

TRACEABILITY OF AVK PREMIUM 100 GATE VALVES

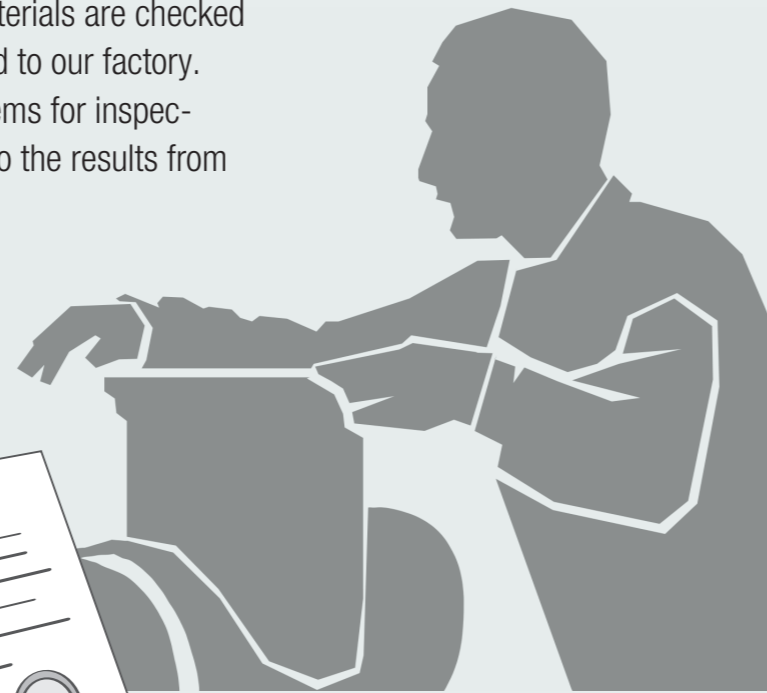
1. Inspection of incoming goods

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.



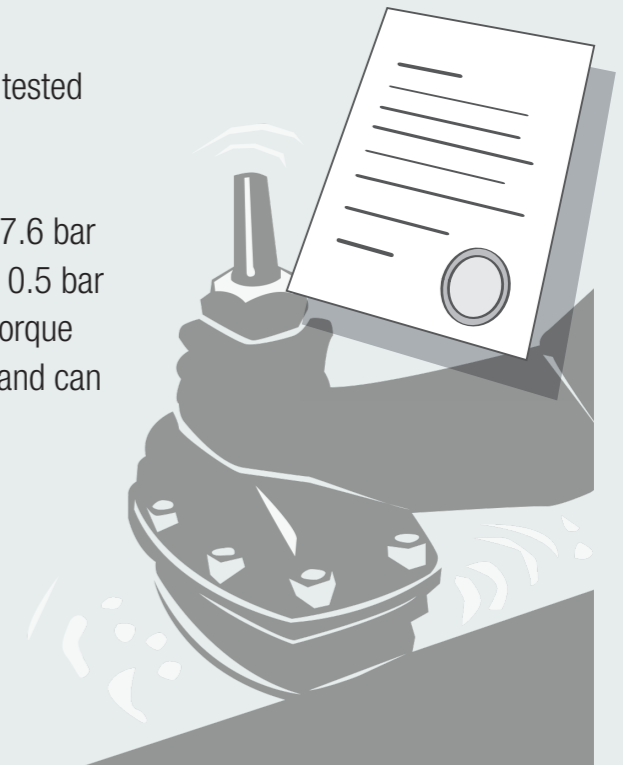
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4. Pressure testing

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.

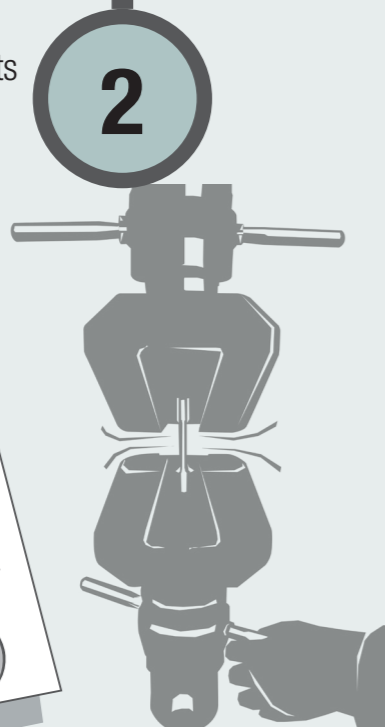


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2. Inspection of bolts

Mechanical properties of bolts are checked by tensile test.

Material test certificate is available.



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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.



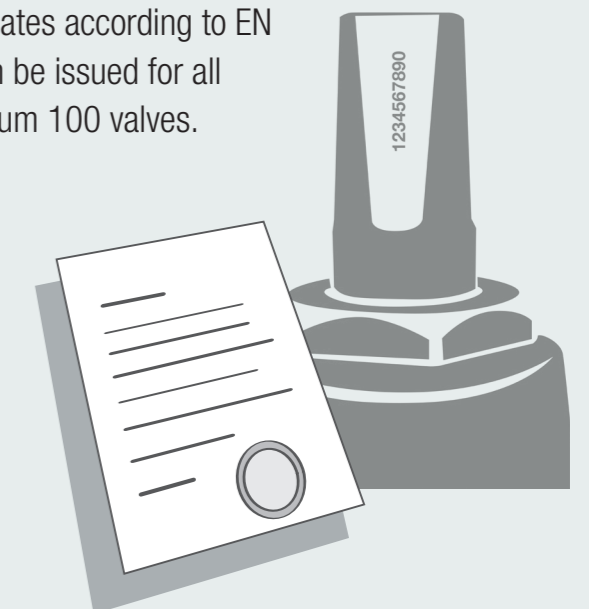
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5. Serial number and 3.1 certificate

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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