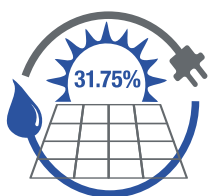




**INDUSTRIAL  
SOLUTIONS PROVIDER  
SOUTHERN AFRICA**

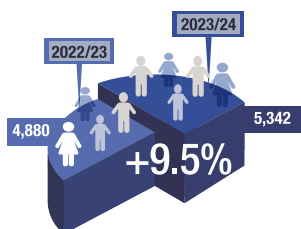




SHARE OF  
renewable energy



SUSTAINABILITY  
function established



NUMBER OF  
employees

# AVK YOUR LONG-TERM PARTNER

AVK Valves south Africa is ready to captain industry for the decades to come. Anchored by unwavering customer support, AVK is ready to be your dedicated partner for your future success and growth.





With manufacturing plants in South Africa and globally we can assist you with your valve requirements. Our extensive product range covers a broad range of valve types, including but not limited to; butterfly valves, knife gate valves, gate valves, check valves, air valves, ball valves, needle valves, penstocks, and accessories.

You can be assured that AVK Valves Southern Africa operates at a high level of efficiency and effectiveness strengthened by our ISO 9001:2015 & ISO45001:2018 Certifications, and our products can be manufactured to meet different International and Local specification requirements (ISO, BS EN, DIN, API, SANS, etc.)

AVK is ranked among the top 10 in the global industrial valve rankings.

#### **The AVK Valves Southern Africa range**

AVK Valves Southern Africa, a valve manufacturing company, has been a leader in the South African valve industry for 30 years. We specialize in manufacturing custom-designed valves at the highest levels of quality, reliability, and value. Here's a summary of our offerings:

We offer a solutions portfolio for the industrial sector that is among the most comprehensive in the world. With the combined expertise of all AVK Group members, we can provide integrated solutions from a single source.

#### **Technical knowledge and experience**

Utilising our extensive technical expertise, we support local projects from inception to final commissioning, backed by our global product specialists who understand complex applications as well as associated customised specialty products. Benefit from our technical know-how ASK AVK Industrial to guide you.

#### **Compliance across the Globe**

Production of our valves all over the world ensures that AVK complies with international and local South African standards. AVK Industrial has a complete package of products available according to DIN, ANSI, SANS and API standards.

#### **Delivery anytime, anywhere**

To fulfill our customer's requirements, we keep a high stock level of a wide range of products in warehouses in South Africa. With significant inventory holdings strategically positioned close to our markets, we can service customers quickly and efficiently. We are ready to deliver you the right product at the right time.

#### **Global leadership and Commitement**

Our global reach extends across various regions, but our core focus remains local.

Our customers benefit from dedicated local sales organizations, including AVK's own sales companies and competent distributors.

By understanding our customers unique requirements, we provide tailor-made solutions that align with local specifications.

Our many years of experience in designing and manufacturing sustainable valves means that AVK Industrial and Premier valves mining can act as a solutions provider for the most demanding applications and projects. Engineers, project, and maintenance managers in the industrial sector rely on high-quality valves.

# THE MARKETS WE SERVE

## YOUR INDUSTRIAL VALVES EXPERT

At AVK Valves Southern Africa, we take pride in offering industrial products that meet the highest safety and durability standards. Our extensive product range is readily available, and we provide comprehensive technical, project, and after-sales support. Challenge us with your complex applications, and we'll deliver solutions that perfectly suit your requirements.

## RENOWNED AVK BRANDS

As part of the AVK Group, we represent a diverse range of AVK brands, including Premier Valves, IPV, Cementation and Gunric, InterApp, INDOIL, Wouter Witzel, ORBINOX, ACOMO and our very own AVK portfolio. This strong combination of brands allows us to offer a comprehensive product line-up.

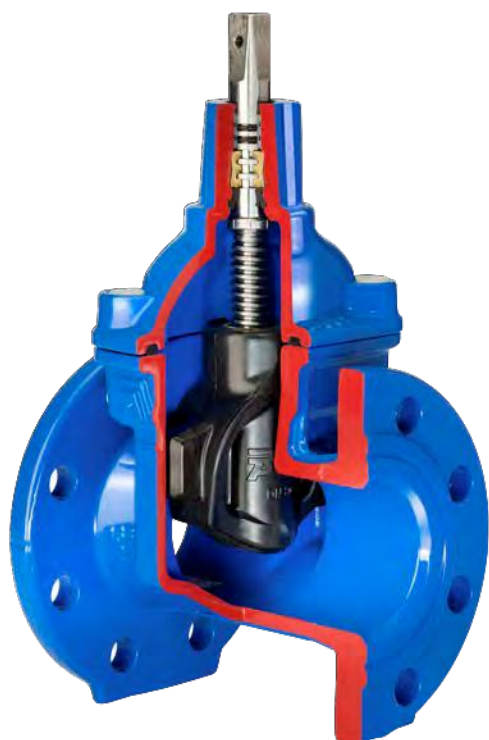
## TAILORED SOLUTIONS FOR VARIOUS INDUSTRIAL SEGMENTS

With vast experience in designing and manufacturing high-quality, durable valves, we provide suitable solutions for demanding applications across various industrial segments. Whether it's water treatment plants, mining, energy generation, or oil and gas industries, our industrial valves ensure a low total cost of ownership.





# 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 vulcanised with AVK's rubber compound offering outstanding characteristics.

The double bonding vulcanisation 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 and malfunction. It is made of low-lead brass according to the stringent EU standards.

#### **Wedge shoes for smooth operation**

The fixed wedge nut and the vulcanised wedge shoes secure a smooth operation of the valve and low operating torques. The wedge shoes protect the rubber against 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.





#### **Tight assembly of valve body and bonnet**

An EPDM bonnet gasket is fixed in a recess in the bonnet to prevent blow-out. 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, and the full and straight bore ensures minimum pressure loss and makes underpressure drilling possible.

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.

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



# GATE VALVES



## Series 21/34

Flanged gate valve  
OS&Y  
EN1092 flange  
PN10/16  
Clockwise to close  
DN50-400  
SABS665



## Series 43/60

Flanged gate valve  
Face-to-face to SANS/  
SABS664  
EPDM rubber  
Ductile iron

### Options:

- Flange drilling to PN16 Tab. D or BS10 D
- Clockwise to open or clockwise to close
- DN50-600



## Series 32/82

Spigot ends gate valve  
For SABS 664 pipes  
Ductile iron  
PN16

### Options:

- Clockwise to open or clockwise to close
- DN50-300



## Series 37/50

Flanged gate valve  
Metal seated  
BS5163  
Ductile iron  
PN16  
Clockwise to close  
DN50-300



## Series 6133

Flanged gate valve  
Metal seated  
Face-to-face to SANS664  
Bare shaft  
PN10-64

### Options:

- Rising or non-rising stem
- Clockwise to close or clockwise to open
- Drinking and Raw Water



## INDOIL Gate Valve

EN, ANSI, GOST, API  
DN 15-DN 1200  
PN 16 -PN 42  
Class 150-2500  
Carbon and stainless steel,  
alloyed steel, bronze, ductile iron,  
duplex, superduplex  
Casted and/or forged

**Types** Bolted Bonnet, Welded Bonnet, Bellow Sealed, Pressure Seal Bonnet

**Outside** screw and Yoke Rising Stem, Inside screw etc.

**Sizes** DN50, DN100, DN1500

**Pressure** PN10/16 - PN420, Class 150#, 300#, 600# TP70

**Material** Carbon Steel, Stainless Steel, Alloy Steel, Ductile Iron, Bronze, Duplex

**Seat** Metal-to-Metal, Soft Seat

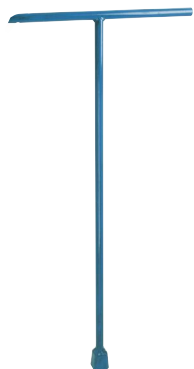
**Connection** Flanged, Threaded, Butt weld ends, Socket weld ends

**Operating** Manual, Pneumatic, Electric, Hydraulic

**Design** API 600, BS 1414, BS 6364, ISO 10434, API 603, API 622-624, ASME B16.34, standard ASME B16.10, EN 12516, EN 1092, EN 558, DIN 3202, EN 1262

**Body** - WCB - Ductile Steel

# GATE VALVE ACCESSORIES



**Series 04/15**  
T-key  
For gate valves  
Steel



**Series Series 04/22**  
Stem cap  
For gate valves, service  
connection valves and  
extension spindles



**Series 08/A**  
Handwheel  
For low-torque gate valves  
With bolt and washer



**Series Series 04/04**  
Extension spindle  
Telescopic  
For gate valves  
Key adapter #23-32



**Series 80/32**  
Synthetic surface box  
Type 4057  
For service connection  
Valves



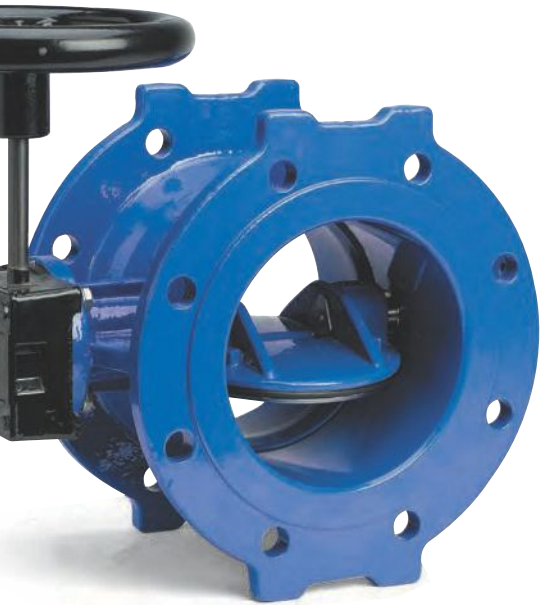
**Series 80/41**  
Synthetic surface box  
Type PURBRA  
For underground hydrants





# AVK DOUBLE ECCENTRIC BUTTERFLY VALVES

## THE SAFE CHOICE



AVK offers double eccentric butterfly valves in DN200-2800 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.

### **Longer service life due to tilted disc**

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

### **Safe disc and shaft connection**

The disc and shaft are connected by means of a key and a keyway. The key is secured with two set screws to prevent fluttering caused by flow velocity and necessary play in the key and keyway connection. In the large dimensions the disc is secured with two stainless steel drive dowels, with key and keyway as back-up.

### **Two 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 to avoid leakages under the seat ring.

### **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 with 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.





### Shaft design features

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 and fluids from outside.

The butterfly valves are fitted with a locking device which makes it possible to lock the disc in open/closed position if gearbox replacement becomes necessary.

The low friction PTFE bearings ensure low operating torques and the protected shaft ends secure durability since there are no uncoated ductile iron surfaces exposed to the media.

### Bi-directional and slim

The valves are bi-directional even though valves from DN700 and up are marked with an arrow indicating the preferred flow direction. The weight is minimised to make handling easier, and to put less strain on the environment.

### Product approvals

The butterfly valves are approved by:

- SPAN
- DVGW
- KIWA
- WRAS

For larger dimensions all components are approved.

### 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.

Up to DN600 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.





# BUTTERFLY VALVES



**Series 75/62**  
Concentric butterfly valve  
Flanged  
Fixed liner  
PN10/16-25  
Bare shaft  
DN50-600



**Series 75/64**  
Centric butterfly valve  
Wafer type w centering lugs  
Fixed liner  
PN10/16  
DN50-350



**Series 75/61**  
Concentric butterfly valve  
Wafer type  
Fixed liner  
PN10/16  
DN400-DN1200



**Series 6137**  
Boving Double Eccentric  
Butterfly Valve  
Soft seal  
S.G. Iron body and disc  
Bare shaft  
PN10-PN40  
Options:  
• Locking Device  
• Coating above 400µ FBE  
• Coating to DN500  
• Seat and Clamp Ring  
• 316 SS A4 bolts  
• Drinking, Waste and cooling water



**Series 820**  
• Body Construction  
B1 Wafer DN 32-600  
B3 Lug DN 32-400  
B4 U-section DN 450-900  
• Face to face dimension according to ISO 5752/20, EN 558-1/20  
• Top flange according to EN ISO 5211  
• Max, working pressure  
16 bar (DN32-150)  
10 bar (DN200-300)  
6 bar (DN350-900)  
• Flange connection  
PN10, PN16, ANSI ci. 150  
AS 2129 table D + E and others



**Series 6145**  
Gunric triple eccentric  
butterfly valve  
Metal and laminated seated  
PN6-PN100  
Options:  
• WCB or ductile iron body  
• DN150-3000



**Series 6144/02-001**  
ASTM A216 WCB  
AVK Butterfly Valve, Wafer  
Rubberlined BFV  
Fixed Liner  
PN25  
DN50 - DN150 Lever Operated  
DN200-DN600: Gearbox Operated

A butterfly valve is a shut-off valve with a relatively simple way of operating. A quarter turn takes the valve from fully open to fully closed position and vice versa. AVK offers one of the widest ranges of butterfly valves in the market reflecting our customers' requirements.

This includes centric, double excentric, triple excentric with vulcanized liner, loose liner, as well as Metal-to-Metal. We offer a wide variety of material configurations for each of these types as well as any type of actuation.

**Types** Centric loose liner, Centric vulcanized, Double eccentric, Triple eccentric

**Sizes** DN 25 - DN 3000, 1" - 40"

**Pressure** PN6 - PN100, Class 150# - 600#

**Material** Carbon Steel, Stainless Steel, Bronze, Duplex, Ductile iron

**Seat** Metal-to-Metal, Soft Seat, Laminated

**Connection** Wafer, Lug, Flanged, Mono-Flanged

**Operating** Manual, Pneumatic, Electric, Hydraulic

**Design** EN593, API 609, ISO 5211, EN 15848-1, FDA EC 1935/2004, ISO 10497, API 607, standard DIN 3780, MSS SP-143, BS 6755 part 2, BS 6364, ASME B16.34, ASME B16.10, EN 12516, EN 1092, ASME 16.5, ASME B16.47, ISO 5752

# AVK SWING CHECK VALVE UNIQUE DESIGN



AVK swing check valves are available in DN 50-1000 and feature full bore and low head loss, as well as easy access to maintenance and a great durability. The swing check valves can be installed in both horizontal and vertical positions.



## 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.

## Feature summary

- Full bore ensures low head loss when fully open
- Full bore prevents pressure loss allowing maximum utilization of pump capacity
- Bonnet/disc design gives easy access to maintenance
- Fully rubber coated disc prevents corrosion and ensures drip-tight closure and long life
- 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
- Ductile iron epoxy coated to DIN 30677-2
- Available with or without lever and weight
- Other options available complete with limit switch







#### **Resilient seated disc with Stainless Steel hinge.**

The valve is ideal for installation in the horizontal position and used where there is an insignificant risk of water hammer. This design features a distinctly low head loss and is used in installations, where the dry matter percentage is max. 10%. Optimum sealing at not less than 0.5 bar pressure. The valve is suitable for underground installation.

#### **Swing check valve with external lever and weight plus limit switch.**

Cam operated IP66 limit switch. Mechanical roller plunger with the ability to easily set the cam at any given position. Maintenance free and vibration resistant cage clamp terminals. Key and keyway as back-up.



To achieve the optimum performance from any swing check valve, a velocity of 1.5 to 2m/s is required to fully open the valve, and to reduce turbulence a straight piece of pipe five (5) times

#### **Swing check valve with external lever and weight.**

For installations with an insignificant risk of water hammer, but where the minimising of head loss is important. The lever is also useful as an indicator of the valve disc position. The valve is suitable for horizontal and vertical installations.

#### **Large diameter metal seated check valve.**

This valve is ideal for potable water and sewerage applications and suitable for temperatures up to 70°C.

The body, bonnet, hinge and metal seated disc are all constructed with high grade Ductile Iron to EN 1563, EN-GJS-500-7. The seat is aluminium bronze.



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

# CHECK VALVES



**Series 53/30**  
Ball check valve  
MJ/thread  
NBR lined ball  
PN10/16  
DN32-50



**Series 53/35**  
Ball check valve  
Flanged  
NBR liner  
PN10/16  
DN50-600



**Series 6135**  
Non-return recoil valve  
Multi-door  
Metal seated  
PN25  
DN600



**Series 6146**  
Gunric tilting disc check valve  
Metal seated  
PN10-40  
DN200-800



**642/60-003**  
Split door swing check valve,  
wafer type, fixed liner



**6143/03-001**  
IPV Wafer Check Valve,  
Single Door, WCB and  
CF8M disc, class 150 and 300  
fits ASA300



**ACMO Nozzle Check**  
Flanged  
Ductile iron  
Dn400 -DN600  
PN10- PN100



**RM Check Valve**  
Wafer type  
Stainless steel  
Metal seated  
DN40- DN900  
PN10 -Pn40  
Options: With counter  
lever and Weight of Spring

Check valves prevent back flow of media in a pipeline system. It is a one way valve, which will close in case of back flow to protect the piping, other valves or pumps.

There are various types of check valves available for different applications. AVK offers a wide range of swing, ball, piston, tilting disc valves and nozzle and non-slam check valves

**Types** Swing, Ball, Tilting disc, Nozzle

**Sizes** DN 15 - DN 1200, 1/2" - 24"

**Pressure** PN10 - PN16, Class 150# - 2500#

**Material** Carbon Steel, Stainless Steel, Bronze, Duplex, Ductile iron

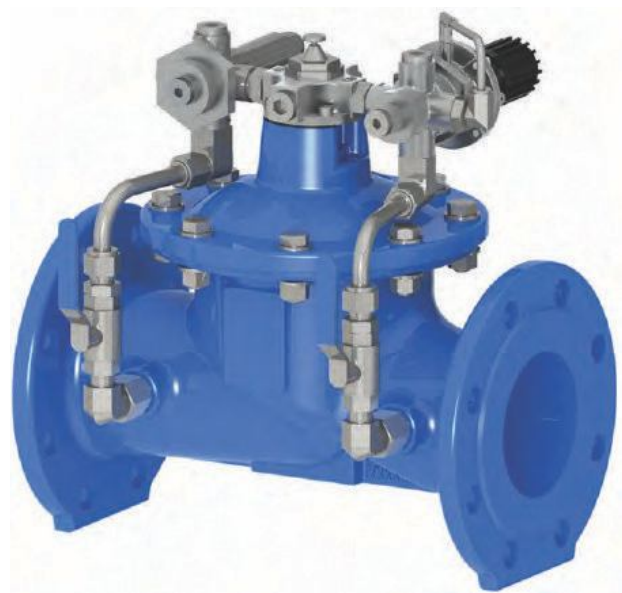
**Seat** Metal-to-Metal, Soft Seat

**Connection** Wafer, Flanged, Threaded

**Design** API 600, BS 1868, API 594, API 6D, ISO 10434, API 602, ASME B16.34, standard ASME B16.10, EN 12516, EN 1092, EN 558, DIN 3202, EN 12627



# AVK CONTROL VALVES DIAPHRAGM OPERATED



Water is a scarce resource that we need to protect. We need to secure water for the next generations and a growing population. Control valves can help reduce water losses and contribute to efficient water supply management by maintaining a certain pressure, flow or level, regardless of changes in the supply network.

## The safe choice with 10-year warranty

AVK diaphragm operated control valves are designed according to EN 1074-5 and to provide network stability, accurate regulation, easy maintenance and long durability.

AVK control valves are available in DN50-600, with reduced and with full bore. Control valves with reduced bore are appropriate for most applications, as the smaller bore often offers more accurate regulation. Control valves with full bore are recommended, if high Kv values are needed, e.g. in front of hydrants.

## High quality WRAS approved materials

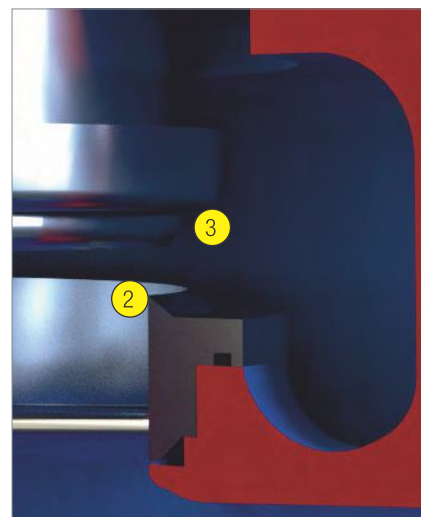
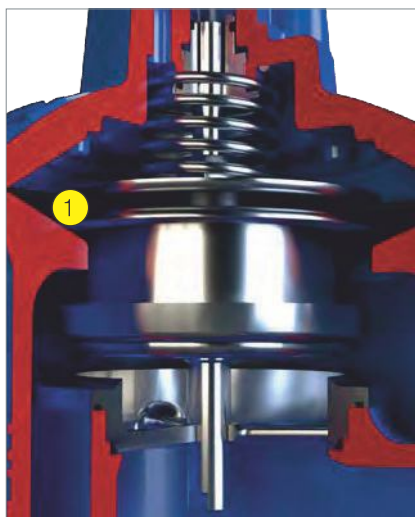
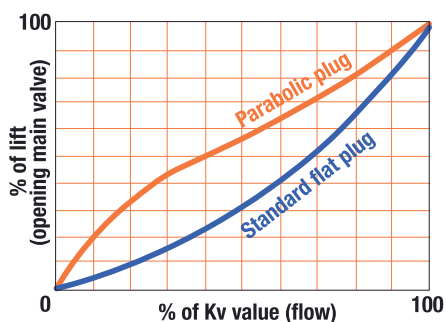
The body and bonnet are made of ductile iron with fusion bonded GSK approved epoxy coating.

The diaphragm is manufactured by AVK GUMMI and made of drinking water approved EPDM rubber with polyamide reinforcement.

All non-coated internals are of stainless steel AISI 316 as standard and all materials are WRAS approved.

## Design features of the valve

- Large diaphragm design (1) secures fast reaction to changes in pressure. Its asymmetric axial position gives less stress near closed position.
- Lifted seat design (2) prevents damage inside the valve body caused by cavitation.
- Parabolic plug design (3) provides precise regulation and stability at low flow. Furthermore, it reduces noise and vibration. See below characteristics, illustrating the performance compared to a standard flat plug design.



# CONTROL VALVES



**Series 6139 - Baker**  
Baker control valve  
PN25-40  
Numerous control options, contact AVK for more information  
DN50-500  
Drinking Water



**Series 6139/007-003**  
Baker control valve  
Bi-level control valve  
PN40  
Differential Float  
DN50-500  
Drinking Water



**SERIES 869/200X-001**  
AVK Pressure Reducing Control Valve  
For use in water  
DN50-300  
PN16  
Ductile Iron  
BS EN 681-1  
WRAS approved materials.



**Series 854**  
Ball float valve  
Lever and float of PP  
DN50-300  
PN16  
Ductile iron

Options:  
• Lever and float of stainless steel





# KNIFE GATE VALVES



## 779/X-084

Knife gate valve, short wafer type, VG model  
handwheel/gearbox, 6-10 bar  
Various material options available



## 779/65-001

Heavy duty knife gate valve, long, WG model  
handwheel/gearbox, 6-10 bar  
Various material options available



## 779/68-001

Knife gate valve, long, HG model  
handwheel/gearbox, class 150, 20 bar  
Various material options available



## Series 779/91

Knife gate valve, short wafer type  
handwheel/gearbox, 5-10 bar  
Various material options available

Knife gate valves are mainly designed for open/closed applications and to isolate specific sections in pipelines. Knife gate valves are particularly suitable for solids, sludge, viscous, corrosive, and abrasive media. The valves have a minimal pressure dropping fully open position, are easy to operate, have a relatively low weight and are cost effective. **(Other designs available on request.)**

Knife gate valves is suitable for a wide range of applications. We offer knife gate valves with lever, handwheel, pneumatic or electric actuation.

**Types** Uni-directional, Bi-directional, Heavy duty

**Sizes** DN 50 - DN 1800, ASME 2" – 36"

**Pressure** PN6 - PN25, ANSI 125#, Ansi 150#, Ansi 300#

**Material** Ductile Iron, Stainless Steel, Duplex, HC

**Seat** Metal-to-Metal, Soft Seat

**Connection** Wafer, Lug, Flanged

**Operating** Manual, Pneumatic, Electric, Hydraulic

**Design** MSS SP-81, TAPPI TIS 405-8, EN 558, EN 1092

**Standard**

**Body** CI-Ductile - SS, WCB

# BALL VALVES



## 6142/02-002

1 pc full bore, raised face  
ANSI flanges, F533, CF8M  
body and ball, SS 316 stem,  
RTFE seats, graphite packing,  
hand lever, class 150



## 6142/02-003

1 pc full bore, raised face  
ANSI flanges, F544/Alloy 20  
body, Alloy 20 ball and stem,  
RTFE seats, graphite packing,  
hand lever, locking device,  
class 150



## 6142/03-001

2 pc full bore, raised face  
ANSI flanges, F523 Body and  
adaptor WCB, Ball and stem  
SS 316, RTFE Seats, graphite  
packing, manually operated  
lever/gear.  
Flanges as per ANSI Class  
150 – ASME B16.34, Design  
in accordance with API 508 &  
ANSI B16.10.



## 6142/03-002

2 pc full bore, raised face  
ANSI flanges, F533 Body and  
adaptor CF8M, Ball and stem  
SS 316, RTFE Seats, graphite  
packing, manually operated  
lever/gear.  
Flanges as per ANSI Class  
150 – ASME B16.34, Design  
in accordance with API 508 &  
ANSI B16.10.



## 6142/04-001

Series 6142A IPV R623, Ball  
valve, Reduced Bore, 1 Piece  
design, Body WCB, Ball 316  
SS, RTFE seats, Manually  
operated, Flanges as per  
ANSI Class 300, Design to  
ANSI B16.10



## Indoil Ball Valve

Floating ball, trunnion mounted, 2-way, 3-way  
Flanged, wafer, threaded, SW, BW  
EN, ANSI, GOST, API  
DN 15 - DN 1000, 1/2" - 40"  
PN 6 - PN 250, Class 150 – 1500  
Carbon and stainless steel,  
alloyed steel, bronze, duplex,  
superduplex  
Casted and/or forged

Ball valves are used to control the flow of media. These valves are widely used in various industries due to their exceptional reliability, versatility, and ease of operation. AVK has a wide range of industrial ball valves, which are also suitable for corrosive and cryogenic media. We offer different types of ball valves with 1-piece body, 2-piecebody, 3-piece body, top entry, floating and trunnion mounted ball.

### Types 1 Pc, 2 Pc, 3 Pc

Top Entry

Floating Ball

Trunnion Mounted

Sizes DN 15 - DN 250

Pressure PN10 – PN40, Class 300#

Material Carbon Steel, Stainless Steel, Alloy Steels, Brass, Bronze, PE, Lined PTFE, PFA

Seat Metal-to-Metal, Soft Seat Connection Wafer, Flanged, Threaded, Welded ends

Operating Manual, Pneumatic, Electric, Hydraulic

Design API 6D, BS 6364, ISO 10434, BS 5146, ISO 15848, API 600/6FA, ISO 10497 standard ISO 14313, ISO 5211, ASME B16.34, ASME B16.10, ASME B16.5, EN 12516, EN 1092, EN 558, DIN 3202, EN 12627



# PENSTOCK, AIR VALVE AND Y STRAINER



**Series 772**  
Wall-mounted penstock  
Closed frame  
Non-rising stem  
Bi-directional  
DN200-1200  
Options: Channel and  
Wall mounted



**Series 851**  
Double orifice air valve  
with  
VNR valve  
Ductile iron  
EPDM rubber, WRAS  
approved



**Series 910**  
Y-strainer  
Stainless steel screen  
PN16-25  
DN50-600

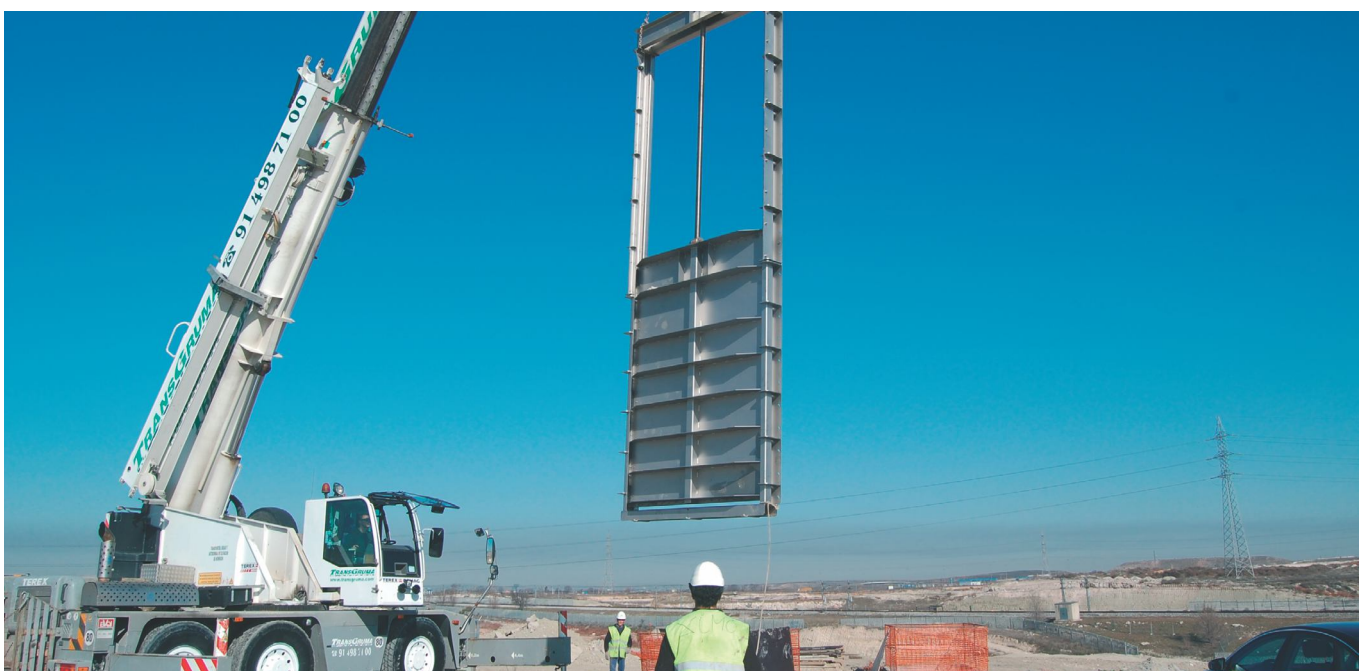
## WALL MOUNT PENSTOCK

The ORBINOX model MU is a 4-sided sealing slide gate. The gates are suitable for different types of applications with a highly versatile flow control for waste water treatment plants, irrigation, hydraulic works and hydro-electric power plants.

From sizes 6" x 6" (150mm x 150mm) to 48" x 48" (1200mm x 1200mm), the MU model has a unique seal design that can achieve minimal equal seating and unseating (bidirectional) leakage rates. Sizes 52" x 52" (1300mm x 1300mm) up to 80" x 80" (2000mm x 2000mm) are available in both uni-directional (only suitable for seating water heads) and bi-directional configurations.

The leakage rate is 50% or better of the maximum allowable recommended by AWWA (C561-04) under normal conditions. Orbinox also designs and manufactures the MU Slide Gate in larger sizes, for more demanding service conditions and maintains a leakage rate below the allowable standard from AWWA. For more information please contact an Orbinox representative.

All Orbinox actuators can be yoke or pedestal mounted.



# CEMENTATION VALVES



## 6127/06-001

Cementation High pressure Plug/Cock Valve, 1 1/2" bore (40 mm), 2" hub for hub clamp, copper seal, nylon packing  
Steel



## 6127/07-001

Cementation High pressure Plug/Cock Valve, 2" bore (55 mm), 2" x 2 1/2" female/male BSP, nitrile seal, nylon packing  
Steel



## 6127/08-001

Cementation High pressure Plug/Cock Valve, 2" bore (46 mm), 2" female BSP, nitrile seal, nylon packing  
Steel



## 6127/09-001

Cementation High Pressure Plug/Cock Valve, 2" bore (42 mm), OD235mm / ASA600 connection, nitrile seal, nylon packing  
Steel  
F/F 260 mm.



## 6127/11-001

Cementation High pressure Plug/Cock Valve, 2 1/2" bore (63.5 mm), 3" female BSP, nitrile seal, nylon packing  
Steel



## 6127/12-001

Cementation High pressure Plug/Cock Valve, 3" bore (77 mm), 3" thread female/male BSP, nitrile seal, nylon packing  
Steel  
Also available in 80 mm bore (blue colour)



## 6127/13-001

Cementation High pressure Plug/Cock Valve, 2" bore (55 mm), 2" x 2 1/2" female/female BSP, nitrile seal, nylon packing  
Steel



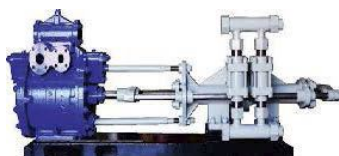
## 6127/15-001

Cementation High pressure Plug/Cock Valve, 3" bore (80 mm), 3" x 4" female/male BSP, nitrile seal, nylon packing



## 6127/16-001

Cementation High pressure Plug/Cock Valve, 2" bore (55 mm), 2" x 2 1/2" female/male BSP, nitrile seal, nylon packing



CEM - MK V HP  
Grouter and Cementation pump  
Pneumatic & 14",  
Air end with Base

Ram stroke: 300mm  
Ideal speed: 60 Cycles/min  
Air inlet pressure: 552 Kpa (80psi)  
Approx volumetric efficiency: 80%  
Approx pump weight: 1200kg  
Options  
Hydraulic



## Double Drum Mixing grout

Capacity: 275L  
Driven by 3/4hp, 0.5 kw cylinder radial type compressed air motor  
Feature to a double drum fitted with screens for sizing. If the mixer is used for light concrete work The air motor air line is fitted with a sand trap and airline lubricators.  
Mass 350kg  
Double drum mixer is also available with 3kw electric motors instead of the air meter.



Pilot Safety Dewatering Board



# AVK INDUSTRIAL BRANDS



**AVK is market leader in valves, hydrants, and accessories.**

With more than 80 years experience. AVK is renowned worldwide for high quality valves and hydrants. We contribute to sustainable solutions within supply of clean drinking water, reduction of water loss, collection and treatment of wastewater, distribution of gas and biogas, and efficient irrigation and firefighting.



**The Premier brand is well established in the water industry**

delivering quality products to the local market for over 60 years in water transmission lines, dams, reservoirs, hydropower and cooling water for coal power stations.



**The Cementation high pressure cock valves is a key part**

for safe underground mining operations and have been supporting the local mining sector for the past 50 years and also offer safety pilot underground de-watering unit cages plus MK V high pressure pumps to seal the deal.



**Industrial Petroleum Valves' products were designed for**

heavy duty, difficult and critical applications in mind for the Chemical, Petro-chemical, mining and slurry segments. The first valves were introduced to the market 30 years ago.



**The Gunric brand has built an impressive install base**

across many market segments for the past 30 years with reliability and quality in tough applications and harsh conditions in water transmission lines, waste water, cooling water in power plants, chemicals, steam and gas applications.

# AVK INDUSTRIAL BRANDS



## ORBINOX

**designs and manufactures  
knife gate valves for flow control  
processes.**

With more than 60 years of experience, Orbinox offers pen-stocks/slucice gates and dampers which cover a variety of applications. We have a highly qualified and experienced team providing the best solutions to suit the needs of customers.



**Wouter Witzel is a leading manufacturer  
of vulcanised butterfly valves.**

A Dutch manufacturer of vulcanised bonded concentric butterfly valves and actuators. With 65 years of experience, Wouter Witzel is able to meet the most stringent demands in the market and offer customised solutions for almost every industrial application.



**InterApp designs, produces, and  
sells high-quality valve solutions  
worldwide.**

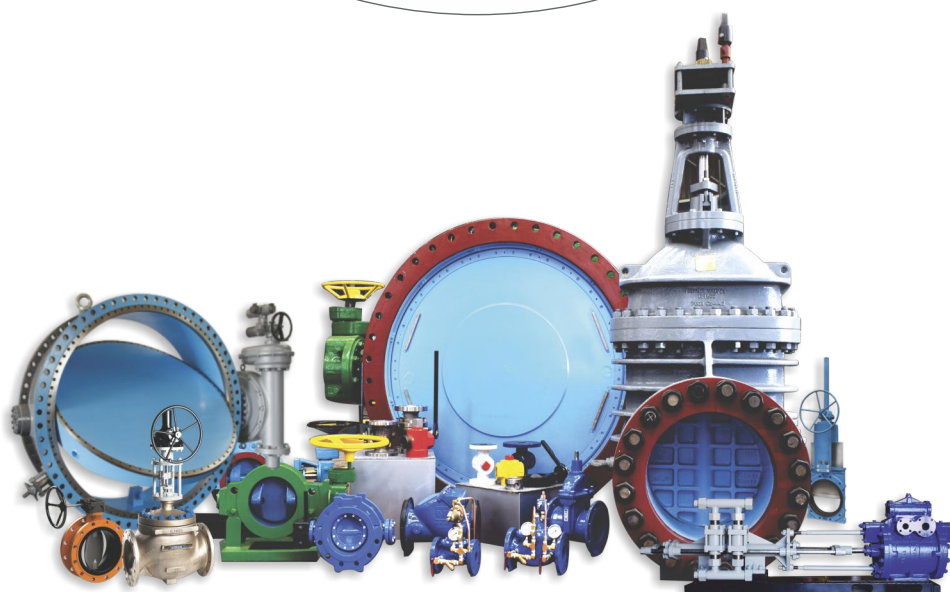
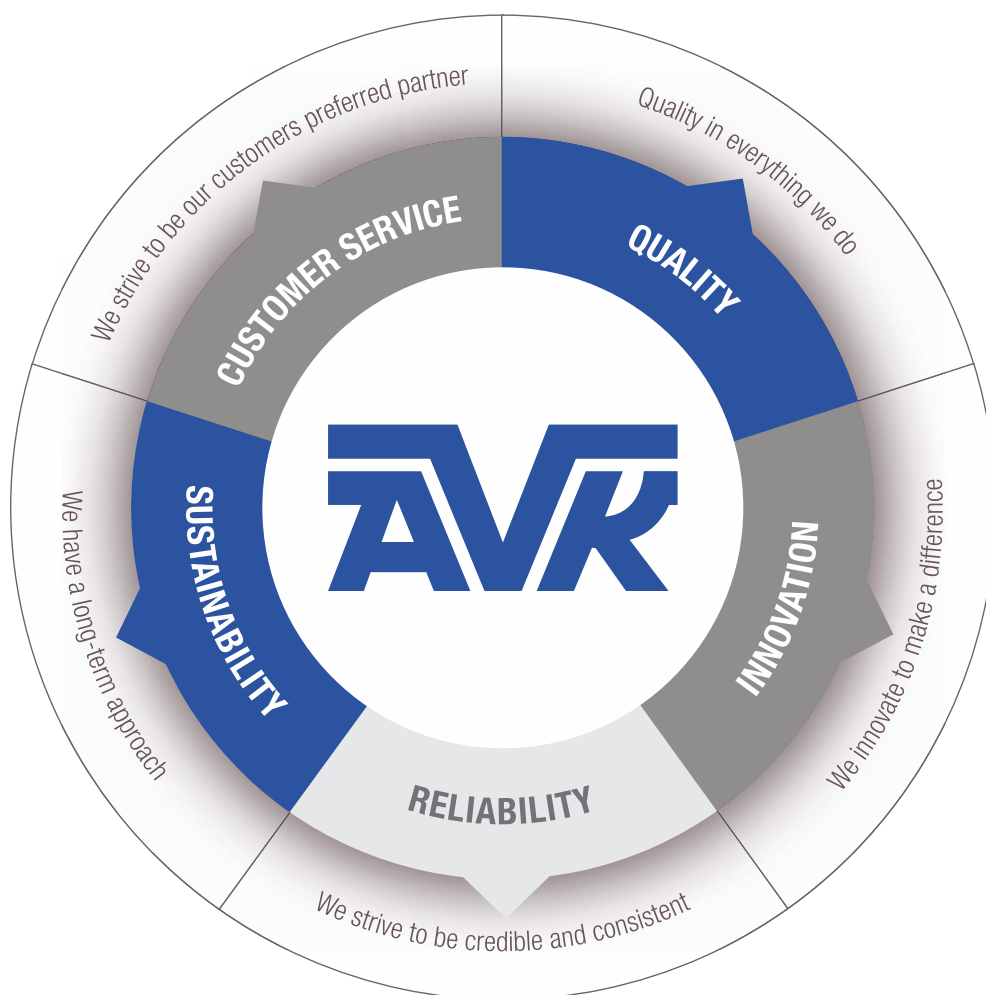
With more than 50 years of experience, InterApp valves are used in the most demanding applications and industries, helping you transport and regulate liquids, gases and solids in the safest way possible.



**OMV-INDOIL designs and produces  
high-performance valves.**

With more than 30 years of experience in producing high-performance valves in various materials, OMV-INDOIL delivers specialised solutions according to customer's requests within the oil & gas, chemical processing and energy sector.

# OUR VALUES





# QUALITY IN EVERY STEP



At AVK Valves Southern Africa, we implement stringent quality control measures throughout each stage of the manufacturing process.

Our products undergo type testing during the design phase to ensure they meet established criteria for strength, operation, and endurance. During assembly, we conduct dimensional and visual inspections, followed by a series of production tests in accordance with standard requirements.

## Stock and distribution

AVK Valves Southern Africa's logistics center excels in managing stock and distribution efficiently. We have an extensive range of products in stock to meet our customers' requirements for both projects and day to day business.



## Own Rubber Factory

AVK GUMMI, our own rubber factory, has been producing high-performance rubber components for demanding applications for more than 40 years. The manufacturing system includes precise control over each rubber compound, full traceability, SPC control, FMEA, and an exceptionally clean production environment.

## Inhouse R & D

In our Development Department in Denmark, we continuously gather ideas and suggestions for new products while updating existing ones. We utilize Finite Element Analysis (FEA) to optimize the strength and geometry of our components, and Computational Fluid Dynamics (CFD) analyses to validate different product designs before creating physical prototypes. This approach allows us to predict outcomes in scenarios where full-scale physical tests are not feasible. We design and manufacture our own test and production equipment. In our flow lab, we conduct comprehensive prototype and life cycle tests before releasing products for production. Additionally, new product types are typically field-tested in collaboration with end users before their final launch.

## ISO Certification - Third party Certification

AVK Valves Southern Africa operates efficiently, adhering to ISO 9001 :2015 and ISO 45001 :2018 certifications. AVK Valves Southern Africa products meet international and local specifications when required.

# EXPECT US TO COMPLY TO INDUSTRY STANDARDS



## Third party certification

Authorities such as DVGW (Germany), KIWA (Netherlands) and UL & FM (the US) offer certification of finished valves, and these are also recognized and accepted by other countries that do not have their own certification schemes.

By obtaining and maintaining the most widely accepted certification, we show our customers that AVK valves always meet the highest quality and safety standards.

## Expect... AVK

In our business there are five cornerstones that must be in place in order to meet customer expectations: Quality, reliability, innovation, sustainability and customer service.

But we need to go further than that. We go further to exceed our customers' needs and expectations.

"Expect... AVK" means that our customers should rightfully expect us to exceed market standards. "Expect... AVK" means that we relentlessly strive for increased customer benefits!

To ensure that we keep pushing the boundaries of what the market can expect, we have formulated promises that we will strive to deliver in all our markets:

- EXPECT** A LONG-TERM PARTNERSHIP
- EXPECT** QUALITY IN EVERY STEP
- EXPECT** LASTING INNOVATIONS
- EXPECT** TOTAL SAVINGS
- EXPECT** SOLUTIONS, NOT JUST PRODUCTS
- EXPECT** GLOBAL LEADERSHIP AND LOCAL COMMITMENT
- EXPECT** PROMPT RESPONSE
- EXPECT** IT TO BE EFFECTIVE AND EASY

See more on [www.avkvalves.co.za](http://www.avkvalves.co.za)



# OUR TRAINING FACILITIES AT THE ACADEMY

AVK Holding established The Academy in September 2016. The Academy is an in-house training facility with a 40-seater seating capacity.

The institute showcases an impressive flow lab which demonstrates the flow of water through a series of valves allowing attendees to gain a comprehensive understanding of water related processes.

## Get equipped through our Product Courses

Since its establishment, three product courses have been launched; The Valves Fundamentals Course, which provides a sound introduction to acquire an essential knowledge of valves, in theory and practice, and The advanced Valves Course which provides greater insight into principles and practices that address the theories of fluid pressure, fluid flow and field applications.

The Technical Training Course will further the understanding of a range of issues related to industry practical problems and will broaden the horizon of design and consulting engineers, plant operators, engineering students, maintenance personnel and persons dealing with valves.

The course is registered through ECSA and qualifies for 2 CPD points for professionals. (SAIMech-E -1350-01-23).

Valves function as mechanical devices to control the flow and pressure within a system or process.

They are essential components that convey different mediums in different environments. It is of paramount importance that the correct valve is specified for the right application and making the right decision makes a world of difference.

The Academy, a training institute, makes a difference in the world of valves by offering accredited courses, compiled by a team of engineers with a wealth of experience.





# THE AVK GROUP GLOBAL PRESENCE

The AVK Group is a privately owned industrial group currently comprising +100 companies worldwide. We develop and produce valves, hydrants and accessories for water and gas distribution, sewage treatment and fire protection.

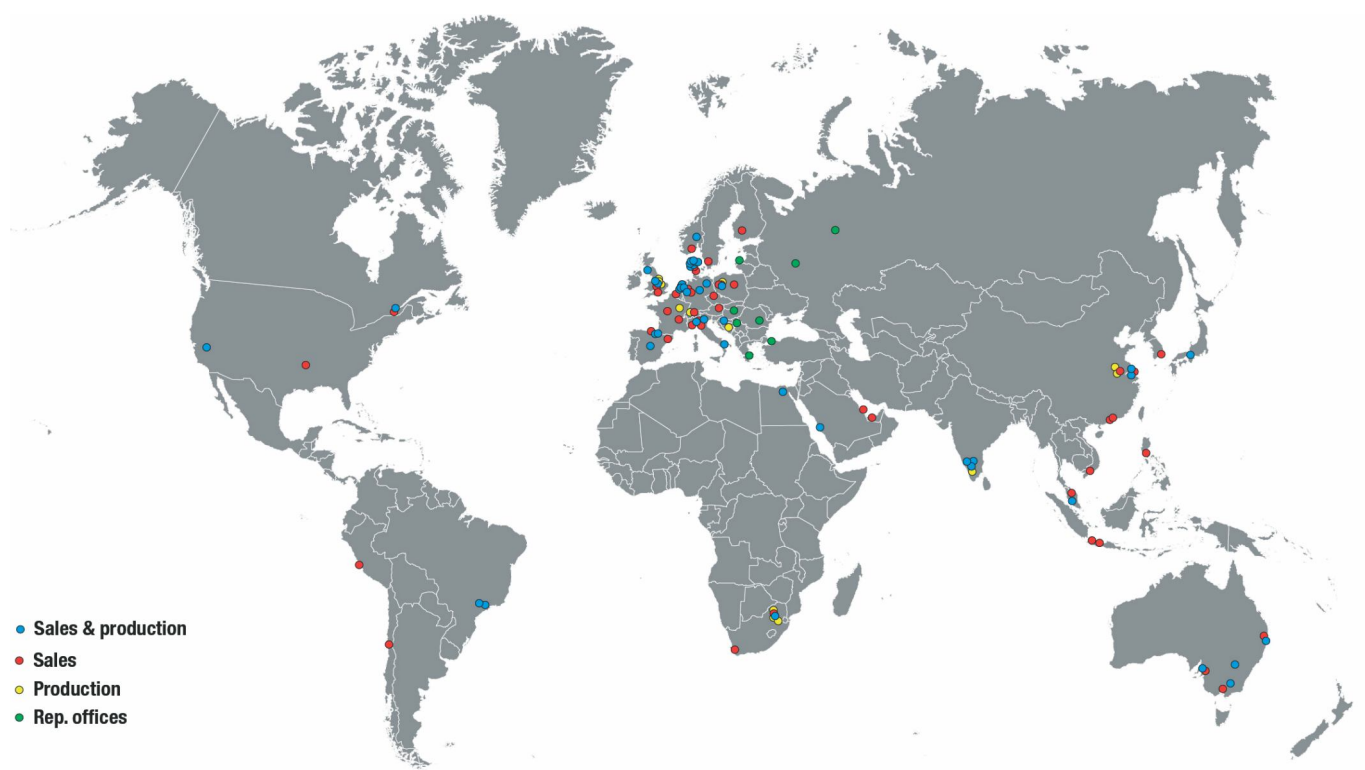
AVK has built up strong brands supplying products and solutions for various industrial sectors and within advanced manufacturing.

Our products are designed to meet international standards and are sold worldwide.

When dealing with the AVK Group expect quality, reliability, functionality and long lifetime in service.

AVK is global in scale when it comes to manufacturing and design.

We serve our customers locally, offering full-line partnership and a single entry point to a world of quality solutions.



1941

Established as a local machine shop in Denmark

+4,800

Employees worldwide

+100

Companies in the Group

1,065

Million EUR of turnover

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