

## **VAG Valves in Water Distribution**





# VAG Valves in Water Distribution

Getting water cost-effectively and in good quality from the source to the consumer is a complex task.

For planners, builders and operators of water supply systems, excellent performance and the long-term functional reliability of all components is of particular importance. Valves play a decisive part in this. They regulate and automate pressure and flow rate and protect the pipeline, pumps and other components from damage.

VAG manufactures its products to the highest quality standards. Our manufacturing processes are certified, our product quality is well renowned and our valves prove their excellence in world-wide applications every day.

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Valves are exposed to excessive stress in the water industry, such as high water pressures, extreme temperatures, desert or tropical climates. For the valves to be used this means: their material, technology and quality have to be perfect and it has to be ensured that the valves function reliably even after decades. A long service life means cost-effectiveness.

VAG has one of the most extensive product ranges worldwide. It includes gate valves and butterfly valves, air valves, control valves (diaphragm and plunger valves), hydrants, tapping bridges and innovative solutions such as the BAIO-plus system.

Thanks to our experience from thousands of projects, we are able to provide expert advice to planners and operators and support them in their work, for example in the design of valves and pipelines, commissioning and even the assembly of new valves. The functional reliability of our valves over many decades saves expensive repair work.

Whatever task you have – we can offer the best solution to you from a range of available solutions – with regard to both technology and cost-effectiveness. In this way, you will receive a solution package tailored and manufactured to your individual needs – guaranteed!



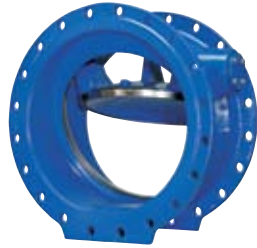


### VAG DUOJET® Automatic Air Valve

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 and pits 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 SKR Slanted Seat Tilting Disk Check Valve

In the event of quick flow reversal in plants, this valve prevents excessive water hammer and the destruction of pipelines and foundations. Due to the slanted seat, shorter travel times and thus shorter closing times are achieved.

**Types:**

- With internal damping unit for impact-free closing
- With rubber lining for maximum corrosion protection
- Welded or forged model



### 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 HYsec hydraulic brake and lift unit

In combination with a VAG EKN® Butterfly Valve or a VAG RIKO® Plunger Valve, it serves as a quick-closing valve in the turbine inlet and in pumping stations, as a pipe-burst safety device with hydromechanical release or as a quick-opening valve in the turbine bypass.

**Types:**

- E – with internal oil supply
- F – with external oil supply
- PRO – made to the customer's specifications with individual features



### 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 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



### VAG TERRA®*lock* System

Due to the patented TERRA®*lock* plug fitting system with flexible locking ring threading, tools or hemp is no longer necessary. The simple, pull-out proof connection to the pipeline makes it a versatile house connection valve system.

**Types:**

- Tapping valves
- Tapping bridges
- Fittings
- Accessories and connection parts



### VAG NOVA 150 Standpost Hydrant

In case of fire, it protects modern and sensitive industrial plants. Its streamlined design ensures a maximum of fire fighting water output capacity, operator friendliness and reliability of operation. This in turn ensures fast and effective fire fighting.

**Types:**

- Form AU without drop jacket
- Form AFU with drop jacket

## Reference Projects

Refurbishment and replacement of all urban network pipelines in the city of Rötzt, Germany

70 VAG NOVA NIRO Standpost Hydrants,  
700 VAG TERRA® K3 Tapping Bridges,  
40 VAG SUPRA Underground Hydrants,  
150 VAG BETA® 200 Gate Valves,  
14 DURA SV Control Valves and  
more than 500 fittings of the  
VAG BAIO®plus Systems



Drinking water supply  
Ankara, Turkey

Several VAG RIKO® Plunger Valves,  
60 VAG SKR Slanted Seat Tilting Disk Check Valves,  
40 VAG EKN® Butterfly Valves



Water transport and distribution plant,  
Strait of Hormuz, Oman

Several VAG EKN® Butterfly Valves,  
VAG DUOJET® Automatic Air Valves,  
VAG SKR Seat Tilting Disk Check Valves with internal damping units,  
several VAG EKO®plus Gate Valves,  
VAG RIKO® Plunger Valves



Water supply of  
San Diego, USA

Several customised  
RIKO® Plunger Valves



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