

## **VAG Penstocks and Sluice Gates** **with compact design**



# VAG Sluice Gates with compact design

## The all-safe solution

The protection of our environment requires demanding plant and process technology. This should only be based on the functional safety and absolute leakproofness of the valves. Harmful substances must in no way leak into our waters. Leakage rates are often no longer acceptable.

Functional safety for rigorous daily operation must be permanently guaranteed for industrial and residential sewage treat-

ment plants, in flood water and water supply protection as well as in cooling water systems.

Due to their design characteristics, VAG Sluice Gates respond perfectly to all of these requirements.

Beyond this, planners and plant designers have to find economic solutions for rising costs. The compact design of VAG Sluice Gates is an important feature in realising this aim.

The essential parts of the com-

compact design, like self-sustaining frame design and advanced anchoring system, result in the following advantages:

- reduced planning time
- no recess work on the building
- quick installation due to anchoring system
- no labour nor material costs for casing, casting and cleaning
- instantly ready for operation after installation



**EROX®**  
Sluice Gate

**For the highest demands - our no.1**

### Product features

- compact design - quick and easy installation with only few anchors - instantly ready for operation
- leakproof on both sides in accordance with DIN EN 12266-2 table A5, leakage rate C (German standard for drinking water) up to 6 m WC due to patented sealing system (flexi-ring)
- high operational safety due to low actuating forces and high resistance to corrosion
- maintenance-free

### Materials

- frame and gate made of stainless steel 1.4301, on demand of 1.4571 (pickled and passivated)
- driving parts made of stainless steel and bronze, resistant to waste water
- gasket made of EPDM / NBR

### Application

Wherever reliable sealing is required in

- chemical industry
- retaining systems for hazardous goods
- flood water and water supply protection
- industrial purification plants

### Design options

- DN 150 ... DN 2200
- standard design is for circular orifice
- on request
  - square orifice (Q)
  - flange connection (F)
  - with smooth gate bottom (G)

# VAG Sluice Gates with compact design

## The all-safe solution



**ERI®**  
Sluice Gate

**our principle: safe and sturdy**

### Product features

- compact design - quick and easy installation with only few anchors - instantly ready for operation
- leakproof on both sides up to 6 m WC depends on the field of application
  - upstream pressure
    - 150x150 - 1000x1000: 6m WS
    - 1200x1200: 4m WS
  - downstream pressure
    - 150x150 - 800x800: 4m WS
    - 900x900 - 1200x1200: 3m WS
- high functional and operational safety due to low actuating forces and high resistance to corrosion
- maintenance-free, replaceable gasket

### Materials

- frame, gate and stem made of stainless steel 1.4301, on demand of 1.4571 (pickled and passivated)
- gasket made of EPDM / NBR

### Range of application

Wherever reliable sealing is required in

- residential treatment plants
- industrial treatment plants
- flood water and water supply protection

### Design options

DN 150 x 150 ... DN 1200 x 1200

- for rectangular and circular orifice
- DN 1400 x 1400...1600 x 1600 on request



**HADE®**  
Sluice Gate

**the combination of materials:  
PE-HD and stainless steel**

### Product features

- compact design - quick and easy installation - instantly ready for operation
- leakproof on both sides up to 7.5 m WC, according to DIN 19569 part 4
- high chemical resistance due to PE-HD material of gate and back plate
- maintenance-free, replaceable gasket

### Materials

- frame, cross beam and stem made of stainless steel 1.4401
- gate and back plate made of PE-HD
- stem nut and bearing support made of POM

### Range of application

Wherever reliable sealing up to 7.5 m WC is required in

- residential treatment plants
- industrial treatment plants
- flood water and water supply protection

### Design options

DN 150 x 150 ... DN 1200 x 1200

- for circular orifice
- on demand: for rectangular orifice

# VAG ERI®-Channel Penstock and Lowering Type

**Compact valves ready for operation with self-sustaining frame design**

Ordinary channel penstocks and the lowering type ones are used for shut-off, for level control or for surface flow-off in open channels. Their range of application is in treatment plants, rain retaining basins and other water storage systems.

The VAG ERI Channel Penstock and the VAG ERI Channel Penstock, Lowering Type, are both compact valves ready for operation with a sturdy self-sustaining frame design and integrated stem bearing.

This new design is based on the advantages and experiences of the well-known and many times approved VAG EROX®-Sluice Gates.

Advantages at a glance:

- compact design, that means: only one device, instantly ready for operation, can be cast into the channel
- with anchoring system before the channel / at the channel
- low weight, that means: easy transport and easy handling on site
- low actuating forces, small drives
- leak-proof in both flowing directions
- compatible with all kinds of drives. Retro-fitting is possible without demounting the penstocks (e.g. electric drive)
- short delivery time of a great product range
- standard design of installation and adjusting parts, that means: easy installation
- low costs due to quick installation and maintenance-free operation



**VAG ERI  
Channel Penstock**



**VAG ERI Channel  
Penstock, Lowering Type**



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