



PVC-O

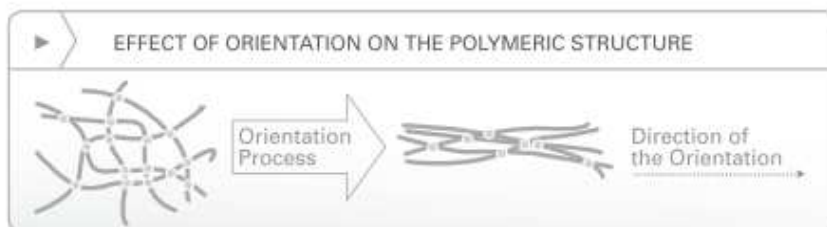
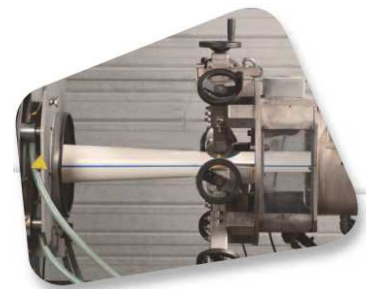
HIGH PRESSURE ORIENTED PVC PIPES

Basic principle

PVC-O pipes are manufactured following a specific technology: the Bi-orientation.

Bi-orientation consists of rearranging molecular chains in order to improve the physical and mechanical properties of the material.

During fabrication, the extruded polymer structure of the PVC is subjected to double drawing in order to form a web/chain unit in two axes: circumferential and longitudinal, which gives the pipe exceptional characteristics within the plastic industry.



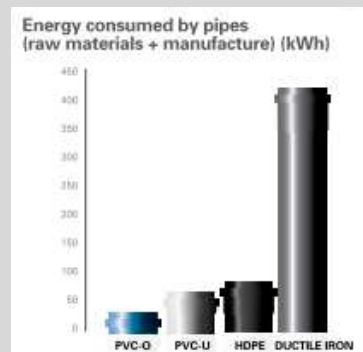
TECHNICAL SPECIFICATION

Material class: 450 / 500

High temperatures (over 25°C) or demanding or aggressive applications can reduce the Allowable Operating Pressure (PFA) of pipes in comparison to the Nominal Pressure (NP). Our technical service will provide you advice in case you need it.

advantages:

- ✓ unbeatable impact resistance
- ✓ high short- and long-term hydrostatic resistance
- ✓ increased hydraulic capacity
- ✓ maximum flexibility
- ✓ completely corrosion-resistant
- ✓ total water quality
- ✓ completely water-tight
- ✓ lower cost
- ✓ easier installation
- ✓ eco-friendly



PVC-O pipes are the best solution for medium and high pressure water networks for:

- irrigation systems
- potable water supply
- fire extinguishing networks and pumping systems
- small power plants

up to 70% lower wall thickness as PE 100
=> higher hydraulic capacity
=> lower price

DELIVERY PROGRAMM

Nominal Diameter (DN)	PN 12.5	PN 16	PN 20	PN 25
mm	EUR/m	EUR/m	EUR/m	EUR/m
90	-	5,15	on request	on request
110	6,35	7,65	on request	on request
125	-	9,90	-	-
140	10,25	12,35	on request	on request
160	13,35	16,20	on request	on request
200	20,80	25,25	on request	on request
225	26,45	31,80	on request	on request
250	32,55	39,35	on request	on request
315	51,50	62,15	on request	on request
355	65,35	78,95	on request	on request
400	82,80	100,30	on request	on request
450	104,90	127,00	on request	on request
500	128,70	158,00	on request	on request
630	204,00	250,80	on request	on request
800	327,85	422,80	on request	on request

PVC-O pipes are supplied in total lengths of approx. 6 meters (sockets included), other lengths on request.

FITTINGS

PVC-O pipes can be used with the majority of traditional assembly parts from the potable water networks.



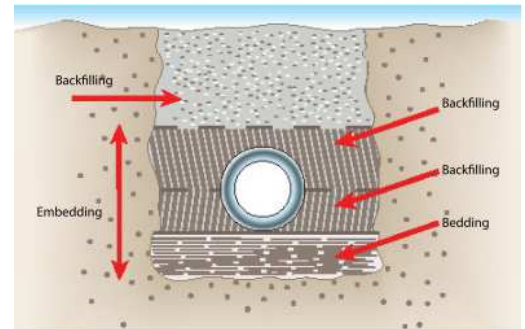
INSTALLATION INSTRUCTION

Excavation, installation bed and backfilling

Pipes should not be installed directly onto the excavated ground but onto a prepared installation bed. The bed should be at least 10 cm high and made of clean material (0/10mm Diam'). A maximum of 12% of the bedding material can be made up of particles less than 80 microns. The installation bed should form a solid support on which the pipes are laid.

Compaction must be done by successive layers (maximal thickness 30 cm) and exclusively on the lateral part of the trench, out of the pipe position.

As a rule of thumb, when there is no road traffic involved, the pipes crown will be at a minimum depth of 60 cm; with road traffic, the minimum depth is 1 meter.



Assembly

- Checks must be made to ensure that joints are clean both inside the pipe and outside.
- To facilitate assembly, it is advisable to lubricate the sockets and free ends using lubrication soap.
- Align the pipe-ends and slot the sockets into place.
- Pipes can be slotted into on another using levers or slings.
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Anchoring and thrusting

Thrust blocks as pictured below are needed whenever the pipeline changes direction or size, stops or has an inline tee piece or valve. The function of these thrust blocks is to prevent deflection or extension of the pipeline under the action of internal fluid pressure and to transfer the resultant forces to the surrounding ground of load bearing capacity.



The pipes should be tested according to EN 805: 2000 Water Supply Standard before entry into service.