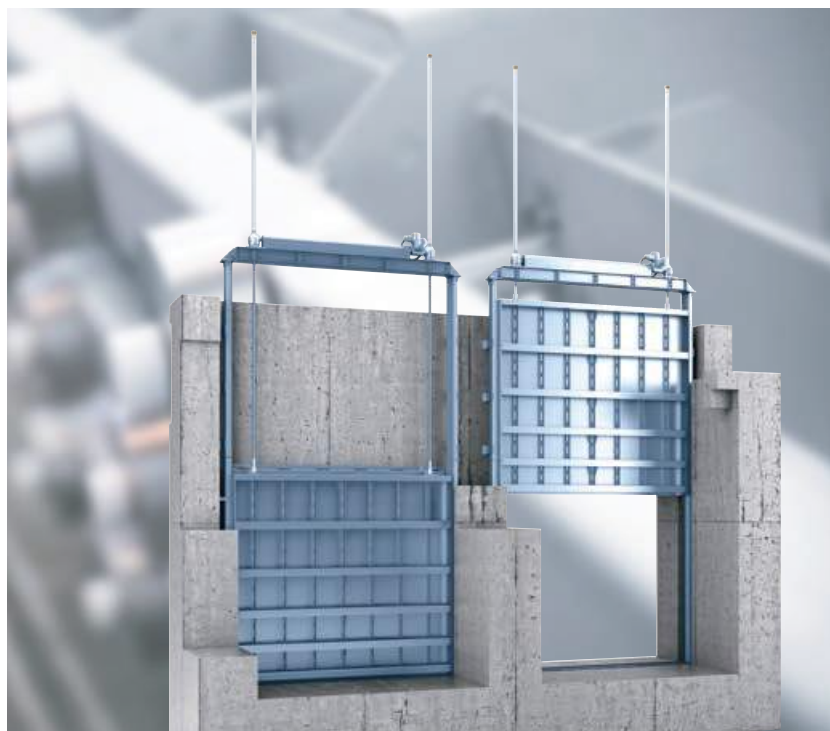




A brand of  
Aqseptence Group

## Passavant® Shut-Off Devices

The shutting-off and steering of water inlets and outlets in municipal or industrial pipe, sewage and tank systems.



Passavant® Shut-Off Devices play a central role in the shutting-off, regulating and controlling of water and effluent flows in drainage systems. Not only do the shut-off devices help protect against floods and surface waters, they also perform safety relevant functions serving to protect people, buildings and infrastructure in endangered areas. At Aqseptence Group, we use the very latest technology, from planning to manufacture, assembly, commissioning and customer service to ensure that our products satisfy – and in many cases exceed – the required standards of DIN 19569-4, or respectively DIN 19704-1 to 3, for equivalent hydraulic steel shut-off devices.

### Benefits:

- Cost effective standard programs (up to 3,000 x 3,000 mm in size and 0.6 / 0.8 / 1.0 bar water pressure)
- Individually customized, according to specific utilization / customer requirements (to date max. 7,000 x 7,000 mm in size and up to 5.0 bar water pressure)
- Maximum safety due to static and stress calculations (Finite Element-Method)
- Optimized welded construction for long service life
- High loading capacity with regard to hard and bulky objects in the wastewater
- Low maintenance, therefore low running costs

## Function:

Depending on the particular design, the various 3 and 4 side-sealed shut-off devices are lowered into the water flow by means of guiding or holding devices. The soft seals (EPDM, NBR or neoprene) guarantee water tightness in both directions of flow. Double lip seals, profile seals or double bulb seals are used depending on the type of device and specific requirements.

## Operation:

- Manual operation (square nut for T-key, hand-wheel, crank, tie rod, gear unit with handwheel)
- Electrical drive (actuator and variable speed drive with and without local control unit)
- Pneumatic (with pneumatic cylinder for customer's own installations)
- Hydraulic (with hydraulic cylinder incl. hydraulic aggregate)
- Solar driven solutions

**Drainage Tunnel Project  
Emisor Oriente (TEO), Mexico City:**  
Passavant® penstock with rollers,  
W x H = 7,000 x 7,000  
and 5,000 x 5,000 mm,  
made of stainless steel material  
1.4301 (AISI 304),  
for 4.0 bar (40 m) water pressure.



## Structural shapes & bottom profiles:

We offer you products which are flexible and exactly tailored to your particular requirements. There are limitless possibilities for the realisation of new installations. We are also able to provide diverse solutions for the modernisation of existing installations.

- Set in concrete
- Anchored
- Flanged
- Combinations
- 1 or 2 spindle design
- Straight bottom
- Semicircular bottom
- Special-form

## Materials:

You will receive your Passavant® shut-off device in a material which has been optimally aligned to the intended application or media. Simply contact us and let us know the material you require!

- Standard steel, coated
- Stainless steel
  - Austenitic (antimagnetic) steel:
    - 1.4301 (AISI 304),
    - 1.4571 (AISI 316 Ti),
    - 1.4404 (AISI 316 L)
  - Duplex + Superduplex (magnetic / antimagnetic) steel:
    - 1.4462 (AISI 318 LN),
    - 1.4501 (AISI F55)

**Product versions 3-side sealing:**



Handstop Gate  
(up to 1,000 x 1,000 mm)



Flood Protection Stop Log System  
(available in all sizes)



Stop Gate  
(available in all sizes)



Sluice Gate  
(available in all sizes)



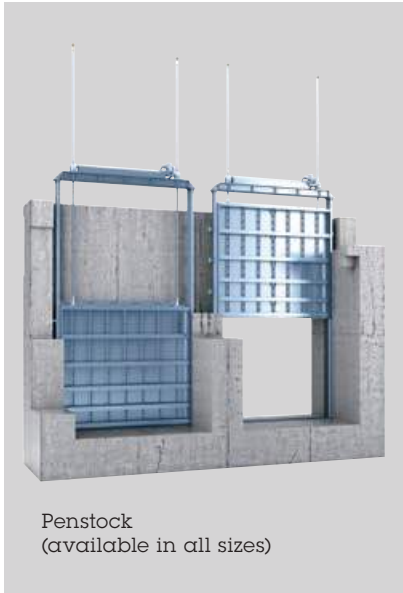
Weir Sluice Gate  
(available in all sizes)



Overflow Weir  
(up to 8,000 x 1,000 mm)

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**4 side sealing:**



Penstock  
(available in all sizes)



Backwater Flap  
(up to 4,000 mm)

## Applications & fields of operation:

### Wastewater Technology

- Municipal WWTP
- Industrial WWTP
- Drain & pipe network
- Pump stations

### Storm Water Retention and Rain Management

- Storm water retention tanks
- Rain water overflow tanks
- Separating structures

### Flood Protection and Water Conservation

- Polder
- Retention tanks
- Property protection

### Hydraulic Steel Structures

- Lake reservoirs
- Reservoir basins
- Scour outlets
- Valley dams
- Pump stations

### Further Areas

- Water supply
- Irrigation systems

## Aqseptence Group GmbH Water Treatment Systems

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The technical data stated in this brochure are indicative only and have to be determined for each individual case.  
Subject to technical changes.