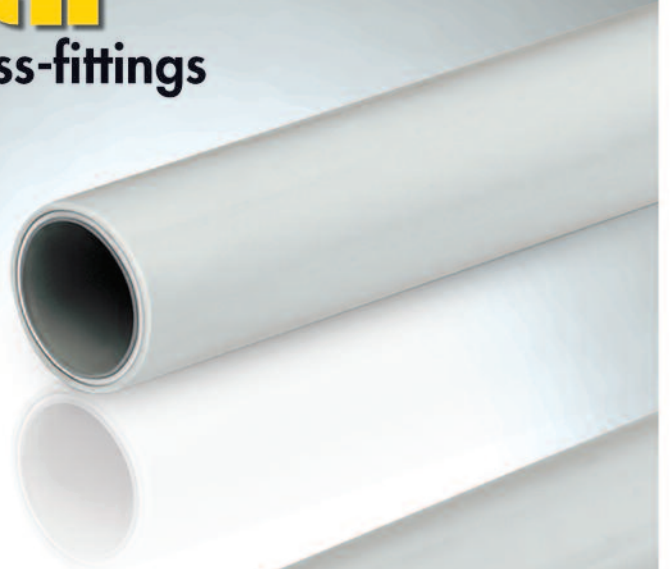


System

universal

PPSU press-fittings



2012 INNOVATION

The new generation of
multi-jaw press-fittings
that are fully made with
synthetic material



aquatechnik®

PPSU press-fittings

universal

universal is the press-fitting system by aquatechnik, made up of multi-calor (PE-X/Al/PE-X) or multi-eco (PE-X/Al/PE-HD) pipes and PPSU press fittings: it is suitable to instal sanitary systems, as well as heating systems with radiators and radiant panels. The **universal** system complies with the standards in force, especially with the European EN ISO 21003 standard.

Features of the system

- ▶ **Complete range, diameters: 16mm - 32mm**
- ▶ **Suitable to convey drinking water**, with considerable resistance to deterioration
- ▶ **Anti-oxygen barrier**, impermeable to oxygen diffusion
- ▶ **Reduced roughness**, poor friction in the pipes
- ▶ **Reduced expansion**, the aluminium layer allows the pipe to expand like a metal pipe
- ▶ **Structural stability**, uniformity of the layers also in case of bending
- ▶ **Simple installation**

Features of the fitting

- ▶ **Multi-jaw system**, pressing guaranteed with the clamp types mentioned in the table
- ▶ **Safe system**, if a clamping operation is not performed, the system testing will highlight a considerable leak of liquid from the fitting/pipe junction
- ▶ **Protected O-rings**, the fitting was designed so that the O-rings cannot get damaged when the fitting is introduced into the pipe
- ▶ **PPSU fittings**, the entire range of fittings is fully made with Polyphenylsulfone
- ▶ **Tested male/female threads**, the male and female threads (made with PPSU) were designed according to the ten-year experience gained with the safety system fittings

PIPE Ø	CLAMP TYPE				
16x2	H	TH	F	B	U
20x2	H	TH	F	B	U
26x3	H	TH	F	B	C
32x3	H	TH	F	B	U

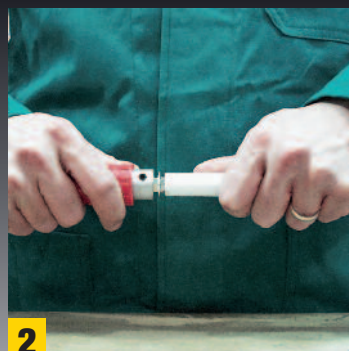
The assembly method

Pressure is a quick, safe and cheap connecting method. The **universal** press-fittings by aquatechnik were conceived to create perfectly sealed connections, which assure reliability in time. The jaw, thanks to the action of the press-machine acts on the press bushing that is installed out of the fitting. The press bushing is made with high-quality laminated steel and is equipped with holes for a radial check of the end point. After pressing, it assures the stability of the connection, thus preventing possible loosening in case of loads due to the following folding. In addition, the bushing protects the O-rings from mechanical damages caused by transport and storage operations.

Assembly steps



1 Cut the multi-calor (PE-X/Al/PE-X) or multi-eco (PE-X/Al/PE-HD) pipe with the shear creating a 90° angle with respect to the pipe axis



2 After calibration, a 1mm-deep ream around the pipe must be visible. It is recommended to perform this operation **ONLY** with original aquatechnik tools.



3 Introduce the pipe into the fitting up to the end point. It is visible through the specific control holes that are to be found in the steel bushing. Only a well-done assembly assures the perfect sealing of the connections.



4 Open the jaw and introduce the fitting into them. Perform the pressing operation and pay attention that the bushing is centred.