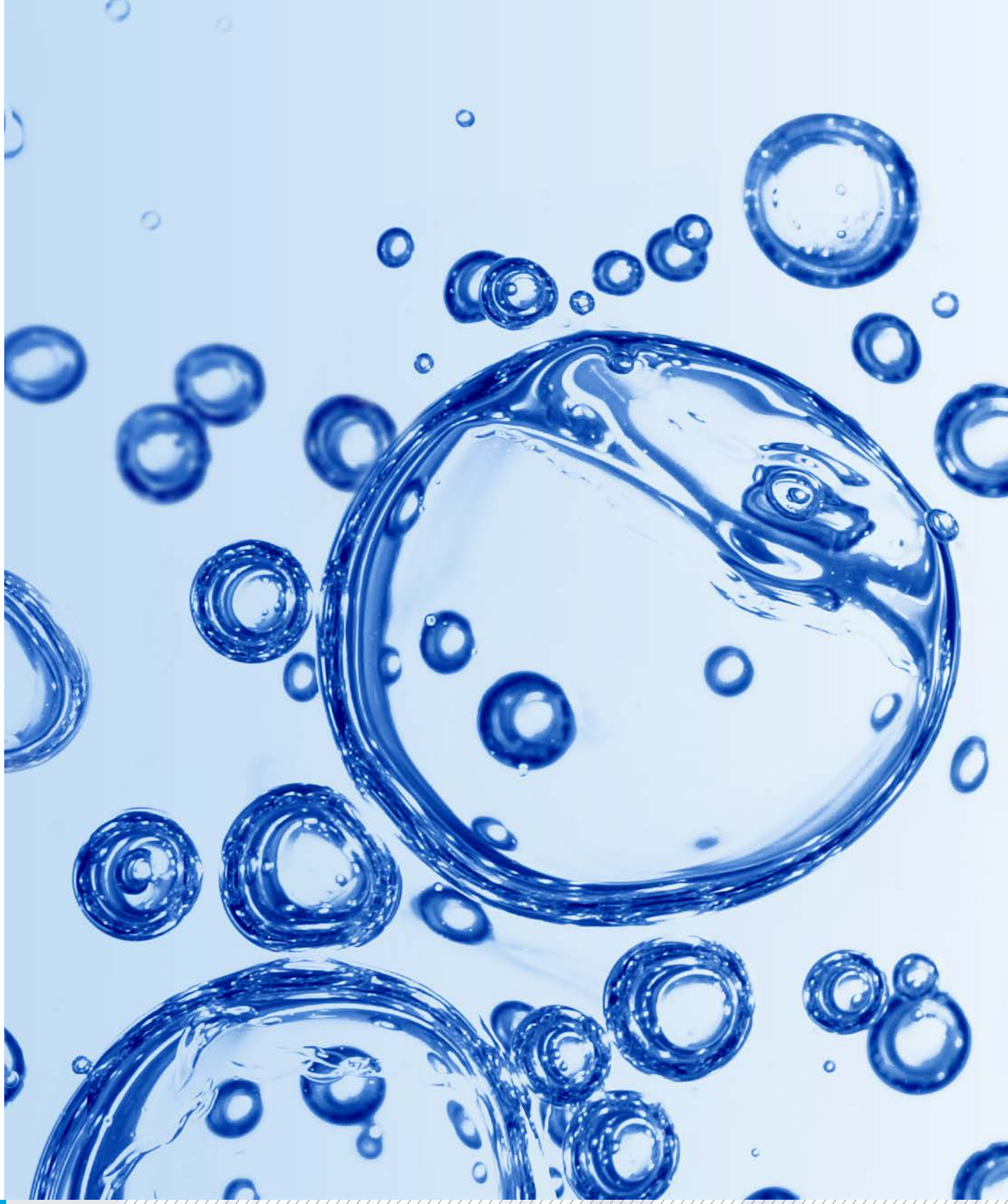
AVK SVMC WATER SUPPLY



EXPECT A COMPLETE RANGE

Expect... AVK

الشركة السعودية لصناعة الصمامات المحدودة

SAUDI VALVES MANUFACTURING CO. LTD.

A COMPLETE RANGE OF VALVES AND ACCESSORIES

AVK has been in the valve business for more than 40 years. At first AVK was a gate valve manufacturer, but today we are offering solutions for numerous applications and a comprehensive range of 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.

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.

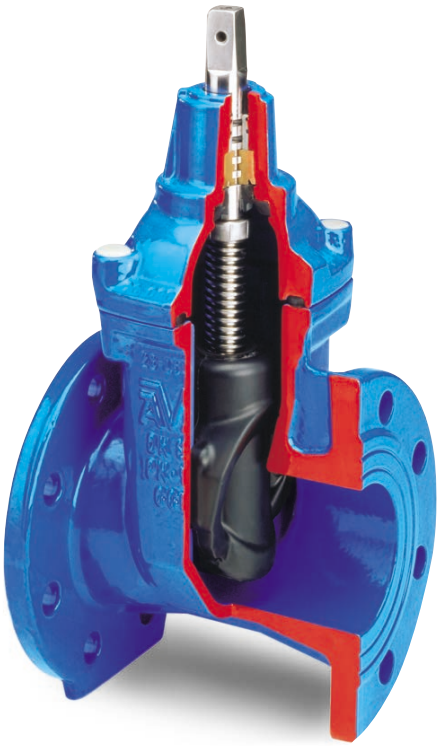
The AVK Group is present in more than 85 countries worldwide. Sales and distribution are handled by AVK sales companies, agents and distributors.

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.

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.

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 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.

In closed position impurities are absorbed in the rubber

When reopened the rubber will regain its shape

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.

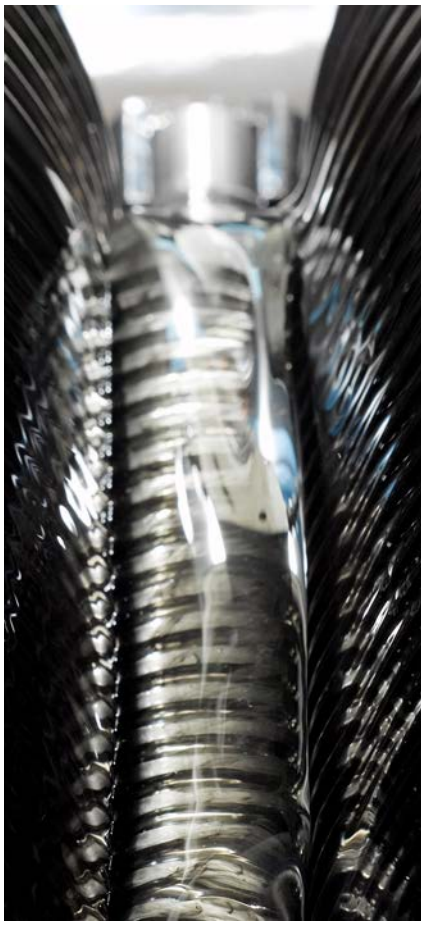
Triple safety stem sealing
An NBR wiper ring protects against impurities from the outside. Tightness and low friction are provided by four NBR O-rings in a polyamide bearing. An EPDM manchette is the main seal to the flow.

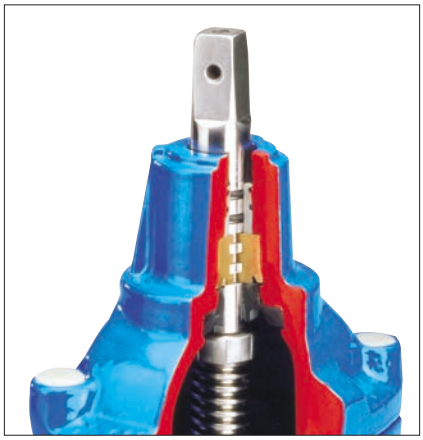
The full circle thrust collar of deszincification resistant brass provides fixation of the stem and low free running torques.

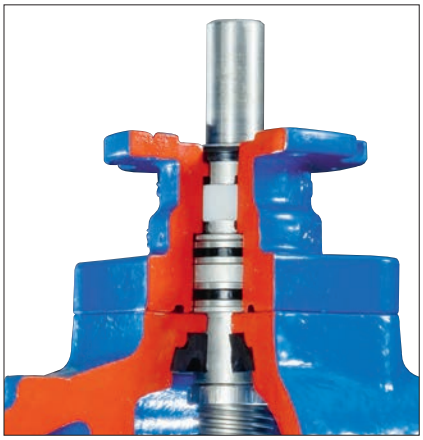
In DN 450-800 the valves are designed with two roller bearings and a thrust collar of stainless steel to ensure low operating torques.

Two strong coatings
The standard corrosion protection is an internal and external epoxy coating according to DIN 30677-2 .

We control each batch of epoxy coated components to ensure a layer thickness of minimum 250 µ, a pore-free surface, high impact resistance and adequate curing.







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

AVK CENTRIC BUTTERFLY VALVES FIXED LINER

AVK offers the widest range of butterfly valves at the market. Years of innovation, manufacturing and experience have created a complete range of centric rubberlined butterfly valves. 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
The design philosophy is based on the principle objectives of achieving high reliability, high efficiency and to also be highly cost effective. Up-to-date design and state of the art materials tailored to market needs and wishes such as no maintenance and long service life.

High efficiency by excellent flow performance reducing energy losses. 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.

High reliability by 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.

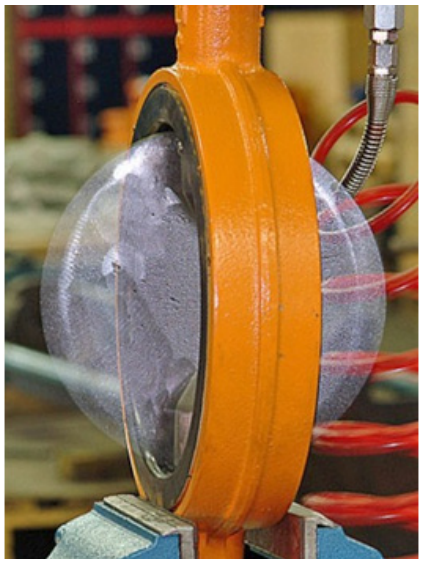
Profiled disc and unique AVK rubber ensure exceptional durability
The unique AVK rubber compound has an excellent ability to regain shape after compression, and this ability combined with the profiled disc secure tightness even after thousands of operation cycles.

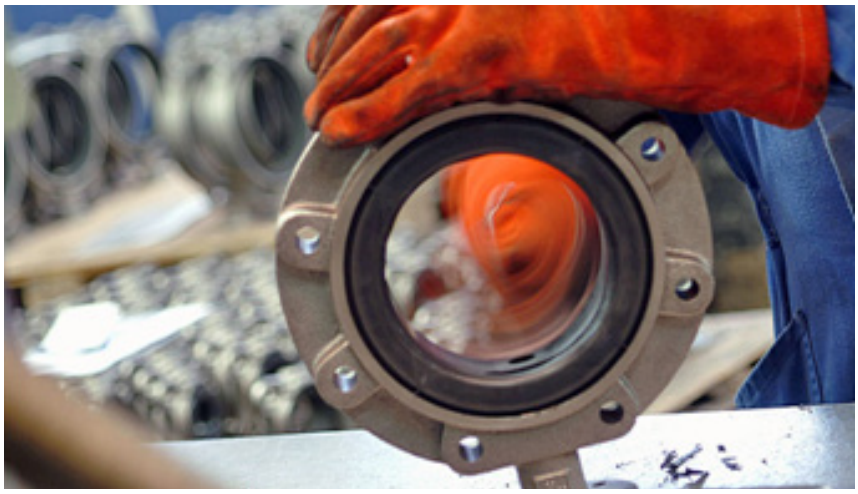
DESIGN DESCRIPTION

The disc is basically a circular part, which can rotate 90° on the axis of the shaft. The outer edge of the disc seals against the lining in the closed position of the valve.
When the disc is perpendicular to the pipeline, the valve is shut. When the disc is parallel with the pipe, the valve is fully open.

The orientation of the disc is indicated by a groove at the shaft end that is in line with the disc. Additionally the lever position or position indicator of the actuator shows the disc orientation.

The diameter range is from DN 40 - 2000 (2"-80") and a wide variety of materials is available for many applications. The valves are designed according to the latest international standards and meet environmental requirements.





North Jeddah Sea Outfall Project, In December 2009 AVK supplied 10 butterfly valves EVFS DN 2000 worm gearbox operated. The DN 2000 butterfly valves will be part of a 15 km twin sea outfall pipeline. AVK SVMC has also delivered DN 2200 penstocks and matching dismantling joints to the same Project.

feature summary

- Centric shaft position.
- No cavities in the flow passage.
- Few process wetted parts.

Providing good resistance to corrosion
And high reliability.

- Compact construction; low weight for easy handling and to installation.
- Both shafts carried in ptfe lined bearings.
- Available as wafer, semilug, full lug, double Flanged short and double flanged long in DN 40-2000 with any type of actuation.
- 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
- No Maintenance and long service life.

Cooling Systems Burj Khalifa Tower, Dubai UAE. In 2009 AVK supplied approximately 600 pcs EVUS and EVTLS butterfly valves DN 50 - DN 1700 including actuators for the cooling systems of the highest building in the world.

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

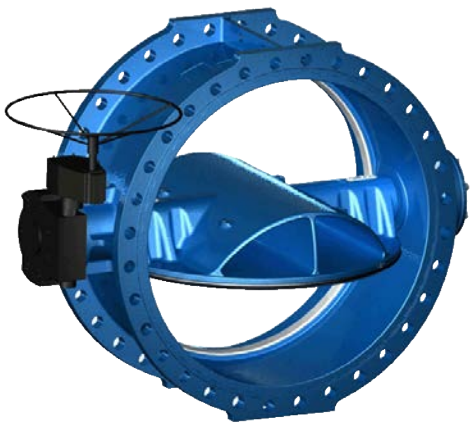
AVK DOUBLE ECCENTRIC BUTTERFLY VALVES
THE SAFE CHOICE

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.

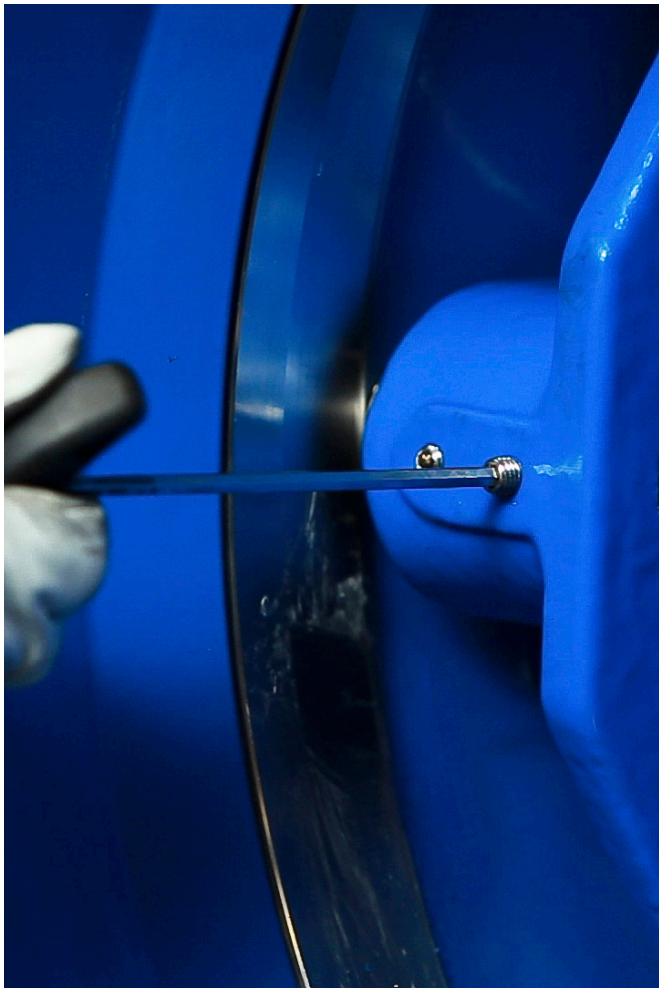
Tilted and secured disc
The tension on the disc is released after a few degrees of opening which gives only insignificant wear of the disc seal. Furthermore, the design minimises the compression of the sealing which ensures low operating torques.

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
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.

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

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.

The valves are approved by DVGW, KIWA and WRAS up to DN 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 SWING CHECK VALVES ENSURE OPTIMUM PUMP PERFORMANCE

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.

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.

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
Swing check valves with lever and weight are recommended 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

A guard covering the lever and weight eliminates the risk of injuries.

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

Pompa części
pływających

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 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.

AVK air valves
AVK air valves series 851 are unique design (embodying 'Aerokinetic'principle) of air relief valves for water systems. AVK air valves have capacities greater than those of other conventional air relief valves. Top performance and high durability are the characteristics of all the different types of air valves in the range.

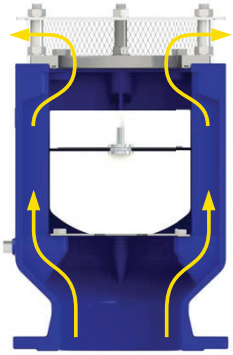
The air valves are available in many types like air release valves, combination air valves, anti shock combination air valves, combianation air valves with rapid filling preventer mechanism, underground combination air valves and many more.

Single acting air valves
AVK Single Orifice Air Valves (Single Acting) for automatically releasing air accumulating in pipelines during normal working conditions to prevent interference with pipe flow capacity.

Double acting air valves
Double Orifice Air Valves (Double Acting) include the function as Single Orifice Air Valve as well as for automatically exhausting air from a pipeline when it is being filled with water, the air being released at a sufficiently high rate to prevent back pressure restriction of water inflow rate; or for automatically ventilating a pipeline when it is being emptied of water, the air inflow rate being sufficiently high to prevent the development of high vacuum pressures in the line.

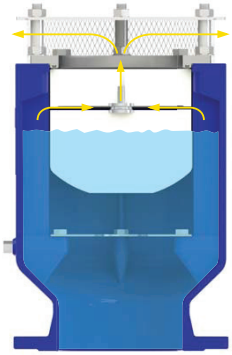
Combination air valves

Combination air valves combine the function of automatic air release valves and air and vacuum valves. Combination air valves will ensure proper operation of the pipeline network allowing the release of air pockets during working condititons, the evacuation and entrance of large volumes of air during filing and draining operations.



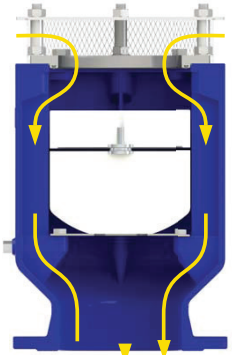
Discharge of large volumes of air

During the pipe filling it is necessary to discharge air as water flows in. Thanks to an aerodynamic full port body and deflector, will make sure to avoid premature closures of the mobile block during this phase.



Air release during working conditions

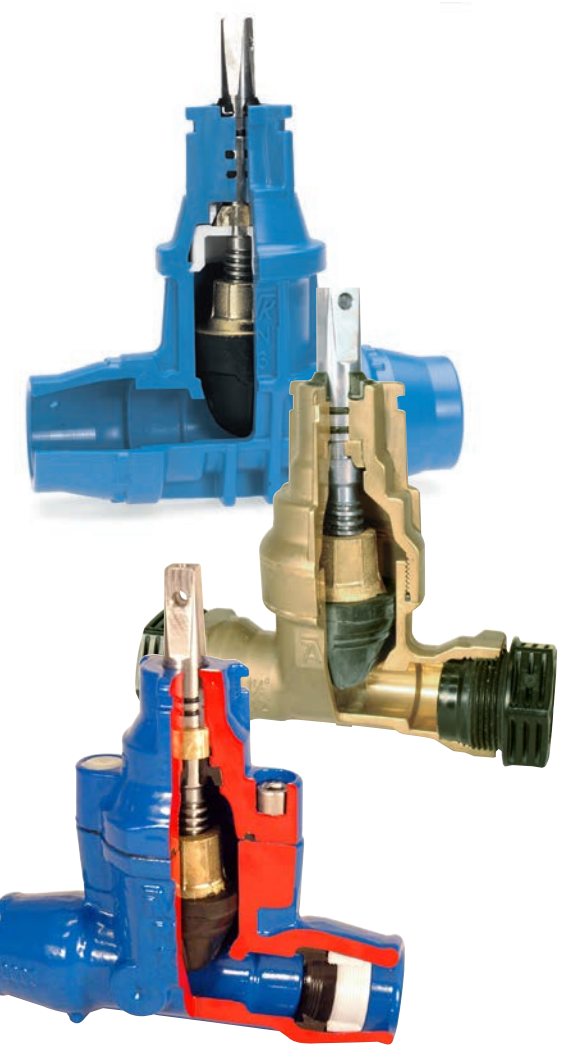
During operation the air produced by the pipeline is accumulated in the upper part of the air valve. Little by little it is compressed and the pressure arrives to water pressure, therefore its volume increases push-ing the water level downwards allowing the air release through the nozzle.



En trance of large volumes of air

During pipeline draining, or pipe bursts, it is necessary to bring in as much air as the quantity of outflowing water to avoid nega-tive pressure and serious dam-ages of the pipeline, and to the entire system.

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 (polyoxy-methylene) 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

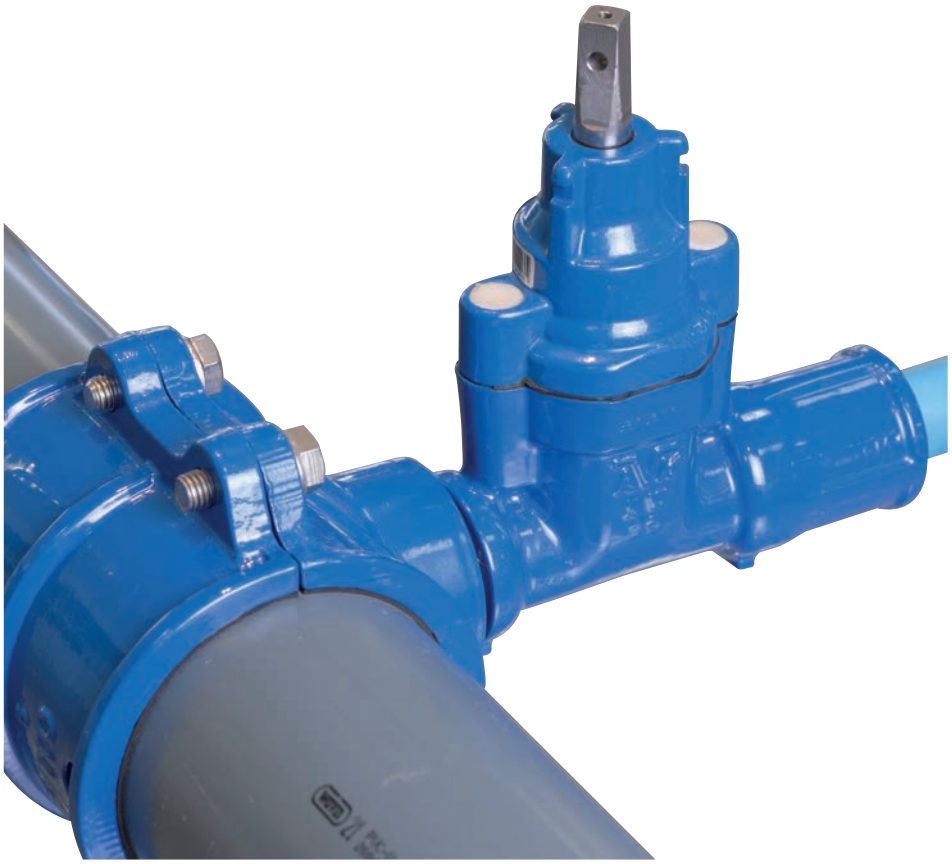
- Wedge shaped with wedge guides ensures smooth operation
- AVK's wedge rubber has an excellent ability to regain its shape
- AVK's wedge rubber features an excellent bonding, minimum formation of biofilm and a high resistance to water treatment chemicals
- Rolled threads increase the stem's strength
- 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.

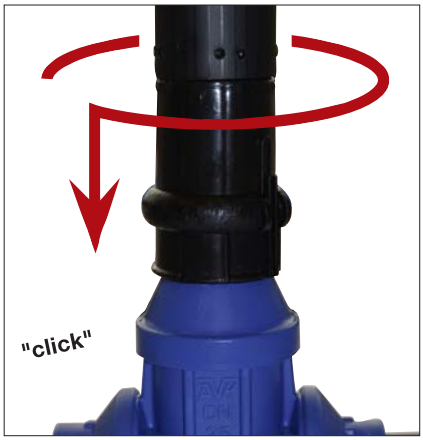
AVK tapping saddles offer easy and fast installation and reliable function and they are maintenance-free and designed to last.

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

AVK 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.

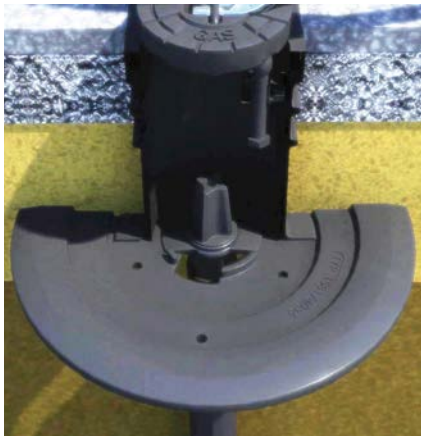
It is very easy to install a height adjustable surface box. The 5° angle adjustment enables adaptation to the slope of the road, and the positioning of the top part is flexible by means of the O-ring. With a height adjustable surface box there will be no expensive corrections after installation.

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 ±3.5° 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 and tensile straight couplings, step couplings, flange adaptors, end caps and transition couplings according to EN 14525 in DN 50-300.

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)
- ±4° (8°) angular deflection on each side
- Permanent protection caps protect during handling and installation
- No re-tightening of bolts
- Lifting eye on DN 100-300
- Epoxy coating to DIN 30677-2, GSK approved
- Gasket of EPDM approved for drinking water
- Temperature range -30°C to +70°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 and end caps 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.

FLANGED GATE VALVES, GATE VALVES WITH SPIGOT ENDS, PE ENDS AND SOCKET ENDS

Series 01/70
Gate valve with
Supa Plus™ couplings
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 02/20
Flanged gate valve
Face-to-face BS
DN 50-400
PN 10 /16
Ductile iron
Flange drilling to EN
1092-2, RF

Series 02/60
Flanged gate valve
Face-to-face DIN F5
DN 40-500
PN 10/16
Ductile iron
Flange drilling to EN
1092-2, RF

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
Flange drilling to EN
1092-2, RF

Options:
PN 25

Series 06/30
Flanged gate valve
Face-to-face DIN F4
DN 40-400
PN 10/16
Ductile iron
Flange drilling to EN
1092-2, RF

Series 06/35
Flanged gate valve with
pin indicator
Face-to-face DIN F4
DN 50-400
PN 10/16
Ductile iron
Flange drilling to
EN 1092-2, RF

Options:
face-to-face DIN F5

Series 06
Flanged gate valve
Face-to-face DIN F4
DN 450-800
PN 10/16
Ductile iron
Resilient seated
Flange drilling to EN
1092-2, RF

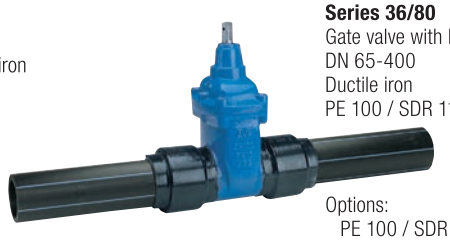
Options:
DN 50 By-pass

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
Flange drilling to EN
1092-2, RF

Options:
face-to-face DIN F5

Series 32/60
Gate valve with
short spigot ends
for AC pipes
DN 80-450
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 36/80
Gate valve with PE ends
DN 65-400
Ductile iron
PE 100 / SDR 11

Options:
PE 100 / SDR 17

Series 54
Flanged gate valve
DN 700-1800
Face-to-face BS
PN 10/16
Ductile iron
Metal seated
Flange drilling to
EN 1092-2, RF

Options:
DN 80 By-pass

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
Flange drilling to EN
1092-2, RF

Options:
DN 80 By-pass
AVK PowerSaver™ for
torque reduction

DOUBLE ECCENTRIC AND CENTRIC BUTTERFLY VALVES

Series 756/106
Butterfly valve
Double eccentric
Double flanged
Integral seat
IP 67 gearbox
DN 200-600
PN 10/16
Ductile iron
Flange drilling to EN 1092-2, RF

Options:
stainless steel seat
PN 25 in DN 700-1200

Series 756/106
Butterfly valve
Double eccentric
Double flanged
Integral seat
IP 68 gearbox
DN 700-1200
PN 10/16
Ductile iron
Flange drilling to EN 1092-2, RF

Options:
stainless steel seat
PN 25 in DN 700-1200

Series 756/106
Butterfly valve
Double eccentric
Double flanged
Stainless steel seat
ISO input gearbox
DN 1400-2800
PN 10/16
Ductile iron
Flange drilling to EN 1092-2, RF

Options:
integral seat
PN 25 in DN 700-1200

Series EVS
Butterfly valve
Centric with fixed liner
Wafer type
DN 40-1400
PN 10/16
Ductile iron
Design code EN593

Options:
various actuators
various materials of shaft, disc and lining
various pressure rating

Series EVBS
Butterfly valve
Centric with fixed liner
Semi-lug type
DN 50-300
PN 10/16
Ductile iron
Design code EN593

Options:
various actuators
various materials of shaft, disc and lining

Series EVTLS
Butterfly valve
Centric with fixed liner
Full lug type
DN 50-1200
PN 10/16
Ductile iron
Design code EN593

Options:
various actuators
various materials of shaft, disc and lining
various pressure rating
various flange drilling

Series EVFS
Butterfly valve
Centric with fixed liner
Double flanged short
DN 50-2000
PN 10/16
Ductile iron
Design code EN593

Options:
various actuators
various materials of shaft, disc and lining
various pressure rating
various flange drilling

Series EVFL
Butterfly valve
Centric with fixed liner
Double flanged long
DN 50-1500
PN 10/16
Ductile iron
Design code EN593

Options:
various actuators
Various materials of shaft, disc and lining
various flange drilling

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

SERVICE CONNECTION VALVES, CHECK VALVES, AIR VALVES AND FLOAT VALVES

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 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

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

Options:
T-type bonnet

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

Series 41/36
Swing check valve
Metal seated
Closed bushings
DN 350-600
PN 10/16
Ductile iron
Flange drilling to EN
1092-2, RF

Options:
free shaft

Series 41/60
Swing check valve
Resilient seated
Free shaft
DN 50-300
PN 10/16
Ductile iron
Flange drilling to EN 1092-
2, RF

Options:
lever and weight
lever and spring

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

Series 851/44
Flanged Air Valve to EN1092-2
Ductile Iron Body
Epoxy coating externally &
internally
Double Orifice
Float: Stainless Steel
Connection : EN1092-2
Raised Face PN-16
DN25 -DN200

Series 851/40
Single acting air valve
DN25
GGG-50
Female tread inlet to BSP

Options:
Insulation ball valve

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

Series 854
Ball float valve
with lever and float
DN 50-300
PN 16
Ductile iron
Inlet flange to EN 1092-
2, RF

Series Mod. FOX 2F-M*
Air valve – 2 functions
- Air discharge
- Air entrance
Threaded 1"-2"
Flanged DN50 – DN300
GGG50
PN 10/16
Flange drilling to EN 1092-2 RF

Options:
PN 25/40
Other flanges drilling on request
2F-M*-EO (Exit Only)
2F-M*-AS (Anti-Shock)
2F-M*-RFP (Rapid Filling Preventer)

Series Mod. FOX 3F-M*
Air valve – 3 functions
- Air discharge
- Air entrance
- Air release during working
conditions
Threaded 1"-2"
Flanged DN50 – DN300
GGG50
PN 10/16
Flange drilling to EN 1092-2 RF

Options:
PN 25/40
Other flanges drilling on request
3F-M*-EO (Exit Only)
3F-M*-AS (Anti-Shock)
3F-M*-RFP (Rapid Filling
Preventer)

VALVE ACCESSORIES AND SURFACE BOXES

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

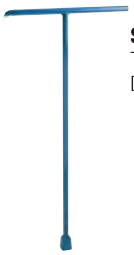
Series 04/05
Extension spindle for service connection valves
Fixed length
DN 25-50

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
Fabricated Extension spindle for gate valves: DN 40-300 and service connection gate valves: DN 20-50

Options:
Telescopic or fixed length.



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 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 04/10
Fixed surface box
Grey cast iron with blue exoxy

Series 04/11
Floating surface box
Ductile iron with blue exoxy

Series 04/12
Universal surface box
Reversible design
Ductile iron with blue exoxy

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

SUPA MAXI™, SUPA PLUS™ AND SUPA® COUPLINGS, ADAPTORS AND END CAPS

Series 631
Supa Maxi™ straight coupling
Universal and tensile for all pipes
Ductile iron
DN 50-300
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 40-300
PN 10/16

Series 634
Supa Maxi™ end cap
Universal and tensile for all pipes
Ductile iron
DN 50-300
PN 16

Series 635
Supa Maxi™ transition coupling with PE 100 /PN 16 pipe end
Universal and tensile for all pipes
Ductile iron
DN 50-300

Options:
PE 100 / PN 10

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

Series 602
Supa® step coupling universal for uPVC, AC, steel, cast iron and ductile iron pipes
Ductile iron
DN 40-400
PN 16

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

REPAIR CLAMPS, FITTINGS AND TAPPING SADDLES

Series 729/10-05
Repair clamp
Single band
with support plate
Stainless steel AISI 304

Options:
AISI 316

Series 729/10-44
Repair clamp
Single band
with fingers and handgrip
Stainless steel AISI 304

Options:
AISI 316

Series 729/10-46
Repair clamp
Single band
with fingers and long handgrip
Stainless steel AISI 304

Options:
AISI 316

Series 729/2
Repair clamp
Single band with BSP thread
with support plate
Stainless steel AISI 304

Options:
AISI 316

Series 729/20
Repair clamp
Double band
with support plate
Stainless steel AISI 304

Options:
AISI 316
with fingers

Series 729/3-20
Repair clamp
Double band
with flange branching
Stainless steel AISI 304

Options:
AISI 316

Series 729/30
Repair clamp
Triple band
with support plate
Stainless steel AISI 304

Options:
AISI 316

Series 729/3-30
Repair clamp
Triple band with flange branching
with support plate
Stainless steel AISI 304

Options:
AISI 316

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

Options:
AISI 316
width 200 or 400 mm

Series 729/8
Large repair clamp
External
600-2000 mm
Stainless steel AISI 304

Options:
AISI 316
width 200 or 400 mm

Series 712
Flanged fitting
Ductile iron

Options:
various types

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

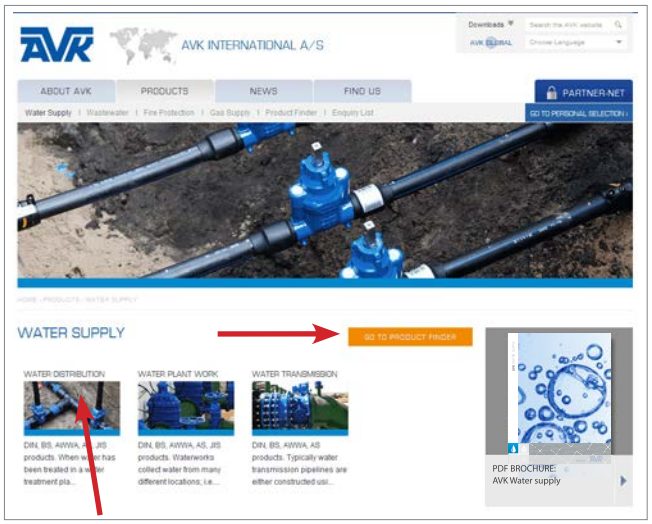
Series 730/3
Universal tapping saddle with shut-off for ductile iron, steel and other metal pipes
DN 50-300
Ductile iron/steel

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

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

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

HOW TO FIND FULL DOCUMENTATION



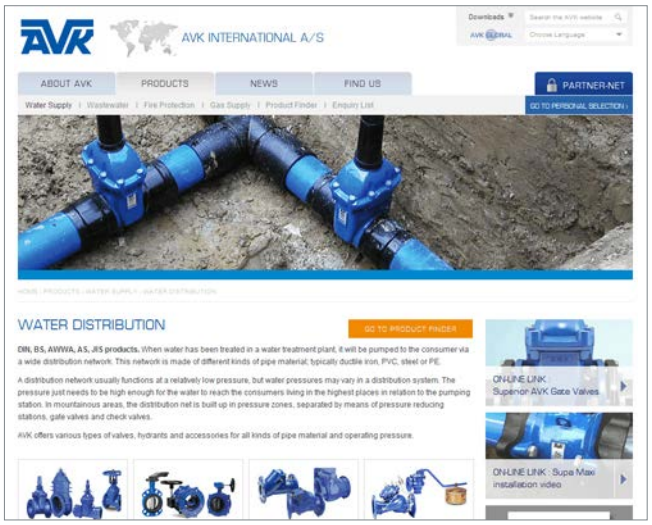
Two paths to our documentation

We have done our utmost to make it easy to find specific product documentation on www.avkvalves.eu.
Please note: (www.avksvmc.com) Product Finder is comming soon and you could follow the same steps..

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:



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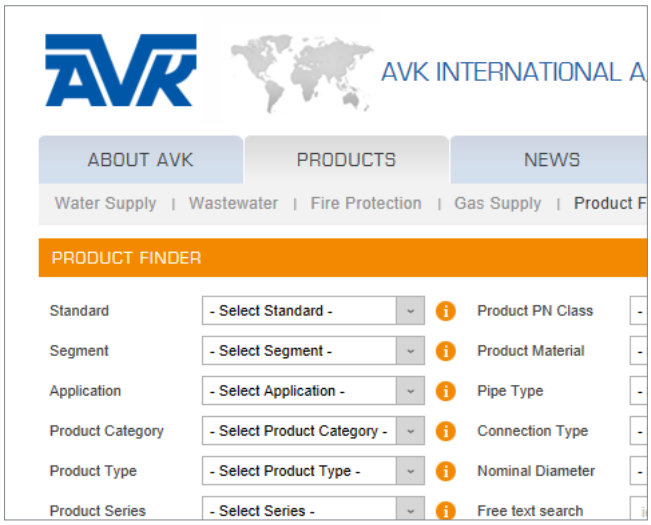

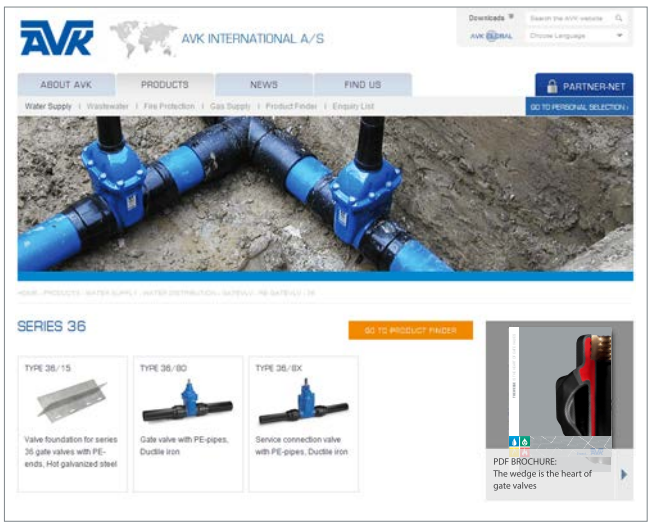

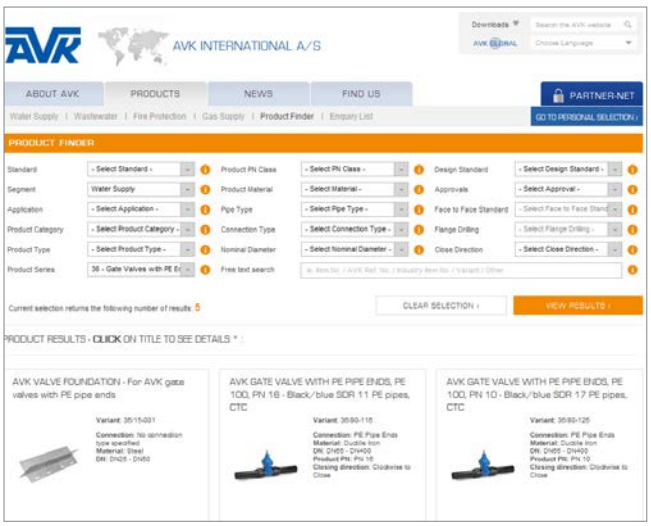

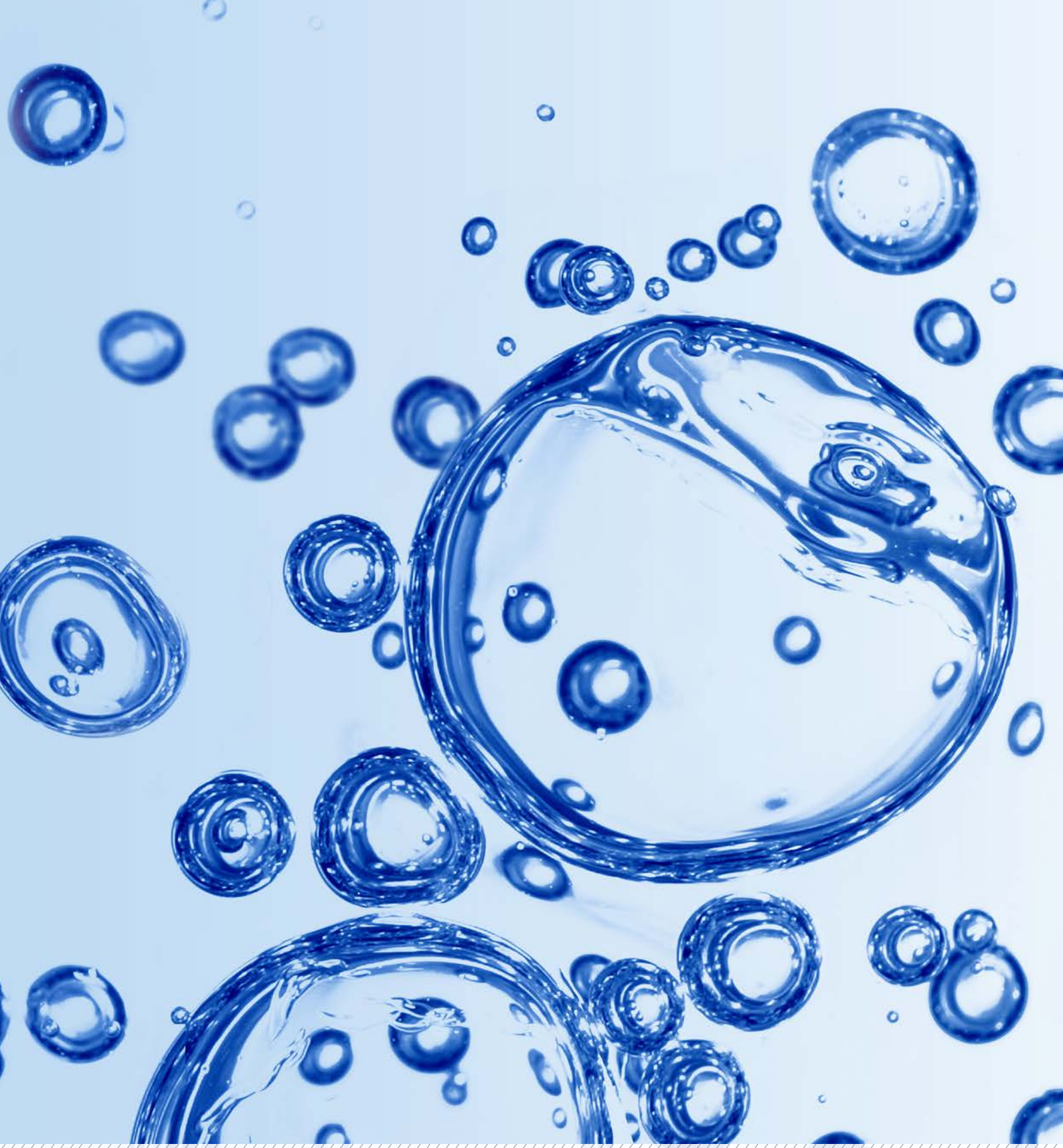

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