



AVK PREMIUM 100
GATE VALVES



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Let us introduce AVK PREMIUM 100 gate valves

A valve made of the best materials, offering long life and maximum safety. By ensuring a safe and reliable water supply, it protects our natural resources and contributes to the UN sustainable development goals.

It is ideal for installation in places where excavations are not a real option, and where long life and safety is crucial, such as:

- Busy roads
- Public places
- Tourist attraction places
- Coastal areas
- Tunnels
- Locations with oil or gasoline contamination

BUILT TO LAST A CENTURY

25
YEARS
WARRANTY





WHEN MAXIMUM SAFETY

Superior corrosion protection

- External PUR coating
- Internal and external epoxy coating exceeds GSK requirements
- Documented pinhole free

Full traceability

A unique serial number for each valve is linked to material and test records and allows for full traceability of the valve and all main components.



AND LONG LIFE IS CRUCIAL



Exceptional wear protection

Designed to withstand minimum 10 times the EN 1074-1 requirements to opening/closing cycles, corresponding to minimum 25,000 under normal flow/pressure conditions.

Renowned AVK design

The renowned AVK gate valve design – according to global standards, meeting local requirements.

Standard range

Flanged gate valves:

- Long face-to-face dimension (DIN F5), PN10/PN16
- Short face-to-face dimension (DIN F4), PN10/PN16

Gate valves with PE pipe ends:

- Black/blue SDR 11 PE100 ends, PN16
- Black/blue SDR 17 PE100 ends, PN10
- Blue SDR11 PE100-RC SafeTech/Profuse ends, PN16
- Blue SDR17 PE100-RC SafeTech/Profuse ends, PN10

Service connection valves with PE pipe ends:

- Black/blue SDR11 PE100 pipe ends, PN16
- Black/blue SDR17 PE100 pipe ends, PN10



AVK PREMIUM 100 BUILT TO LAST A CENTURY

AVK's renowned rubber compound:

EPDM rubber compound featuring multiple drinking water approvals ensures the highest quality level and unmatched wear and tear resistance.

Wedge nut and thrust collar in silicon-brass:

DZR CW724R is a lead-free, high performance brass with high strength, exceptional wear resistance and superior corrosion resistance.

Stem in duplex:

Duplex w. 1.4362 stainless steel provides optimum corrosion resistance and strength.



External corrosion protection:

An external PUR (polyurethane) coating of minimum 1.5 mm layer thickness effectively protects the valve, eliminates the risk of any galvanic corrosion and any risk that electrical currents will penetrate the valve. Additionally it provides total protection against aggressive or polluted soils.

Internal and external corrosion protection:

Min. 300 μm internal and external epoxy, exceeding GSK requirements.

FULL TRACEABILITY

1. Inspection of incoming goods

Mechanical properties and critical dimensions of cast materials are checked in a local AVK test laboratory before the items are shipped to our factory. Supplier performance is monitored, and the number of items for inspection is automatically calculated and regulated according to the results from previous deliveries.

It is checked that a 3.1 material test certificate is available for each production batch. The graphite structure of the casting is examined by microscopy on samples taken from each batch. Microscopy control reports are archived and can be traced to the individual casting batches.

2. Inspection of bolts

Mechanical properties of bolts are checked by tensile test. Material test certificate is available.

3. Inspection of corrosion protection

Quality control is performed on samples.

Epoxy inspection:

- Layer thickness is measured – must be min. 300 µm
- Impact resistance and adhesion tests
- Holiday detection test at 3 kV
- Cross linkage test (MIBK)

PUR inspection:

- Layer thickness is measured – must be min. 1500 µm
- High voltage test for breakthrough at 20 kV
- Adhesion test

Control reports are archived.

4. Pressure testing

All AVK Premium 100 valves are pressure tested before leaving the factory.

- Shell strength tested at 24 bar
- Closing function tested for leakage at 17.6 bar
- Extra random test of closing function at 0.5 bar
- Functional test of maximum operating torque

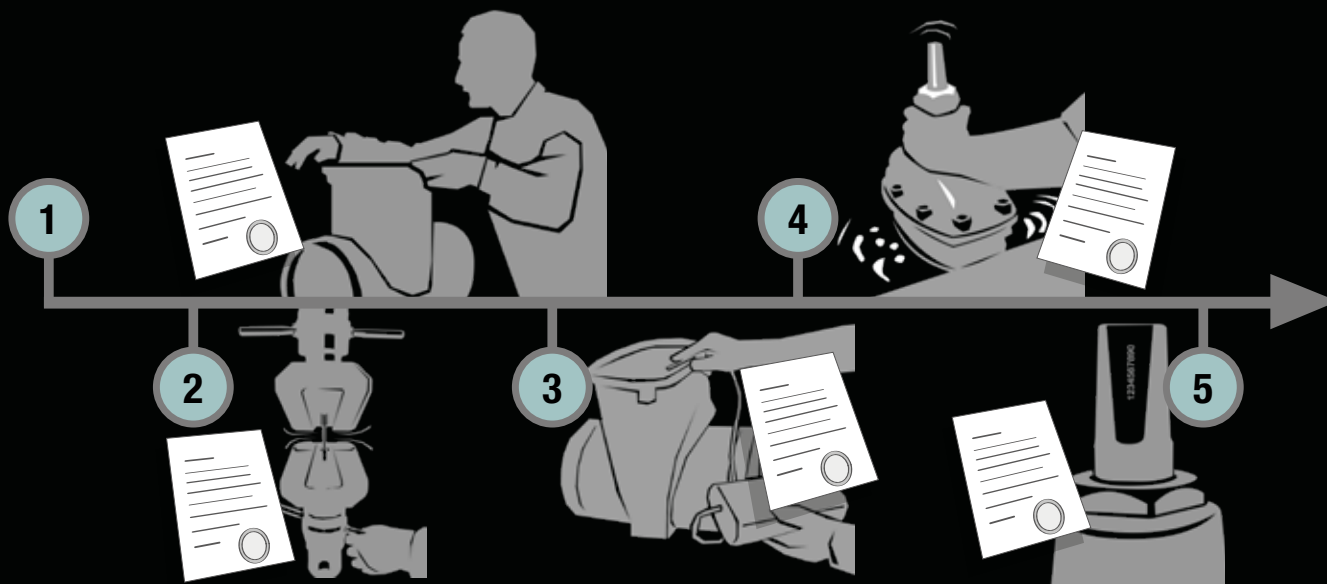
All reports on pressure tests are archived and can be traced via the valve serial number.

5. Serial number and 3.1 certificate

All valve stems are permanently marked with a unique serial number.

The serial numbers are registered on customer orders.

3.1 certificates according to EN 10204 can be issued for all AVK Premium 100 valves.



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2023-11-20
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