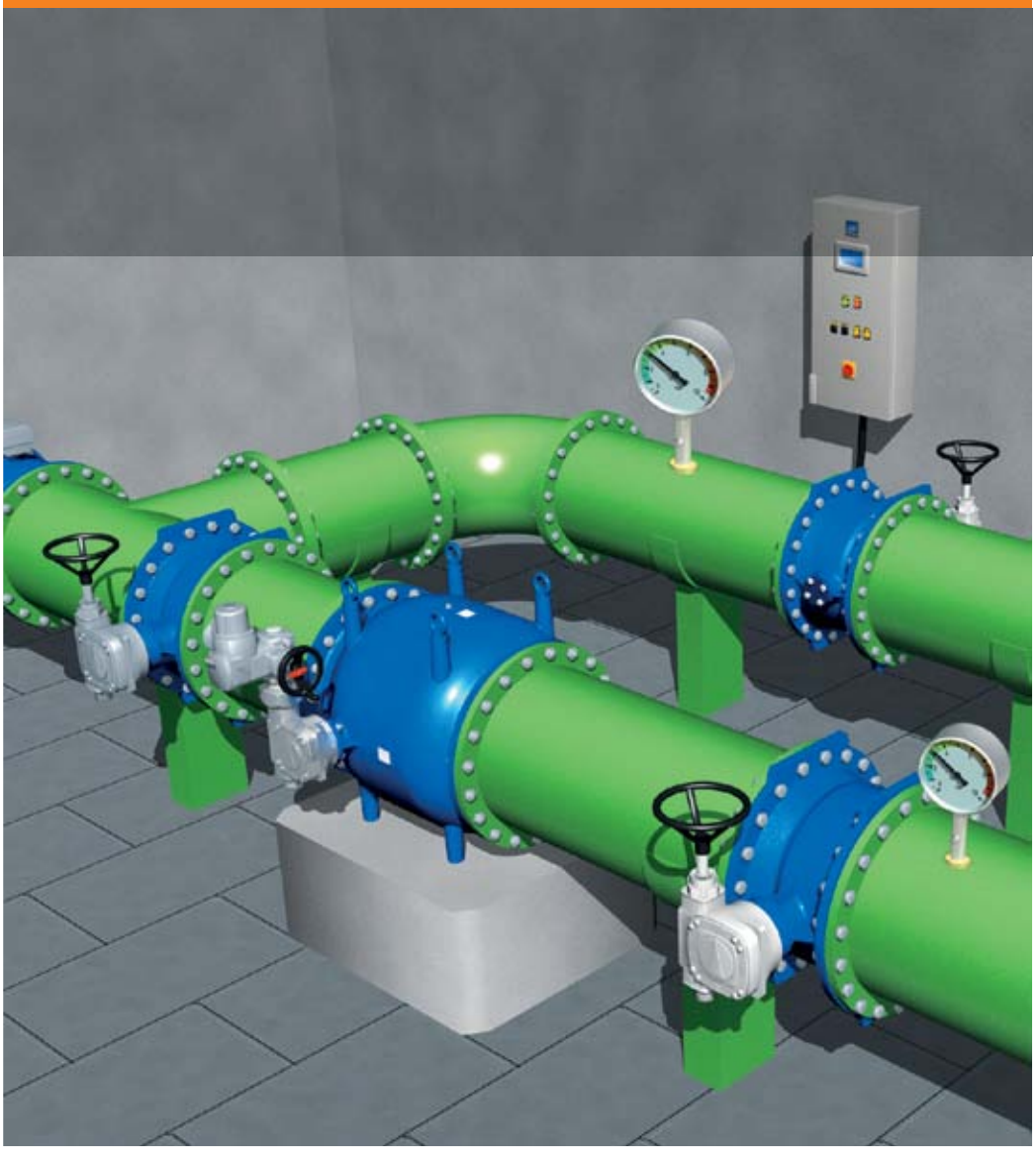
VAG Valves in Pressure Management



The VAG Pressure Management Solution

Water distribution networks are exposed to permanent stress such as frost, road traffic, earth movement and water pressure over decades. The result: material fatigue, cracks, leaks and, consequently, water losses.
The major part of these losses is not caused by large pipe ruptures, but by a great number of minor leaks. According to experts, about one third of the available drinking water resources are lost on the way to the final consumer.

The advantages of this type pressure management are obvious: water losses are reduced, the service life of the pipeline network is increased and production and maintenance costs are reduced. With the help of a flexible solution kit, the system is integrated into the existing system structure. The core of the pressure management system are VAG control valves which have stood the test of time world-wide and for many decades in diverse installation situations.

This results in immense financial loss. Additionally, the situation is getting worse in dry regions due to the scarcity of valuable drinking water. If world-wide water losses could be halved, this alone would allow the supply of an additional 90 m people with drinking water. Trying to solve the problem by finding the leaks and eliminating them is for the most part neither possible nor are the necessary funds available. Another problem: If part of the leaks is eliminated, pressure on the remaining leaks rises and increases the loss there.
This is precisely where VAG Pressure Management comes in. It reduces the water pressure in the pipeline network depending on the demand put upon IT at peak times of consumption.

VAG is one of the pioneers in this field and offers a complete solution consisting of planning, consultation and implementation. How customers can benefit from the VAG pressure management solution has already been demonstrated in many projects. More than one million cubic metres of water were saved within just one year.

Whatever your task is, we are able to profitably implement smart water networks today. As one of the leading companies in the water industry, VAG combines proven products with engineering expertise and practical know-how. As a result, you will receive a solution package tailored and manufactured to your individual needs – guaranteed!

VAG RIKO® Plunger Valve

It precisely controls the pressure and volumetric flow in pipeline networks and ensures constant water supply – at any time and in perfect coordination of quantity and pressure. The sealing system used for the plunger, the shaft bearing and the seat guarantees corrosion resistance and high performance.

Types:

- Outlet types adapted to virtually any operating condition: Standard seat ring, multiple-orifice cylinders, slotted cylinders or various customised cylinders

VAG EKO®*plus* Gate Valve

Its premium-quality materials make it corrosion-resistant and maintenance-free. Its plastic sliding caps on the wedge ensure its low torque. Further advantages include its triple O-ring seal and its suitability for operation under vacuum (up to 90%).

Types:

- With handwheel
- Prepared for electric actuator
- With electric actuator

VAG EKN® Butterfly Valve

Reliability, quality and durability have made it an integral part of long-distance pipelines and water supply plants as well as in industrial and municipal water supply networks.

Types:

- For operating temperatures of up to 200 °C
- With rubber lining for maximum corrosion protection
- As safety valve with UVV interlock (accident prevention regulations)

VAG valves and actuators for pressure management applications:

VAG RIKO® Plunger Valve,
VAG EKO®*plus* Gate Valve,
VAG EKN® Butterfly Valve,
VAG PICO® Pilot Operated Control Valve,
VAG DUOJET® Automatic Air Valve,
VAG BAIO®*plus* System

VAG PICO® Pilot-Operated Control Valve

Pressure reduction, retention and level control – all in one valve. By a simple change of the control circuit, the valve can perform a wide variety of tasks. Its ideal control characteristic, its low maintenance requirement and its operation by the medium conveyed make it the perfect control valve.

Types:

- Pressure-reduction valve
- Pressure-retention valve
- Float valve
- Level control valve

VAG DUOJET® Automatic Air Valve

Its compact two-chamber design with three functions: aerating, venting and venting under operation. Corrosion-resistant materials and a premium quality powder coating ensure functional reliability in plants over many years.

Types:

- With integrated shut-off valve for inspection purposes
- For special applications also available as welded model with body made entirely of stainless steel

VAG BAIO®*plus* System

A versatile socket-spigot-end connection system which connects the system components without any screws. It is pull-out proof and can be disassembled at any time. Short assembly times and freedom from maintenance make it the cost-efficient solution in underground engineering.

Types:

- Shut-off valves
- Underground hydrants
- Fittings
- Welding ends made of PE
- Tension locks

Reference Projects

VAG pressure management in Amman, Jordan

Pilot project with noticeable reduction of water loss of up to 40% in the municipal water supply network in three of the city's districts located in the governorate of Balqa by effective pressure management.

VAG pressure management in Bardejov, Slovakia

Reduction of water losses and decrease of failures by more than 30% by the special pressure management application 'remote-node based modulation'.

VAG pressure management in Ouagadougou, Burkina Faso

Successful local, time-based modulation in three districts of Burkina Faso's capital resulted in the saving of more than 24% of water per district.

VAG

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