

**AVK** WATER SUPPLY - PRODUCT RANGE

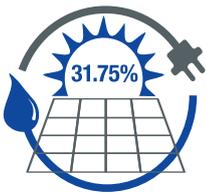


**YOUR WATER SUPPLY  
SOLUTIONS PROVIDER  
SOUTHERN AFRICA**





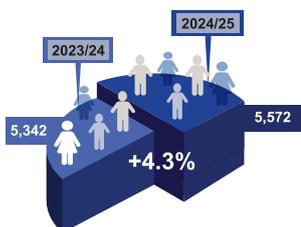
# AVK YOUR LONG-TERM PARTNER



**SHARE OF**  
renewable energy



**SUSTAINABILITY**  
function established



**NUMBER OF**  
employees

AVK Valves Southern 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.



AVK Group stands as one of the world's foremost valve manufacturers. Our Water Division specializes in valves and accessories for water distribution, wastewater treatment, and fire protection. Meanwhile, our Industrial Division focuses on water treatment valves for industrial applications. With our specialised subsidiaries, we offer a comprehensive product range suited for high temperatures and high-pressure applications.

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 specialise in manufacturing custom-designed valves at the highest levels of quality, reliability, and value. Here's a summary of our offerings:

Reliability and purity are paramount in water supply. AVK products are celebrated for their superior quality, driven by our market-leading expertise in rubber compounds. With our own vulcanisation and coating facilities, combined with worldwide approvals for drinking water, we ensure maximum safety and durability.

With 30 years in the valve industry, AVK Valves Southern Africa now offers solutions for various applications. Our extensive range includes gate valves, butterfly valves, control valves, check valves, needle valves, air valves, service

connection valves, and hydrants. Additionally, we provide flange adaptors, couplings, fittings, tapping saddles, repair clamps, surface boxes, and valve accessories.

### **Global leadership and Commitment**

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.

# CORE BUSINESS

## PART OF VITAL INFRASTRUCTURES

AVK, a global leader, has been providing gate valves to the water supply sector since its establishment in 1996. Our extensive product range includes gate valves, butterfly valves, check valves, air valves and more.

AVK remains a trusted supplier to the Water Treatment, Water supply and Wastewater Treatment industries offering a wide range of valves adhering to all major standards and providing customised solutions.

## AVK VALVES SOUTHERN AFRICA

- **Valves provision of uncontaminated drinking water** and prevention of water wastage in the distribution network.
- **Valves are efficient for the treatment and management of wastewater** from both households and industries.



**SUSTAINABLE  
DEVELOPMENT  
GOALS**

# SECURING RELIABLE WATER SUPPLY WITH AVK VALVES

Water is the foundation of life, community, and progress. From households and schools to industries and agriculture, reliable access to clean water sustains health, drives economic growth, and supports sustainable development. Ensuring this supply requires a complex network of infrastructure pipes, pumps, reservoirs, and valves all working seamlessly together to deliver water where it is needed most.



AVK Valves play a vital role in this system. Designed for durability, precision, and safety, our valves help secure water distribution networks against leakage, contamination, and service interruptions. By maintaining consistent flow and pressure, they safeguard the integrity of supply lines and ensure that communities can depend on water every day.

As global demand for water continues to rise, efficiency and resilience in supply systems are more important than ever. AVK's commitment to innovation and quality ensures that municipalities, utilities, and industries can meet these challenges with confidence. With solutions tailored to modern infrastructure, AVK Valves stand at the heart of reliable water supply today and for generations to come.

## Water Supply

### Extraction Phase

This phase focuses on sourcing and capturing raw water from natural or engineered systems.

- **Water Sources** – Rivers, dams, reservoirs, boreholes, and groundwater aquifers.
- **Screening & Pre-filtration** – Removal of large debris, sand, and suspended solids to protect downstream equipment.



- **Pumping & Conveyance** – Reliable pumps and AVK valves regulate flow from source to treatment facilities.
- **Flow Control & Safety** – Valves ensure stable pressure, prevent backflow, and safeguard infrastructure.

*Outcome:* Secure and controlled extraction of raw water, ready for treatment and distribution.

### Transformation Phase

Once extracted, water undergoes treatment to meet drinking water standards.

- **Coagulation & Flocculation** – Chemicals bind fine particles into larger clusters for easier removal.
- **Sedimentation & Filtration** – Settling tanks and sand/activated carbon filters remove impurities.
- **Disinfection** – Chlorination, UV, or ozone treatment eliminates harmful microorganisms.
- **Advanced Treatment** – Membrane filtration or reverse osmosis for high-purity applications.
- **AVK Valve Applications** – Precision valves regulate chemical dosing, filtration flows, and distribution pressure.

*Outcome:* Transformation of raw water into safe, clean, and reliable drinking water for communities and industries.

# WATER PLANT WORK



## Water Plant Work: Ensuring Safe and Efficient Water Distribution

Water treatment plants play a vital role in ensuring communities have access to clean, safe, and reliable water. From purification to distribution, these facilities process raw water from natural sources, removing impurities and contaminants before delivering it for residential, commercial, and industrial use.

Water treatment involves several key processes:

- **Collection and Intake:** Water is sourced from rivers, reservoirs, or underground wells and transported to treatment facilities.
- **Screening and Pre-Treatment:** Large debris and sediments are removed through screening and sedimentation.
- **Purification and Filtration:** Chemicals and filtration systems eliminate bacteria, chemicals, and other pollutants, ensuring the water meets safety standards.
- **Disinfection:** Chlorination or ultraviolet (UV) treatment ensures harmful microorganisms are eradicated.
- **Storage and Distribution:** Treated water is stored in reservoirs and transported via pipelines to households and businesses.



AVK Valves Southern Africa's Key Products and Contributions.

As a leading supplier of high-performance valve solutions, AVK Valves Southern Africa plays a crucial role in supporting water supply network with innovative products designed for efficiency and durability.

### Key Products

- Gate Valves – Ideal for Isolation.
- Butterfly Valves – Essential for managing large-scale distribution.
- Check Valves – Preventing backflow, these valves maintain system integrity.
- Air Valves – Ensuring pressure stability, air valves prevent vacuum conditions that can disrupt water distribution.
- Control Valves – Maintaining of pressures etc
- Knife Gate Valve - Sludge application

Through innovation and commitment to quality, AVK Valves Southern Africa enhances the efficiency of water supply networks, ensuring uninterrupted water supply while supporting sustainability initiatives. Their products contribute to reducing water loss, optimizing system performance, and maintaining water quality standards nationwide.

## Water Plant Work: Supporting Safe and Efficient Water Treatment

Water treatment plants serve as the foundation of clean water distribution, ensuring communities and industries receive safe, purified water. These facilities process raw water through multiple stages filtration, disinfection, and storage before it reaches homes, businesses, and industrial site.

# WATER PLANT WORKS - VALVES



## Series 37/50

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



## Series 643/60

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

### Options:

- Flange drilling to Pn16 Tab. D or Bs10 D
- Clockwise to open or clockwise to close
- DN50-600



## 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 Water and Raw Water



## Series 37/80-003

Metal seat gate valve for water and neutral liquids to max. 70°C  
Face-to-face dimension according to EN 558, basic series 19  
Ductile iron  
Clockwise to Close



## Series 41/60

Swing check valve  
Face-to-face to EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



## Series 41/61

Swing check valve  
Face-to-face to EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



## Series 910/21-001

Y-strainer with screen, plug and fasteners in SS-305 Ductile iron  
EPDM high temperature  
Blue epoxy RAL 5017  
250 µm



## Series 910

Y-strainer  
Stainless steel screen  
PN16-25  
DN50-600  
Drinking and Waste Water



## Series 851

Double orifice air valve with VNR valve  
Ductile iron  
EPDM rubber, WRAS approved  
Drinking Water



## Series 820/00

Centric butterfly valve  
Wafer type with centering lugs  
Loose liner  
Bare shaft  
DN25-1000



## Series 756

Double Eccentric butterfly valve, bare shaft  
Ductile iron body and disc with epoxy coating  
Integral Body Seat  
Stainless steel shaft with self-lubricating bearings  
Short face-to-face  
Designed to EN593 Face-to-face according to EN558 T2



## Series 6137, PN10 - PN16 - PN25 - PN40

Boving Double Eccentric Butterfly Valve  
Soft seal in EPDM  
S.G. Iron body and disc  
Bare shaft  
Various gearbox and actuation options



## Series 869/200X-001

Reduced bore control valve, pressure reducing, SS-304/DI trim, PN10/16  
Face-to-face dimension according to EN 558, basic series 1  
Ductile iron  
EPDM rubber, WRAS approved  
Blue epoxy RAL 5017  
300 µm



## Series 779/91-001

Knife gate valve, short wafer type CI body, SS-304 blade, PTFE packing, EPDM seal, handwheel/gearbox, 5-10 bar  
Ductile iron  
EPDM rubber  
Epoxy Coating



## Series 1410/35-001

Tilting Disc Check Valve, model RM  
Face-to-face dimension according to EN 558, basic series 16  
Stainless steel  
Options: Available with Counter lever and weight or spring. Larger sizes on request



## Series 53/35-005

Ball check valve, flanged, tbl. D, A2 bolts/zinc-coated A4 nuts  
Face-to-face dimension according to EN 558, basic series 48  
Ductile iron  
NBR rubber

# WATER TRANSMISSION



Water transmission plays a vital role in delivering treated water across vast distances to municipalities, industries, and agricultural operations. By utilizing large-scale pipelines, pumping stations, and advanced control systems, this process ensures a stable and efficient water supply to support economic and social needs. Efficient water transmission is essential for delivering treated water across large distances, supporting industries, municipalities, and agriculture. This complex system relies on high-pressure pipelines, pumping stations, and advanced engineering solutions to ensure reliability and sustainability.

## Understanding Water Transmission

Water transmission refers to the bulk movement of treated water from reservoirs or treatment plants to distribution networks. Unlike localized distribution systems, transmission networks are designed for long-distance transport, often utilizing high-pressure pipelines to maintain efficiency.

## Water Transmission involves several key processes:

- **Transmission Pipelines:** Large diameter pipes that carry massive volumes of water over long distances.
- **Pumping Stations:** Maintain water pressure to overcome elevation changes and ensure consistent flow.
- **Reservoirs and Holding Tanks:** Store water for demand balancing, improving supply stability.



- **Monitoring Systems:** Advanced sensors and flow control mechanisms help detect leaks and optimize efficiency. Efficient transmission is crucial to minimizing water loss and ensuring infrastructure longevity.

## AVK Valves Southern Africa's Key Products and Contributions

As a leader in water control solutions, AVK Valves Southern Africa supports water transmission projects with cutting edge valve technologies designed for durability, precision, and efficiency. With a commitment to innovation and quality, AVK Valves Southern Africa plays a pivotal role in enhancing water transmission infrastructure, ensuring reliability, efficiency, and sustainability for communities and industries across South Africa.

## Key Products

- **Gate Valve** - isolation
- **Butterfly Valves** - isolation
- **Check Valves** - prevents back flow, pump protection
- **Control Valves** - Pressure sustaining, surge anticipating, flow control

# WATER TRANSMISSION - VALVES



## Series 37/50

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



## Series 643/60

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

### Options:

- Flange drilling to Pn16 Tab. D or Bs10 D
- Clockwise to open or clockwise to close
- DN50-600



## 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 Water and Raw Water



## Series 41/60

Swing check valve  
Face-to-face to  
EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



## Series 41/61

Swing check valve  
Face-to-face to  
EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



## Series 910/11-001

Y-strainer  
Stainless steel screen  
PN16-25  
DN50-600  
Drinking and Waste Water



## Series 910/11-001

Y-strainer with screen,  
plug and fasteners in  
SS-304 Ductile iron  
EPDM high temperature  
Blue epoxy RAL 5017  
250 µm



## Series 854/0

Balanced  
equilibrium float  
valve, PP float  
Blue epoxy RAL  
5017 250 µm



## Series 851

Double orifice air valve  
with VNR valve  
Ductile iron  
EPDM rubber, WRAS  
approved  
Drinking Water



## Series 820/00

Centric butterfly valve  
Wafer type with centering  
lugs  
Loose liner  
Bare shaft  
DN25-1000



## Series 756

Double Eccentric butterfly  
valve, bare shaft  
Ductile iron body and  
disc with epoxy coating  
Integral Body Seat  
Stainless steel shaft with  
self-lubricating bearings  
Short face-to-face  
Designed to EN593 Face-  
to-face according to  
EN558 T2



## Series 869

Control valve  
Reduced bore  
Stainless steel/ductile  
iron trim  
PN10/16

### Options:

- Pressure reducing, pressure sustaining, constant flow, altitude level, or float level
- DN65-600
- Drinking Water



## Series 6145/11-001

Gunric Butterfly Valve, Triple  
Eccentric, laminated metal  
seated, ASTM A216 WCB  
body, bare shaft

Locally manufactured



## Series 6137, PN10 - PN16 - PN25 - PN40

Moving Double Eccentric  
Butterfly Valve  
Soft seal in EPDM  
S.G. Iron body and disc  
Bare shaft  
Various gearbox and  
actuation options



## Series 779/91-001

Short wafer type  
CI body, SS-304 blade,  
PTFE packing, EPDM seal,  
handwheel/gearbox, 5-10 bar  
Ductile iron  
EPDM rubber  
Epoxy Coating

# WATER DISTRIBUTION



Water is a fundamental resource that drives industries, sustains communities, and secures public health. Efficient water distribution relies on a robust infrastructure that ensures safe, uninterrupted flow from treatment plants to households, businesses, and industries. AVK Valves Southern Africa plays a crucial role in maintaining this infrastructure with its advanced valve solutions, designed for reliability, efficiency, and sustainability. Specialising in high-quality valves, hydrants, and accessories, AVK supports municipalities and industries by optimising water flow and preventing leaks key factors in reducing wastage and enhancing operational efficiency.

With a commitment to innovation and industry-leading engineering, AVK Valves Southern Africa contributes to South Africa's water security by providing durable and high-performance components that align with evolving environmental and regulatory standards. From large-scale water projects to localised distribution networks, AVK remains a trusted partner in safeguarding the nation's water supply.

Understanding Water Distribution Water distribution, is the process of transporting treated water from reservoirs or treatment plants to homes, businesses, and industries. This system is essential for ensuring communities have access to clean and reliable water for drinking, sanitation, and industrial use.



## Water Distribution involves several key processes:

- **Water Sources:** Water is drawn from lakes, rivers, underground wells, or reservoirs before undergoing treatment.
- **Treatment Plants:** Water is purified, removing contaminants and ensuring safety before it enters the distribution network.
- **Pipelines:** Underground water mains transport treated water across cities and towns. Smaller pipes then deliver it to individual properties.
- **Pumping Stations:** These maintain the necessary pressure to move water across various elevations.
- **Valves and Fittings:** Devices like gate valves, butterfly valves, and check valves control flow, prevent leaks, and maintain efficiency.

Efficient water distribution relies on high-quality materials and strategic engineering solutions. Companies like AVK Valves Southern Africa contribute significantly to this sector by providing durable and innovative valve solutions that regulate flow, prevent leaks, and ensure safe water delivery.

## Key Products

- **Gate Valve** - Isolation
- **Y-Strainers** - Filters or Strainer
- **Butterfly Valves** - Isolation
- **Check Valves** - prevents back flow
- **Control Valves** - Pressure and Flow control

# WATER DISTRIBUTION - VALVES



**Series 37/50**  
Flanged gate valve  
Metal seated  
BS5163  
Ductile iron  
PN16  
Clockwise to close  
DN50-300



**Series 643/60**  
Flanged gate valve  
Face-to-face to SANS/  
EPDM rubber  
Ductile iron  
  
Options:  
•Flange drilling to Pn16  
Tab. D or Bs10 D  
•Clockwise to open or  
clockwise to close  
•DN50-600



**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 Water and  
Raw Water



**37/80-003**  
Metal seat gate valve for  
water and neutral liquids to  
max. 70°C  
Face-to-face dimension  
according to EN 558, basic  
series 19  
Ductile iron  
Clockwise to Close



**Series 41/60**  
Swing check valve  
Face-to-face to  
EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



**Series 41/61**  
Swing check valve  
Face-to-face to  
EN558-48  
SANS664 coating  
Ductile iron  
DN50-300  
Drinking Water



**Series 910/21-001**  
Y-strainer with screen,  
plug and fasteners in  
SS-304 Ductile iron  
EPDM high temperature  
Blue epoxy RAL 5017  
250 µm



**Series 910/11-001**  
Y-strainer  
Stainless steel screen  
PN16-25  
DN50-600  
Drinking and Waste Water



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



**Series 820/00**  
Centric butterfly valve  
Wafer type with centering  
lugs  
Loose liner  
Bare shaft  
DN25-1000



**Series 756**  
Double Eccentric butterfly  
valve, bare shaft  
Ductile iron body and  
disc with epoxy coating  
Integral Body Seat  
Stainless steel shaft with  
self-lubricating bearings  
Short face-to-face  
Designed to EN593 Face-  
to-face according to  
EN558 T2



**Series 6137, PN10 - PN16 -  
PN25 - PN40**  
Boving Double Eccentric  
Butterfly Valve  
Soft seal in EPDM  
S.G. Iron body and disc  
Bare shaft  
Various gearbox and  
actuation options



**Series 869/200X-001**  
Reduced bore control valve,  
pressure reducing, SS-304/DI  
trim, PN10/16  
Face-to-face dimension  
according to EN 558, basic  
series 1  
Ductile iron  
EPDM rubber, WRAS  
approved  
Blue epoxy RAL 5017 300 µm

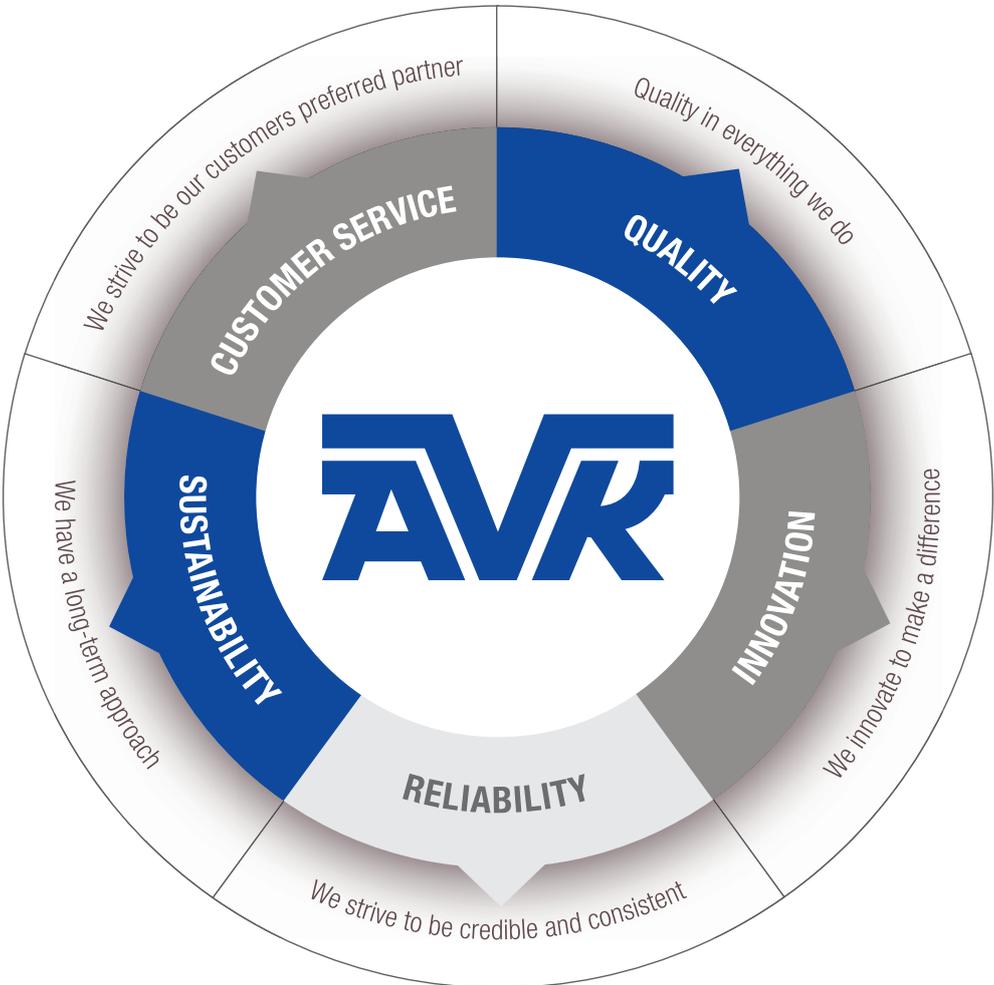


**Series 854/0**  
Balanced  
equilibrium float  
valve, PP float  
Blue epoxy RAL  
5017 250 µm



**Series 29/387-004**  
Underground fire hydrant,  
London round outlet, CTO, red  
stemcap, SABS Approved,  
PN10/16, design to BS750  
Ductile iron  
EPDM seals, WRAS approved  
Epoxy coated according to  
WIS 4-52-01 class B  
Clockwise to Close, Stem  
Cap/White Insert  
Locally manufactured

# 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)



# TECHNICAL NOTE

## CORROSION PROTECTION

First all cast components are blast cleaned according to ISO 12944-4, SA 2½.

The valve and hydrant bodies and bonnets and other components are fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901 and GSK guidelines. The high quality epoxy coating is GSK approved and applied manually or using a fluidized bed epoxy coating system. After the valve components have been blast cleaned, the clean and preheated components are submerged in epoxy powder. The powder melts when in contact with the preheated components and cures when the components enter the cooling tunnel shortly after the coating process.

### Test procedure

- **Coating thickness:**  
The coating layer thickness shall be no less than 250 µ.
- **Pore-free coating:** The coating must be completely free of penetrating pores to avoid subsequent corrosion of the casting underneath. A 3 kv holiday detector with a brush electrode is used to electrically reveal and locate any pores in the coating.
- **Impact resistance:**  
The impact resistance test is carried out right after the coating process by means

of a stainless steel cylinder dropped on the coating surface through a one meter long tube corresponding to an impact energy of 5 Nm.

After each impact the component is electrically tested, and no electrical breakthrough shall occur.

- **Cross linkage:**  
One drop of methyl isobutyl ketone is put on a horizontal epoxy resin coated surface of the test piece at room temperature. After 30 seconds the test area is wiped with a clean white cloth. It is checked that the test surface has not become neither matt nor smeared, and that the cloth remains clean. The test is carried out 24 hours after the coating process.

- **Adhesion:**  
The adhesion of the powder coating on one of each type of component is tested four times a year per coating plant according to GSK guidelines using the punch separation method according to DIN 24624. The coating thickness over a dispersed area of the test item shall be within the range 250 µ to 400 µ.

The test pieces are immersed for seven days in deionised water at 90°C, and then dried in an oven for 3 hours. A conditioning phase of 3 to 5 days in normal atmosphere is then allowed to elapse. No blisters may arise during the period immersed in the water bath.

The surface of the test piece is degreased and then roughened with abrasive paper. The roughened surface is cleaned from dust with oil-free compressed air and re-cleaned. The adhesion on both the core and the moulding sand sides is tested with a minimum pulling force of >12 N/mm².

- **Cathodic disbonding:**  
Cathodic disbonding tests are carried out on one of each type of component at least twice a year. No bubbles in the coating may develop during the test for cathodic disbonding. For this test, the coating thickness over a dispersed area of the test item shall be within the range 250 µ to 400 µ.

### Approvals:

The coating is approved for use in drinking water systems, meeting all specified toxicological conditions, by the following institutes:

- Hygiene Institute, Germany
- Hydrocheck, Belgium
- CARSO L.S.E.H.L., France

### Extra top coating:

All our hydrants and post indicators have an additional layer of UV-resistant polyester coating. The polyester coating will protect the colour of the products from fading, even though the products are installed in places with a strong UV-light exposure.



# 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 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 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	+5,572	+100	1,065
Established as a local machine shop in Denmark	Employees worldwide	Companies in the Group	Million EUR of turnover





**AVK Valves Southern Africa**

10 Chris Street, C/O Chris &  
Garfield Road, Alrode  
1451 Alberton, South Africa  
+27 11 908 3760  
sales@avkvalves.co.za  
www.avkvalves.co.za

© 2025 AVK Group A/S rev.2

Unit 6, 6 Paris Road  
Brackengate, Business Park  
7441 Cape Town, Brackenfell  
South Africa  
+27 21 981 4414  
www.avkvalves.co.za

