

## AVK gate valves with PE-ends



## Gate valves with PE-ends - the natural choice



*Installation of a PE-pipeline*

### Safety in installation

Because of the flexibility of the PE-pipe and the strong valve/pipe connection, a long pipeline can be assembled above ground with preinstalled valves and then placed in the pipe trench.

When choosing AVK valves with PE-ends your pipeline remains drop tight and 100% tensile resistant, even when applying extreme tensile forces to the joints.

*All types of PE-pipes can be premounted on the valve - meeting all customer demands*

**AVK series 36 consists of valves ranging from DN 25 to DN 300, all with the same basic valve design and PE-pipe connection - and all building maximum security into your pipeline.**

Water and gas authorities demand optimum tightness in their pipelines. Since PE-pipes have proved to be a perfect alternative to traditional piping materials in this respect, PE-pipes are installed to a very large extent.

The AVK gate valve with PE-ends premounted on the valve by the unique AVK coupling system is therefore the natural choice of valves for welding into a PE-pipeline.

### Main features and benefits:

- Direct welding into PE-pipes by using socket fusion or butt welding gives fast, effective and secure assembly
- Boltless assembly which means no risk of corrosion
- Continuous compression of the PE-pipe in the coupling which gives continuous tightness and tensile resistance
- Full, straight bore. No pressure loss. Possibility of drilling under pressure
- The coupling has, as a minimum, the same strength as the pipe. This gives optimum security even in situations of high tensile or compressive stress
- Optimum corrosion protection and finish ensured by sealed coupling
- Flexibility when choosing pipe material thus connection into all types of PE-pipes possible



*Socket fusion welding is a fast and effective technique*



*Butt welding is a technique that has been used for several years for mounting PE-pipes*

## High-quality products with obvious benefits



*PE-pipes are mounted on the valve*



*Steel sleeves hold the pipe to the valve and makes it tensile resistant*



*A plastic sealing prevents corrosion*



*The coupling has, as minimum, the same strength as the pipe*

**The valve/pipe connection features a unique design ensuring a 100% tight sealing with a higher strength than the PE-pipe itself.**

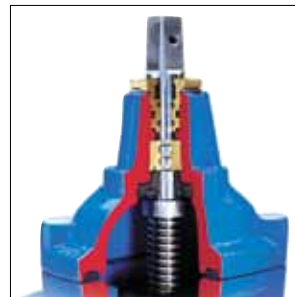
A piece of standard PE-pipe is pressed directly onto the grooved valve end. The patented grooving combined with a sleeve around the valve/pipe connection ensures that the PE-pipe material is pressed into the grooves on the valve end.

This patented system is tested and approved by DVGW and has proved to be superior compared to other systems on the market using O-ring seals or special prefabricated pipes.



### Many other benefits:

- Fully vulcanized wedge ensures optimum tightness and corrosion resistance
- Fixed, integrated wedge nut prevents damaging vibrations
- The guides in the wedge and valve body ensure low operating torques under all flow conditions
- The countersunk bonnet bolts are encircled by a bonnet gasket and sealed with hot melt to prevent corrosion
- The recessed bonnet gasket ensures optimum tightness
- The stainless steel stem with rolled thread and wedge stop ensures safe operation
- Three independant stems seals give triple safety
- The electrostatically applied epoxy coating ensures an optimum corrosion protection.
- Alternatively the valves are available with internal enamel or external PUR coating.



*Exchangeable stem sealing for water and gas applications*



*The excellent rubber vulcanisation ensures very low deformation, high impact resistance and low friction*



*Electrostatically applied epoxy coating to DIN 30677*



*For increased protection, valves can be coated with polyurethane (PUR) to DIN 30671*

## The range of valves with PE-ends for water supply and gas supply



Installation of a service connection valve with PE-ends

- Bonnet and body: Ductile iron to BS 2789 (DIN 1693)
- Coating: Electrostatically applied epoxy resin to DIN 30677  
- internally and externally
- Working pressure: Water: To PN 16  
Gas: To PN 4
- PE-pipes to BS 3284 (DIN 8074)



For water

### Gate valves with PE-ends

Series 36/80

DN 65-300, 75-315 mm

PN 6.3, 10, 12.5 or 16

### Gate valves - one PE-end, one end with flange

Series 38/80

DN 50-200, 63-225 mm

PN 6.3, 10, 12.5 or 16

### Service connection valves with PE-ends

Series 36/80

DN 25-50, 32-63 mm

PN 10



For gas

### Gate valves with PE-ends

Series 36/90

DN 80-300, 90-315 mm

PN 2.5 or 4

### Gate valves - one PE-end, one end with flange

Series 38/90

DN 50-200, 63-225 mm

PN 2.5 or 4

### Service connection valves with PE-ends

Series 36/90

DN 25-50, 32-63 mm

PN 4



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By using polyurethane coating the valves are resistant to aggressive soil. The foundation prevents the operating torque from being transferred from the valve to the pipe connections.