

JRG

+GF+

Benefit from more than 35 years
of experience

JRG Sanipex MT

The innovative, dimensionally stable installation system
for sanitary, heating and compressed air installations





System description

JRG Sanipex MT is the innovative installation system owned by Georg Fischer, which consists of crosslinked PE-X multilayer pipes and fittings.

The fittings d16 up to d63 are produced using a special two-layer plastic injection technique. The adapters and system valves are made of gunmetal. All fittings are screwed onto the multilayer pipe using a union nut.

The used materials are hygienically harmless and fully comply with the legal requirements.

The JRG Sanipex MT system is highly corrosion resistant. The construction of the pipe connection is free of water pockets and offers full flow rates without any reduction of the internal cross-section plus multiple safety.

JRG Sanipex MT unions can be unscrewed and reused, which offers great advantages when extending a installation. The simple and easy-to-use tools help reduce assembly times.

JRG Sanipex MT is the ideal system for distribution lines, risers and connecting lines in private homes as well as in large buildings.

Innovative fitting technology

Combined with JRG Sanipex synergistic effects evolve setting new standards for modern building services.

The fittings, such as 90° and 45° elbows, tees and reductions are produced as fitting-in-fitting.

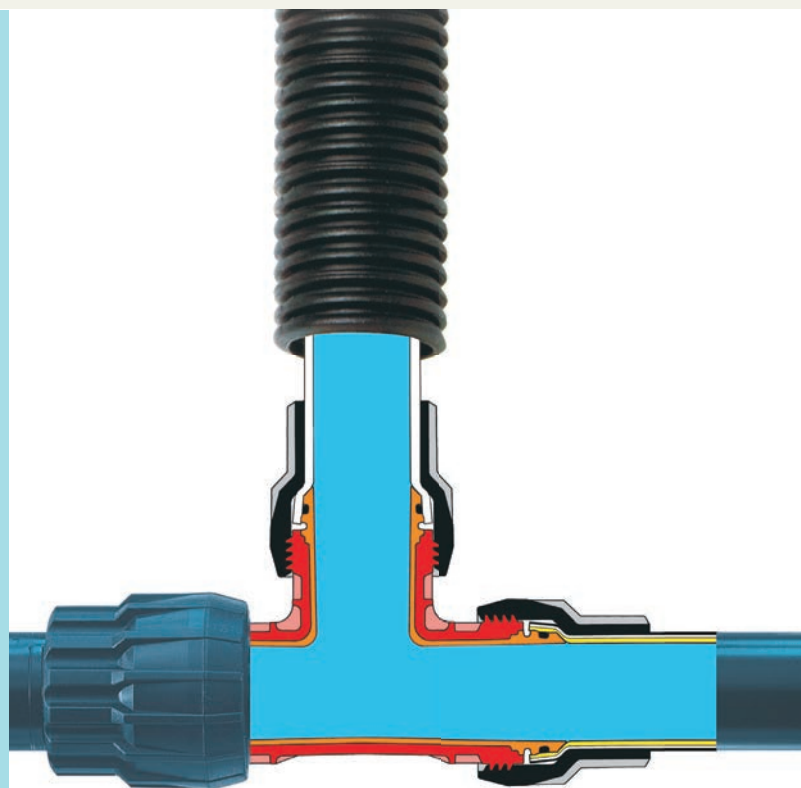
The white, drinking water conducting inner layer is made of hot-water resistant PPSU and the black mechanically resistant external fitting is made of PA with 30% glass fibre reinforcement.





Benefits

- full piping cross section in the fittings
- excellent flow rates
- minimum pressure loss
- water-pocket-free design
- hygienically impeccable
- sophisticated assembly
- fast, simple and safe assembly
- connection with multiple seals
- removable and reusable connection
- high operating reliability
- versatile system
- direct connections to JRG valves
- highly corrosion and chalk resistant
- dimensionally stable, rigid – minimum expansion in length
- dimensions d16/DN12, d20/DN15 and d25/DN20 can be combined with the versatile JRG Sanipex system
- environmentally-friendly and recyclable materials



Technical data

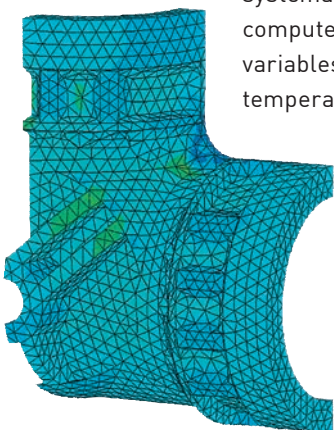
Description	Unit	JRG Sanipex MT PE-X/Al/PE-X						
Pipe dimension	DN	12	15	20	25	32	40	50
Outer diameter	mm	16	20	26	32	40	50	63
Wall thickness	mm	2.25	2.5	3.0	3.0	3.5	4.0	4.5
Inner diameter	mm	11.5	15.0	20.0	26.0	33.0	42.0	54.0
Inner volume	l/m	0.104	0.177	0.314	0.531	0.855	1.350	2.230
Oper. temp., continuous operation	°C	70 °C (50 years)						
Max. operating temperature	°C	95 °C (short-term)						
Max. operating pressure	kPa/bar	1000/10			Cold water up to 1600 kPa/16 bar			
Compressed air (dry and oil-free)	kPa/bar/°C	1500/15 up to 40°C			1000/10 41°C up to 70°C			



Safety with the FEM structure simulation (finite element method)

In order to be able to predict and determine the mechanical behaviour of JRG Sanipex MT system components under maximum load, we designed and dimensioned all components using the finite element method and consistently translated its findings into the final construction.

In an FEM structure simulation, the entire component is recorded applying a finite element model and systematically and completely computed taking into consideration variables such as material properties, temperature and pressure.



Quality assurance and product approval

The JRG Sanipex MT system is subject to permanent monitoring by various internal and external testing bodies ranging from quality assurance during production to several ISO certifications concerning environmental and process safety. In addition, JRG Sanipex MT meets the requirements for key applications in building technology and is constantly monitored by a variety of approval authorities (such as SVGW, DVGW, ÖVGW, SINTEF, SITAC, GL, DNV, IIP etc.) for drinking water installations as well as heating and compressed air systems both on land and at sea.



Installation possibilities

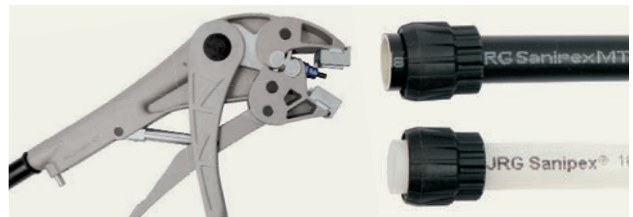


Simple tools for fast assembly

A hydraulic unit, manual and battery powered expansion tools have been developed to substantially reduce assembly times when working with JRG Sanipex MT. Thus pipe dimensions ranging from d16/DN12 to d63/DN50 can be cut and expanded.

Manual expansion pliers with appropriate mandrels and clamping jaws can be applied to MT multilayer pipes d16/20/26/32 (DN12/15/20/25) and flexible PE-X pipes d16, d20 and d25 (DN12/15/20). The pipes need not be calibrated or deburred.

Pipes ranging from d16/DN12 to d63/DN50 can be cut to length and expanded hydraulically. Furthermore, hydraulic bending tools are available for pipes for above dimensions. For pipe dimensions ranging from d16/DN12 to d26/DN20 manual bending tools are available too.



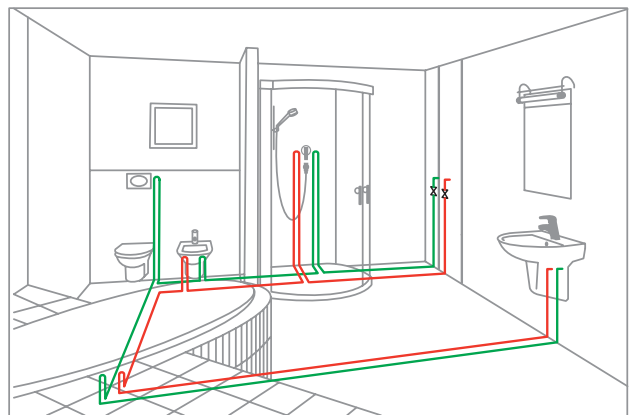


Installation possibilities taking the example of bathrooms

Well-functioning and safe sanitary installations are most prerequisite for satisfaction, comfort and pleasure in the bathroom, even more important than beautiful tiles and modern appliances.

Here, plastic drinking-water pipelines are of prime importance. Water pipelines must be durable, reliable and highly corrosion-resistant if they are expected to work properly.

JRG Sanipex MT is suitable for all types of installation (single tapping points, t-piece or looped installation) in newly built or refurbished houses as well as for industrial supply lines and compressed air systems.



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