

AVK GATE VALVES WITH PE ENDS



**AVK GATE VALVES
WITH PE ENDS**
EASY INSTALLATION
HIGH DURABILITY





A FULLY WELDED PE PIPE SYSTEM

AVK's range of gate valves with PE pipe ends enables our customers to design a fully welded PE pipe system up to 630mm. A fully welded

PE pipe system offers the following benefits:

- Reduced risk of leakage
- Ease of installation
- High durability

Get the full advantage

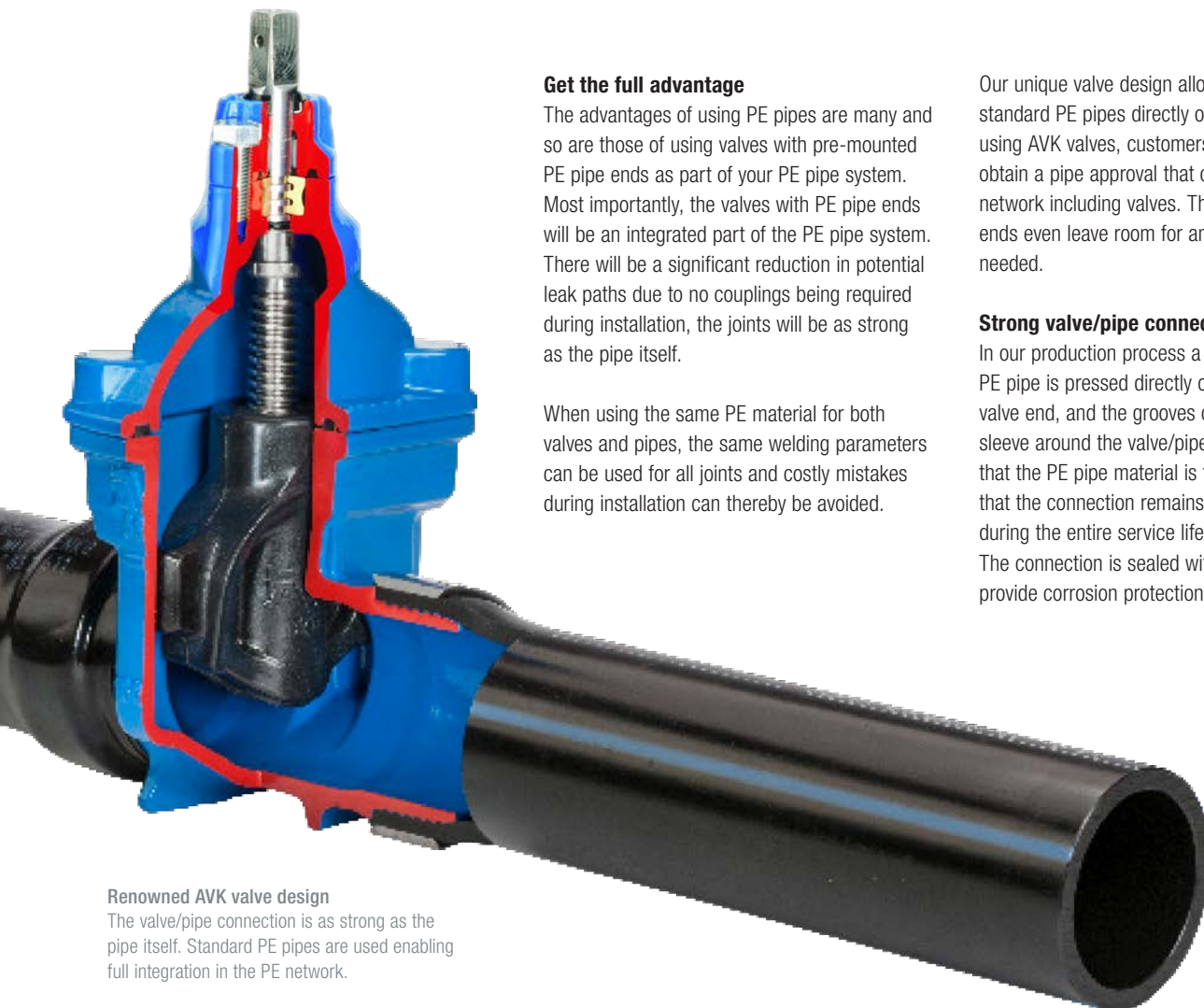
The advantages of using PE pipes are many and so are those of using valves with pre-mounted PE pipe ends as part of your PE pipe system. Most importantly, the valves with PE pipe ends will be an integrated part of the PE pipe system. There will be a significant reduction in potential leak paths due to no couplings being required during installation, the joints will be as strong as the pipe itself.

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 unique valve design allows the mounting of standard PE pipes directly onto the valve. When using AVK valves, customers 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

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



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.



AVK ...Assist



AVK Insight

Access product material
and track installation



AVK Toolbox

The toolbox brings you
technical know-how



AVK AR

Take a look inside our
products



About AVK

Get to know AVK, and
how we help you develop
solutions



SETTINGS

1.3

AVK ASSIST

ONE COMBINED SYSTEM FOR ALL ASSETS



AS A LEADING INNOVATOR AND SOLUTIONS PROVIDER **AVK** BRINGS YOU **AVK ASSIST** - TRACE, KEEP TRACK & STAY INFORMED ABOUT ALL YOUR ASSETS

By building relationships with our partners, through listening and responding to both their key strategies and to their daily operational challenges, we are able to develop solutions led products and services which help deliver and resolve.

AVK ASSIST is a free app, aimed at utility and industrial gas engineers, that helps specify, select and then record the installation quality and GPS location of the asset.

Using AVK ASSIST gives an extended product warranty, and can be integrated into existing customer systems without compromise to data safety and security. No data is held by AVK.

Network management and asset mapping are two key subjects highlighted in the majority of utility strategies as ongoing issues, the AVK ASSIST mobile app can make a major contribution on the journey to a resolution.

The AVK ASSIST app is available to download for free on the App Store and Google Play.

FULL TRACEABILITY IN A FEW SIMPLE STEPS...



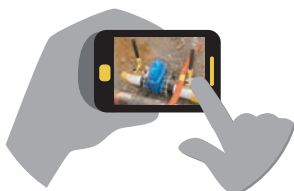
The QR code is generated when the valve successfully passes all the relevant test procedures. It assigns a unique serial number for the product which is linked to the full material and test records. When installed the data record becomes complete from raw material to accurate position and application.



SCAN THE QR CODE



SET LOCATION



TAKE THE INSTALLATION PICTURE



DOWNLOAD THE APP HERE



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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 as standard up to 630mm pipe OD and in several material configurations.



Connection	PE x PE
Pipe OD	SS stem
	Black/blue pipe
	SS stem
75	X
90	X
110	X
125	X
140	X
160	X
180	X
200	X
225	X
250	X
280	X
315	X
355	X
400	X
450	X
500	X
560	X
630	X



UP TO **20%**
TIME
SAVED
ON NEW AND EXISTING
PIPELINES

36/89



DN80-300
CTC / CTO

- 35% typical reduction in installation time.
- Full AVK design and UK manufacture, supported with holiday free internal coating, WRAS approvals, BS 5163 and WIMES 8.09 compliant.
- Maintenance in-situ on stem seals in line with British market requirements.
- Butt-fusion or electrofusion joint meaning the asset is fully integrated with the system.
- Double length of PE tails gives greater flexibility when jointing.
- Less component parts reducing potential leak paths.
- No bolts or gaskets required.
- Supplied as standard with SDR 17 PE pipe.

36/89



THAMES WATER - OPTIMISE

- Victorian main replacement, Camden, London
- Replacement of existing 4" cast iron main with 125mm OD PE
- Work was in a densely populated area and included new service connections and hydrants. The PE tailed gate valve allowed a smaller trench and reduced time within the trench due to less component parts leading to a much quicker installation.

Action	Time per joint	Total	Time saving	Traditional total
Pipe preparation	15 minutes	30 minutes	35%	86 minutes
EF coupling	3 minutes	6 minutes		
Cooling	10 minutes	20 minutes		
TOTAL TIME USING S36/89		56 minutes		

Northampton Office - Water

8 Rushmills
Northampton
NN4 7YB
England
T: +44 (0) 1604 601188
E: customerservice@avkuk.co.uk

