



Pexal® XL is the modular fitting system made of technopolymer (PPSU), a plastic material featuring outstanding mechanical strength and resistance to corrosion, ideal for construction of water supply, heating and cooling systems and industrial plants.

The fitting modules are connected to each other with PPS collars that ensure their resistance against loosening, while water tightness is ensured by a double EPDM O-ring.

Using a portable pressing machine, equipped with the relevant jaw, the pipe is shaped around the hose barb of the fitting. The joint, even in the presence of thermal variations, is perfectly watertight and prevents loosening thanks to the stainless-steel bushing that covers the portion of the pipe in contact with the hose barb.

Moreover, the bushing has inspection holes to check that the pipe is inserted correctly into the fitting.

Features

- **Hygiene**

Pexal® XL press fittings are certified for drinking water supply, therefore they can be used for domestic hot and cold water distribution systems. The material of these fittings ensures an outstanding level of hygiene, as well as an excellent resistance to the treatments against legionella.

- **Chemical resistance**

The material used to make these fittings, polyphenylsulfone (PPSU), is a polymer characterized by an exceptional resistance to oxidation and corrosion, to the main chemical compounds dissolved in water, and to cement and lime.

The mechanical properties of this material such as the tensile strength, modulus of elasticity and aging resistance far exceeds those of normal polymers.

- **Safety**

The Pexal® XL fittings are made with a special hose barb using a profile with two seals to ensure maximum safety and reliability over time. The system is completed by PPS collars, ensuring mechanical strength and system uniformity.

- **Ease of use**

Pexal® XL is a simple and user-friendly system. The assembly of modules requires no special equipment, as sealing collars are closed manually. Moreover, the technopolymer lightweight is a further advantage.

- **Modularity**

The modular philosophy that characterises the Pexal® XL range ensures extreme installation flexibility while using just a few items. The assembly versatility allows wide system design freedom, and easily remedying the unforeseen events at the site.

Table. Pexal® XL fittings features.

Body	Polyphenylsulfone (PPSU), characterized by extreme hygiene, chemical resistance and high mechanical characteristics
Sleeve	AISI 304 stainless steel with inspection holes to check the correct insertion of the pipe
Seals	2 made of EPDM
Sealing collar	PPS
Chemical/physical detachment	Polyphenylsulphone is a plastic material not subject to corrosion and oxidation and eliminates the problem of stray currents
Dimensional range	40÷110 mm
Suitable pipes	Pexal®
Equipment required	Pipe cutter, calibrator, lubricant, pressing machine

Table. Pressing profiles for Pexal® XL fittings.

Diameter	Pressing profile
40x3,5	TH,U
50x4	TH,U
63x4,5	TH,U
75x5	U
90x7	U
110x10	U

Note: during installations, always check the suitable pressing profiles for the fitting in question.

Range

Table. Pexal® XL fittings and accessories.

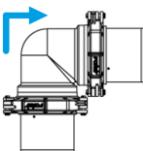
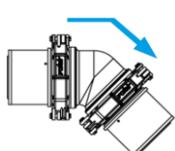
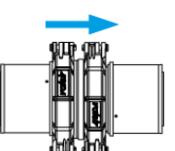
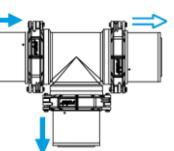
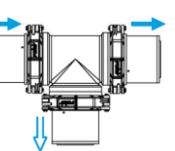
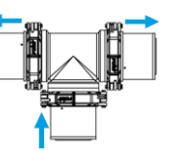
Description	Design	Description	Design
Intermediate coupling		Elbow 45°	
Elbow 90°		Tee	
Reducing		Hose barb	
Threaded elbow (male)		Threaded coupling (female)	
Reducing union tee			

Approvals

The approvals of Valsir® supply systems are available on the website www.valsir.com

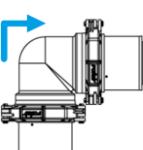
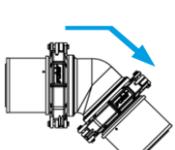
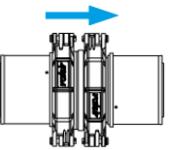
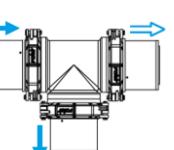
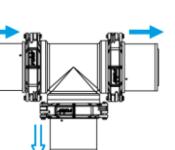
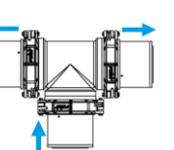
Localized pressure losses for the Pexal® XL range

Equivalent lenght:

Pipe	Fitting					
						
Equivalent length Leq						
90x7	15,7	3,0	2,2	15,7	2,2	9,2
110x10	16,7	3,5	4,0	16,7	2,3	9,3

Note. The velocity considered is 2 m/s

K loss factor:

Pipe	Fitting					
						
K loss factor						
90x7	3,6	0,7	0,5	3,6	0,5	2,1
110x10	3,0	0,6	0,7	3,0	0,4	1,8