

AVK GATE VALVES WITH PE ENDS



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# A FULLY WELDED PE PIPE SYSTEM

A fully welded PE pipe system offers a lot of benefits such as reduced risk of leakage, ease of installation and a high durability. With AVK's comprehensive range of gate valves with PE pipe ends you can design a fully welded PE pipe system up to 630 mm.

## Get the full advantage

The advantages of using PE pipes are many and so are those of using valves with pre-mounted PE pipe ends as part of your PE pipe system. Most importantly, the valves with PE pipe ends will be an integrated part of the PE pipe system. There will be no mechanical couplings and thus no risk of bolts coming loose and causing couplings or flanges to leak if the ground settles around the valve.

When using the same PE material for both valves and pipes, the same welding parameters can be used for all joints and costly mistakes during installation can thereby be avoided.

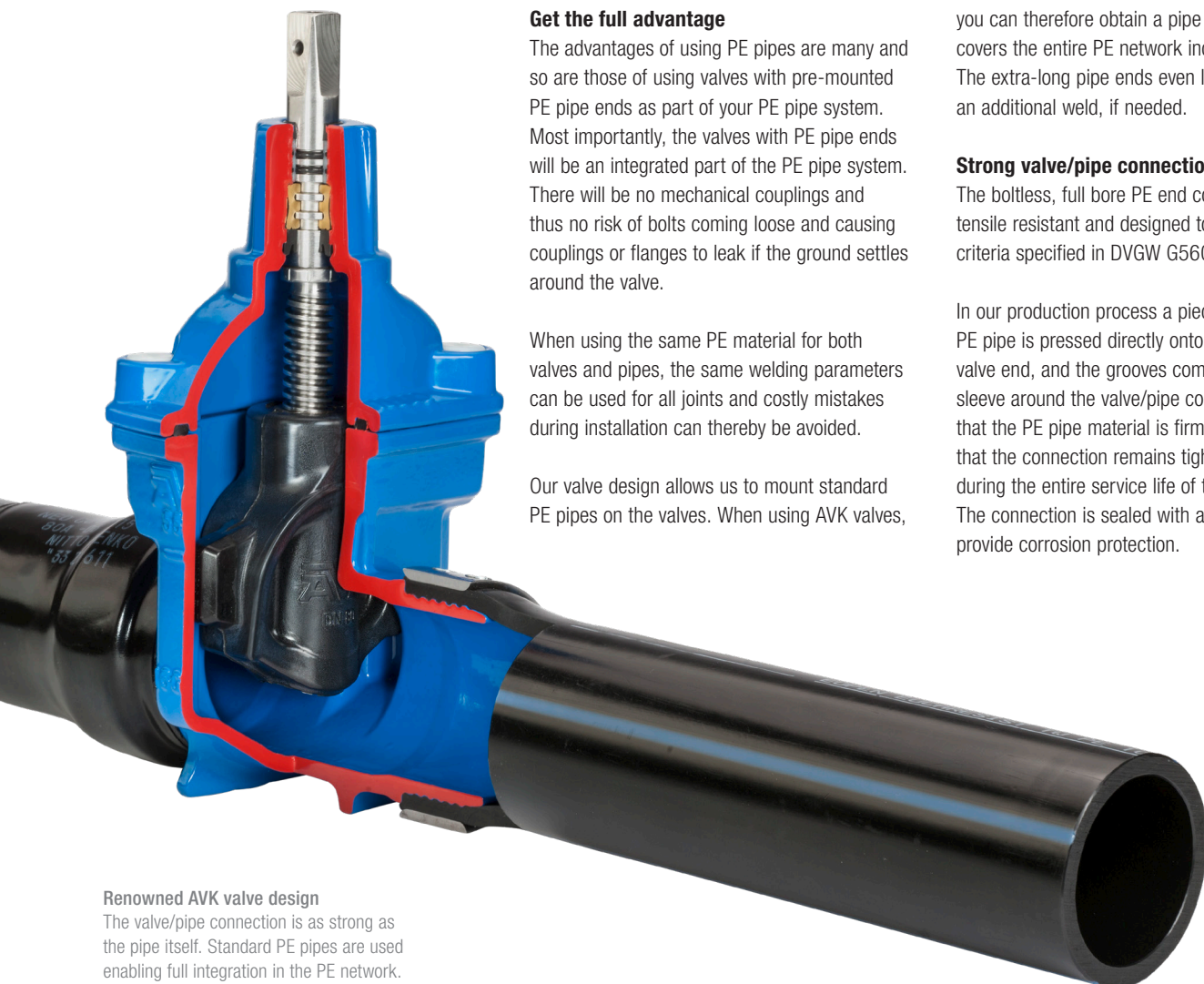
Our valve design allows us to mount standard PE pipes on the valves. When using AVK valves,

you can therefore obtain a pipe approval that covers the entire PE network including valves. The extra-long pipe ends even leave room for an additional weld, if needed.

## Strong valve/pipe connection

The boltless, full bore PE end connection is fully tensile resistant and designed to meet all the criteria specified in DVGW G5600-1.

In our production process a piece of standard PE pipe is pressed directly onto the grooved valve end, and the grooves combined with a sleeve around the valve/pipe connection ensure that the PE pipe material is firmly secured and that the connection remains tight and tensile during the entire service life of the pipeline. The connection is sealed with a shrink hose to provide corrosion protection.



## Renowned AVK valve design

The valve/pipe connection is as strong as the pipe itself. Standard PE pipes are used enabling full integration in the PE network.



AVK valves comply to the highest standards and hold worldwide drinking water approvals for coating, rubber and brass materials, and for the valve itself.

#### AVK gate valve features

- Fixed, integral wedge nut prevents corrosion caused by vibration
- Wedge and body guide rails ensure stable operation
- AVK's wedge rubber has an excellent ability to regain its shape
- AVK's wedge rubber features an excellent bonding, minimum formation of biofilm and high resistance to water treatment chemicals
- Wedge shoes protect rubber against wear
- Large stem hole in the wedge prevents stagnant water
- Rolled threads increase the stem's strength
- Anti-blowout stem design
- Wedge stop protects seals and coating
- Triple safety stem sealing
- Thrust collar provides fixation of the stem and low free running torques
- Bonnet gasket is fixed in recess and encircles bonnet bolts to prevent blow-out
- Countersunk bonnet bolts sealed with hot melt to protect against corrosion
- Full bore ensures low head loss and enables use of pipe cleaning devices
- Low operating torques ensure easy operation
- Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved. Optionally available with external PUR coating (Premium 100 valves).



#### Flexible material

PE pipes are flexible and follow the terrain, so there is no need to level the soil in the trench.



#### Easy handling and installation

PE pipes are easy to handle and transport, and welding can be done above ground.

### Valves for any need

AVK offers many variants of gate valves with PE ends. Our main types for water applications are:

- PE end X PE end (series 36)
- PE end X flange (series 38)
- PE end X Supa Maxi™ end (series 638)

Series 36 is available with black/blue pipes up to 630 mm as well as with SafeTech/Profuse pipes and in several material combinations.

Series 638 features a universal tensile Supa Maxi™ coupling end that connects to any pipe material.



Connection	PE x PE							PE x flange	PE x Supa Maxi™
	Black/blue pipes				Blue SafeTech/Profuse pipes			Black/blue pipe	Black/blue pipe
Pipe OD	SS stem	Duplex stem	Premium 100	ISO top flange	SS stem	Duplex stem	Premium 100	SS stem	SS stem
65								X	
75	X	X	X	X	X	X	X	X	
90	X	X	X	X	X	X	X	X	X
110	X	X	X	X	X	X	X	X	X
125	X	X	X	X	X	X	X	X	X
140	X	X	X	X		X	X		
160	X	X	X	X	X	X	X	X	X
180	X	X	X	X		X	X	X	
200	X	X	X	X	X	X	X	X	X
225	X	X	X	X	X	X	X	X	
250	X	X	X		X	X	X		X
280	X	X	X			X	X		
315	X	X	X		X	X	X		X
355	X	X	X			X	X		
400	X	X	X		X	X	X		
450	X	X	X						
500	X	X	X						
560	X	X	X						
630	X	X	X						

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