



High quality

DRINKING WATER SYSTEMS

for your highest standards





Pipes and Connections for Drinking Water Supply



The Poliext provides a solution that uses well-established, certified components. A combination of different PE pipes and PP compression fittings diameters to deliver clean water to the building.



DRINKING WATER PIPES

Crafted from top-of-the-line High-Density Polyethylene (HDPE) material, our PE100 pipes boast exceptional long-term strength properties, ensuring safe and secure transportation of potable water. The lengthy molecular chains of our pipes make them an ideal choice for high-pressure pipeline systems, while their durability and resistance to UV radiation ensure prolonged service life.

We offer PE100 pipes in diameter from Ø16 to Ø400 mm to cater to all your piping requirements.

- ◆ DVGW, KIWA, ÉMI, UBA and OIB certificates are valid for Ø20 mm - 225 mm



HIGH-PRESSURE FITTINGS

Fittings manufactured from high-quality plastic are suitable for setting up the water supply and irrigation systems. Poliext provides the whole range of fittings and adapters for high-pressure applications, specially designed to match the performance of our valves and tubing (compression fittings, clamp saddles, threaded fittings, manifold fittings, layflat fittings, etc.)

- ◆ DVGW, KIWA, WIEN-ZERT, ITC, UBA and OIB certificates are valid for Ø20 mm to Ø75 mm.
- ◆ ÉMI certificates are valid for Ø90 mm to Ø110 mm in PN12,5 bar.



HIGH-PRESSURE VALVES

High-pressure valves are used for compression or/and threaded connection which corresponds to the requirements of a water supply system (potable water and irrigation) and pressures typical in these applications.

High-pressure valves are available in various tubing sizes and body designs to satisfy widely varied requirements.



CLAMP SADDLES

The Clamp saddle line has been designed for side outputs on Polyethylene pipes (PE). They are great for connecting branched pipes to a main pipe within a water supply or irrigation system. These clamps are designed to be installed easily, without the need to cut the main pipe.

Both types of clamp saddle are made from polypropylene, making them resistant to corrosion, durable and able to withstand various temperatures.



Drinking-water PE100 pipes

PE100 pipes are the third generation of pipe grade PE. Made from first-class High-Density Polyethylene, providing a safe way to transfer potable water. They are characterized by a long service life and UV resistance. Connection: PP compression fittings, butt fusion welding, electro-fusion welding, and socket fusion.

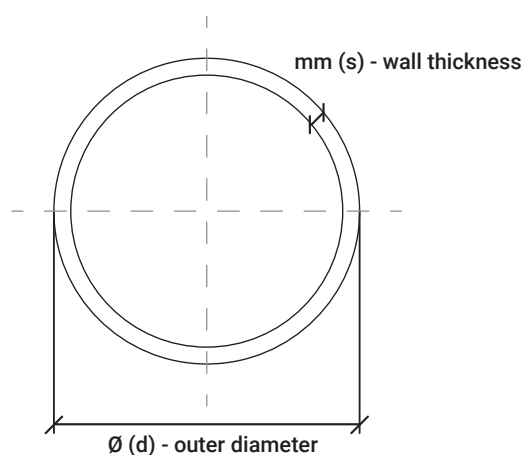
Features

- Long lifetime (even 50 years when placed in the ground)
- UV resistant
- Accurate design and construction



Specifications and Technical data

Diameter:	16 - 400 mm
Color:	Black, with blue stripes
Packaging:	50, 100, 200, 300, 500 m rolls, 6 m pipes, or custom made
Operating pressure:	8 - 16 bar
Heat resistance:	-20 – +40°C; however when used over +20°C the lifetime and pressure resistance is decreased • Below +4°C becomes more rigid, and could be easily damaged; • Below -5°C is not recommended for installation
Thermal Dilatation:	0.2 mm/m/ °C
Certification:	DVGW, KIWA, WIEN-ZERT, ÉMI, UBA and OIB certificates
Standard:	ISO 17885, EN 12201
Field of use:	Cold-water pressure line networking
Methods of Connection:	• PP Compression fittings • Butt fusion welding • Electrofusion fittings



Standard Dimension Ratio $SDR \approx d/s$

Definition - The numerical designation of pipe series is a convenient round number. Approximately equal to the dimension ratio of nominal outside diameter and the nominal wall thickness.

NOTE

DVGW, KIWA, ÉMI, UBA and OIB certificates are valid for Ø20 mm - 225 mm



PP Compression fittings PN16

PP Compression fittings PN16 are designed especially for polyethylene (PE) pipe connection. These fittings are compatible with polyethylene pipes, according to EN 12201. Our range of compression fittings allows a fast and secure connection of polyethylene tubing for any industrial, commercial or domestic need. Available in diameter from 16 mm to 110 mm and with maximum operating pressure of 16 bar (16-75 mm) and 12.5 bar (90-110 mm).

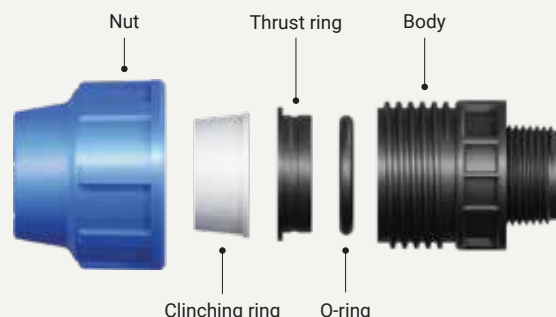
Features

- Certified by DVGW and KIWA and produced according to EU norms and standards
- Produced from primer raw material
Certified for drinking/potable water
- Precise threads, according to EU standards
- Excellent long-term pressure resistance
- High-quality O-ring, coated with silicone
- Strong clinching ring
- Female fittings are with reinforcing metal ring
- Fitting nut has 4-6 threads, providing stronger connection and better pull-out characteristics



Standards

Design:	ISO 17885
Size:	EN ISO 3126
Threads:	ISO 7-1
Pull out resistance:	ISO 3501
Resistance to internal pressure when subject is bended:	ISO 3503, DIN 8076
Resistance to internal pressure (1hour):	ISO 3458, ISO 1167-1, ISO 1167-2, DIN8076
Resistance to internal pressure (1000 hours):	ISO 13846; ISO 1167-1, ISO 1167-2, DIN 8076
Marking:	ISO 17885
Effect to water quality:	According to the national regulations
Qualifications:	ISO 9001
Pipe suitability:	Polyethylene (PE) pipes, in accordance with EN 12201



RAW MATERIALS

Fitting Nut

Blue Polypropylene (PP)

Clinching ring

Polyacetal (POM)

Thrust ring

Black Polypropylene (PP)

O-ring

Ethylene propylene diene monomer rubber (EPDM)

Fitting Body

Black Polypropylene (PP)

Metal ring - only for female thread

Galvanized steel



PP Compression fittings PN16



PP MALE ADAPTOR



PP FEMALE ADAPTOR



PP COUPLING



PP REDUCING COUPLING



PP END PLUG



PP FLANGED ADAPTOR



PP MALE ELBOW



PP FEMALE ELBOW



PP ELBOW



PP WALL SUPPORT ELBOW



PP FLANGED ELBOW



PP REDUCING TEE



PP TEE MALE



PP TEE FEMALE



PP TEE COUPLING



PP FLANGED TEE

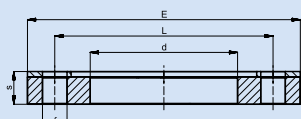
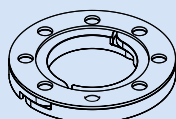


PP COUPLING WITH O-RING
Operating pressure 10 bar



PP END PLUG WITH VALVE
Operating pressure 6 bar

Flange



DN	Ø	E	d	L	f	s	Number of Holes
80	3"	200	108	160	18	24	8
100	4"	225	133	185	18	29	8



High-pressure valves

High-pressure valves are used for compression or/and threaded connection which corresponds to the requirements of a water supply system (potable water and irrigation) and pressures typical in these applications. High-pressure valves are available in various tubing sizes and body designs to satisfy widely varied requirements.

Features

- Secure and fast connection to the water network
- Suitable for above-ground and underground use
- PP Compression valves operating pressure 10 bar, PP Stop valve operating pressure 16 bar
- Easy solution thanks to the wide product range

Standards

Design:	ISO 17885
Size:	ISO 3126
Threads:	ISO 7-1
Markings:	ISO 17885
Pull out resistance:	ISO 3501
Resistance to internal pressure:	ISO 9911

COMPRESSION VALVE

Operating pressure: 10 bar



COMPRESSION VALVE MALE

Operating pressure: 10 bar



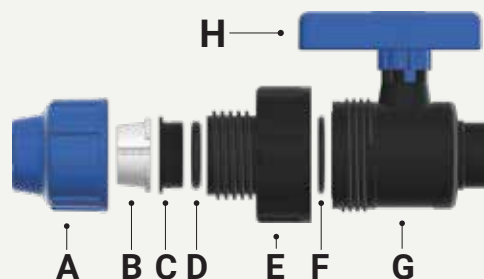
COMPRESSION VALVE FEMALE

Operating pressure: 10 bar



PP STOP VALVE

Operating pressure: 16 bar



RAW MATERIALS

- A Nut**
Blue Polypropylene (PP)
- B Clinching Ring**
Polyoxymethylene (POM)
- C Thrust Ring**
Black Polypropylene (PP)
- D O-ring gasket**
Ethylene propylene diene monomer rubber (EPDM)
- E Body**
Black Polypropylene (PP)
- F Sphere backups**
Bone-colored Thermoplastic elastomer (TPE)
- G Body**
Black Polypropylene (PP)
- H Handle**
Blue Polypropylene (PP)





PP Clamp saddles

PP Clamp saddles are the ideal solution for branching from existing pipelines for water and irrigation applications. Maximum operating pressure is from 6 up to 12.5 bar – depending on the diameter of clamp saddles and if they have or do not have the reinforcing ring.

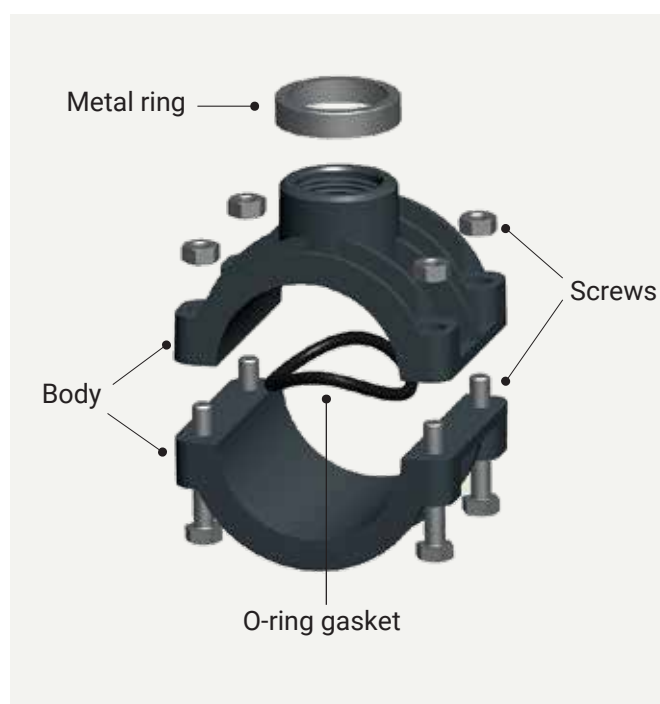
Features

- Easy to install
- Can be installed on any plastic metric pipework
- Reinforced clamp saddles available
- Resistant to breakage
- Can withstand high impact
- Sturdy construction



Specifications and Technical data

Size:	20 - 315 mm
Body:	Black Polypropylene (PP)
Reinforcing metal ring:	Galvanized steel
Bolts (screws) and Nuts:	Galvanized steel
O-ring gasket:	Special elastomeric nitrile rubber (NBR)
Operating pressure:	Without ring: Ø20-63 - 10 bar Ø75-160 - 6 bar With ring: Ø20-63 - 12,5 bar Ø75-315 - 10 bar
Standard:	ISO 13460
Number of bolts:	20 - 50 mm (2) 63 - 125 mm (4) 140 - 160 mm (6)



CLAMP SADDLE

Group 02180



CLAMP SADDLE WITH RING

Group 02190





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