790 109**	0.032	3	50	61	30	8
	50	40	16	**723 790 110**	0.054	3	61	73	34	8
	63	50	16	**723 790 111**	0.097	3	76	90	41	9
	75	65	16	**723 790 112**	0.168	3	91	106	47	10
	90	80	16	**723 790 113**	0.265	5	108	125	56	11
	110	100	16	**723 790 114**	0.441	5	131	150	66	12
*	160	150	16	**723 790 117**	1.139	5	188	213	91	16
*	200	200	10	**723 790 119**	1.630	6	224	250	112	24
	225	200	10	**723 790 120**	1.860	6	248	274	125	25

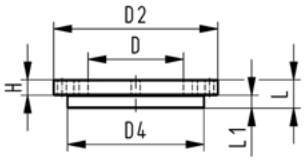
Blanking flange PP-H

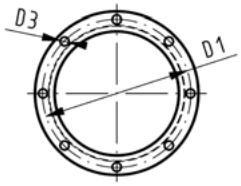


Blanking flange set PP-H
Combined jointing face flat and serrated metric

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**





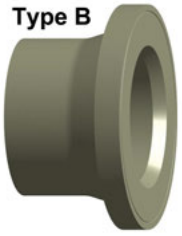
AL: number of holes
L: length of the End Blank

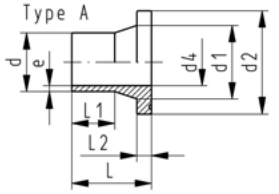
d [mm]	PN [bar]	DN [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	H [mm]	AL
63	10	50	**727 700 611**	0.531	75	125	165	18	102	30	14	24	4
75	10	65	**727 700 612**	0.901	89	145	185	18	122	30	16	26	4
90	10	80	**727 700 613**	1.054	105	160	200	18	138	30	17	27	8
110	10	100	**727 700 614**	1.199	125	180	220	18	158	30	18	28	8
125	10	100	**727 700 615**	1.201	132	180	220	18	158	35	25	28	8
140	10	125	**727 700 616**	1.748	155	210	250	18	188	40	25	30	8
160	10	150	**727 700 617**	2.312	175	240	285	22	212	40	25	32	8
180	10	150	**727 700 618**	2.443	180	240	285	22	212	45	30	32	8
200	10	200	**727 700 619**	3.961	232	295	340	22	268	50	32	34	8
225	10	200	**727 700 620**	3.956	235	295	340	22	268	50	32	34	8
250	10	250	**727 700 621**	5.425	285	350	395	22	320	55	35	38	12
280	10	250	**727 700 622**	19.781	291	350	395	22	320	60	35	38	12
315	10	300	**727 700 623**	8.602	335	400	445	22	370	65	35	42	12
355	10	350	**727 700 624**	23.184	373	460	515	22	430	70	40	40	16
400	10	400	**727 700 625**	30.304	427	515	574	26	482	75	46	40	16
450	10	500	**727 700 626**	43.485	510	620	684	26	585	80	60	49	20
500	10	500	**727 700 627**	46.203	530	620	684	26	585	90	60	49	20
560	10	600	**727 700 628**	65.823	615	725	796	30	685	100	60	58	20
630	10	600	**727 700 629**	67.056	642	725	796	30	685	110	60	68	20

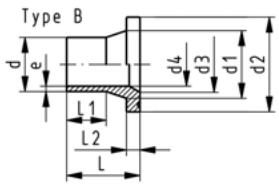
Type A



Type B







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. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use PROGEF Standard Adaptor for butterfly valves SDR11(d315-d500).
- Gasket: profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

* Not suitable for butterfly valves for type 037/038/039
** Material: PP-R, not suitable for butterfly valves

	d [mm]	DN [mm]	FM	Code	Weight [kg]
	20	15	IR	**727 798 706**	0.015
	25	20	IR	**727 798 707**	0.029
	32	25	IR	**727 798 708**	0.042
	40	32	IR	**727 798 709**	0.061
	50	40	IR	**727 798 710**	0.091
	63	50	IR	**727 798 711**	0.144
	75	65	IR	**727 798 712**	0.243
	90	80	IR	**727 798 713**	0.324
	110	100	IR	**727 798 714**	0.441
	125	100	IR	**727 798 715**	0.487
	140	125	IR	**727 798 716**	0.800
	160	150	IR	**727 798 717**	0.920
	180	150	IR	**727 798 718**	0.892
	200	200	IR	**727 798 719**	1.670
	225	200	IR	**727 798 720**	1.665
	250	250		**727 798 721**	2.630
	280	250		**727 798 722**	2.521
*	315	300		**727 798 723**	3.247
**	355	350		**727 798 724**	7.572
**	400	400		**727 798 725**	10.201
**	450	500		**727 798 726**	13.800
**	500	500		**727 798 727**	12.553

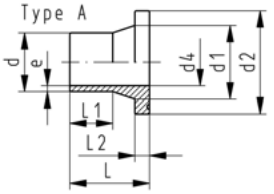
	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	20	15	26	45		16	50	29	7	1.9	A
	25	20	32	58		20	52	27	9	2.3	A
	32	25	40	68		26	54	28	10	2.9	A
	40	32	49	78		32	56	25	11	3.7	A
	50	40	60	88		40	62	32	12	4.6	A
	63	50	75	102		51	68	38	14	5.8	A
	75	65	89	122	66	61	80	43	16	6.9	B
	90	80	105	138	78	73	80	41	17	8.2	B
	110	100	125	158	100	90	80	40	18	10.0	B
	125	100	132	158	114	102	82	35	25	11.4	B
	140	125	155	188	127	114	89	39	25	12.8	B
	160	150	175	212	151	131	92	45	25	14.6	B
	180	150	180	212	154	147	80	45	30	16.4	B
	200	200	232	268	203	163	100	30	32	18.2	B
	225	200	235	268	210	184	100	35	32	20.5	B
	250	250	285	320	250	204	100	25	35	22.7	B
	280	250	291	320	265	229	100	35	35	25.4	B
*	315	300	335	370	300	257	100	25	35	28.6	B
**	355	350	373	430	340	290	180	40	40	32.2	B
**	400	400	427	482	385	327	187	46	46	36.3	B
**	450	500	514	585	400	368	141	64	60	40.9	B
**	500	500	530	587	440	409	138	62	61	45.4	B

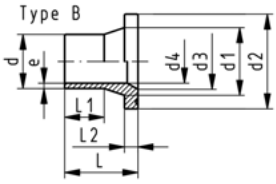
Type A



Type B







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. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d315-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

* Not suitable for butterfly valves for type 037/038/039
** Material: PP-R, not suitable for butterfly valves

	d [mm]	DN [mm]	FM	Code	Weight [kg]
	50	40	IR	**727 798 785**	0.077
	63	50	IR	**727 798 786**	0.116
	75	65	IR	**727 798 787**	0.204
	90	80	IR	**727 798 788**	0.273
	110	100	IR	**727 798 789**	0.361
	125	100	IR	**727 798 790**	0.356
	140	125	IR	**727 798 791**	0.526
	160	150	IR	**727 798 792**	0.761
	180	150	IR	**727 798 793**	0.630
	200	200	IR	**727 798 794**	1.462
	225	200	IR	**727 798 795**	1.330
	250	250		**727 798 796**	1.800
	280	250		**727 798 797**	1.785
*	315	300		**727 798 798**	2.499
**	355	350		**727 798 799**	5.251
**	400	400		**727 798 800**	7.700
**	450	500		**727 798 801**	10.200
**	500	500		**727 798 802**	9.300

	d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	50	40	61	88		42	50	21	12	2.9	A
	63	50	75	102		53	50	16	14	3.6	A
	75	65	89	122		65	80	43	16	4.3	A
	90	80	105	138		78	80	41	17	5.1	A
	110	100	125	158		96	80	40	18	6.3	A
	125	100	132	158	114	107	80	42	18	7.4	B
	140	125	155	188	127	120	80	34	18	8.0	B
	160	150	175	212	158	142	92	45	25	9.1	B
	180	150	180	212		156	80	30	20	10.2	A
	200	200	232	268	203	177	100	30	32	11.4	B
	225	200	235	268	210	199	100	35	32	12.8	B
	250	250	285	320	252	220	100	35	25	14.2	B
	280	250	291	320	265	243	100	45	25	15.9	B
*	315	300	335	370	300	274	100	35	25	17.9	B
**	355	350	374	431	340	314	182	100	30	20.1	B
**	400	400	428	484	385	353	199	110	33	22.7	B
**	450	500	514	585		396	140	586	46	25.5	A
**	500	500	530	585		440	141	585	47	28.3	A

Backing flanges PP-Steel

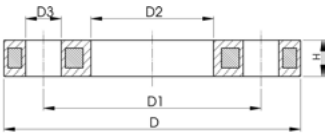


Backing flange PP-Steel
For butt fusion systems metric

Model:

- **Bolt circle PN 10**
- Material: PP (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501





AL: number of holes

d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
90	80	16	**727 700 313**	1.390	160	108	18	200	20	8	
110	100	16	**727 700 314**	1.407	180	128	18	220	20	8	
125	100	16	**727 700 315**	1.408	180	135	18	220	20	8	
140	125	16	**727 700 316**	2.318	210	158	18	250	24	8	
160	150	16	**727 700 317**	3.491	240	178	22	285	24	8	
180	150	16	**727 700 318**	3.193	240	188	22	285	24	8	
200	200	16	**727 700 319**	5.600	295	235	22	340	27	8	
225	200	16	**727 700 320**	5.533	295	238	22	340	27	8	
250	250	16	**727 700 321**	6.632	350	288	22	395	30	12	
280	250	16	**727 700 322**	6.573	350	294	22	395	30	12	
315	300	16	**727 700 323**	7.903	400	338	22	445	34	12	
355	350	16	**727 700 324**	14.587	460	376	22	515	40	16	
400	400	16	**727 700 325**	20.034	515	430	26	574	40	16	

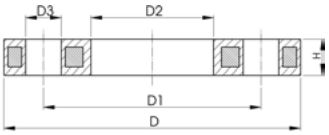


Backing flange PP-Steel
For socket systems metric

Model:

- **Bolt circle PN 10**
- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501





AL: number of holes
[1] Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
[2] Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

PN [bar]	DN [mm]	d [mm]	Code	Weight [kg]	D1 [mm]	D3 [mm]	D2 [mm]	D [mm]	H [mm]	AL	SC
16	15	20	**727 700 206**	0.216	65	14	28	95	12	4	
16	20	25	**727 700 207**	0.279	75	14	34	105	12	4	
16	25	32	**727 700 208**	0.429	85	14	42	115	16	4	
16	32	40	**727 700 209**	0.621	100	18	51	140	16	4	
16	40	50	**727 700 210**	0.722	110	18	62	150	20	4	
16	50	63	**727 700 211**	1.084	125	18	78	165	20	4	
16	65	75	**727 700 212**	1.349	145	18	92	185	20	4	
16	80	90	**727 700 213**	1.369	160	18	110	200	20	8	M16
16	100	110	**727 700 214**	1.522	180	18	133	220	20	8	M16
16	125	125	**727 700 215**	2.475	210	18	150	250	24	8	M16
16	125	140	**727 700 216**	2.033	210	18	167	250	24	8	M16
16	150	160	**727 700 217**	3.164	240	22	190	285	24	8	M20
16	200	200	**727 700 219**	6.143	295	22	226	340	27	8	M20
16	200	225	**727 700 220**	4.448	295	22	250	340	27	8	M20
16	250	250	**727 700 021**	7.179	350	22	277	395	30	12	M20
16	225	250	**727 700 221**	8.340	325	22	277	395	30	8	M20
16	250	280	**727 700 222**	5.547	350	22	310	395	30	12	M20
16	300	315	**727 700 223**	6.980	400	22	348	445	34	12	M20
16	350	355	**727 700 224**	12.465	460	23	388	515	40	16	M20
16	400	400	**727 700 225**	17.607	515	26	442	574	40	16	M24

Backing flanges PP-V

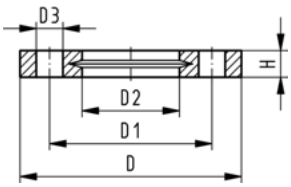


Backing flange PP-V
For butt fusion systems metric

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 dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**





AL: number of holes
¹) Suitable for socket- and butt fusion systems (no pictograph on flange)
* Combined version, metric-ANSI

	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 513**	0.544	200	160	108	18	27	8	M16
	110	100	16	**727 700 514**	0.643	220	180	128	18	28	8	M16
	125	100	16	**727 700 515**	0.635	220	180	135	18	28	8	M16
	140	125	16	**727 700 516**	0.842	250	210	158	18	30	8	M16
	160	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	200	16	**727 700 519**	1.400	340	297	235	22	34	8	M20
*	225	200	16	**727 700 520**	1.400	340	297	238	22	34	8	M20
	250	250	16	**727 700 521**	2.052	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
	355	350	10	**727 700 524**	4.440	515	460	376	22	46	16	M20
	400	400	10	**727 700 525**	5.624	574	515	430	26	50	16	M24



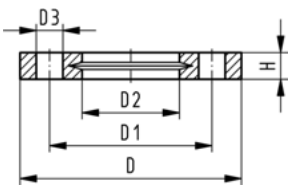
Backing flange PP-V
For socket systems metric

¹) Suitable for socket- and butt fusion systems (no pictograph on flange)
* Combined version, metric-ANSI
AL: number of holes

Model:

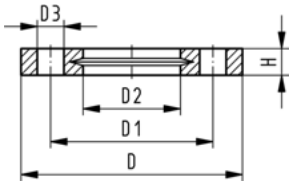
- UV-resistant. Applicable for outside applications
- With V-groove which applies force evenly on collar
- Connecting dimesnsion: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With integrated bolt retainers as an assembly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





	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 413**	0.550	200	160	110	18	27	8	M16
	110	100	16	**727 700 414**	0.640	220	180	133	18	28	8	M16

table continued next page



	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
	140	125	16	**727 700 416**	0.781	250	210	167	18	30	8	M16
	160	150	16	**727 700 417**	1.050	285	241	190	22	32	8	M20
*	200	200	16	**727 700 419**	1.629	340	297	226	22	34	8	M20
*	225	200	16	**727 700 420**	1.400	340	297	250	22	34	8	M20
	250	250	16	**727 700 421**	2.229	395	350	277	22	38	12	M20
	280	250	16	**727 700 422**	1.651	395	350	310	22	38	12	M20
	315	300	16	**727 700 423**	2.461	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**	5.135	574	515	442	26	50	16	M24



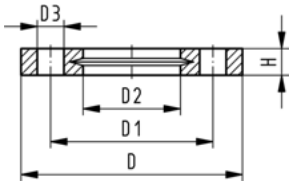


Backing flange PP-V
For butt fusion systems Inch ANSI

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**

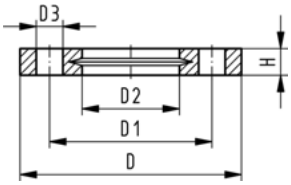
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
* Combined version, metric-ANSI



	Size [inch]	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	½	20	15	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	25	20	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	32	25	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	40	32	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	50	40	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	63	50	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	75	65	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	90	80	16	**727 701 513**	0.607	200	152	108	19	27	4	M16
	4	110	100	16	**727 701 514**	0.736	229	190	128	19	28	8	M16
	6	160	150	16	**727 700 517**	1.200	285	241	178	22	32	8	M20
	8	200	200	16	**727 700 519**	1.400	340	297	235	22	34	8	M20
*	8	225	200	16	**727 700 520**	1.400	340	297	238	22	34	8	M20
	10	250	250	16	**727 701 521**	2.241	406	362	288	26	38	12	M20
	10	280	250	16	**727 701 522**	2.173	406	362	294	26	38	12	M20
	12	315	300	16	**727 701 523**	3.627	483	432	338	26	42	12	M20







Backing flange PP-V
For socket systems Inch ANSI

Model:

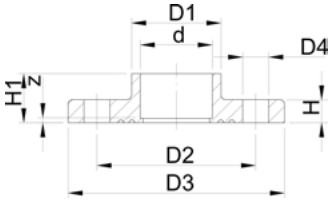
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

AL: number of holes
* Combined version, metric-ANSI
¹) Suitable for socket- and butt fusion systems (no pictograph on flange)
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors

	Size [inch]	DN [mm]	d [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	½	15	20	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	20	25	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	25	32	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	32	40	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	40	50	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	50	63	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	65	75	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	80	90	16	**727 701 413**	0.605	200	152	110	19	27	4	M16
	4	100	110	16	**727 701 414**	0.704	229	190	133	19	28	8	M16
	6	150	160	16	**727 700 417**	1.050	285	241	190	22	32	8	M20
*	8	200	200	16	**727 700 419**	1.629	340	297	226	22	34	8	M20
*	8	200	225	16	**727 700 420**	1.400	340	297	250	22	34	8	M20
	10	250	280	16	**727 701 422**	1.838	406	362	310	26	38	12	M20
	12	300	315	16	**727 701 423**	3.482	483	432	348	26	42	12	M20

Fixed flanges PVC-U JIS





Fixed flange PVC-U
Jointing face serrated JIS

Model:

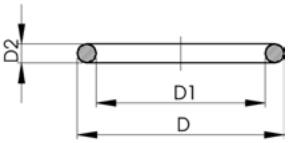
- Solvent cement socket JIS
- Connecting dimensions: JIS B 2220, 10K

AL: number of holes

DN [mm]	Inch [inch]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	AL	SC
20	¾	16	**161 481 552**	0.137	25.2	33	75	100	13	22	3	4	M12
25	1	16	**161 481 553**	0.217	32.2	41	90	125	15	25	3	4	M12
32	1 ¼	16	**161 481 554**	0.317	40.2	51	100	135	17	29	3	4	M16
40	1 ½	16	**161 481 555**	0.380	50.2	62	105	140	18	34	3	4	M16
50	2	16	**161 481 556**	0.454	63.2	77	120	155	20	41	3	4	M16

Seals





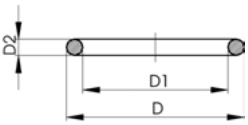
O-Ring gasket

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

d [mm]	DN [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	closest inch [inch]
10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.001	18	12	3	¼
16	10	**748 410 005**	0.001	**749 410 005**	0.001	21	16	3	⅜
20	15	**748 410 006**	0.001	**749 410 006**	0.001	27	20	4	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35	28	4	¾
32	25	**748 410 008**	0.003	**749 410 008**	0.002	40	33	4	1
40	32	**748 410 009**	0.003	**749 410 009**	0.007	51	41	5	1 ¼
50	40	**748 410 010**	0.004	**749 410 010**	0.060	58	47	5	1 ½
63	50	**748 410 011**	0.005	**749 410 011**	0.003	70	60	5	2
75	65	**748 410 014**	0.007	**749 410 014**	0.012	93	82	5	2 ½
90	80	**748 410 248**	0.008	**749 410 248**	0.020	105	95	5	3
110	100	**748 410 016**	0.016	**749 410 016**	0.031	134	120	7	4





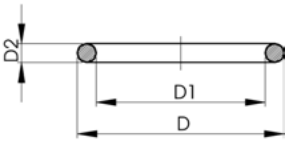
O-Ring gasket

Model:

- For flange adaptors
- Hardness approx. 65° Shore

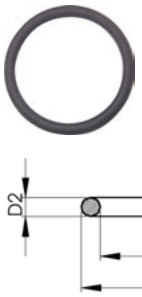
d [mm]	DN [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	closest inch [inch]
16	10	**748 410 000**	0.002	**749 410 000**	0.005	26	19	3.53	⅜
20	15	**748 410 001**	0.002	**749 410 001**	0.002	31	23	3.53	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35	28	3.53	¾
32	25	**748 410 002**	0.003	**749 410 002**	0.003	43	36	3.53	1
40	32	**748 410 003**	0.004	**749 410 003**	0.002	55	44	5.34	1 ¼
50	40	**748 410 012**	0.004	**749 410 012**	0.008	64	53	5.34	1 ½
63	50	**748 410 013**	0.006	**749 410 013**	0.011	80	69	5.34	2
75	65	**748 410 014**	0.007	**749 410 014**	0.012	93	82	5.34	2 ½
90	80	**748 410 015**	0.008	**749 410 015**	0.015	112	101	5.34	3
110	100	**748 410 016**	0.016	**749 410 016**	0.031	134	120	6.99	4
125	100	**748 410 017**	0.018	**749 410 017**	0.036	150	136	6.99	
140	125	**748 410 018**	0.020	**749 410 018**	0.039	166	152	6.99	5
160	150	**748 410 019**	0.025	**749 410 019**	0.044	191	177	6.99	6
200	200	**748 410 163**	0.029	**749 410 163**	0.048	236	222	6.99	8
225	200	**748 410 022**	0.034	**749 410 022**	0.060	255	241	6.99	8
250	250	**748 410 182**	0.036	**749 410 182**	0.066	280	266	6.99	9
280	250	**748 410 173**	0.042	**749 410 173**	0.076	306	292	6.99	10
315	300	**748 410 174**	0.047	**749 410 174**	0.083	356	342	6.99	12





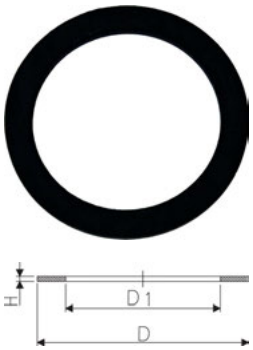
O-Ring gasket
Union end seal

d [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]	D2 [mm]	D1 [mm]	D [mm]
20	**748 410 038**	0.003	**749 410 038**	0.002	2.0	23	27
25	**748 410 044**	0.003	**749 410 044**	0.003	2.5	28	33
32	**748 410 195**	0.003	**749 410 195**	0.003	2.5	36	41
40	**748 410 052**	0.005	**749 410 052**	0.003	3.5	45	52
50	**748 410 134**	0.003	**749 410 134**	0.003	3.0	52	58
63	**748 410 135**	0.002	**749 410 135**	0.003	3.5	66	73



O-Ring gasket

d [mm]	DN [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]
75	65	**748 410 112**	0.006	**749 410 119**	0.010	83	72	5
90	80	**748 410 099**	0.009	**749 410 112**	0.070	96	85	5
110	100			**749 410 099**	0.015	118	107	5



Flat gasket

Model:

- Hardness approx. 65° Shore
- For adaptor unions

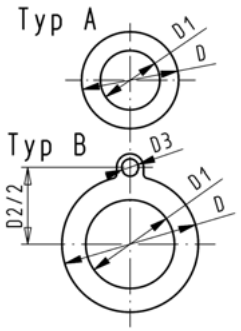
Size [inch]	D [mm]	D1 [mm]	H [mm]	EPDM Code	Weight [kg]	FPM Code	Weight [kg]
¼	20	13	2	**748 400 004**	0.001		
⅜	24	17	2	**748 400 005**	0.002	**749 400 005**	0.001
½	30	21	3	**748 400 006**	0.001	**749 400 006**	0.003
¾	38	27	3	**748 400 007**	0.004	**749 400 007**	0.004
1	44	32	3	**748 400 008**	0.002	**749 400 008**	0.002
1 ¼	55	42	3	**748 400 009**	0.007	**749 400 009**	0.003
1 ½	62	46	3	**748 400 010**	0.004	**749 400 010**	0.007
2	78	60	3	**748 400 011**	0.005	**749 400 011**	0.006
2 ½	97	75	3	**748 400 012**	0.010	**749 400 012**	0.009
3	109	88	3	**748 400 013**	0.011	**749 400 013**	0.011

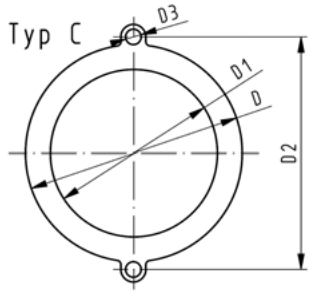


Flat gasket

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

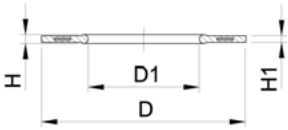




di FA are the suitable inner diameters of flanges adaptors

d [mm]	DN [mm]	PN [bar]	Type	EPDM Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	di FA [mm]
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.210	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315





Profile flange gasket metric

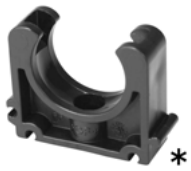
Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- material steel insert: carbon steel

- Approved acc. to DVGW standard DIN EN 682
- Approved acc. to DVGW W 270, KTW recommendation
- d corresponds to the centring at the inner diameter of the screw crown
- NBR/DUO = Nitrile rubber, hardness approx. 80° Shore
- Suitable for drinking water and gas applications
- di FA are the suitable inner diameters of flanges adaptors adaptors

d [mm]	**DN** [mm]	**PN** [bar]	**NBR/DUO Code**	**Weight** [kg]	**D** [mm]	**D1** [mm]	**H** [mm]	**H1** [mm]	**di FA** [mm]
20	15	16	**745 440 706**	0.009	51	20	4	3	10 - 20
25	20	16	**745 440 707**	0.012	61	22	4	3	12 - 22
32	25	16	**745 440 708**	0.018	71	28	4	3	18 - 28
40	32	16	**745 440 709**	0.021	82	40	4	3	30 - 40
50	40	16	**745 440 710**	0.029	92	46	4	3	36 - 46
63	50	16	**745 440 711**	0.039	107	58	5	4	48 - 58
75	65	16	**745 440 712**	0.058	127	69	5	4	59 - 69
90	80	16	**745 440 713**	0.063	142	84	5	4	73 - 84
110	100	16	**745 440 714**	0.096	162	104	6	5	94 - 104
125	100	16	**745 440 715**	0.073	162	123	6	5	113 - 123
140	125	16	**745 440 716**	0.128	192	137	6	5	127 - 137
160 - 180	150	16	**745 440 717**	0.145	218	160	8	6	150 - 160
200	200	16	**745 440 719**	0.286	273	203	8	6	192 - 203
225	200	16	**745 440 720**	0.183	273	220	8	6	207 - 220
250	250	16	**745 440 721**	0.355	328	252	8	6	238 - 252
280	250	16	**745 440 722**	0.229	328	274	8	6	264 - 274
315	300	16	**745 440 723**	0.419	378	306	8	6	296 - 306
355	350	16	**745 440 724**	0.645	438	355	10	7	340 - 355
400	400	16	**745 440 725**	0.819	489	400	10	7	385 - 400
450	500	16	**745 440 726**	1.885	594	403	10	7	393 - 403
500	500	16	**745 440 727**	1.618	594	447	10	7	437 - 447
560	600	16	**745 440 728**	2.281	695	494	10	7	484 - 494
630	600	16	**745 440 729**	2.000	695	555	10	7	545 - 555

Pipe clips metric

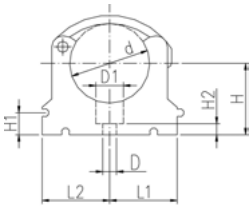


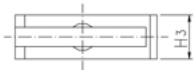
KLIP-IT pipe clip type 061 PP metric

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 [mm]	d [inch]	Code	Weight [kg]
*	10		**167 061 003**	0.003
*	12		**167 061 004**	0.003
*	16		**167 061 035**	0.007
*	20		**167 061 036**	0.007
*	25		**167 061 037**	0.009
*	32		**167 061 038**	0.012
	40		**167 061 039**	0.027
	50		**167 061 040**	0.031
	63		**167 061 041**	0.052
	75	2 ½	**167 061 012**	0.057
	90	3	**167 061 013**	0.092
	110	4	**167 061 014**	0.117
	125		**167 061 015**	0.180
	140	5	**167 061 016**	0.224
	160		**167 061 017**	0.242

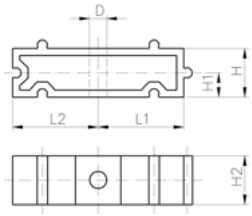
	d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	SC	closest inch [inch]
*	10	5	8	20	10	6	12	11	14	M4	⅛
*	12	5	8	21	10	6	12	11	14	M5	¼
*	16	6	11	27	10	6	16	14	17	M5	⅜
*	20	6	11	27	10	6	16	17	19	M5	½
*	25	6	11	30	10	6	16	19	22	M5	¾
*	32	6	11	36	10	6	16	24	27	M5	1
	40	7	14	44	10	7	22	34	34	M6	1 ¼
	50	7	14	51	10	7	22	37	37	M6	1 ½
	63	9	17	64	10	10	25	45	45	M8	2
	75	9	17	58	10	10	25	52	52	M8	2 ½
	90	9	17	65	10	10	28	65	65	M8	3
	110	9	17	75	10	10	28	79	79	M8	4
	125	9	17	90	10	10	32	88	88	M8	
	140	9	17	110	10	10	32	98	98	M8	5
	160	9	17	108	10	10	32	109	109	M8	6



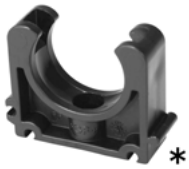
KLIP-IT spacer type 061 PP

Model:

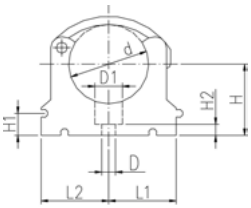
- For pipe clips type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

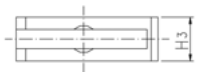


d [mm]	Inch [inch]	Code	Weight [kg]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC
10 - 12	⅛ - ¼	**167 061 153**	0.003	5	11	14	20	10	12	M4
16	⅜	**167 061 155**	0.005	6	14	17	20	10	16	M5
20	½	**167 061 156**	0.005	6	17	19	20	10	16	M5
25	¾	**167 061 157**	0.007	6	19	22	20	10	16	M5
32	1	**167 061 158**	0.006	6	24	27	20	10	16	M5
40	1 ¼	**167 061 159**	0.015	7	34	34	20	10	22	M6
50	1 ½	**167 061 160**	0.017	7	37	37	20	10	22	M6
63	2	**167 061 161**	0.020	9	45	45	20	10	25	M8
75	2 ½	**167 061 162**	0.027	9	52	52	20	10	25	M8
90	3	**167 061 163**	0.039	9	65	65	20	10	28	M8
110	4	**167 061 164**	0.048	9	79	79	20	10	28	M8
125	4 ½	**167 061 165**	0.059	9	88	88	20	10	32	M8
140	5	**167 061 166**	0.065	9	98	98	20	10	32	M8
160	6	**167 061 167**	0.071	9	109	109	20	10	32	M8









KLIP-IT pipe clip type 061 PE metric

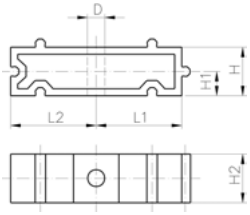
Model:

- 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 [mm]	Code	Weight [kg]	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC
*	10	**173 061 003**	0.003	5	8	11	14	20	10	6	12	M4
*	12	**173 061 004**	0.006	5	8	11	14	21	10	6	12	M5
*	16	**173 061 005**	0.006	6	11	14	17	23	10	6	16	M5
*	20	**173 061 006**	0.007	6	11	17	19	25	10	6	16	M5
*	25	**173 061 007**	0.009	6	11	19	22	28	10	6	16	M5
*	32	**173 061 008**	0.011	6	11	24	27	31	10	6	16	M5
	40	**173 061 009**	0.026	7	14	34	34	35	10	7	22	M6
	50	**173 061 010**	0.028	7	14	37	37	40	10	7	22	M6
	63	**173 061 011**	0.047	9	17	45	45	52	10	10	25	M8
	75	**173 061 012**	0.061	9	17	52	52	58	10	10	25	M8
	90	**173 061 013**	0.098	9	17	65	65	65	10	10	28	M8
	110	**173 061 014**	0.125	9	17	79	79	75	10	10	28	M8
	125	**173 061 015**	0.194	9	17	88	88	90	10	10	32	M8
	140	**173 061 016**	0.243	9	17	98	98	110	10	10	32	M8
	160	**173 061 017**	0.254	9	17	109	109	108	10	10	32	M8





KLIP-IT spacer type 061 PE

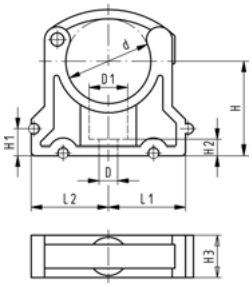
Model:

- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

d [mm]	Inch [inch]	Code	Weight [kg]	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC
	1/8-1/4	**173 061 153**	0.003	5	11	14	20	10	12	M4
16	3/8	**173 061 155**	0.005	6	14	17	20	10	16	M5
20	1/2	**173 061 156**	0.005	6	17	19	20	10	16	M5
25	3/4	**173 061 157**	0.006	6	19	22	20	10	16	M5
32	1	**173 061 158**	0.008	6	24	27	20	10	16	M5
40	11/4	**173 061 159**	0.016	7	34	34	20	10	22	M6
50	11/2	**173 061 160**	0.017	7	37	37	20	10	22	M6
63	2	**173 061 161**	0.025	9	45	45	20	10	25	M8
75	21/2	**173 061 162**	0.027	9	52	52	20	10	25	M8
90	3	**173 061 163**	0.040	9	65	65	20	10	28	M8
110	4	**173 061 164**	0.050	9	79	79	20	10	28	M8
125	41/2	**173 061 165**	0.059	9	88	88	20	10	32	M8
140	5	**173 061 166**	0.065	9	98	98	20	10	32	M8
160	6	**173 061 167**	0.078	9	109	109	20	10	32	M8







KLIP-IT pipe clip type 061H PP BS/ASTM

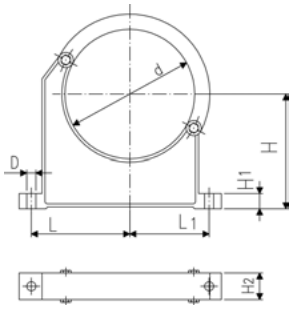
Model:

- **Minimum order quantity: standard packaging SP**
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- Material: PP black, UV resistant

d [inch]	Code	Weight [kg]
¼	**167 061 054**	0.003
⅜	**167 061 085**	0.006
½	**167 061 086**	0.009
¾	**167 061 087**	0.007
1	**167 061 088**	0.012
1 ¼	**167 061 089**	0.025
1 ½	**167 061 090**	0.032
2	**167 061 091**	0.052
2 ½	**167 061 112**	0.062
3	**167 061 013**	0.092
4	**167 061 114**	0.114
5	**167 061 016**	0.224

d [inch]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	SC	closest inch [inch]
¼	5	8	21	10	6	12	11	14	M5	
⅜	6	10	27	10	6	16	14	17	M5	
½	6	10	27	10	6	16	17	19	M5	
¾	6	10	30	10	6	16	19	22	M5	
1	6	10	36	10	6	16	24	27	M5	
1 ¼	7	14	44	10	7	22	34	34	M6	
1 ½	7	14	51	10	7	22	37	37	M6	
2	9	17	64	10	10	25	45	45	M8	
2 ½	9	17	58	10	10	25	52	52	M8	
3	9	17	65	10	10	28	65	65	M8	3
4	9	17	81	10	10	28	79	79	M8	
5	9	17	110	10	10	32	98	98	M8	5





Pipe clip type 060 PP metric

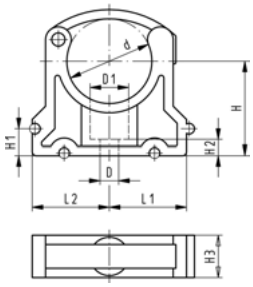
Model:

- Material: clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d [mm]	Code	Weight [kg]	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC	closest inch [inch]
90	**167 060 038**	0.144	9	89	71	105	15	33	M 8	3
110	**167 060 039**	0.158	9	94	80	115	15	33	M 8	4
125	**167 060 040**	0.249	11	116	91	130	20	35	M10	
140	**167 060 041**	0.260	11	121	98	130	20	35	M10	5
160	**167 060 042**	0.296	11	131	107	148	20	35	M10	6
180	**167 060 043**	0.327	11	143	115	163	20	35	M10	7
200	**167 060 019**	0.539	13	152	120	175	25	39	M12	8
225	**167 060 020**	0.178	13	165	132	175	25	39	M12	8
250	**167 060 021**	0.657	13	183	143	200	25	39	M12	9
280	**167 060 022**	0.212	13	198	156	200	25	39	M12	10
315	**167 060 023**	0.805	13	219	172	225	25	39	M12	12
355	**167 060 024**	1.251	17	275	209	258	30	50	M16	14
400	**167 060 025**	1.031	17	300	228	288	30	50	M16	16







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 to d32 without bracket
- d16 - d63: height designed for Ball Valve Type 546 und 543

	d [mm]	Code	Weight [kg]
*	16	**167 061 035**	0.007
	20	**167 061 036**	0.007
	25	**167 061 037**	0.009
*	32	**167 061 038**	0.012
	40	**167 061 039**	0.027
	50	**167 061 040**	0.031
	63	**167 061 041**	0.052

	d [mm]	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC	closest inch [inch]
*	16	6	11	14	17	27	10	6	16	M5	⅜
	20	6	11	17	19	27	10	6	16	M5	½
	25	6	11	19	22	30	10	6	16	M5	¾
*	32	6	11	24	27	36	10	6	16	M5	1
	40	7	14	34	34	44	10	7	22	M6	1 ¼
	50	7	14	37	37	51	10	7	22	M6	1 ½
	63	9	17	45	45	64	10	10	25	M8	2

SeaDrain™

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SeaDrainÊ

SeaDrain™ 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 SeaDrain™ 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. SeaDrain™ 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 SeaDrain™

- 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

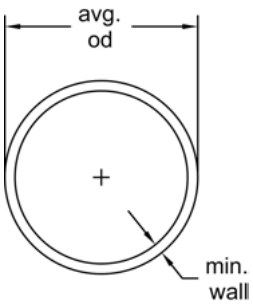
- 11/2“ to 6“ (bigger size on request)

Temperature range

0°C to +80°C (short term 100°C)

Corrosive Waste Pipe - Sch40





Group 1 Homopolymer - 3.05m lengths

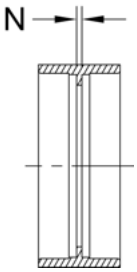
1 1/2" - 6" Available in 20' lengths upon request

Size [inch]	lengths [ft]	Code	Lift Qty [ft]	avg. od [inch]	min. wall [inch]
1 ½	10	**37A013015**	1800	1.900	0.145
2	10	**37A013020**	1050	2.375	0.154
3	10	**37A013030**	580	3.500	0.216
4	10	**37A013040**	510	4.500	0.237
6	10	**37A013060**	220	6.625	0.280

PPFR Fusion Fittings - Schedule 40

Coupling (SxS)

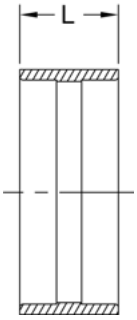




Size [inch]	Code	N [inch]
1 ½	**527001**	0.06
2	**527002**	0.06
3	**527003**	0.13
4	**527004**	0.13
6	**527006**	0.19

Sleeve Coupling (S x S)

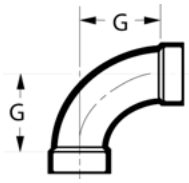




Size [inch]	Code	L [inch]
1 ½	**527041**	1.56
2	**527042**	1.81
3	**527043**	2.00
4	**527044**	2.00
6	**527046**	2.69

1/4 Bend - Long Sweep (SxS) 88,5°





Size [inch]	Code	G [inch]
1 ½	**526276**	2.75
2	**526277**	3.25
3	**526278**	4.06
4	**526279**	4.94
6	**526280F**	11.00

1/4 Bend - Short Sweep (SxS) 88,5°



Size [inch]	Code	G [inch]
1 ½	**526251**	1.75
2	**526252**	2.31
3	**526253**	3.06
4	**526254**	3.88
6	**526256**	5.63

1/4 Bend (91.2°) - Street (S x SPG)



Size [inch]	Code	G [inch]	K [inch]
1 ½	**526451**	1.75	3.11
2	**526452**	2.31	3.70
3	**526453**	3.06	4.75
4	**526454**	3.88	5.38
6	**526456F**	11.00	10.81

1/4 Bend (90°) - Vent (S x S)



Size [inch]	Code	G [inch]
1 ½	**526201**	1.19
2	**526202**	1.50
3	**526203**	1.88

1/6 Bend (60°) (S x S)



Size [inch]	Code	J [inch]
1 ½	**526601**	1.00
2	**526602**	1.31
3	**526603**	1.69
4	**526604**	2.06

1/8 Bend (45°) (S x S)

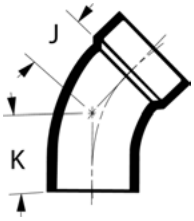




Size [inch]	Code	J [inch]
1 ½	**526501**	1.13
2	**526502**	1.50
3	**526503**	1.75
4	**526504**	2.19
6	**526506**	3.37

1/8 Bend (45°) - Street (S x SPG)

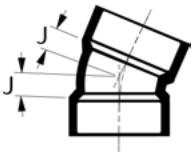




Size [inch]	Code	J [inch]	K [inch]
1 ½	**526401**	1.13	2.44
2	**526402**	1.50	2.50
3	**526403**	1.75	3.25
4	**526404**	2.19	3.25
6	**526406**	3.38	4.75

1/12 Bend (30°) (S x S)

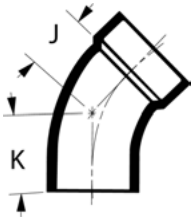




Size [inch]	Code	J [inch]
1 ½	**526951**	0.75
2	**526952**	0.88
3	**526953**	1.25
4	**526954**	1.50

1/12 Bend (30°) - Street (S x SPG)





Size [inch]	Code	J [inch]	K [inch]
1 ½	**526461**	0.75	1.88
2	**526462**	0.88	2.26
3	**526463**	1.25	2.56
4	**526464**	1.50	2.81



1/16 Bend (22.5°) (S x S)

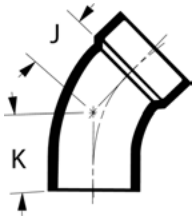
Size [inch]	Code	J [inch]
1 ½	**526551**	0.50
2	**526552**	0.69
3	**526553**	0.81
4	**526554**	1.00



1/24 Bend (15°) (S x S)

Size [inch]	Code	J [inch]
1 ½	**526971**	0.62
2	**526972**	0.63
3	**526973**	0.81
4	**526974**	0.87

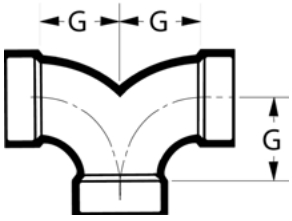




1/24 Bend (15°) - Street (S x SPG)

Size [inch]	Code	J [inch]	K [inch]
1 ½	**526961**	0.62	1.51
2	**526962**	0.63	1.75
3	**526963**	0.81	2.12
4	**526964**	0.88	2.18



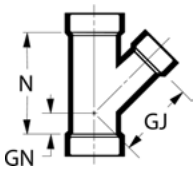


3-Way Ell (91.2°) (S x S x S)

Size [inch]	Code	G [inch]
1 ½	**526261**	1.75
2	**526262**	2.31

45° Wye (S x S x S)

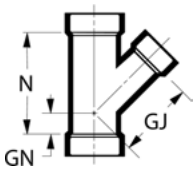




Size [inch]	Code	GJ [inch]	GN [inch]	N [inch]
1 ½	**526301**	2.88	1.13	4.00
2	**526302**	3.63	1.38	5.00
3	**526303**	5.00	1.63	6.63
4	**526304**	6.38	1.88	8.25
6	**526306**	9.13	1.63	10.75

45° Wye - Reducing (S x S x S)

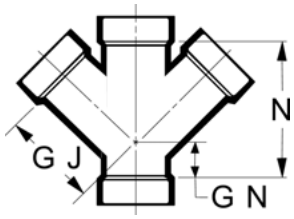




Inch [inch]	Code	GJ [inch]	GN [inch]	N [inch]
2 x 2 x 1 1/2	**526325**	3.44	1.06	4.38
3 x 3 x 1 1/2	**526324**	6.25	0.88	5.00
3 x 3 x 2	**526326**	4.63	0.88	5.00
4 x 4 x 2	**526328**	5.56	0.38	5.06
4 x 4 x 3	**526327**	6.00	1.06	6.63
6 x 6 x 2	**526342**	6.75	1.13	4.73
6 x 6 x 3	**526343**	7.43	0.19	6.38
6 x 6 x 4	**526344**	7.75	0.68	7.73

45° Wye - Double (S x S x S x S)

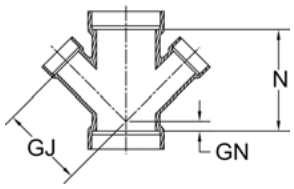




Size [inch]	Code	GJ [inch]	GN [inch]	N [inch]
1 ½	**526380**	3.50	1.13	4.63
2	**526381**	4.00	1.38	5.38
3	**526382**	5.00	1.63	7.63
4	**526383**	6.38	1.88	9.25
6	**526351F**	12.18	6.18	18.38

45° Wye - Double Reducing (S x S x S x S)

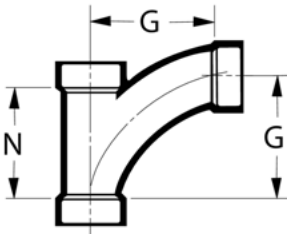




Size [inch]	Code	GJ [inch]	GN [inch]	N [inch]
2 x 2 x 1 1/2 x 1 1/2	**526384**	3.44	1.06	5.38
3 x 3 x 1 1/2 x 1 1/2	**526389**	4.31	0.50	5.25
3 x 3 x 2 x 2	**526385**	4.63	0.88	6.00
4 x 4 x 2 x 2	**526386**	5.56	0.38	6.06
4 x 4 x 3 x 3	**526387**	6.00	1.06	7.63
6 x 6 x 3 x 3	**526390T**	9.94	1.75	12.38
6 x 6 x 4 x 4	**526388T**	10.13	2.25	12.38

Long Turn Tee Wye (91.2°) (S x S x S)

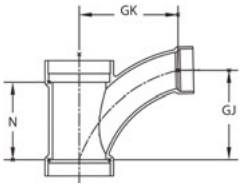




Size [inch]	Code	G [inch]	N [inch]
1 ½	**527301**	3.94	3.63
2	**527302**	5.13	4.44
3	**527303**	7.56	6.50
4	**527304**	9.82	8.75

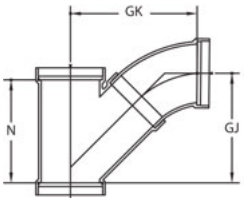
Long Turn Tee Wye (91.2°) - Reducing (S x S x S)





Inch [inch]	Code	GJ [inch]	GK [inch]	N [inch]
2 x 2 x 1 1/2	**527320**	3.94	4.19	3.63
3 x 3 x 1 1/2	**527326**	3.94	4.75	3.81
3 x 3 x 2	**527327**	5.13	5.69	4.75
4 x 4 x 2	**527337**	5.13	6.13	4.50
4 x 4 x 3	**527338**	7.56	8.06	6.50

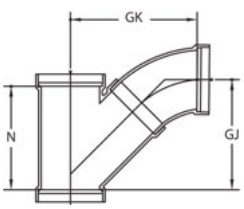




Size [inch]	Code	GJ [inch]	GK [inch]	N [inch]
6	**527306F**	11.41	13.18	10.75

Combo Wye and 1/8 Bend - Reducing (S x S x S)

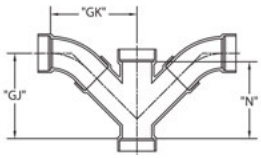




Inch [inch]	Code	GJ [inch]	GK [inch]	N [inch]
6 x 6 x 2	**527344F**	5.44	8.06	4.73
6 x 6 x 3	**527339F**	7.00	9.19	6.38
6 x 6 x 4	**527340F**	8.44	9.94	7.73

Combo Wye (90°) - Double (S x S x S x S)

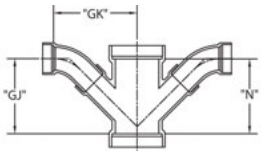




Size [inch]	Code	GJ [inch]	GK [inch]	N [inch]
1 ½	**526801**	5.31	5.31	4.63
2	**526802**	5.98	6.10	5.38
3	**526803**	7.47	7.59	7.63
4	**526804**	8.69	9.00	9.25
6	**526806F**	18.18	15.44	18.38

Combo Wye (90°) - Double Reducing (S x S x S x S)

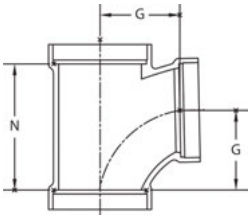




Size [inch]	Code	GJ [inch]	GK [inch]	N [inch]
2 x 2 x 1 1/2 x 1 1/2	**526825**	5.22	5.27	5.38
3 x 3 x 1 1/2 x 1 1/2	**526824**	5.27	5.89	5.25
3 x 3 x 2 x 2	**526826**	5.91	6.54	6.00
4 x 4 x 2 x 2	**526828**	6.08	7.20	6.06
4 x 4 x 3 x 3	**526827**	7.61	8.29	7.63
6 x 6 x 3 x 3	**526843T**	11.18	11.18	12.38
6 x 6 x 4 x 4	**526844T**	11.81	11.75	12.38

Sanitary Tee (91.2°) (S x S x S)

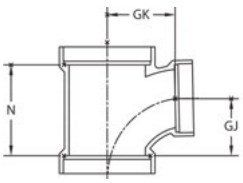




Size [inch]	Code	G [inch]	N [inch]
1 ½	**526151**	1.75	2.75
2	**526152**	2.31	3.69
3	**526153**	3.06	4.88
4	**526154**	3.88	6.13
6	**526156F**	14.25	18.38

Sanitary Tee (91.2°) - Reducing (S x S x S)

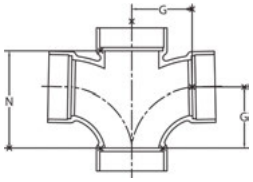




Inch [inch]	Code	GJ [inch]	GK [inch]	N [inch]
2 x 2 x 1 1/2	**526126**	1.96	2.21	3.17
3 x 3 x 1 1/2	**526131**	1.75	2.56	2.68
3 x 3 x 2	**526130**	2.13	2.88	3.31
4 x 4 x 2	**526134**	2.06	3.31	3.19
4 x 4 x 3	**526136**	3.00	3.56	4.75
6 x 6 x 2	**526137F**	3.93	6.00	6.13
6 x 6 x 3	**526138F**	3.93	6.40	6.13
6 x 6 x 4	**526139**	3.93	4.90	6.13

Sanitary Tee (91.2°) - Double (S x S x S x S)

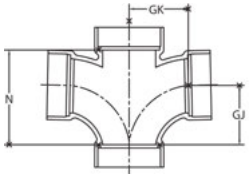




Size [inch]	Code	G [inch]	N [inch]
1 ½	**526187**	1.75	2.75
2	**526186**	2.31	3.69
3	**526183**	3.06	4.88
4	**526185**	3.88	6.13

Sanitary Tee (91.2°) - Double Reducing (S x S x S x S)

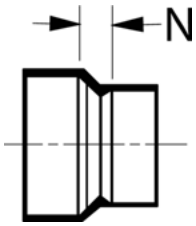




Size [inch]	Code	GJ [inch]	GK [inch]	N [inch]
2 x 2 x 1 1/2 x 1 1/2	**526188**	1.94	2.19	3.13
3 x 3 x 1 1/2 x 1 1/2	**526184F**	2.13	4.38	3.31
3 x 3 x 2 x 2	**526181**	2.13	2.88	3.31
4 x 4 x 2 x 2	**526190F**	3.88	5.01	6.13
4 x 4 x 3 x 3	**526191F**	3.88	5.38	6.13

Pipe Increaser (S x S)

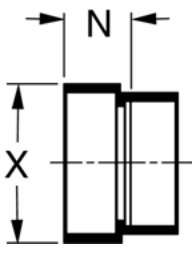




Inch [inch]	Code	N [inch]
1 1/2 x 2	**527022**	0.53
1 1/2 x 3	**527023F**	2.63
2 x 3	**527024**	0.88
2 x 4	**527025**	1.38
3 x 4	**527026**	0.94
3 x 6	**527027F**	1.81
4 x 6	**527028F**	1.63

Reducer Bushing (SPG x S)





Inch [inch]	Code	N [inch]	X [inch]
2 x 1 1/2	**526752**	1.61	2.38
3 x 1 1/2	**526762**	1.50	3.50
3 x 2	**526754**	1.50	3.50
4 x 2	**526758**	1.13	4.50
4 x 3	**526756**	1.50	4.50
6 x 4	**526767**	1.28	6.63

Cap (S)





Size [inch]	Code	HL [inch]
1 ½	**527081**	0.53
2	**527082**	0.32
3	**527083**	0.91
4	**527084**	1.09
6	**527087**	1.56

Male Adapter (S x MPT)

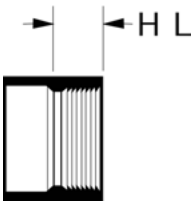




Size [inch]	Code	HL [inch]
1 ½	**526871**	1.18
2	**526872**	1.25
3	**526873**	1.84
4	**526874**	2.00
6	**526876F**	3.50

Female Adapter (S x FPT)

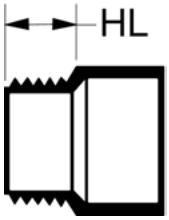




Size [inch]	Code	HL [inch]
1 ½	**526891**	1.12
2	**526892**	1.15
3	**526893**	1.72
4	**526894**	1.81
6	**526896**	2.82

Male Adapter (SxBSP)





Size [inch]	Code	Pack Qty	Weight [lb]	HL [inch]	L [inch]
1 ½	**37D168801**	50	0.120		
2	**37D168802**	40	0.180		

Male Adapter - Reducing (SxBSP)

Inch Size [inch]	Code	Pack Qty	Weight [lb]
2 - 1 ½	**37D168830**	40	0.150

Female Adapter (SxBSP)

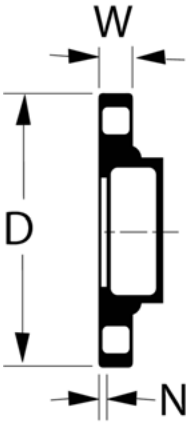
Size [inch]	Code	Pack Qty	Weight [lb]	HL [inch]	L [inch]	T [inch]
1 ½	**37D168101**	50	0.150			
2	**37D168102**	50	0.280			

Female Adapter - Reducing (SxBSP)

- Threads ISO 7-1 DIN 2999

Inch Size [inch]	Code	Pack Qty	Weight [lb]
2 - 1 ½	**37D168130**	100	0.200



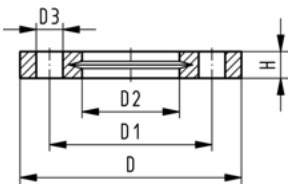


Flange - Van Stone DN PN10 Pattern (S)

Size [inch]	DN [mm]	Code	Weight [lb]	N [inch]	W [inch]	# holes	bout-gat dia. (needs to be delet-ed) [inch]	bolt cir. dia. [inch]	D [inch]
1 ½	40	**37D169340**	0.703	2.10	1.0	4	1	4	6
2	50	**37D169350**	2.000	0.34	1.0	4	1	5	6
3	65	**37D169365**	2.100	0.44	1.0	4	1	6	8
4	100	**37D169310**	2.210	0.42	1.0	8	1	7	9
6	150	**37D169315**	2.425	0.45	1.0	8	1	9	11







Backing flange PP-V
For socket systems metric

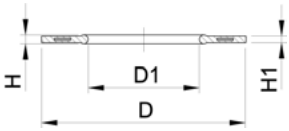
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
* Combined version, metric-ANSI
AL: number of holes

Model:

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

	d [mm]	DN [mm]	PN [bar]	Code	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
	90	80	16	**727 700 413**	0.550	200	160	110	18	27	8	M16
	110	100	16	**727 700 414**	0.640	220	180	133	18	28	8	M16
	160	150	16	**727 700 417**	1.050	285	241	190	22	32	8	M20





Profile Flange Gasket, metric
EPDM / FPM

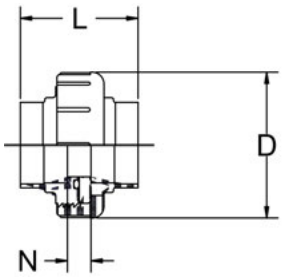
Model:

- 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 flanges adaptors

d [mm]	PN [bar]	DN [mm]	EPDM Code	FPM Code	Weight [kg]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
40	16	32	**748 440 709**	**749 440 709**	0.026	82	40	4	3	30 - 40
50	16	40	**748 440 710**	**749 440 710**	0.039	92	46	4	3	36 - 46
63	16	50	**748 440 711**	**749 440 711**	0.050	107	58	5	4	48 - 58
90	16	80	**748 440 713**	**749 440 713**	0.083	142	84	5	4	73 - 84
110	16	100	**748 440 714**	**749 440 714**	0.127	162	104	6	5	94 - 104
160 - 180	16	150	**748 440 717**	**749 440 717**	0.207	218	160	8	6	150 - 160

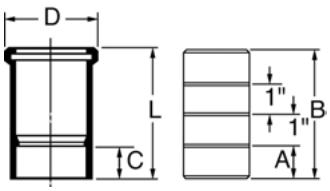




Union (PPFR x PPFR)/PPFR Nut (S x S)

Size [inch]	FPM Code	EPDM Code	D [inch]	L [inch]	N [inch]
1 ½	**528291**	**527271**	3.75	3.38	0.63
2	**528292**	**527272**	4.63	3.75	0.75
3	**528293**	**527273**	6.75	4.68	0.90
4	**528294**	**527274**	8.50	5.54	1.00

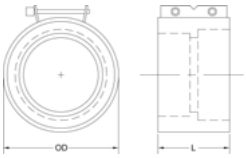




Vertical and Horizontal Expansion Joint w / EPDM O-Ring

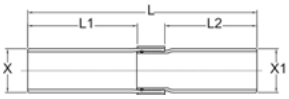
Size [inch]	EPDM Code	A [inch]	B [inch]	C [inch]	D [inch]	L [inch]
1 ½	**527811A**	0.97	4.09	0.75	2.65	4.10
2	**527812A**	1.19	4.53	0.88	3.15	4.50
3	**527813A**	1.59	5.31	0.94	4.64	5.25
4	**527814A**	2.09	6.34	0.94	5.78	5.69





Metal Transition Coupling

Size [inch]	DN-DN [mm]	Code	O.D. [inch]	L [inch]
1 ½	48 - 50	**8887**	3	2
1 ½	53 - 55	**8880**	3	2
2	53 - 55	**8881**	3	2
2	75 - 76	**8882**	4	2
3	75 - 76	**8883**	4	2
4	102 - 110	**8884**	5	2
6	159 - 160	**8886**	7	3

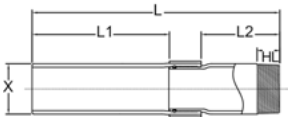


Metal Transition Fitting (PPFR x SS)(SPG x SPG)

Instruments:

- USPH Compliant Transition

Inch [inch]	Code	L [inch]	L1 [inch]	L2 [inch]	X [inch]	X1 [inch]
2 x 2	**528729**	21.96	10.50	10.00	2.38	2.38
3 x 2 1/2	**528730**	22.13	9.50	10.13	3.50	2.88
3 x 3	**528731**				3.50	3.50
4 x 4	**528732**				4.50	4.50
6 x 6	**528733**				6.63	6.63



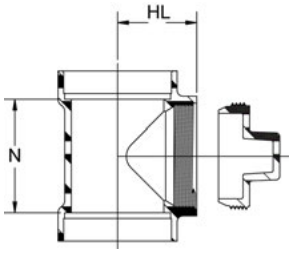
Metal Transition Fitting (PPFR x SS)(SPG x MPT)

Inch [inch]	Code	L [inch]	L1 [inch]	L2 [inch]	X [inch]
2 x 2	**528907**	11.72	6.50	3.72	2.38

SeaDrain™ Cleanouts

Cleanout Tee with Plug

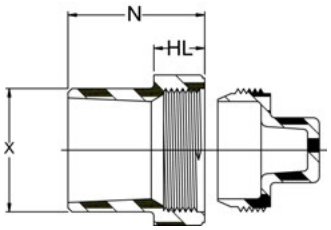




Size [inch]	Code	HL [inch]	N [inch]
1 ½	**526114A**	1.82	2.12
2	**526115A**	2.13	2.74
3	**526116A**	2.63	3.75
4	**526117A**	3.38	5.00
6	**526118AF**	7.75	18.00

Cleanout Adapter with Plug (SPG x FT)

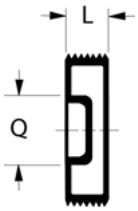




Size [inch]	Code	HL [inch]	N [inch]	X [inch]
1 ½	**527701A**	0.78	2.09	1.90
2	**527702A**	0.78	2.22	2.38
3	**527703A**	1.09	2.66	3.50
4	**527704A**	1.13	2.94	4.50
6	**527706A**	1.31	2.63	6.63

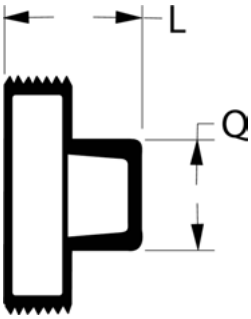
Countersunk Plug for Cleanout





Size [inch]	Code	L [inch]	Q [inch]
3	**527063**	1.03	1.31
4	**527064**	1.16	1.63





Plug (MT)

Use with cleanout tees, cleanout adapters and cleanout p-traps only

Size [inch]	Code	L [inch]	Q [inch]	Remarks
1	**527049**	0.99	0.75	Used for 527201A & 527202A
1 ½	**527051**	1.56	1.00	Used for 527203A & 527204A
2	**527052**	1.54	1.25	
3	**527053**	2.03	1.63	
4	**527054**	2.16	2.00	
6	**527057**	2.38	2.38	

SeaDrain™ Traps

P-Trap (SxS)



1-1/2" - 4" U-Bend Joint must be fused in the field
6" U-Bend Joint is Factory Fused

Size [inch]	Code	GJ [inch]	GN [inch]	L1 [inch]	L2 [inch]	L3 [inch]
1 ½	**527201**	4.71	1.68	2.06	3.64	3.50
2	**527202**	6.94	2.44	2.71	4.75	5.06
3	**527203**	8.88	2.79	3.41	6.43	6.75
4	**527204**	10.75	3.88	3.88	8.06	8.50
6	**527206F**	20.88	5.63	9.19	15.25	15.25

P-Trap with Cleanout (S x S)



1-1/2" - 4" U-Bend Joint must be fused in the field

Size [inch]	Code	GJ [inch]	GN [inch]	L1 [inch]	L2 [inch]	L3 [inch]
1 ½	**527201A**	4.71	1.68	2.06	3.64	3.50
2	**527202A**	6.94	2.44	2.71	4.75	5.06
3	**527203A**	8.88	2.79	3.41	6.43	6.75
4	**527204A**	10.75	3.88	3.88	8.06	8.50

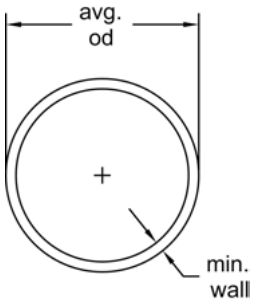
P-Trap with Union Connection (S x S)



Size [inch]	Code	GJ [inch]	GN [inch]	L1 [inch]	L2 [inch]	L3 [inch]
1 ½	**527211E**	4.84	1.68	2.38	4.00	3.50
2	**527212E**	6.50	2.44	2.84	4.88	5.06

Large Diameter Fusion Fittings - PPNFR

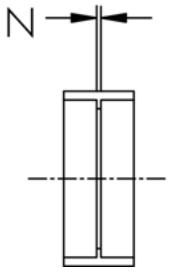




Group 1 Homopolymer - 3.05m lengths

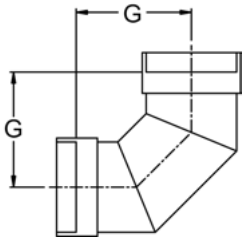
1 1/2" - 6" Available in 20' lengths upon request

Size [inch]	lengths [ft]	Code	Lift Qty [ft]	avg. od [inch]	min. wall [inch]
8	20	**37A023080**	280	8.625	0.322
10	20	**37A023100**	220	10.750	0.365
12	20	**37A023120**	100	12.750	0.406



Coupling (S x S)

Size [inch]	FR Code	NFR Code	N [inch]
8	**527008**		0.25
10	**527100**		0.25
12	**527120**		0.25
14		**217014**	0.25

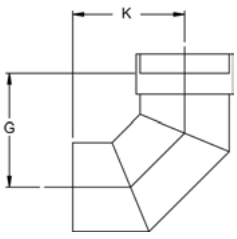


1/4 Bend (90°) - 3 Segment (S x S)

Size [inch]	NFR Code	FR Code	G [inch]
8	**216258F**	**526258F**	12.25
10	**216255F**	**526255F**	14.25
12	**216257F**	**526257F**	16.25

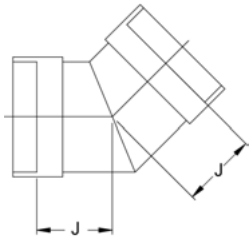
1/4 Bend (90°) - 3 Segment (SPG x SPG)

Size [inch]	NFR Code
14	**216214F**
16	**216216F**
18	**216218F**



1/4 Bend (90°) - Street (S x SPG)

Size [inch]	NFR Code	FR Code	G [inch]	K [inch]
8	**216458F**	**526458F**	12.25	12.00
10	**216455F**	**526455F**	14.25	14.00
12	**216457F**	**526457F**	16.25	16.00

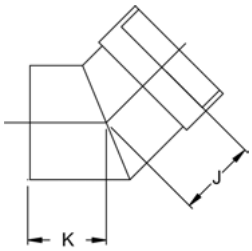


1/8 Bend (45°) (S x S)

Size [inch]	NFR Code	FR Code	J [inch]
8	**216508F**	**526508F**	6.94
10	**216505F**	**526505F**	7.75
12	**216507F**	**526507F**	8.50

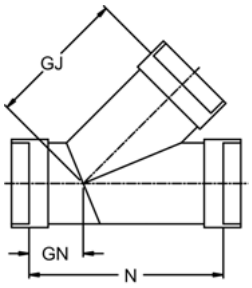
1/8 Bend (45°) (SPG x SPG)

Size [inch]	NFR Code
14	**216514F**
16	**216516F**
18	**216518F**



1/8 Bend (45°) - Street (S x SPG)

Size [inch]	NFR Code	FR Code	J [inch]	K [inch]
8	**216408F**	**526408F**	6.94	6.69
10	**216405F**	**526405F**	7.75	7.25
12	**216407F**	**526407F**	8.50	8.25

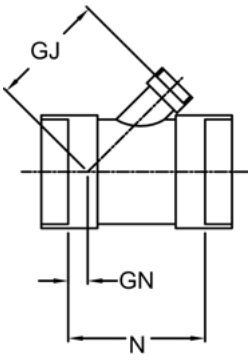


45° Wye (S x S x S)

Size [inch]	NFR Code	FR Code	GJ [inch]	GN [inch]	N [inch]
8	**216308F**	**526308F**	15.50	7.00	22.50
10	**216305F**	**526305F**	20.75	7.75	28.50
12	**216300F**	**526300F**	22.00	8.50	30.50

45° Wye (SPG x SPG x SPG)

Size [inch]	NFR Code
14	**216314F**
16	**216316F**
18	**216318F**



45° Wye - Reducing (S x S x S)

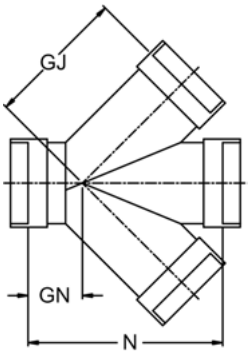
Inch [inch]	NFR Code	FR Code	GJ [inch]	GN [inch]	N [inch]
8 x 8 x 3	**216347T**	**526347T**	10.50	1.50	12.00
8 x 8 x 4	**216346T**	**526346T**	11.00	2.00	13.00
8 x 8 x 6	**216345T**	**526345T**	12.50	3.50	16.00
10 x 10 x 3	**216321T**	**526321T**	12.00	2.00	14.00
10 x 10 x 4	**216322T**	**526322T**	12.63	2.13	14.75
10 x 10 x 6	**216323T**	**526323T**	14.50	4.00	18.50
10 x 10 x 8	**216324T**	**526324T**	15.75	5.25	21.00
12 x 12 x 4	**216332T**	**526332T**	14.00	1.50	15.50
12 x 12 x 6	**216333T**	**526333T**	15.50	3.00	18.50
12 x 12 x 8	**216334T**	**526334T**	17.25	4.50	24.75
12 x 12 x 10	**216335T**	**526335T**	19.25	6.00	25.25

45° Wye - Reducing (SPG x SPG x S)

Inch [inch]	NFR Code
14 x 14 x 4	**216358F**
14 x 14 x 6	**216359F**
14 x 14 x 8	**216360F**
14 x 14 x 10	**216361F**
14 x 14 x 12	**216362F**
16 x 16 x 4	**216366F**
16 x 16 x 6	**216367F**
16 x 16 x 8	**216368F**
16 x 16 x 10	**216369F**
16 x 16 x 12	**216370F**
18 x 18 x 4	**216375F**
18 x 18 x 6	**216376F**
18 x 18 x 8	**216377F**
18 x 18 x 10	**216378F**
18 x 18 x 12	**216379F**

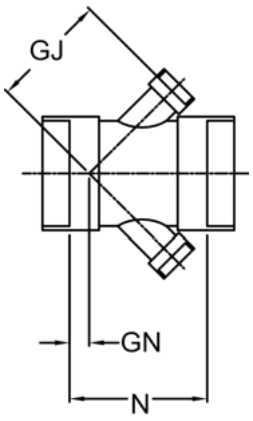
45° Wye - Reducing (SPG x SPG x SPG)

Inch [inch]	NFR Code
16 x 16 x 14	**216371F**
18 x 18 x 14	**216388F**
18 x 18 x 16	**216381F**



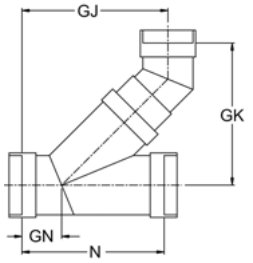
45° Wye - Double (S x S x S x S)

Size [inch]	NFR Code	FR Code	GJ [inch]	GN [inch]	N [inch]
8	**216352F**	**526352F**	15.50	7.00	22.50
10	**216355F**	**526355F**	20.75	7.75	28.50
12	**216350F**	**526350F**	22.00	8.50	30.50



45° Wye - Double Reducing (S x S x S x S)

Size [inch]	NFR Code	FR Code	GJ [inch]	GN [inch]	N [inch]
8 x 8 x 3 x 3	**216389T**	**526393T**	10.50	1.50	12.00
8 x 8 x 4 x 4	**216388T**	**526391T**	11.00	2.00	13.00
8 x 8 x 6 x 6	**216386T**	**526392T**	12.50	3.50	16.00
10 x 10 x 3 x 3	**216370T**	**526370T**	13.18	2.18	15.38
10 x 10 x 4 x 4	**216371T**	**526371T**	12.63	2.13	14.75
10 x 10 x 6 x 6	**216372T**	**526372T**	14.50	4.00	18.50
10 x 10 x 8 x 8	**216373T**	**526373T**	15.75	5.25	21.00
12 x 12 x 4 x 4	**216382T**	**526394T**	14.00	1.50	15.50
12 x 12 x 6 x 6	**216383T**	**526395T**	15.50	3.00	18.50
12 x 12 x 8 x 8	**216384T**	**526396T**	17.25	4.50	21.75
12 x 12 x 10 x 10	**216385T**	**526397T**	19.25	6.00	25.25

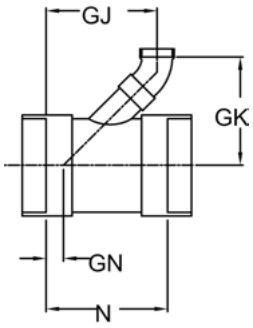


Combo Wye & 1/8 Bend (90°) (S x S x S)

Size [inch]	NFR Code	FR Code	GJ [inch]	GK [inch]	GN [inch]	N [inch]
8	**216716F**	**526716F**	22.63	22.63	7.00	22.50
10	**216700F**	**526700F**	27.75	27.75	7.75	28.50
12	**216701F**	**526701F**	30.00	30.00	8.50	30.50

Combo Wye & 1/8 Bend (90°) (SPG x SPG x SPG)

Size [inch]	NFR Code
14	**217314F**
16	**217316F**
18	**217318F**



Combo Wye & 1/8 Bend (90°) - Reducing (S x S x S)

Inch [inch]	NFR Code	FR Code	GJ [inch]	GK [inch]	GN [inch]	N [inch]
8 x 8 x 3	**216709T**	**526709T**	11.25	11.50	1.50	12.00
8 x 8 x 4	**216717T**	**526717T**	12.00	12.25	2.00	13.00
8 x 8 x 6	**216715T**	**526715T**	15.69	15.56	3.50	16.00
10 x 10 x 3	**216707T**	**526707T**	12.81	12.56	2.00	14.00
10 x 10 x 4	**216721T**	**526721T**	13.38	13.44	2.13	14.75
10 x 10 x 6	**216711T**	**526711T**	17.63	17.00	4.00	18.50
10 x 10 x 8	**216712T**	**526712T**	21.13	22.75	5.25	21.00
12 x 12 x 4	**216720T**	**526720T**	13.69	14.38	1.50	15.50
12 x 12 x 6	**216718T**	**526718T**	17.31	17.69	3.00	18.50
12 x 12 x 8	**216719T**	**526719T**	21.44	23.81	4.50	21.75
12 x 12 x 10	**216710T**	**526710T**	24.88	26.69	6.00	25.25

Combo Wye (90°) - Reducing (SPG x SPG x S)

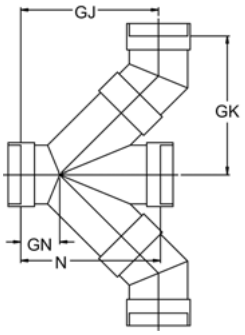
Inch [inch]	NFR Code
14 x 14 x 4	**217358F**
14 x 14 x 6	**217359F**
14 x 14 x 8	**217360F**
14 x 14 x 10	**217361F**
14 x 14 x 12	**217362F**

table continued next page

Inch [inch]	NFR Code	
16 x 16 x 4	**217366F**	
16 x 16 x 6	**217367F**	
16 x 16 x 8	**217368F**	
16 x 16 x 10	**217369F**	
16 x 16 x 12	**217370F**	
18 x 18 x 4	**217375F**	
18 x 18 x 6	**217376F**	
18 x 18 x 8	**217377F**	
18 x 18 x 10	**217378F**	
18 x 18 x 12	**217379F**	

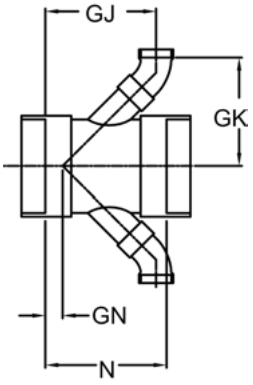
Combo Wye (90°) - Reducing (SPG x SPG x SPG)

Inch [inch]	NFR Code	
16 x 16 x 14	**217371F**	
18 x 18 x 14	**217380F**	
18 x 18 x 16	**217381F**	



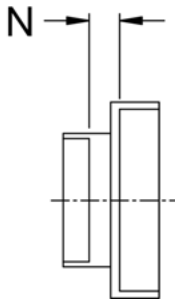
Combo Wye (90°) - Double (S x S x S x S)

Size [inch]	NFR Code	FR Code	GJ [inch]	GK [inch]	GN [inch]	N [inch]	
8	**216816F**	**526816F**	22.63	22.63	7.00	22.50	
10	**216800F**	**526800F**	27.75	27.75	7.75	28.50	
12	**216801F**	**526801F**	30.00	30.00	8.50	30.50	



Combo Wye (90°) - Double Reducing (S x S x S x S)

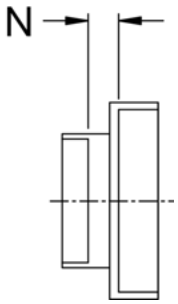
Size [inch]	NFR Code	FR Code	GJ [inch]	GK [inch]	GN [inch]	N [inch]	
8 x 8 x 3 x 3	**216809T**	**526809T**	11.25	11.50	1.50	12.00	
8 x 8 x 4 x 4	**216817T**	**526817T**	12.00	12.25	2.00	13.00	
8 x 8 x 6 x 6	**216815T**	**526815T**	15.69	15.56	3.50	16.00	
10 x 10 x 3 x 3	**216807T**	**526807T**	12.81	12.56	2.00	14.00	
10 x 10 x 4 x 4	**216821T**	**526821T**	13.38	13.44	2.13	14.75	
10 x 10 x 6 x 6	**216811T**	**526811T**	17.63	17.00	4.00	18.50	
10 x 10 x 8 x 8	**216812T**	**526812T**	21.13	22.75	5.25	21.00	
12 x 12 x 4 x 4	**216820T**	**526820T**	13.69	14.38	1.50	15.50	
12 x 12 x 6 x 6	**216818T**	**526818T**	17.31	17.69	3.00	18.50	
12 x 12 x 8 x 8	**216819T**	**526819T**	21.44	23.81	4.50	21.75	
12 x 12 x 10 x 10	**216810T**	**526810T**	24.88	26.69	6.00	25.25	



Pipe Increaser (S x S)

Inch [inch]	NFR Code	FR Code	N [inch]	
8 x 3		**527035F**	2.00	
8 x 4		**527034F**	1.75	
8 x 6		**527033F**	1.63	
10 x 3	**217040F**	**527040F**	1.00	
10 x 4	**217030F**	**527030F**	1.18	
10 x 6	**217031F**	**527031F**	1.50	
10 x 8	**217032F**	**527032F**	2.13	

table continued next page



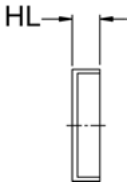
Inch [inch]	NFR Code	FR Code	N [inch]
12 x 4	**217036F**	**527036F**	1.00
12 x 6	**217037F**	**527037F**	1.50
12 x 8	**217038F**	**527038F**	2.00
12 x 10	**217039F**	**527039F**	3.00

Pipe Increaser (SPG x S)

Inch [inch]	NFR Code
14 x 4	**217058F**
14 x 6	**217059F**
14 x 8	**217060F**
14 x 10	**217061F**
14 x 12	**217062F**
16 x 4	**217066F**
16 x 6	**217067F**
16 x 8	**217068F**
16 x 10	**217069F**
16 x 12	**217070F**
18 x 4	**217075F**
18 x 6	**217076F**
18 x 8	**217077F**
18 x 10	**217078F**
18 x 12	**217079F**

Pipe Increaser (SPG x SPG)

Inch [inch]	NFR Code
16 x 14	**217071F**
18 x 14	**217080F**
18 x 16	**217081F**

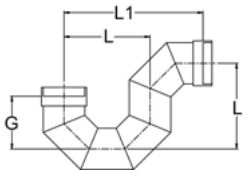


Cap (S)

Size [inch]	NFR Code	FR Code	HL [inch]
8		**527088**	1.81
10	**217090F**	**527090F**	3.38
12	**217092F**	**527092F**	3.38

Cap (SPG)

Size [inch]	NFR Code
14	**217014F**
16	**217016F**
18	**217018F**

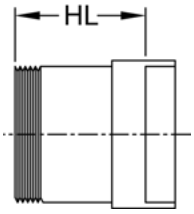


P-Trap (S x S)

Size [inch]	NFR Code	FR Code	G [inch]	L [inch]	L1 [inch]
8	**217208F**	**527208F**	12.25	18.25	30.50
10	**217210F**	**527210F**	14.25	22.25	36.50
12	**217212F**	**527212F**	16.25	26.50	42.75

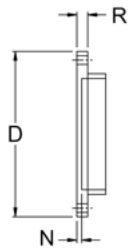
P-Trap (SPG x SPG)

Size [inch]	NFR Code
14	**217214F**
16	**217216F**
18	**217218F**



Male Adapter (S x MPT)

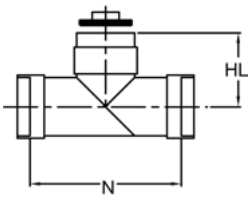
Size [inch]	NFR Code	HL [inch]
8	**216878F**	4.38



Flange - Van Stone ANSI 150 lb. Pattern (S)

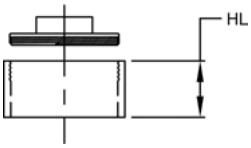
Flange ring material: PVC

Size [inch]	NFR Code	# holes	bolt hole dia. [inch]	bolt cir. dia. [inch]	D [inch]	N [inch]	R [inch]	Bolt Length [inch]
8	**216928**	8	0.88	11.75	13.50	0.44	1.71	3.50
10	**216930**	12	1.00	14.25	16.00	0.50	1.73	3.75
12	**216932**	12	1.00	17.00	19.00	0.50	1.71	4.00



Cleanout Tee with Plug (S x S x FT)

Size [inch]	NFR Code	HL [inch]	N [inch]
8	**216119AF**	11.00	22.50
10	**216120AF**	14.00	28.50
12	**216121AF**	15.00	30.50



Cleanout Adapter with Plug (SPG x FT)

Size [inch]	NFR Code	HL [inch]
8	**217708AF**	4.00
10	**217710AF**	5.00
12	**217712AF**	5.00

SeaDrain™ Fusion Accessories



Fusion Collar with Plastic Clamp

6" Fusion Collars without plastic clamp

Size [inch]	Code	Pack Qty
1 ½	**526282**	10
2	**526283**	10
3	**526284**	10
4	**526285**	10
6	**526287**	10



Fusion Locking Collar with Plastic Clamp

6" Fusion Locking Collars without plastic clamp

Size [inch]	Code	Pack Qty
1 ½	**526042**	10
2	**526043**	10
3	**526044**	10
4	**526045**	10
6	**526047**	10



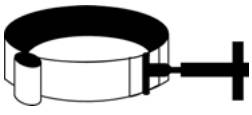
Clamp-Ratchet Closure Style

Size [inch]	Code	Weight [lb]	Pack Qty
1 ½	**37A160601**	0.022	10
2	**37A160602**	0.033	10
3	**37A160603**	0.042	10
4	**37A160604**	0.110	10



Loose Coil

Size [inch]	Code	Pack Qty
8	**37B160808**	10
10	**37B160810**	10
12	**37B160812**	10



Metal Clamp

Size [inch]	Code	Weight [lb]	Pack Qty
6	**37Z000600**	0.399	1
8	**37Z000800**	0.500	1
10	**37Z001000**	0.600	1
12	**37Z001200**	0.600	1

SeaDrain™ Tools



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 ø 20-400, INSTAFLEX PB ø 125, 160, 225, Fuseal Sea Drain ø 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	Weight [kg]	Description	
MSA Plus 250 EX Multi	**799 350 520**	16.360	barcode scanner, transport case	



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", Ppro-Seal 1/2-3".

Description	Code	Weight [lb]	
Barcode Set with Continuity Tester	**799 350 900**	0.661	
Continuity Tester	**799 350 901**	0.441	
Operation Mode Cards MSA250 EX Multi	**799 350 902**	0.220	



MSA Fusion Cables

Replacement MSA fusion cables 5 feet long.

Description	Code	Weight [lb]
Single Cable	**799 350 910**	0.882



Fuseal-Template - electrofusion jointing

Dimension [mm]	Code	Weight [kg]
1 1/2"- 6"	**761 069 622**	0.010



PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	Weight [kg]	Closest inch [inch]
PPC 63, s max. = 7.2mm	10 - 63	**790 109 001**	0.865	⅛ - 2
PPC 110, s max. = 12.7mm	50 - 110	**790 109 002**	1.624	1 ½ - 4
PPC 160, s max. = 19.0mm	110 - 160	**790 109 003**	2.212	4 - 6



Replacement cutting wheels

- **for plastic pipe cutter**

d-d [mm]	Article	Code	Weight [kg]
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0.023



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	Weight [kg]
16 - 200	**790 309 003**	1.024
63 - 400	**790 309 004**	2.548



Spare blades for Chamfering tool

d-d [mm]	Code	Weight [kg]	
25 - 110	**761 066 795**	0.016	



KS Tangit Cleaner

- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB.

DVGW approvedDW 5290 BR 0464

Code	Weight [kg]	
799 298 023	0.872	



Tangit KS-Cleaning Tissues

- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB.

Sales unit: 1 dispenser with 100 tissues

DVGW approvedDW 5290 BR 0464

Code	Weight [kg]	
799 298 024	0.333	

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