

**AVK** WATER SUPPLY



WE DELIVER  
PURE  
QUALITY  
JUST LIKE YOU

Expect... **AVR**

# A COMPLETE RANGE OF VALVES, HYDRANTS AND ACCESSORIES



AVK has been in the valve business for more than 40 years. Today, we are offering solutions for numerous applications including valves, hydrants and accessories for water supply.

The product package covers your needs within hydrants, gate valves and accessories, butterfly valves, swing check valves, air valves, service connection valves as well as tapping saddles, flange adaptors and couplings.

## Facilities of high standards

AVK is unique when it comes to high-quality products. We are second to none when it comes to rubber compounds. We have our own research, vulcanization and coating facilities that enable us to deliver durable products.







### Global leadership and local commitment

AVK is a global leader within valves, hydrants, fittings and accessories for water supply, gas supply, wastewater treatment and fire protection and has a strong presence around the world. We offer the local customer access to our global selection of products, standards and expertise.

Our geographical presence and product range are global, but our focus is local. Our customers are serviced by local sales organisations who engage in the customers' needs. AVK is therefore able to offer tailor-made solutions that match local specifications.

The AVK Group is present in more than 85 countries worldwide. Sales and distribution are handled by AVK sales companies, agents and distributors.

### A beneficial partnership

We want to build and invest in long-term partnerships with our customers. For us, long-term partnerships not only imply transactions. They are also an opportunity to develop solutions based on valuable input and to innovate for the benefit of our customers.

To earn our role as a long-term partner, we strive to deliver value for money. We deliver flawless, durable and maintenance-free products that constitute the most cost-efficient solution for our partners in the long run.



# AVK GATE VALVES RENOWNED FOR SUPERIOR QUALITY



The wedge is the heart of a gate valve and the quality of the wedge rubber is crucial for the valve function and durability. AVK wedges are fully vulcanized with AVK's rubber compound offering outstanding characteristics.

The double bonding vulcanization process ensures maximum adhesion of the rubber and prevents creeping corrosion.

## **Fixed wedge nut prevents corrosion**

AVK's wedge nut design with a fixed, integral wedge nut outperforms the traditional loose wedge nut design as it prevents vibration and thus also corrosion, malfunction and water hammer.

## **Wedge shoes for smooth operation**

The fixed wedge nut and the guide rails fitted with vulcanized wedge shoes secure a smooth operation of the valve and low operating torques. The wedge shoes protect the rubber against the wear which otherwise would arise from friction during operation.

## **State-of-the-art rubber technology**

AVK GUMMI A/S develops and manufactures the rubber compound for wedges and gaskets using highly advanced technologies.

Data is collected throughout the entire manufacturing process which secures traceability of every single ingredient, compound and final component. AVK performs a number of tests to ensure that the compression set values, the adhesion and the tensile strength of the rubber meet the predefined requirements.

## **Safe operation**

The large plain and conical stem hole prevents stagnant water and accumulation of impurities.

The large rubber volume in the sealing area combined with the excellent compression set provide optimum sealing.







### Efficient bonding is the key to durability

The wedge core is immersed in two different baths to provide ultimate bonding between core and rubber. Even if a sharp object penetrates the rubber during closing of the valve, the bonding is so strong that there is no risk of creeping corrosion. As a result, we offer the best possible corrosion protection of the wedge.

### No contamination of drinking water

The EPDM rubber recipes are composed with focus on minimising the formation of biofilm. The rubber will therefore not provide breeding ground for bacteria.

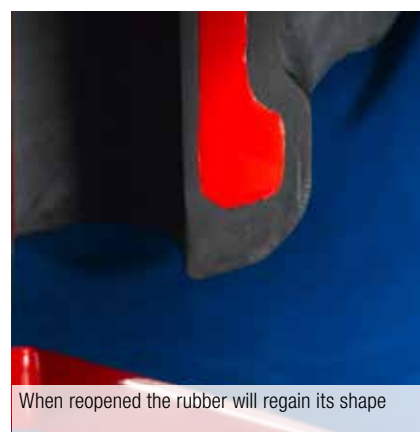
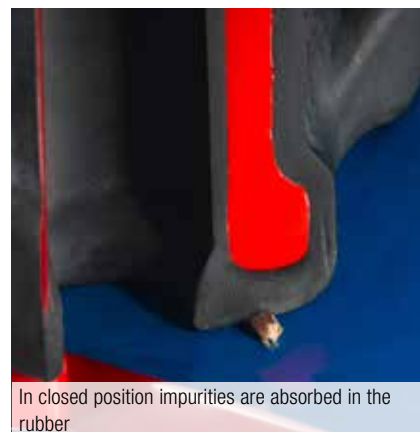
### High resistance

The drinking water approved EPDM compounds are resistant to ozone and water treatment chemicals, and are of course taste, smell and colour neutral.

### Excellent ability to regain original shape

AVK GUMMI A/S has a profound knowledge of a rubber's compression set, meaning its ability to regain original shape.

Even after many years of service where the wedge rubber has been compressed numerous times, the rubber will regain its original shape and ensure a tight sealing. Impurities will not affect the tightness of the valve, as the impurities will be absorbed in the rubber when the valve is in closed position and will be flushed away when the valve is reopened.



# AVK GATE VALVES OFFER UNIQUE FEATURES

## Wedge stop and rolled threads

The wedge stop provides a firm stop against the wedge nut when opening the valve. This prevents the wedge from compressing the stem seals and from damaging the coating inside the bonnet. Therefore, the wedge stop gives prolonged durability of the valve.

The stem threads are rolled in a cold pressing process which maintains the steel structure and therefore increases the strength of the stem. This method also ensures a smooth thread surface that gives low operating torques.

## Triple safety stem sealing

An NBR wiper ring protects against impurities from the outside. Tightness and low friction are provided by four NBR O-rings in a polyamide bearing. An EPDM manchette is the main seal to the flow.

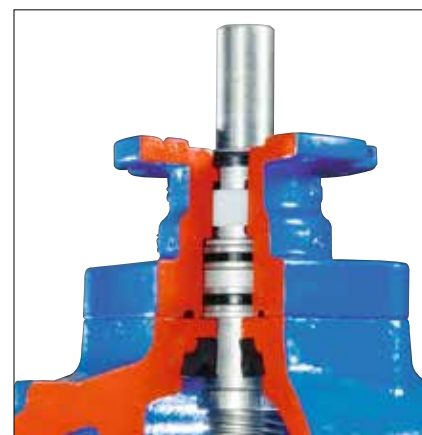
The full circle thrust collar of dezincification resistant brass provides fixation of the stem and low free running torques.

In DN 450-800 the valves are designed with two roller bearings and a thrust collar of stainless steel to ensure low operating torques.

## Two strong coatings

The standard corrosion protection is an internal and external epoxy coating according to DIN 30677-2 and GSK guidelines. Furthermore, we offer gate valves with a highly wear-resistant internal enamel lining offering excellent protection against creeping corrosion.

We control each batch of epoxy coated components to ensure a layer thickness of minimum 250  $\mu$ , a pore-free surface, high impact resistance and adequate curing. In addition to our own tests, the independent GSK authorities control the adhesion and cathodic disbonding of the epoxy coating six times a year.







### Tight assembly of valve body and bonnet

An EPDM bonnet gasket fits into a recess between the valve body and the bonnet. The stainless steel bonnet bolts are encircled by the bonnet gasket, embedded in the casting to ensure that no threads are exposed to the surroundings, and finally sealed with hot melt to prevent corrosion.

### Strong PE end connection

The DVGW approved class 1 connection is stronger than the PE pipe itself. A piece of standard PE pipe is pressed directly onto the grooved valve end. 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. The full and straight bore ensures minimum pressure loss and makes underpressure drilling possible.

### Pressure test

Every single valve is pressure tested according to EN 1074-1 and 2 / EN 12266 before leaving the factory.

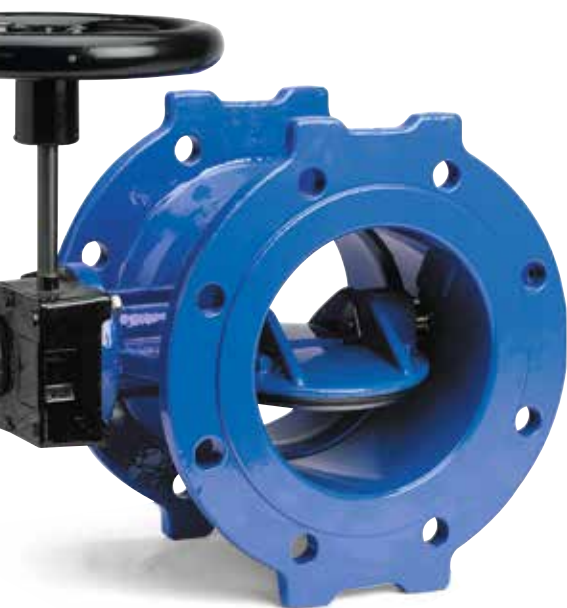


### Feature summary

- Fixed, integral wedge nut prevents vibration
- Guide rails with wedge shoes ensure smooth 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 a high resistance to water treatment chemicals
- Large, conical stem hole in the wedge prevents stagnant water
- Rolled threads increase the stem's strength
- Wedge stop protects seals and coating
- Triple safety stem sealing
- Thrust collar provides fixation of the stem and low free running torques
- The bonnet gasket is fixed in a recess in the bonnet and encircles the 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
- Epoxy coating according to DIN 30677-2 and GSK guidelines, optionally internal enamel

# AVK DOUBLE ECCENTRIC BUTTERFLY VALVES

## THE SAFE CHOICE



AVK offers double eccentric butterfly valves in DN 200-2800 designed with durability in focus. The tilted and firmly secured disc, the optimised seal design and the corrosion protected shaft end zones are features that exceed the market standards.

### **Tilted and secured disc**

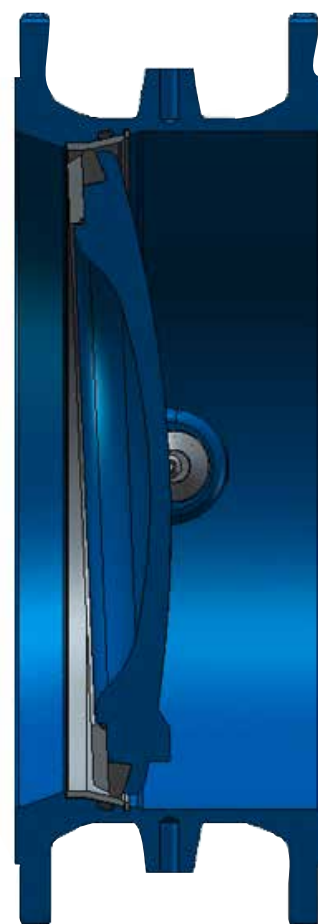
The tension on the disc is released after a few degrees of opening which gives only insignificant wear of the disc seal. Furthermore, the design minimises the compression of the sealing which ensures low operating torques.

The disc and shaft are connected by means of a key and a keyway. Furthermore, the key is secured with two set screws to prevent wear of the keyway and thus to avoid fluttering caused by flow velocity and play in the key and keyway connection.

In larger dimensions the disc is fixated with two stainless steel drive dowels, with key and keyway as back-up. The dowels are mounted with press fit leaving no play between disc and shaft.

### **Two disc designs**

Two different disc designs – plate design and flow-through design – are available to meet market requirements worldwide. The flow-through design is less sensitive to cavitation at high flow velocities. This design is available for DN 700-1200 butterfly valves.







### Two seat designs

AVK offers double eccentric butterfly valves with two different seat designs.

The integral seat design has a machined and epoxy coated ductile iron seat integrated in the body.

The stainless steel seat design has a replaceable seat ring of stainless steel sealed with an O-ring. For DN 200-600 valves the ring is pressed into the body, and for larger dimensions the ring is fixed with bolts sealed with epoxy.

### Disc seal optimised for high performance

The disc seal is shaped to secure fixation in correct position providing a very reliable function. The excellent rubber quality makes it possible to reduce the amount of rubber which ensures low closing torques. The EPDM sealing is approved by DVGW, KIWA and WRAS.

The stainless steel retainer ring keeps the disc seal in place. It is fixed by stainless steel bolts coated with precoat 80 to prevent loosening. The threaded bolt holes in the disc are corrosion protected with O-rings around the bolt heads.



# AVK BUTTERFLY VALVES FEATURE PROTECTED SHAFT ENDS



## **Protected shaft ends secure durability**

There are no uncoated ductile iron surfaces exposed to the media. In DN 200-600 the shaft ends are protected with stainless steel plates with gaskets. After mounting and successful pressure test, an extra layer of epoxy coating seals the steel plates. In larger dimensions the shaft ends are fully encapsulated in the disc and fixed to the disc with dowels. The low friction PTFE shaft bearings ensure low operating torques for the complete range.

## **Design of DN 700-2800**

The shaft ends are fully encapsulated in the disc and are fixed with dowels. There are two O-rings on each dowel, which are protected with a stainless steel plate fixed with stainless steel bolts.





### Replaceable shaft sealing

The shaft sealing is replaceable under pressure to enable easy maintenance. Sealings of EPDM secure tightness from inside and out, and NBR sealings protect against impurities from outside. The butterfly valves are fitted with a locking device which makes it possible to lock the disc in open/closed position.

### Bi-directional and slim design

The valves are bi-directional even though valves from DN 700 and up are marked with an arrow indicating the preferred flow direction.

In addition to all the design features and benefits, AVK has minimised the weight to make handling easier and to put less strain on the environment.

### Actuation of your choice

AVK can offer any type of actuation. Our standard options are IP67 gearboxes with handwheel for above ground installation, IP68 gearboxes for buried service, and ISO-input gearboxes for mounting of electrical actuators. Furthermore, we offer extension stems, adaptors and handwheels.

### Product approvals

The butterfly valves are approved by:

- DVGW in DN 200-1200
- KIWA in DN 200-600
- WRAS in DN 700-1200

For larger dimensions all components are approved.

**Pressure test of every single valve**  
The hydraulic test is always done from both directions according to EN 1074-1 and 2 / EN 12266.



# AVK CENTRIC BUTTERFLY VALVES FIXED OR LOOSE LINER



AVK offers the widest range of butterfly valves at the market. The fixed liner butterfly valves from AVK are among the very few of its kind and offer outstanding advantages. Furthermore, we offer a wide range of loose liner butterfly valves.

## No turbulence or pressure drops

The streamlined disc gives low flow resistance when the valve is open. Therefore, the valves will not cause any turbulence, pressure drops or valve vibration, and will reduce energy costs for the user.

## Unique fixed liner design

An outstanding seating concept is the heart of the valve. The rubber is injection moulded directly on the valve body forming a permanent bond with an optimal rubber shore hardness. Consequently, there is no risk of deformation or dislocation of the liner and the valves are therefore suitable even under vacuum conditions.

The disc has a profiled sealing edge which requires minimal deformation of the liner to achieve a tight sealing. This gives less wear of the liner and low operating torques.

## Feature summary

- Fixed liner with no risk of deformation or dislocation, thus suitable under vacuum conditions
- AVK rubber liner with excellent ability to regain shape after compression
- Disc with profiled sealing edge gives less wear of liner
- Low operating torques due to fixed liner, profiled disc and shaft bearings
- Streamlined disc prevents turbulence, pressure drops and valve vibration
- Available as wafer, semilug, full lug, double flanged short and double flanged long in DN 40-2000 with any type of actuation

## Profiled disc and unique AVK rubber ensure exceptional durability

The unique AVK rubber compound has an excellent ability to regain shape after compression, and this ability combined with the profiled disc secure tightness even after thousands of operation cycles.







### Wide range with loose liner

AVK's range of loose liner butterfly valves comprises wafer, lug and U-section butterfly valves in DN 25-1600 with any type of actuation and with a wide selection of disc and liner materials.

A strict control of the coating process and of the tolerances ensures a durable corrosion protection under the liner. Furthermore, it ensures that the liner fits perfectly on the body. This gives low operating torques, and there will be no risk of damaging the coating when compressing the liner.

### Feature summary

- Fully coated body with extended neck for insulation
- Square driven anti-blowout shaft in one-piece design up to DN 400, and from DN 450 with key and keyway in two-piece stub design with two self-lubricating bearings
- Disc of acid-resistant stainless steel with machined and polished edges reducing the friction between liner and disc
- EPDM liner for drinking water (70°C) with integrated gasket faces and "saw profile" for optimum grip in the body



# AVK SWING CHECK VALVES ENSURE OPTIMUM PUMP PERFORMANCE



## Unique design

By unscrewing a few bolts the bonnet assembly including hinge and disc can be removed from the body. The hinge is tightened around the shaft with bolts to eliminate play and thus ensure durability.



A guard covering the lever and weight eliminates the risk of injuries. Optionally with limit switches for remote monitoring.

Swing check valves with lever and external spring are suitable for high pressure, insufficient back pressure and high flow velocities.

AVK offers a wide range of swing check valves featuring full bore and low head loss resulting in maximum utilisation of the pump capacity. The swing check valves can be installed in both horizontal and vertical positions and are easy to maintain.

## Swing check valves

AVK swing check valves are available in DN 50-600 and feature full bore and low head loss as well as easy access to maintenance and great durability.

## Lever and weight appropriate

Swing check valves with lever and weight are appropriate for installations with an increased risk of water hammer at standard velocities.

The solution enables visual check and valves in small dimensions offer the possibility of priming by moving the lever manually. The weight is adjustable on the lever to achieve a soft closing against the seat as well as an optimum closing speed to prevent water hammer.

## Feature summary

- Bonnet/disc design gives easy access to maintenance
- Disc with steel insert is fully vulcanized with EPDM rubber (up to DN 300) ensuring optimum sealing ability
- Lip sealing on the disc ensures tightness
- Light-weight disc requires a minimum of force to open and close the valve
- The disc is mounted in a nylon bushing, which allows it to move slightly both horizontally and vertically to close completely tight also in case of minor impurities in the seat
- Hinge tightened around the shaft with bolts to eliminate play and thus ensure durability
- Full bore ensures low head loss
- Ductile iron epoxy coated to DIN 30677-2







# AVK AIR VALVES FOR EFFECTIVE PIPELINE OPERATION



Top performance, minimum maintenance and high durability are the characteristics of AVK's wide range of automatic air valves, air and vacuum valves and combination air valves. The air valves are available in composite materials, which combine strength with extremely light weight and increased venting efficiency.

## **Why use air valves?**

Trapped air pockets in the piping system cause many problems:

- Increased corrosion
- Increased energy consumption and operation costs
- Failure or inaccuracies in flow metering
- Pressure loss or even complete flow stop delays in the filling of mains
- Increased risk of water hammer

Sudden movements of air pockets may result in a rapid change in flow velocity, leading to high pressure surges of a destructive nature.

## **Automatic air valves**

AVK automatic air valves series 701 are designed with a very soft and sensitive seal. It enables effective discharge of accumulated air from the system while under pressure. The automatic air release valve are lightweight and compact with a 12 mm<sup>2</sup> orifice enabling release of air at high flow rates not being exposed to obstruction by debris. All operating parts are made of specially selected corrosion-resistant materials.

## **Air and vacuum valves**

AVK air and vacuum valves are designed to discharge air during the filling of the system, and to admit air into the system during system drainage. The dynamic design allows for high velocity air discharge while preventing early closure. The special orifice seat design with a combination of bronze and EPDM rubber ensures long-term maintenance-free operation.







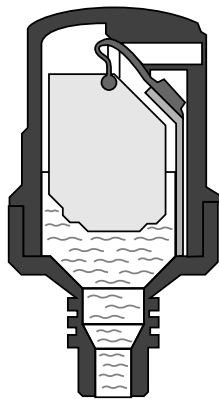
### Combination air valves

AVK combination air valves combine the function of automatic air release valves and air and vacuum valves. The automatic air release function releases accumulated air from the system while it is under pressure. The air and vacuum function discharges and admits large volumes of air during the filling or draining of pipelines.

The combination air valves are available in four main types:

- A special design in reinforced nylon (701/40)
- A design combining an automatic air valve with the air and vacuum valve (701/50 and 701/60)
- An underground air valve (701/84)
- A special design in ductile iron (851/20)

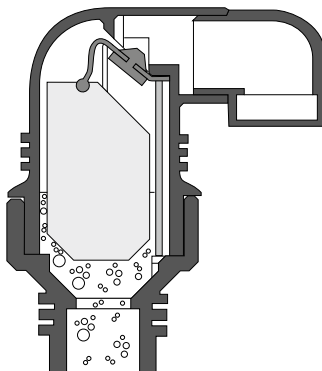
The underground air valve unit is designed to save manhole costs. It is suitable for frost protection and for installation under important crossings like roads and buildings where manholes would cause dangerous undermining of the ground.



### Automatic air valve

For discharge of air liberated from fluid in water mains under pressure

- When air bubbles appear in the valve, the float will drop, allowing air to be released
- When the water rises again, the float will be lifted, and the valve will close



### Combination air valve

It combines the function of an automatic air valve with the following:

- When emptying the pipeline, the float will drop completely, allowing large volume air intake through the large orifice
- When refilling the pipeline the water flow will force the air out through the large orifice

# AVK SERVICE CONNECTION VALVES OF DUCTILE IRON, BRASS AND POM



AVK service connection valves are long lasting and maintenance-free. The superior stem and wedge design secure low operating torques as well as a smooth operation of the valve.

## Special wedge design

The wedge core is made of dezincification resistant brass vulcanized with drinking water approved EPDM rubber externally. The wedge is shaped with wedge guides, and a patented rubber profile ensures low closing torques.

The wedge rubber and vulcanization is made at AVK GUMMI A/S with the same features and benefits as for main-line gate valves.

## POM valves

The bonnet, body and joints of POM (polyoxymethylene) are friction welded ensuring optimum strength. A built-in friction collar prevents overtorque of the valve.

## Brass valves

The valves of hot forged dezincification resistant brass are designed with a boltless connection between the body and bonnet. An NBR O-ring is countersunk and compressed when the valve bonnet is screwed onto the body thus ensuring a tight valve.

## Ductile iron valves

The design of our ductile iron service connection valves is the same as for the main-line gate valves except for the wedge design. The valves are as standard with internal and external epoxy coating according to DIN 30677-2 and GSK guidelines.

## Summary of common features

- Wedge shaped with wedge guides ensures smooth 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 a high resistance to water treatment chemicals
- Rolled threads increase the stem's strength
- Thrust collar provides fixation of the stem and low free running torques
- Full bore ensures low head loss
- Low operating torques ensure easy operation

See separate brochure "AVK service connection system" for further details.





#### **Ductile valves in ten variants**

AVK offers a comprehensive range of service connection valves of ductile iron. With internal threads, push-in socket ends, screw couplings and PRK couplings as well as combinations with external thread.



#### **Brass valves in four variants**

Our service connection valves of hot forged dezincification resistant brass are available with tensile brass screw couplings or PRK couplings and with AVK or T-type bonnet – all in DN 25-50 for 32-63 mm PE pipes.



#### **POM valves in eight variants**

Our service connection valves of POM are available with PRK couplings, tensile socket joints and PE ends as well as combinations with external thread. In addition there are options with T-type bonnet.



#### **Wide range of tapping saddles**

AVK offers a wide range of tapping saddles. A range that comprises tapping saddles for PE, PVC, ductile iron, cast iron, asbestos cement and steel pipes.

AVK tapping saddles offer easy and fast installation and reliable function and they are maintenance-free and designed to last.

See separate brochure "AVK service connection system" for further details.

# AVK SUPA LOCK™

## THREADLESS CONNECTION SYSTEM



Connecting valves and fittings with a threaded connection can be time-consuming and often, it leaves part of the thread exposed to the medium and the external environment. Over time this will cause corrosion of the uncoated thread and may even result in a leakage. Supa Lock™ solves this problem.

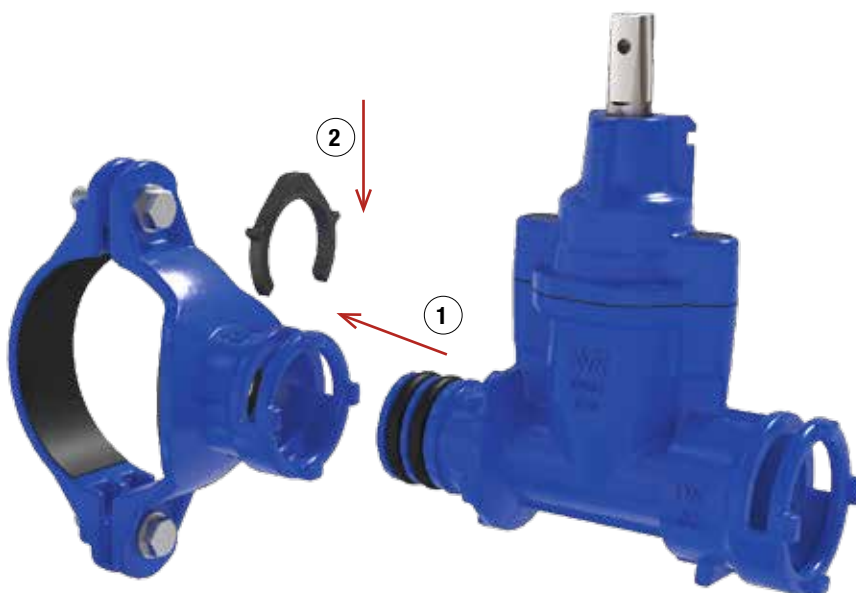
### Full corrosion protection

The patented Supa Lock™ system, provides a 100% corrosion free joint combined with fast and easy assembly with maximum flexibility. Thanks to its simple and ingenious design, Supa Lock™ offers long-term safety with optimum protection against corrosion and leaks and also protection against accidental disassembly of the joint when the pipeline is pressurized.

### Valves, tapping saddles and fittings

The wide Supa Lock™ range consists of valves, tapping saddles and fittings in ductile iron with a heavy duty epoxy coating complying with the strict GSK requirements. Furthermore, ball valves and fittings in dezincification resistant brass complying with the EU directive for material used in drinking water installations are part of the range.

**Easy two-step assembly**  
After having lubricated the O-rings, the Supa Lock™ spigot end is pushed into the Supa Lock™ socket end, and the safety retainer is clicked on – and the assembly is done!







### Self-locking safety retainer

Supa Lock™ is designed as a tensile joint and withstands pressures up to PN 16 x 1.5. The safety retainer is designed with an edge (1), which makes it self-locking whenever there is pressure in the pipeline. Therefore, no accidental disassembly can take place. The safety retainer has two finger knobs (2) for easy assembly and disassembly.



### No rotation of valves and connectors

Free rotation is restricted for the valves and the threaded connectors used for drilling machines to enable effective drilling. Small cast notches placed on the outer rim of the socket end and on the inner rim of the spigot end interlock and prevent rotation.



### Corrosion-free access point

For flanged connections in DN 80-400, the wafer type spacer with Supa Lock™ socket connections offers a corrosion protected access point to the pipe. It can replace a tapping and in that way avoid weakening of the pipe.



### 360° rotation of fittings

The design allows for a 360° rotation of the fittings, which is a unique feature only offered by the Supa Lock™ system. The free rotation of the joint allows the installer to direct the service pipe outlet in any direction from the main pipe, thus avoiding collision with other pipes or obstacles in the trench.



### Heavy duty O-rings provide extra safety

All Supa Lock™ joints are fitted with heavy duty Ø 7 mm O-rings. They provide extra safety when taking into account that a minor permanent deformation of the O-rings is to be expected over the lifetime of the product. Also, when the joint is exposed to bending as a result of ground movements, the large O-rings provide maximum safety.

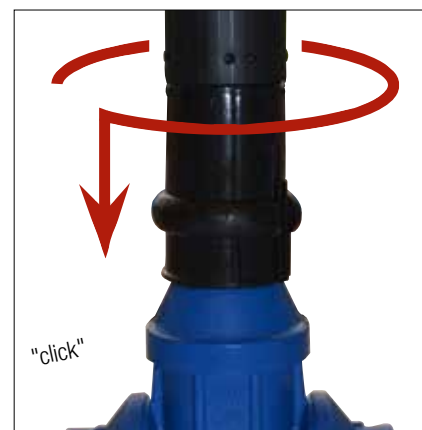


# AVK EXTENSION SPINDLES IN A USER FRIENDLY DESIGN



Extension spindles are used for easy access to operation of valves installed below ground. AVK extension spindles are produced on fully automated state-of-the-art production equipment to ensure a uniform quality.

The extension spindles are made of corrosion resistant materials and random samples are torque tested with up to 450 Nm to ensure long service life. The inner tube is press fit to the top spanner and the bottom adaptor to safeguard the galvanization of the tube. The bottom cover protects the valve spindle from impurities and enables it to rotate freely.





#### Telescopic and fixed length

- Fixed length version offers the market's easiest shortening of length
- Telescopic version enables height adjustment after installation
- Patented AVK "Safe Click" provides a fast and safe mounting on service connection valves

#### Fixed length design features easy shortening

Fixed length extension spindles are used when the distance between the valve and the ground surface is known so that adjustment of the length after installation is required to a limited extent or not at all.

The patented AVK design facilitates fast and easy shortening of the extension spindle. The complete adjustment of the length can be done merely by use of a hacksaw.

The extension spindles are available with a pipe cover of 800-1000-1500-2000-3000 mm.

#### Telescopic design facilitates on-site adjustments

Telescopic extension spindles are used when the distance between the valve and the ground surface is unknown and when an adjustment of the extension spindle is required after installation.

The top adaptor is designed with a defrosting hole and with ears that can be fixed into AVK surface boxes and support tiles. A lock spring prevents the telescopic part from collapsing during installation, as it creates friction inside the inner tube. The blue center sleeve protects against penetration of impurities between the two outer PE pipes.



Expanding bolt design facilitates easy height adjustment on fixed length extension spindles.



The top spanner and the inner tube are press fit on telescopic extension spindles.



# AVK SURFACE BOXES A FULL RANGE

AVK offers a very comprehensive range of surface boxes in various material combinations: synthetic body with synthetic lids, synthetic body with cast iron lids, synthetic body with ductile iron surface plate/lid as well as cast iron body and lid.



## **Cast iron surface boxes**

The ductile iron surface boxes are available in a floating design and a fixed/floating reversible design. The reversible surface box allows for deflection and internal fixation of telescopic extension spindles from both ends.

The fixed surface boxes of grey cast iron are height adjustable using ductile iron distance rings of a height of 10-50 mm.

## **Floating surface boxes with great flexibility**

The internal fixation of telescopic extension spindles enables height adjustment after installation. The deflection ability secures optimal fit on sloped surfaces.

The large chamber provides easy access for mounting and demounting of the extension spindle, and the closed design protects the extension spindle against impurities.

- Square or round surface plate
- Body of polyamide PA-6 or ductile iron
- Surface plate and lid of ductile iron with black primer or blue epoxy coating.





### Our Classic range – fixed or height adjustable synthetic surface boxes

Classic surface boxes are DVGW approved and withstand traffic loads according to DIN 1072.

- Fixed height, round or square, with cast iron or synthetic lid
- Height adjustable, round, cast iron lid, optionally with reinforced rim
- Optionally lockable or with locking clip on bolt for installation in places with fast heavy traffic.

It is very easy to install a height adjustable surface box. The 5° angle adjustment enables adaptation to the slope of the road, and the positioning of the top part is flexible by means of the O-ring. With a height adjustable surface box there will be no expensive corrections after installation.

### Our Futura range – fixed height synthetic surface boxes

Futura surface boxes feature a slim design with fixed height and a locking clip on the bolt to prevent the lid from being lifted off unintentionally.

- Round or square
- Optionally lockable by a special key
- Black cast iron lid, black synthetic lid or blue synthetic lid.

The synthetic lids are 100 % corrosion-resistant and will look nice even after years of use.

### Support tiles for Classic and Futura surface boxes

A support tile increases the support surface in weak soils, secures center location of the extension spindle and prevents telescopic extension spindles from being pushed back.



# AVK COUPLINGS AND FLANGE ADAPTORS DEDICATED OR UNIVERSAL



## AVK combi-flange system

The range comprises tensile combi-flanges for PE/PVC and ductile iron pipes in DN 50-300, non-tensile for PVC and ductile iron pipes in DN 50-600, and non-tensile for steel pipes in DN 50-300.

- The design features a flexible positioning and chamfering of the pipe
- Up to  $\pm 3.5^\circ$  deflection of the pipe is possible even in tensile executions
- The pipe will not move inwards during installation which secures a tight connection
- The EPDM rubber sealings are approved for drinking water applications
- Coated according to DIN 30677-2





Supa Maxi™ before tightening



Supa Maxi™ after tightening

### Supa Maxi™ universal tensile couplings and flange adaptors

Supa Maxi™ is the latest addition to AVK's range of Supa® couplings. It comprises a complete range of large tolerance universal tensile couplings according to EN 14525 with straight couplings, flange adaptors and end caps in DN 50-400, step couplings and transition couplings in DN 50-300, and gate valves in DN 80-300.

The Supa Maxi™ range sets a new standard with its unique features:

- Fully universal and tensile on all pipe materials
- Patented SupaGrip™ sealing support system with flexible bracket
- PN 16 in all dimensions for water and wastewater (WP -0,9 to 16 bar)
- $\pm 4^\circ$  ( $8^\circ$ ) angular deflection on each side
- Permanent protection caps protect during handling and installation
- No re-tightening of bolts
- Lifting eye on DN 100-400
- Epoxy coating to DIN 30677-2, GSK approved
- Gasket of EPDM approved for drinking water
- Temperature range  $-20^\circ\text{C}$  to  $+70^\circ\text{C}$



### Four additional types complete the range

- Universal non-tensile Supa® straight couplings, step couplings and flange adaptors in DN 40-400
- Dedicated tensile Supa Plus™ straight couplings, flange adaptors, end caps and gate valves for PE and uPVC pipes in DN 40-300
- Fabricated non-tensile straight couplings, step couplings and flange adaptors dedicated for cast iron, ductile iron, steel/uPVC and AC pipes in DN 350-1200
- Fabricated dismantling joints for all pipe materials in DN 50-2200

See separate brochure "AVK couplings and adaptors" for further details.





# AVK FIRE HYDRANTS ABOVE AND UNDERGROUND GROUND



AVK offers a wide range of fire hydrants for above and underground installation and in a wealth of variants to meet our customers' needs.

## **Series 84 Multi hydrant**

The Multi hydrant is a modern, slim lined hydrant featuring our standard series 84 below ground barrel with all the components known from our existing range. The upper barrel is made of stainless steel for a modern look, and the hydrant head of ductile iron is epoxy coated and has an extra layer of UV resistant polyester coating. The head can be machined for several outlet configurations according to customer specifications such as 2 x Storz B or C, 3rd Storz B or C and an optional Storz A on DN 100. The Multi hydrant is available with or without traffic break-away design and with single shut-off or double shut-off.

when the hydrant is shut-off, allowing the water inside the barrel to be drained. The epoxy coating and an additional topcoat of UV-resistant polyester give a high durability and a strong corrosion protection.

## **Series 09 above ground hydrants**

Our series 09 hydrants are 360 degrees rotatable and height adjustable for easy installation. In case of traffic knock down the PE pipe, connecting the upper barrel with the foot bend, will just bend and not break. The hydrants are available of aluminium or ductile iron with manual or automatic drainage, and as top operated or gate valve operated. The automatic drainage hydrant is made in a flush-proof design by means of a membrane drainage valve designed to close when the hydrant is under pressure, and open





### Series 84 above ground hydrants

Our series 84 hydrants are designed with a double shut-off system for safe sealing of the hydrant during maintenance. The flanges connecting the upper and the lower barrel are assembled with special titanium bushes which are the only spare parts to be replaced in case of an accidental traffic knock down.

The upper part is available in a nostalgic design, a modern stainless steel design and in an execution with a lockable cover protecting against unauthorized operation. The lower part is designed with a PUR vulcanised ductile iron disc and vertical seal like the series 35 hydrants.

Series 84 hydrants are as standard with automatic drainage, and optionally with manual drainage. Back-flow protection can be fitted to protect against contamination of the water through the hydrant. The internal enamel and the external GSK approved epoxy coating with an additional topcoat of UV-resistant polyester give a high durability and a strong corrosion protection.



### Series 29 underground hydrants

Our series 29/40 hydrants are based on AVK's renowned gate valve design with fully vulcanized wedge, fixed wedge nut and triple safety stem sealing. It is available with bayonet, Storz or NOR coupling.

Our series 29/50 variant is designed with a riser pipe of stainless steel and an AVK extension spindle.

### Free flow hydrant

The series 29/78 hydrant is designed without any parts obstructing the medium. The free flow gives a greatly enhanced flow-rate, it makes the hydrants insensitive to hard particles in the water, and offers easy insertion and retrieval of pipe inspection and maintenance equipment..

### Series 35 underground hydrants

Our series 35 hydrants seal vertically which gives a low closing torque and makes them easy to operate. The PUR vulcanised plug features a great compression set which ensures that the PUR will regain its shape after having been compressed. The automatic drainage ensures fully emptying of the hydrant after use. Series 35 is available with single shut-off or with double shut-off for easy maintenance, and optionally with internal enamel coating for extra corrosion protection.



# FLANGED GATE VALVES



**Series 02/20**  
Flanged gate valve  
Face-to-face BS  
DN 50-400  
PN 10 /16  
Ductile iron



**Series 02/60**  
Flanged gate valve  
Face-to-face DIN F5  
DN 40-500  
PN 10/16  
Ductile iron

Options:  
• internal enamel  
• PN 25



**Series 02/75**  
Flanged gate valve  
Face-to-face DIN F5  
Replaceable stem sealing  
DN 40-500  
PN 10/16  
Ductile iron

Options:  
• PN 25



**Series 50**  
Flanged gate valve  
Face-to-face GOST  
DN 80  
PN 10/16  
Ductile iron



**Series 55/30**  
Flanged gate valve  
DN 450-500-600-800  
Face-to-face DIN F5  
PN 10/16  
Ductile iron  
Resilient seated  
Replaceable stem sealing

Options:  
• DN 80 By-pass



**Series 54**  
Flanged gate valve  
DN 700-800-900  
Face-to-face BS  
PN 10/16  
Ductile iron  
Metal seated

Options:  
• DN 80 By-pass



**Series 06/30**  
Flanged gate valve  
Face-to-face DIN F4  
DN 40-400  
PN 10/16  
Ductile iron

Options:  
• internal enamel



**Series 06**  
Flanged gate valve  
Face-to-face DIN F4  
DN 450-800  
PN 10/16  
Ductile iron  
Resilient seated

Options:  
• DN 50 By-pass



**Series 06/75**  
Flanged gate valve  
Face-to-face DIN F4  
Replaceable stem sealing  
DN 50-400  
PN 10/16  
Ductile iron



**Series 15/42**  
Flanged gate valve  
with ISO top flange for  
actuator  
Face-to-face DIN F4  
DN 40-400  
PN 10/16  
Ductile iron

Options:  
• face-to-face DIN F5



**Series 06/35**  
Flanged gate valve  
with pin indicator  
Face-to-face DIN F4  
DN 50-400  
PN 10/16  
Ductile iron

Options:  
• face-to-face DIN F5



**Series 18/40**  
Flanged combi-T  
DN 80/80 – DN 100/200  
PN 10/16  
Ductile iron



# COMBI-CROSS, GATE VALVES WITH PE, SPIGOT, COUPLING AND SOCKET ENDS



## Series 18/70

Combi-cross  
with 4 outlets  
DN 100-400  
PN 10/16  
Ductile iron  
With ball valves and  
DN 100 center outlet

Options:

- with blind flange on center outlet



## Series 18/80

Combi-cross  
with 3 outlets  
DN 100-400  
PN 10/16  
Ductile iron  
With with blind flange  
on center outlet

Options:

- with ball valves and  
DN 100 center outlet

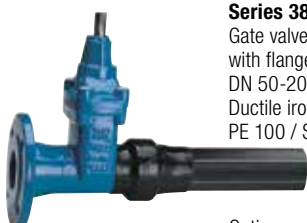


## Series 36/80

Gate valve with PE ends  
DN 65-400  
Ductile iron  
PE 100 / SDR 11

Options:

- PE 100 / SDR 17



## Series 38/80

Gate valve  
with flange/PE end  
DN 50-200  
Ductile iron  
PE 100 / SDR 11

Options:

- PE 100 / SDR 17



## Series 12/51

Gate valve  
with flange/spigot end for  
cast iron pipes  
DN 50-300  
PN 10/16



## Series 32/40

Gate valve  
with long spigot ends  
for cast iron pipes  
DN 80-300  
PN 16  
Ductile iron

Options:

- short spigot end
- for AC pipes



## Series 06/38

Gate valve  
with grooved ends  
DN 50-300  
PN 16  
Ductile iron



## Series 636

Supa Maxi™ gate valve  
Universal and tensile for  
all pipes  
Ductile iron  
DN 80-300  
PN 16



## Series 01/70

Supa Plus™ gate valve  
With tensile coupling ends  
for PE and uPVC pipes  
DN 40-300  
PN 16  
Ductile iron



## Series 01/80

Gate valve  
with "Euro" socket ends  
for uPVC-pipes  
DN 40-400  
PN 16  
Ductile iron



## Series 33/00

Gate valve  
with socket ends for cast  
iron pipes  
DN 80-300  
PN 16  
Ductile iron  
With internal enamel



## Series 33/50

Gate valve  
with BLS® socket end /  
BLS® spigot end  
for cast iron pipes  
DN 80-300  
PN 16  
Ductile iron

# DOUBLE ECCENTRIC AND CENTRIC BUTTERFLY VALVES



## Series 756/100

Butterfly valve  
Double eccentric  
Double flanged  
Integral seat  
IP 67 gearbox  
DN 200-2800  
PN 10/16  
Ductile iron

Options:

- stainless steel seat
- PN 25 in DN 200-1200



## Series 756/106

Butterfly valve  
Double eccentric  
Double flanged  
Integral seat  
IP 68 gearbox  
DN 200-2800  
PN 10/16  
Ductile iron

Options:

- stainless steel seat
- PN 25 in DN 200-1200



## Series 756/102

Butterfly valve  
Double eccentric  
Double flanged  
Stainless steel seat  
ISO input gearbox  
DN 200-2800  
PN 10/16  
Ductile iron

Options:

- integral seat
- PN 25 in DN 200-1200



## Series 75/10

Butterfly valve  
Centric with fixed liner  
Wafer type  
DN 40-1400  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 75/31

Butterfly valve  
Centric with fixed liner  
Semi-lug type  
DN 50-200  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 75/41

Butterfly valve  
Centric with fixed liner  
Full lug type  
DN 50-1200  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 75/20

Butterfly valve  
Centric with fixed liner  
Double flanged short  
DN 50-2000  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 75/21

Butterfly valve  
Centric with fixed liner  
Double flanged long  
DN 50-1500  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 820/00

Butterfly valve  
Centric with loose liner  
Wafer type  
DN 25-1000  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 820/10

Butterfly valve  
Centric with loose liner  
Lug type  
DN 25-600  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 820/20

Butterfly valve  
Centric with loose liner  
U-section type  
DN 150-1600  
PN 10/16  
Ductile iron

Options:

- various actuators



## Series 813/80

Butterfly valve  
Centric with loose liner  
Double flanged short  
DN 350-600  
PN 10/16  
Ductile iron



# AIR VALVES AND FLOAT VALVES



**Series 701/10**  
Automatic air valve  
Threaded BSP 3/4" or 1"  
DN 20-25  
PN 16  
Reinforced polyamide

Options:  
• brass base



**Series 701/20**  
Automatic air valve  
Threaded BSP 1/2", 3/4",  
or 1"  
DN 20-32  
PN 16  
Ductile iron



**Series 701/30**  
Air & vacuum valve  
Inlet flange  
DN 50-300  
PN 16  
Ductile iron



**Series 701/40**  
Combination air valve  
DN 20, 25 and 50  
Threaded BSP 3/4", 1"  
or 2"  
PN 16  
Reinforced polyamide



**Series 701/50**  
Combination air valve  
Inlet flange  
DN 50-300  
PN 16  
Grey cast iron/  
Reinforced polyamide



**Series 701/60**  
Combination air valve  
Inlet flange  
DN 50-300  
PN 16  
Ductile iron



**Series 701/84**  
Underground air valve  
installation system  
DN 50-100  
PN 16  
Air valve box of PVC



**Series 851/00**  
Automatic air valve  
DN 25  
PN 16  
Ductile iron



**Series 851/20**  
Combination air valve  
Inlet flange  
DN 50-150  
PN 16  
Ductile iron



**Series 851/20**  
Cluster air valve  
DN 150-250  
PN 16  
Ductile iron



**Series 854**  
Ball float valve  
with lever and float

DN 50-300  
PN 16  
Ductile iron

# CHECK VALVES AND SERVICE CONNECTION VALVES



**Series 41/61**  
Swing check valve  
Resilient seated  
Closed bushings  
DN 50-300  
PN 10/16  
Ductile iron



**Series 41/60**  
Swing check valve  
Resilient seated  
Free shaft  
DN 50-300  
PN 10/16  
Ductile iron



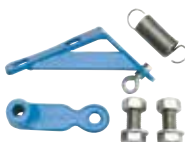
**Series 41/36**  
Swing check valve  
Metal seated  
Closed bushings  
DN 350-600  
PN 10/16  
Ductile iron

Options:  
• lever and weight  
• lever and spring

Options:  
• free shaft



**Series 41/23**  
Lever and weight kit  
for swing check valve  
DN 50-300  
Ductile iron



**Series 41/32**  
Spring kit  
for swing check valve  
DN 50-300



**Series 41/1**  
Guard kit  
for swing check valve  
DN 80-300



**Series 03/00**  
Service connection valve  
with internal BSP thread  
DN 25-50  
PN 16  
Ductile iron

Options:  
• internal enamel



**Series 03/30**  
Service connection valve  
with tensile socket ends  
for PE pipes  
DN 20-50  
PN 16  
Ductile iron



**Series 03/40**  
Service connection valve  
for side tapping with  
internal thread / external  
thread  
DN 25-50  
PN 16  
Ductile iron



**Series 03/65**  
Service connection valve  
with tensile screw  
couplings for PE pipes  
DN 25-50  
PN 16  
Ductile iron



**Series 03/85**  
Service connection valve  
with tensile screw  
coupling for PE pipes /  
external thread  
DN 25-32  
PN 16  
Ductile iron



**Series 03/90**  
Service connection valve  
with PRK couplings for  
PE pipes  
DN 20-50  
PN 16  
Ductile iron

Options:  
• internal enamel



# SERVICE CONNECTION VALVES



**Series 36/8X**  
Service connection valve  
with PE ends  
DN 25-50

PE 100 / PN 10  
Ductile iron

Options:  
• PE 100 / PN 16



**Series 16/80**  
Service connection valve  
with PE ends  
DN 25-50

PE 100 / PN 16  
POM (Polyoxymethylene)

Options:  
• T-type bonnet



**Series 16/50**  
Service connection valve  
with tensile socket ends  
for PE pipes  
DN 25-50  
PN 16  
POM (Polyoxymethylene)

Options:  
• T-type bonnet



**Series 16/29**  
Service connection valve  
with tensile socket end /  
external thread  
DN 25-50  
PN 16  
POM  
(Polyoxymethylene)



**Series 16/01**  
Service connection valve  
with PRK coupling /  
external thread  
DN 25-50  
PN 16  
POM  
(Polyoxymethylene)



**Series 16/90**  
Service connection valve  
with PRK couplings  
DN 25-50  
PN 16  
POM  
(Polyoxymethylene)



**Series 16/05**  
Service connection valve  
with tensile screw  
couplings for PE pipes  
DN 25-50  
PN 16  
Brass

Options:  
• T-type bonnet



**Series 16/25**  
Service connection valve  
with PRK couplings for  
PE pipes  
DN 25-50  
PN 16  
Brass

Options:  
• T-type bonnet



**Series 11/00**  
Service connection angle  
valve with external thread  
on inlet and internal  
thread on outlet  
DN 25-50  
PN 16  
Ductile iron



**Series 11/30**  
Service connection angle  
valve with external thread  
on inlet and tensile socket  
end for PE pipes on outlet  
DN 25-50  
PN 16  
Ductile iron

# SUPA LOCK™



**Series 103/00**  
Service connection valve  
with Supa Lock™ spigot/  
socket end  
DN 32  
PN 16  
Ductile iron



**Series 343/81**  
Ball valve  
with Supa Lock™ spigot  
end/BSP thread  
1"-1 1/2"  
DN 32, PN 16  
Brass

Options:

- Supa Lock™ spigot end/  
PRK coupling
- Supa Lock™ spigot end/  
screw coupling
- With T-top



**Series 100/00**  
Tapping saddle  
for PE/PVC pipes  
Ø63-225 mm  
DN 32  
Ductile iron



**Series 100/14**  
Tapping saddle  
for iron/steel pipes  
Ø 60-223 mm  
DN 32  
Ductile iron



**Series 109/10**  
Spacer for flanged  
connections  
DN 80-400  
DN 32  
Ductile iron



**Series 107/21**  
Straight push-in fitting  
for PE pipes  
Ø 32-63 mm  
DN 32  
Ductile iron



**Series 107/31**  
90° push-in fitting  
for PE pipes  
Ø 32-63 mm  
DN 32  
Ductile iron



**Series 107/36**  
Fitting with PE pipe end  
Ø 32-40 mm  
DN 32  
Ductile iron



**Series 106/01**  
Fitting with PRK coupling  
for PE pipes  
Ø 32-40 mm  
DN 32  
Ductile iron



**Series 106/01**  
Fitting with screw  
coupling for PE pipes  
Ø 32-50 mm  
DN 32  
Brass

Option:

- PRK coupling



**Series 106/02**  
Threaded connector  
For connection to drilling  
machines  
1"-2"  
DN 32  
Brass

Option:

- Ductile iron



**Series 106/00**  
Blind plug with handle  
DN 32  
Ductile iron



# TAPPING SADDLES



**Series 10/00**  
Tapping saddle  
for uPVC and PE pipes  
DN 50-300  
Ductile iron  
Lower part in stainless  
steel from DN 250



**Series 10/14**  
Tapping saddle  
for cast iron, ductile iron  
and steel pipes  
DN 50-300  
Ductile iron



**Series 730/2**  
Universal tapping saddle  
for ductile iron, steel and  
other metal pipes  
DN 50-300  
Ductile iron/steel



**Series 740**  
Universal tapping saddle  
with shut-off for ductile  
iron, steel and other metal  
pipes  
DN 50-300  
Ductile iron/steel



**Series 727/10**  
Tapping saddle  
for underpressure drilling  
For PE and PVC pipes  
DN 80-200



**Series 727/09**  
Tapping saddle SWIC  
for underpressure drilling  
With integrated cutter  
For PE and PVC pipes  
DN 50-200



**Series 727/19**  
Tapping saddle SWIC  
for underpressure drilling  
With integrated cutter  
For PVC pipes  
DN 80-150



**Series 727/08**  
Tapping saddle SWIC  
for underpressure drilling  
With integrated cutter  
For steel pipes  
DN 80-300

# SUPA MAXI™, SUPA PLUS™ AND SUPA® COUPLINGS, ADAPTORS AND VALVES



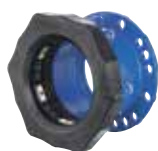
**Series 636**  
Supa Maxi™ gate valve  
Universal and tensile for  
all pipes  
Ductile iron  
DN 80-200  
PN 16



**Series 631**  
Supa Maxi™ straight  
coupling  
Universal and tensile  
for all pipes  
Ductile iron  
DN 50-400  
PN 16



**Series 632**  
Supa Maxi™ step  
coupling  
Universal and tensile  
for all pipes  
Ductile iron  
DN 50-300  
PN 16



**Series 633**  
Supa Maxi™ flange  
adaptor  
Universal and tensile  
for all pipes  
Universal drilling  
Ductile iron  
DN 40-400  
PN 10/16



**Series 634**  
Supa Maxi™ end cap  
Universal and tensile  
for all pipes  
Ductile iron  
DN 50-400  
PN 16



**Series 635**  
Supa Maxi™ transition  
coupling with PN 10 or  
PN 16 pipe end  
Universal and tensile  
for all pipes  
Ductile iron  
DN 50-300  
PN 10/16



**Series 01/70**  
Supa Plus™ gate valve  
Tensile for PE and uPVC  
pipes  
Ductile iron  
DN 40-300  
PN 16



**Series 621/10**  
Supa Plus™  
straight coupling  
Tensile for PE and uPVC  
pipes  
Ductile iron  
DN 32-300  
PN 16



**Series 623/10**  
Supa Plus™  
flange adaptor  
Tensile for PE and uPVC  
pipes  
Universal drilling  
Ductile iron  
DN 40-300  
PN 10/16



**Series 624/10**  
Supa Plus™  
end cap  
Tensile for PE and uPVC  
pipes  
Ductile iron  
DN 40-300  
PN 16



**Series 601**  
Supa® straight coupling  
universal for uPVC, AC,  
steel, cast iron and ductile  
iron pipes  
Ductile iron  
DN 40-400  
PN 16

Options:  
• Step coupling



**Series 603**  
Supa® flange adaptor  
universal for uPVC, AC, steel,  
cast iron and ductile iron  
pipes  
Universal drilling  
Ductile iron  
DN 40-400  
PN 10/16



# COMBI-FLANGES, FABRICATED COUPLINGS & ADAPTORS AND DISMANTLING JOINTS



**Series 05**  
Combi-flange for ductile iron pipes  
Tensile  
Ductile iron  
DN 50-300  
PN 10/16



**Series 05**  
Combi-flange for ductile iron pipes  
Non-tensile  
Ductile iron  
DN 50-300  
PN 10/16



**Series 05**  
Combi-flange for PE and PVC pipes  
Tensile  
Ductile iron  
DN 50-300  
PN 10/16



**Series 05**  
Combi-flange for PVC pipes  
Non-tensile  
Ductile iron  
DN 50-300  
PN 10/16



**Series 05**  
Combi-flange for uPVC, steel or ductile iron pipes  
Non-tensile  
Ductile iron  
DN 400-600 (uPVC and ductile)  
DN 50-300 (steel)  
PN 10/16



**Series 05**  
Combi-flange sealing for uPVC, steel or ductile iron pipes  
Non-tensile  
SBR rubber  
DN 400-600 (uPVC and ductile)  
DN 50-300 (steel)



**Series 05**  
Support bush for PE pipes  
Suitable for Supa Maxi™, Supa Plus™ and combi-flanges  
Stainless steel  
DN 50-400  
PN 6.3/10/16



**Series 258**  
Fabricated straight coupling for AC, steel, cast iron or ductile iron pipes  
Steel  
DN 350-2000  
PN 8 to 25



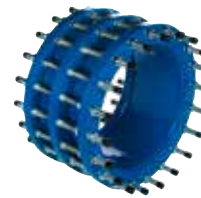
**Series 259**  
Fabricated step coupling for AC, steel, cast iron or ductile iron pipes  
Steel  
DN 350-2000  
PN 8 to 25



**Series 260**  
Fabricated coupling and flange adaptor for AC, steel, cast iron and ductile iron pipes  
Steel  
DN 350-2000  
PN 10/16/25



**Series 265/30**  
Fabricated dismantling joint for all pipe materials  
Steel  
DN 300-1200  
PN 10/16/25



**Series 265/50**  
Fabricated dismantling joint for all pipe materials  
With centre flange  
Steel  
DN 50-2200  
PN 10/16/25

# SURFACE BOXES FOR SERVICE CONNECTION VALVES AND GATE VALVES



## Series 04/10

Fixed surface box  
Grey cast iron with blue epoxy

Distance ring/square for fixed surface box

Options:

- floating



## Series 04/12

Universal surface box  
Reversible design  
Ductile iron with blue epoxy



## Series 04/43

Fixed surface box  
Body of PE  
Lid of cast iron



## Series 04/007

Floating surface box for telescopic extension spindle  
Body of PE  
Flange / lid of ductile iron

Options:

- round – black primer
- round – blue epoxy
- square – black primer
- square – blue epoxy



## Series 04/008

Floating surface box for telescopic extension spindle  
Ductile iron with black primer

Options:

- round or square surface plate
- round or square lid



## Series 04/088

Double surface box  
Round and square lid with "V" inscription  
Ductile iron with black primer



## Series 80/31-01

Surface box "Classic" for gate valves  
Fixed height  
Round top  
Body of PA+  
Lid of cast iron

Options:

- black lid of PA
- blue lid of PA



## Series 80/31-011

Surface box "Classic" for gate valves  
Fixed height  
Square top  
Body of PA+  
Lid of cast iron

Options:

- black lid of PA
- blue lid of PA



## Series 80/31-02

Surface box "Classic" for gate valves  
Height adjustable  
Round top  
Body of PA+  
Lid of cast iron



## Series 80/31-025

Surface box "Classic" for gate valves  
Height adjustable  
Round top  
Reinforced rim  
Body of PA+  
Lid of cast iron



## Series 80/31-041

Surface box "Futura" for gate valves  
Fixed height  
Square top  
Body of PA+  
Lid of blue PA

Options:

- black lid of PA
- black lid of cast iron
- round top



## Series 80/40

Surface box "PERA" for gate valves  
Fixed height  
Square top  
Body of PA+  
Lid of cast iron

# SURFACE BOXES AND ACCESSORIES



**Series 80/32-01**  
Surface box "Classic" for service connection valves  
Fixed height  
Round top  
Body of PA+  
Lid of cast iron

Options:  
• black lid of PA  
• blue lid of PA  
• square top for pavement



**Series 80/32-02**  
Surface box "Classic" for service connection valves  
Height adjustable  
Round top  
Body of PA+  
Lid of cast iron

Options:  
• reinforced rim



**Series 80/32-041**  
Surface box "Futura" for service connection valves  
Fixed height  
Square top  
Body of PA+  
Lid of blue PA

Options:  
• black lid of PA  
• black lid of cast iron  
• round top



**Series 80/32-11**  
Surface box "Futura" for service connection valves  
Fixed height  
Hexagonal top  
Body of PA+  
Lid of cast iron

Options:  
• black lid of PA  
• blue lid of PA



**Series 80/42**  
Surface box "PURDIE" for service connection valves  
Fixed height  
Square top  
Body of PA+  
Lid of cast iron



**Series 80/44**  
Multi purpose surface box for service connection valves  
Body of PA+  
Lid of PA or GG



**Series 80/41**  
Surface box "PURBRA" for underground hydrants  
Fixed height  
Square top  
Body of PA+  
Lid of cast iron



**Series 80/30-01**  
Surface box "Classic" for underground hydrants  
Fixed height  
Round top  
Body of PA+  
Oval lid of cast iron

Options:  
• black lid of PA  
• red lid of PA  
• square top for pavement



**Series 80/30-02**  
Surface box "Classic" for underground hydrants  
Height adjustable  
Round top  
Body of PA+  
Oval lid of cast iron

Options:  
• reinforced rim



**Series 80/30-04**  
Surface box "Futura" for underground hydrants  
Fixed height  
Round top  
Body of PA+  
Oval lid of red PA

Options:  
• black lid of PA  
• black lid of cast iron  
• square top for pavement



**Series 80/46-01**  
Support tile for surface boxes for gate valves and service connection valves  
With spindle fixation  
PA+

Options:  
• without spindle fixation  
• for underground hydrants



**Series 80/46-10**  
Top frame for gate valves  
PA+

Options:  
• for service connection valves  
• for underground hydrants



# VALVE ACCESSORIES



**Series 04/02**  
Extension spindle for  
gate valves  
Fixed length  
DN 40-400



**Series 04/04**  
Extension spindle for  
gate valves  
Telescopic  
DN 40-600



**Series 04/05**  
Extension spindle for  
service connection  
valves  
Fixed length  
DN 25-50



**Series 04/07**  
Extension spindle for  
service connection  
valves  
Telescopic  
DN 25-50



**Series 04/F**  
Extension spindle for  
double eccentric butterfly  
valves  
Telescopic  
DN 200-1200



**Series 04/15**  
T-key for gate valves  
DN 40-400



**Series 04/08/55**  
Stem caps for gate valves  
and service connection  
valves  
DN 25-600



**Series 08/00**  
Handwheel for gate valves  
DN 50-600  
CTC  
Grey cast iron

Options:  
• CTO



**Series 756/08**  
Handwheel for double  
eccentric butterfly valves  
DN 200-600  
Grey cast iron



**Series 36**  
Valve foundation for gate  
valves with PE ends  
DN 25-100  
Steel



**Series 756/5**  
Adaptors for connecting  
gearside to extension rod  
or wall post indicator  
and to post indicator.  
Stem cap for extension  
rod fitting inside  
handwheel  
DN 200-600  
Ductile iron



**Series 910**  
Y-strainer  
DN 50-300  
Ductile iron

# REPAIR CLAMPS AND DUCTILE IRON FITTINGS



**SSeries 729/01**  
Repair clamp  
Single band with support plate  
Stainless steel AISI 304 or AISI 316  
NBR or EPDM rubber

- Options:
- fingers
  - handgrip



**Series 729/02**  
Repair clamp  
Double band with fingers  
Stainless steel AISI 304 or AISI 316  
NBR or EPDM rubber

- Options:
- support plate
  - handgrip



**Series 729/03**  
Repair clamp  
Triple band with support plate  
Stainless steel AISI 304 or AISI 316  
NBR or EPDM rubber

- Options:
- fingers



**Series 729/21**  
Repair clamp  
Single band with BSP thread and support plate  
Stainless steel AISI 304 or AISI 316  
NBR or EPDM rubber

- Options:
- fingers
  - handgrip



**Series 729/32**  
Repair clamp  
Double band with flanged branching and fingers  
Stainless steel AISI 304 or AISI 316  
NBR or EPDM rubber

- Options:
- support plate
  - handgrip



**Series 729/7**  
Large diameter repair clamp  
Internal  
600-2000 mm  
Stainless steel AISI 304 or AISI 316

- Options:
- width 200 or 400 mm
  - external



**Series 712**  
Flanged bend  
Ductile iron

Options:

- various types



**Series 712**  
Flanged cross  
Ductile iron

Options:

- various types



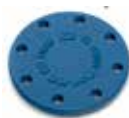
**Series 712**  
Flanged reducer  
Ductile iron

Options:

- various lengths



**Series 712**  
Reducer flange  
Ductile iron



**Series 712**  
Blind flange  
Ductile iron

Options:

- various types



**Series 712**  
Duckfoot bend  
Ductile iron

# UNDERGROUND FIRE HYDRANTS AND GARDEN FOUNTAIN POSTS



**Series 29/40**  
Underground fire hydrant  
with bayonet coupling  
DN 100  
PN 16  
Ductile iron

- Options:
- 3" stortz oupling
  - 3" NOR coupling
  - 4" stortz coupling



**Series 29/50**  
Underground fire hydrant  
with bayonet coupling  
With AVK extension  
spindle and riser pipe in  
stainless steel  
DN 100  
PN 16  
Ductile iron



**Series 29/78**  
Underground fire hydrant  
Free flow  
Single shut-off  
DN 80  
PN 16  
750-1500 mm  
Ductile iron



**Series 35/31**  
Underground fire hydrant  
Single shut-off  
DN 80  
PN 16  
750-1500 mm  
Ductile iron

- Options:
- stainless steel seat



**Series 35/85**  
Underground fire hydrant  
Additional ball shut-off  
DN 80  
PN 16  
750-1500 mm  
Ductile iron  
Stainless steel seat



**Series 35/72**  
Underground fire hydrant  
DN 100-125  
PN 16  
1000-3500 mm  
Ductile iron

- Options:
- drilling according to GOST



**Series 30**  
Underground fire hydrant  
For mounting on AVK  
combi-cross  
DN 100  
PN 16  
Grey cast iron



**Series 80/60**  
Flexdrain  
Packing for underground  
hydrant  
DN 80/100



**Series 78/7510**  
Fountain post  
"VICTORIA"  
Frost-proof  
DN 40  
Grey cast iron

- Options:
- outlet for fire hose connection



# ABOVE GROUND FIRE HYDRANTS



**Series 09/30**  
Above ground fire hydrant  
Type B  
DN 80  
PN 10  
Ductile iron

Options:  
• manual or automatic drainage



**Series 09/50**  
Above ground fire hydrant  
Type A  
DN 100  
PN 10  
Aluminium

Options:  
• manual or automatic drainage



**Series 84/05**  
Above ground fire hydrant  
Break-away design with additional ball shut-off  
Model P7  
DN 100  
Ductile iron

Options:  
• lateral flange



**Series 84/26**  
Above ground fire hydrant  
Drop down pillar  
Model P7, Type C  
DN 100  
PN 16  
Ductile iron

Options:  
• lateral flange



**Series 84/45**  
Above ground fire hydrant  
Break-away design with additional ball shut-off  
Model P7  
"NOSTALGIA"  
DN 80  
PN 16  
Ductile iron

Options:  
• lateral flange  
• various coatings



**Series 84/72**  
Above ground fire hydrant  
Break-away design with additional ball shut-off  
Model P7  
DN 80  
PN 16  
Stainless steel

Options:  
• lateral flange



**Series 84/91**  
Above ground fire hydrant  
Breakable, single shut-off  
DN 80/100  
PN 10/16  
Stainless steel

Options:  
• non breakable  
• double shut-off

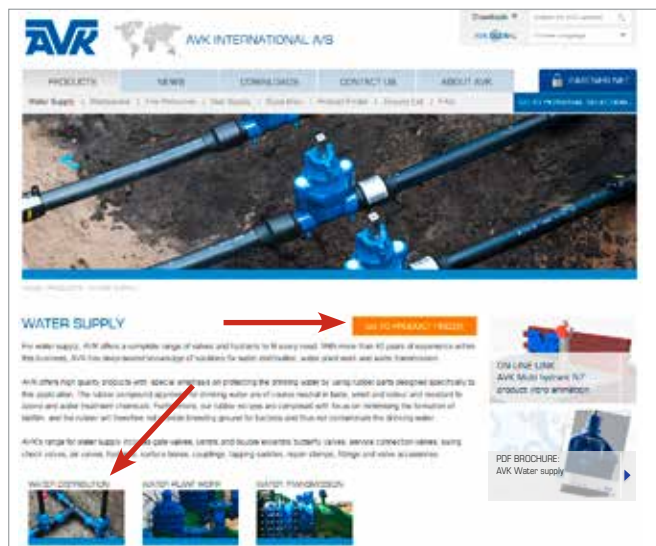


**Series 87/80**  
Tunnel hydrant  
DN 80  
PN 16  
Stainless steel



**Series 87/95**  
Tunnel hydrant  
45 degrees  
DN 80  
PN 16  
Stainless steel

# HOW TO FIND FULL DOCUMENTATION



## Two paths to our documentation

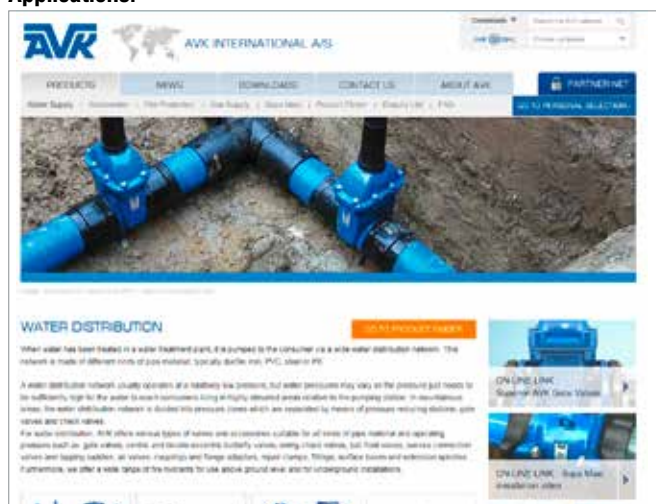
We have done our utmost to make it easy to find specific product documentation on [www.avkvalves.eu](http://www.avkvalves.eu).

Choose your area of interest in the upper menu. e.g. "water supply", and get an overview of our products within this area (to the left).

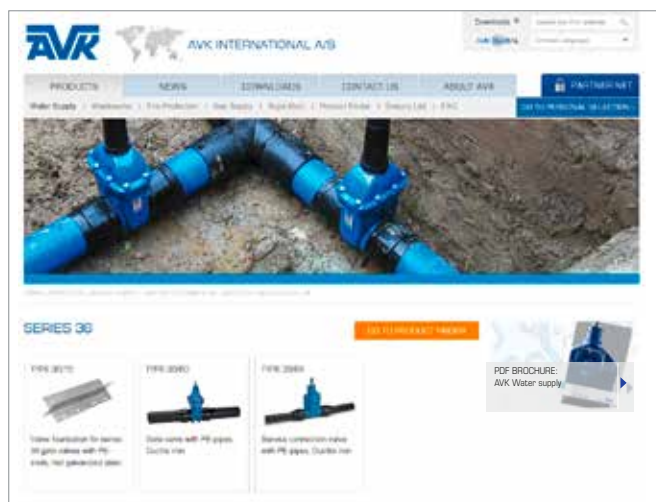
You can also go directly to the "product finder", and pick your choice in the drop down lists. You can choose to fill in all the blanks to find a specific product, or just fill in a few to get an overview of the range.

Or you can choose the quick path, "product series", using the product series numbers stated in this brochure. In the free search field you can state other details such as a specific item number.

## Applications:



## Product finder:



# EXPECT SUSTAINABILITY



Given the nature of the business that AVK operates in, we have the possibility and obligation to contribute to the preservation of the environment.

For AVK sustainability and common sense go hand-in-hand. By reducing water waste you do not only save money, you actively help reduce electricity consumption and protect one of our most valuable resources. Our high-quality solutions minimize environmental impacts that excavation, repair or replacement may cause. Thereby we ensure that your business is based on a sustainable foundation that lives up to the requirement of social responsibility and environmental conscience.

## **Lasting solutions**

Sustainability is about creating a sustainable business. Our solutions reduce electricity consumption and CO2 emissions in facilities all over the world. They significantly reduce water wastage simply because we have put a lot of effort into optimizing our design. Innovation is a central part of a modern business, and we are dedicated to finding new ways to reduce water wastage and optimize your business.

## **United Nations Global Compact Principles**

The AVK Group realises that a global presence demands high ethical standards. Throughout our organisation and in all our actions we therefore recognise the principles laid out in the United Nations Global Compact document.

## **International standard for environmental management (ISO 14001)**

AVK complies with the internationally accepted ISO 14001 standard, which provides a foundation for eco-management in companies. The AVK Group has outlined a number of strict objectives for its manufacturing companies regarding energy and water consumption, as we are aware that pure water is a scarce resource.

Every AVK employee is motivated to identify areas of improvement in the way we do business to the benefit of the environment. We do not only focus on activities and processes in our manufacturing companies, we also focus on the behaviour and business model of our suppliers.

The AVK Group companies have agreed to a number of standards that our suppliers need to comply with in order to be a certified supplier of the AVK Group. In a world of intensified globalisation, resulting in increasing business relations between countries and cultures, it is vital for AVK to achieve sustainability throughout the supply chain.

We wish to assure our customers that we work with responsible partners who adhere to the same standards as we do. Therefore, we seek partners with high ethical standards. Partners who also comply with international legislation in the field of labour. Thus we naturally also respect all child labour restrictions throughout the entire supply chain and do not accept any discrimination in respect of employment and occupation.



**AVK International A/S**

Bizonvej 1  
Skovby  
8464 Galten  
Denmark

Tel.: +45 8754 2100  
Fax.: +45 8754 2120  
sales@avk.dk  
www.avkvalves.eu

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Expect... **AVR**

