



VAG Valves in Wastewater Technology





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Wastewater from households or agriculture contains substances different from those in industrial wastewater. The wastewater produced by the food processing industry does not have the same composition as that coming from the chemical industry. As there is no standard whatsoever by which wastewater can be classified, special valves and in-depth expert knowledge are required. This is VAG's strength. For more than 140 years, we have been offering a comprehensive, ever-expanding range of valves suitable for wastewater applications.

For wastewater valves the quality is in the details. VAG ZETA® Knife Gate Valves, for example, allow the replacement of functional and wearing parts without disassembly of the valve. The knife can be supplied in special materials such as duplex steel or with a Halar-coated body. The tightness of the VAG EROX®*plus* Penstock far exceeds DIN standard requirements. We make penstocks to any individual dimensions. The VAG RSK check valve reliably protects pumps even if they are operated in heavily polluted media.



Planners, plant operators and contractors benefit from our wide range of products and from our expert advice. We help you in the selection of suitable materials ranging from the body and coating to the seal. Are you looking for materials resistant to aggressive compounds, acids or alkaline solutions, materials which protect the valve from corrosion?

You need valve types suitable for wastewater, which function reliably over decades even if the medium they operate in is heavily polluted? Or coatings which are resistant to abrasive substances? Have to meet specific standards? Whatever requirement you may have – as a global solution provider VAG has a wide range of proven standard products and the capacity and expertise to make customised valves.

In digestion towers, only the stainless steel disk of the VAG CEREX® Butterfly Valve comes into contact with digester gases. In combination with its sophisticated bearing it is extremely durable. We will gladly show you further examples.

VAG gives you investment security and operational safety. We make our extensive practical know-how – ranging from the material to the design – available to planners. We guarantee industrial companies planning security by transparent processes, documentation and certificates. And to plant builders, we offer outstanding price performance and tailor-made service – from delivery to commissioning.



VAG ERI[®] plus Penstock

It is a further development of the technology of the proven ERI[®] Penstock and absorbs the pressure acting on the gate by separate sealing and sliding systems. This penstock, which has been specially developed for plant construction, combines functionality with optimum price-performance ratio.

Types:

- With handwheel, electric or pneumatic actuator, with rising or non-rising stem and with the VAG REMO remote control system.



VAG EROX[®] plus Penstock

With its patented sliding-wedge system, this further development of the EROX[®] Penstock technology offers robustness and high reliability. The new square design standardises the previous individual solutions, combining them in one valve: square opening, smooth bottom passage, suitable for use as control valve in intermediate position.

Types:

- With handwheel, electric or pneumatic actuator, with rising or non-rising stem and with the VAG REMO remote control system pneumatic actuator



VAG ZETA[®] Knife Gate Valve

Thanks to its fully flanged design, this valve can be used as wafer-type and end-of-line valve without counter-flange at full operating pressure. Besides its tightness in both flow directions, the fact that it can be installed in any position makes this valve a versatile shut-off valve.

Types:

- With handwheel, extension spindle, electric actuator or pneumatic actuator

VAG valves and actuators for wastewater applications



VAG KOS Wedge Gate Valve

Depending on your requirements, this valve is available with rising or non-rising stem. The body and wedge seat rings are made of zinc-free, wastewater-resistant bronze, the connecting bolts are made of stainless steel. Its epoxy-powder coating (inside and out) reliably protects the valve against corrosion.

Types:

- With gear unit
- With bypass



VAG FLOWJET[®] Automatic Air Valve made of PE

Its corrosion resistance and ease of maintenance are only two of the advantages of this valve. Due to its excellent venting capacity, its low weight and its low overall height it is the automatic air valve to use in more than just wastewater applications.

Types:

- With venting block
- With venting stop for compressed-air purge



VAG RETO-STOP Non-Return Valve

This is a reliable non-return valve with a fully flanged design. The fast and easy disassembly of the body cover and the disk make it particularly easy to maintain. It automatically opens and closes by the pressure of the medium conveyed (resilient-seated).

Types:

- With lifting device G 3/4" (can also be retrofitted)
- With bypass valve

VAG ERI[®] plus Penstock,
VAG EROX[®] plus Penstock,
VAG ZETA[®] Knife Gate Valve,
VAG KOS Wedge Gate Valve,
VAG FLOWJET[®] PE
Automatic Air Valve,
VAG RETO-STOP
Non-Return Valve

Reference projects

Wastewater treatment plant
Lichte, Germany

Various VAG BETA® 200 Gate Valves,
20 VAG ZETA® Knife Gate Valves,
2 VAG RIKO® Plunger Valves,
various VAG RSK Non-Return Valves



Soil filtration systems
Berlin, Germany

35 VAG RSK Non-Return Valves,
95 KFS Wedge Gate Valves in combination
with 40 VAG FLEXINOX
Dismantling Joints



Wastewater pumping station
Birkenheide, Germany

VAG RETO-STOP Non-Return Valves,
with VAG ZETA® Knife Gate Valves



Compressed-air regulation in
the wastewater treatment plant in
Hangzhou, China

29 VAG RIKO® Plunger Valves



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