
VAG Knife Gate Valves and Penstocks

No job too dirty for this tough crew

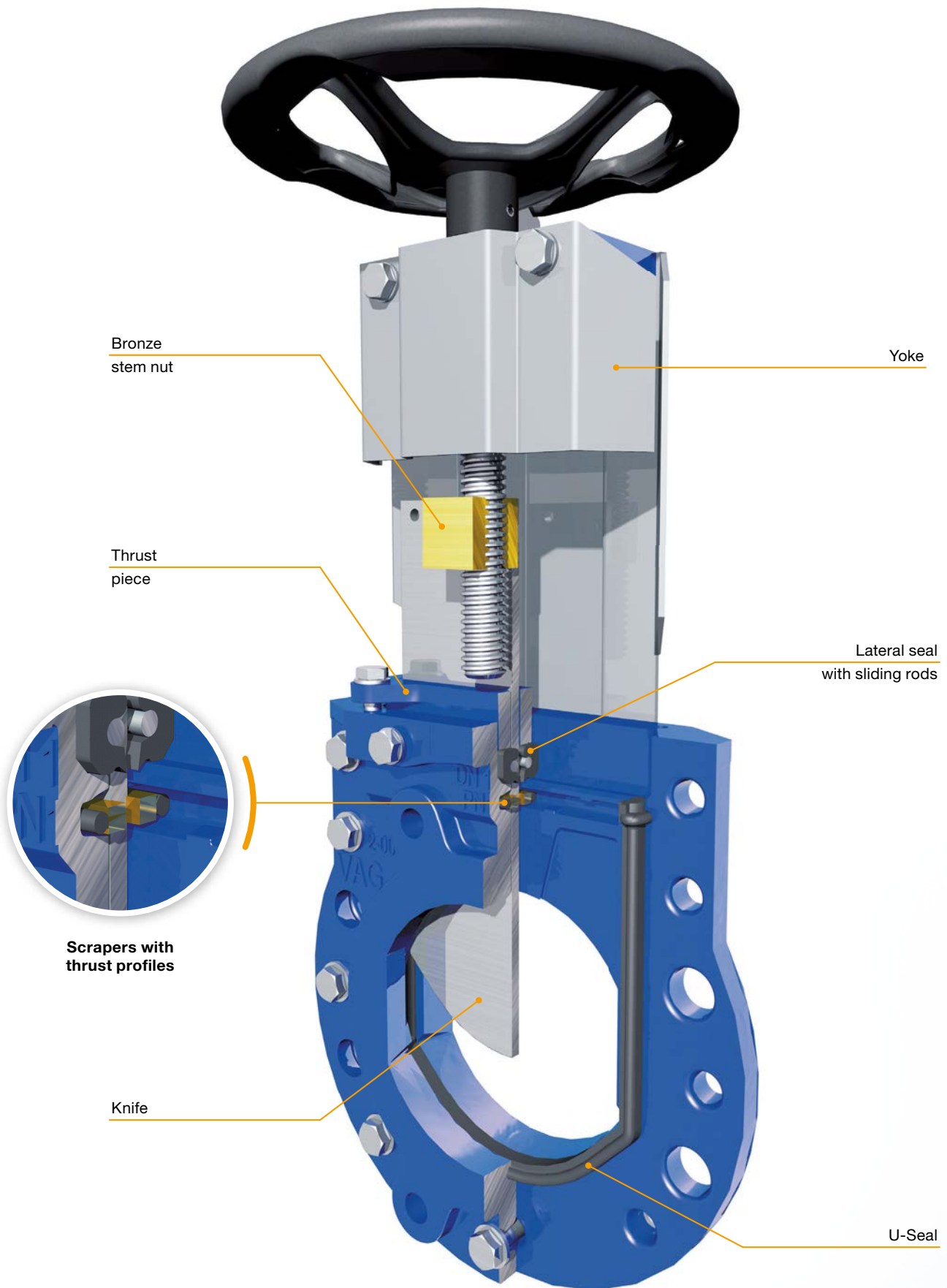


Industry



Wastewater

VAG ZETA® Knife Gate Valve



Product features

- Integrated scraper profiles on both sides for continuous cleaning of the knife increases the safety of operation and the service life.
- The soft, profiled, elastic lateral guide of the knife ensures fail-safe sealing function.
- The specially profiled seal width in the bottom passage reduces maintenance work and guarantees safe operation.
- The compact body with stainless steel sheets effectively protects the valve against dirt and atmospheric influences.

Technical details

- Nominal diameters DN 50 ... DN 600
- Max. operating pressure PS 10 / 8 / 6 bar (based on DN)
- Face-to-face length to EN 558, basic series 20
- Flange connection to EN 1092-2, PN 10
- Standard version: Body parts made of EN-GJL-250 (GG-25), bearing plate and thrust piece made of EN-GJS-400-15 (GGG-40), U-seal and lateral seal made of elastomer (NBR), sheet-metal yoke structure made of stainless steel grade 1.4301, knife made of stainless steel grade 1.4301, stem made of stainless steel 1.4021
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Fields of application



Wastewater

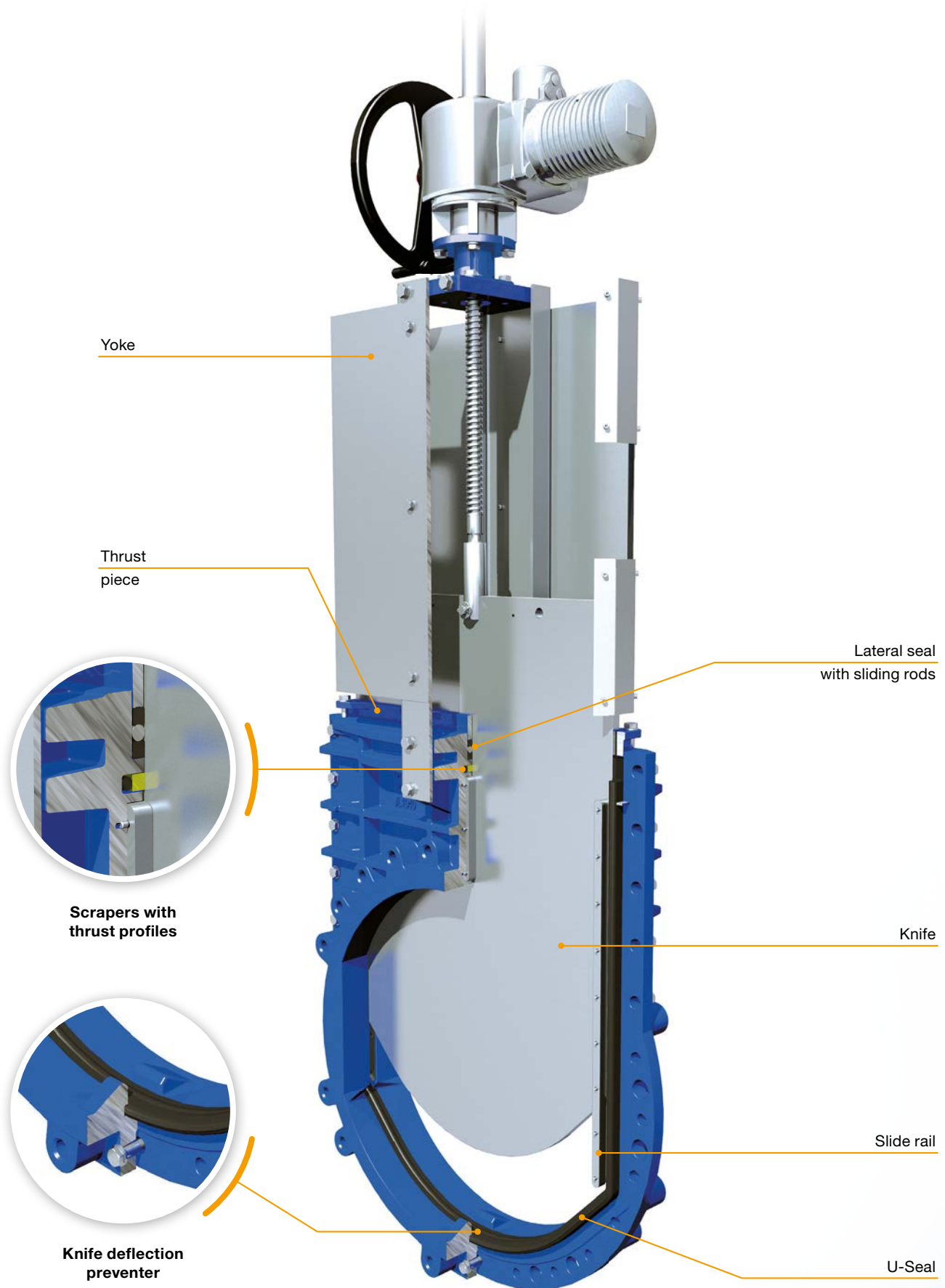


Industry

Interesting facts

- Free passage prevents deposits in the valve bore.
- Tight in both flow directions. This prevents installation errors.
- Fully flanged valve, can be used as wafer-type or end-of-line valve without additional counter-flange at full operating pressure.
- The lateral seal can be readjusted during operation and replaced without dismantling the valve from the pipeline. This reduces maintenance time and downtime.

VAG ZETA® Knife Gate Valve | DN 700+



Product features

- Integrated scraper profiles on both sides for continuous cleaning of the knife increase the safety of operation and the service life.
- Specially profiled lateral seal with double Quadring profile and integrated PTFE sliding rods for optimum guiding of the knife.
- The bearing of the knife and its axial guiding by PTFE sliding rails with elastic bearing reduce operation forces.
- The soft, profiled and elastic lateral guide of the knife ensures fail-safe sealing function.
- The specially profiled seal width in the bottom passage ensures that the valve is drop-tight.

Technical details

- Nominal diameters DN 700 ... DN 1400
- Max. operating pressure PS 4 / 2,5 / 2 bar (based on DN)
- Face-to-face length to EN 558, basic series 20
- Flange connection to EN 1092-2, PN 10
- Standard type: Body parts made of EN-GJL-250 (GG-25), bearing plate and thrust piece made of EN-GJS-400-15 (GGG-40), U-seal and lateral seal made of elastomer (NBR), yoke and sheet-metal guard made of stainless steel grade 1.4301, knife made of stainless steel grade 1.4301, stem made of stainless steel 1.4021
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Fields of application



Wastewater

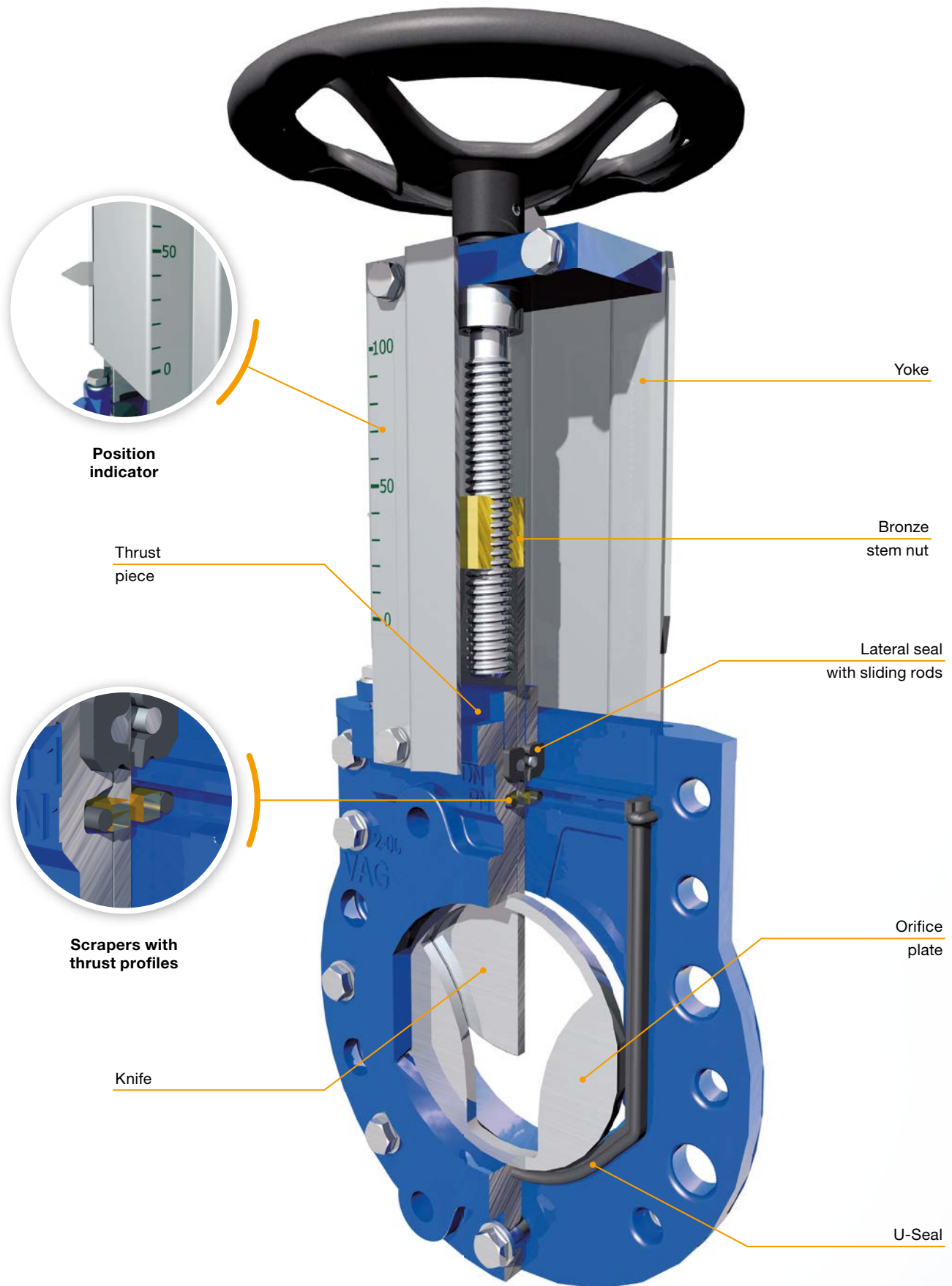


Industry

Interesting facts

- Free passage prevents deposits.
- Tight in both flow directions. This prevents installation errors.
- Fully flanged valve, can be used as wafer-type or end-of-line valve without additional counter-flange at full operating pressure.
- The lateral seal can be readjusted during operation and replaced without dismantling the valve from the pipeline. This reduces maintenance time and downtimes.

VAG ZETA® control Knife Gate Valve



Product features

- Integrated scraper profiles on both sides for continuous cleaning of the knife increase the safety of operation and the service life.
- The lateral seal can be readjusted during operation and replaced without dismantling the valve from the pipeline. This reduces maintenance time and downtimes.
- Integrated orifice plate with optimised control characteristic and free bottom passage.
- The mechanical position indicator of the knife makes the adjustment of the opening degree easier.

Technical details

- Nominal diameters DN 100 ... 600
- Max. operating pressure PS 10 / 6 / 8 bar (based on DN)
- Face-to-face length to EN 558, basic series 20
- Flange connection acc. to EN 1092-2, PN 10
- Standard version: Body parts made of EN-GJL-250 (GG-25), bearing plate and thrust piece made of EN-GJS-400-15 (GGG-40), U-seal and lateral seal made of elastomer (NBR), protection panels made of stainless steel grade 1.4301; orifice plate made of stainless steel grade 1.4571 or 1.4301 (DN 400 – 600), stem made of stainless steel grade 1.4057 (DN 50 – 350) or stainless steel grade 1.4021 (DN 400 – 600), stem nut made of brass
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Fields of application



Wastewater

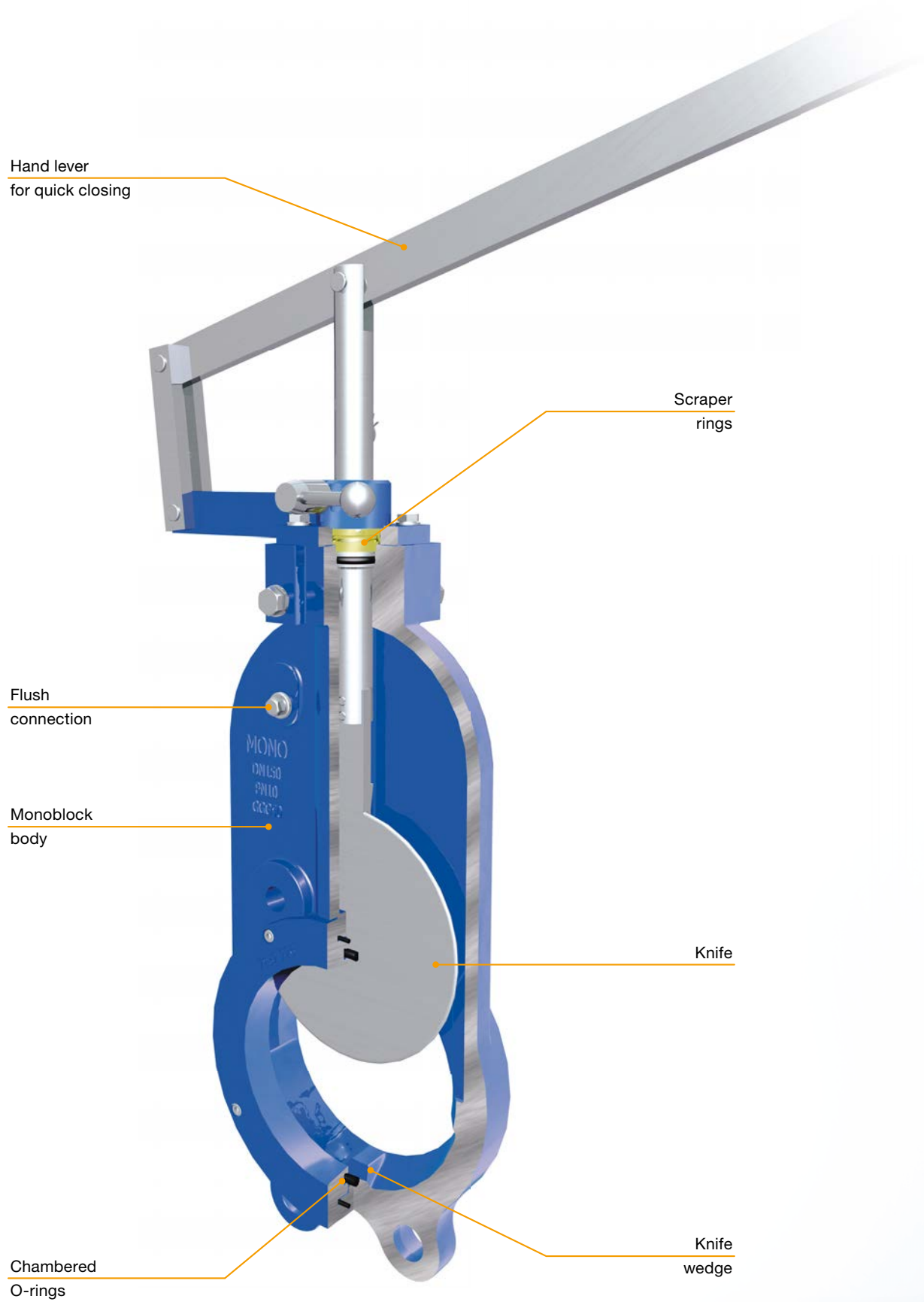


Industry

Interesting facts

- Tight in both flow directions. This prevents installation errors.
- Fully flanged valve, can be used as wafer-type or end-of-line valve without additional counter-flange at full operating pressure.
- The lateral seal can be readjusted during operation and replaced without dismantling the valve from the pipeline. This reduces maintenance time and downtime.

VAG MONO Knife Gate Valve



Product features

- Completely chambered knife ensures fail-safe sealing function.
- With flush connection (G 1/4") as a standard to prevent clogging of the pipelines.
- No lateral seal on the knife to ensure extreme ease of operation.
- Single maintenance-free shaft seal with additional scrapers increases the service life.

Technical details

- Nominal diameters DN 50 ... DN 300
- Max. operating pressure:
 - Front: PS 10 bar
 - Back: PS 10 ... 3 bar (based on DN)
- Face-to-face length to EN 558, basic series 20
- Flange connection to EN 1092-2, PN 10
- Standard type: Body parts made of EN-GJS-400-15 (GGG-40), chambered O-ring made of NBR, pressure pipe and forked part made of stainless steel grade 1.4571, knife made of stainless steel grade 1.4301, counter-flange made of steel St35
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Fields of application



Wastewater

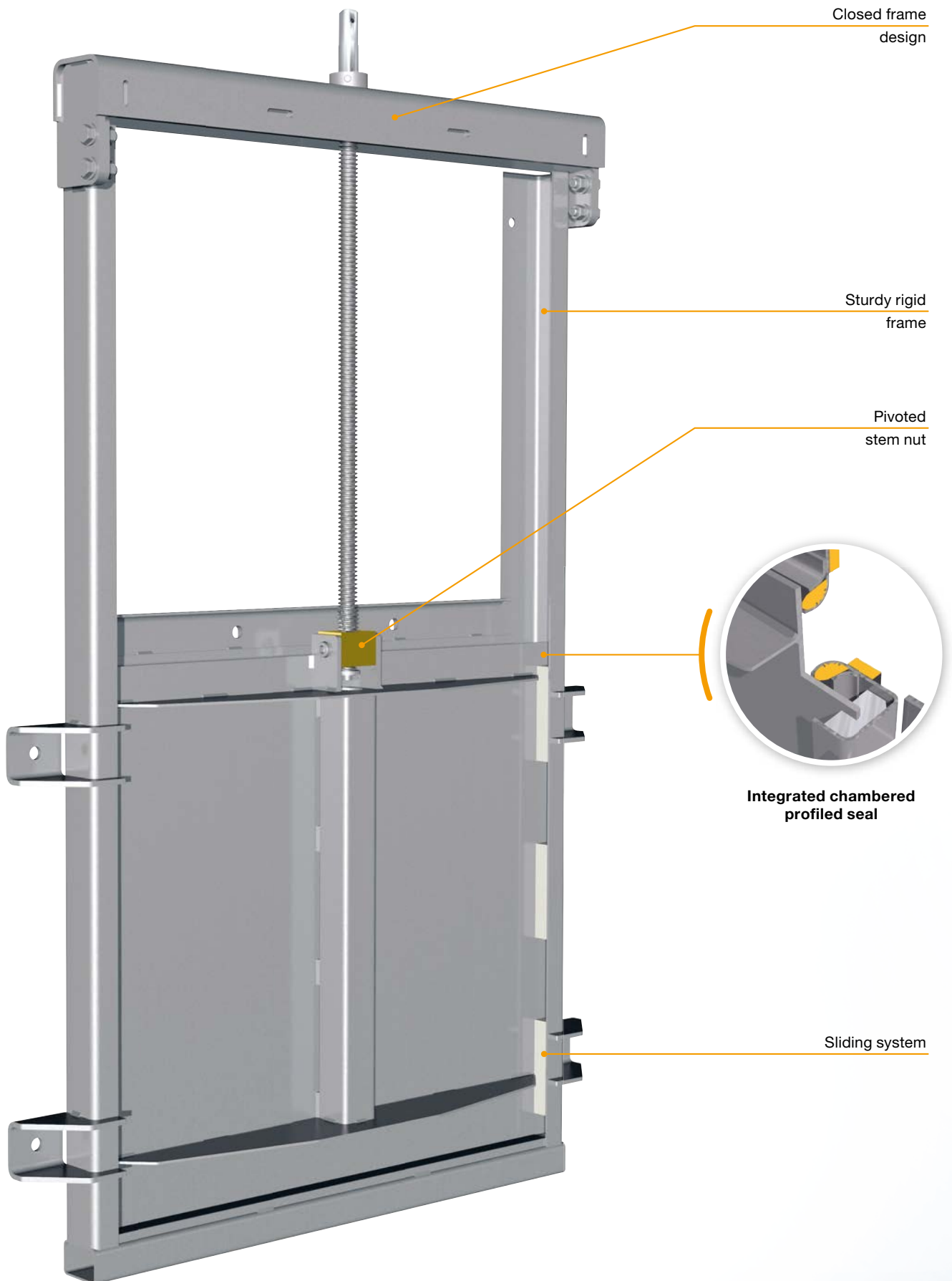


Industry

Interesting facts

- One-piece monobloc body reduces the risk of corrosion.
- Low operating torque allows very fast closing of the valve by hand lever.

VAG ERI[®]plus Penstock



Product features

- Compact valve with self-supporting frame design, factory assembled and ready for operation, allows fast installation and commissioning.
- The robust and rigid design of the frame and gate ensures high reliability of operation.
- Due to the non-rising stem and integrated stem bearing, less installation space is required.
- The pivoted stem nut reduces operating torques.
- The sliding system with plastic sliding wedges ensures vibration-free guiding of the gate inside the frame and low operating torques.

Technical details

- Standard size 150x150 ... 1000x1000
- Max. operating pressure 10 ... 4mWC (based on size)
- Standard version: Frame and knife made of stainless steel A2, stem made of stainless steel grade 1.4057, stem nut made of zinc-free wastewater-resistant bronze, sealing system made of wastewater- and UV-resistant EPDM
- All stainless steel parts immersion pickled and passivated

Fields of application



Wastewater



Industry

Interesting facts

- The seal between the valve and wall is mounted to the valve and ready for operation, making installation fast and easy.
- The on-seat and off-seat pressure acting on the gate is reliably absorbed by the sliding system, which prevents excessive pressure on the seal.
- Tightness (max. leakage 1% on-seat / 5% off-seat) considerably exceeds the requirements of DIN 19569-4

VAG EROX[®]plus Penstock



Product features

- Compact valve with self-supporting frame structure, which allows fast putting into service as it is preassembled and ready for operation.
- The sturdy and rigid design of the frame and gate ensures highly reliable operation.
- The pivoted stem nut reduces operating torques.
- The patented VAG sliding wedge system ensures vibration-free guiding of the gate in the frame and low operating torques.
- The patented VAG sliding wedge system increases the compression between the gate and profiled seal in the end position and thus improves tightness.
- The integrated and chambered profiled seal improves tightness.

Technical details

- Standard size 400x400 ... 1800x1800
- Max. operating pressure 8 / 6 mWC (based on size)
- Standard version: Frame and knife made of stainless steel 1.4301, stem made of stainless steel 1.4057, stem nut made of zinc-free wastewater-resistant bronze, sealing system made of wastewater- and UV-resistant EPDM
- With non-rising stem and integrated stem bearing
- All stainless steel parts dip pickled and passivated

Fields of application



Wastewater

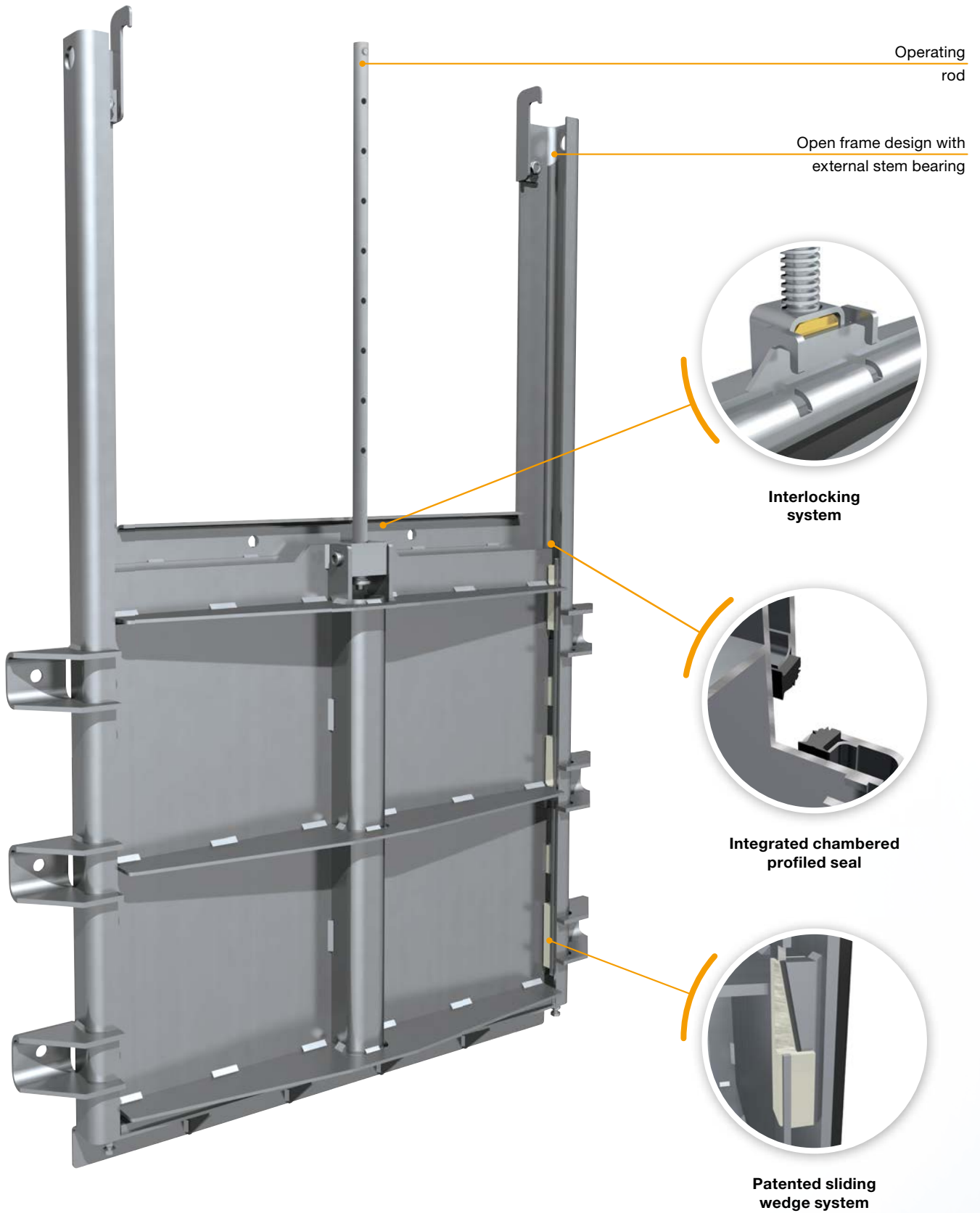


Industry

Interesting facts

- The seal between the valve and wall is mounted to the valve and ready for operation, making installation fast and easy.
- Tightness (max. leakage 1% on-seat / 3% off-seat) considerably exceeds the permissible leak rate according to DIN 19569-4 and corresponds to EN 12266-2 Leak Rate G.
- The additional interlocking system between the gate and top traverse ensures reliable tightness.
- Available in watertide version acc. to EN 12266-2 Leak Rate A.

VAG EROX[®]plus-O Penstock



Product features

- The rising-stem design allows operating elements to be placed out of the medium, where they cannot be clogged with dirt.
- Compact valve with self-supporting frame structure, which allows fast putting into service as it is preassembled and ready for operation.
- The sturdy and rigid design of the frame and gate ensures highly reliable operation.
- The pivoted stem nut reduces operating torques.
- The patented VAG sliding wedge system ensures vibration-free guiding of the gate in the frame and low operating torques.
- The patented VAG sliding wedge system increases the compression between the gate and profiled seal in the end position and thus improves tightness.
- The integrated and chambered profiled seal improves tightness.

Technical details

- Standard size 400x400 ... 1800x1800
- Max. operating pressure 8 / 6 mWC (based on size)
- Standard version: Frame and knife made of stainless steel 1.4301, stem made of stainless steel 1.4057, stem nut made of zinc-free wastewater-resistant bronze, sealing system made of wastewater- and UV-resistant EPDM
- With rising stem and integrated stem bearing
- All stainless steel parts dip pickled and passivated

Fields of application



Wastewater



Industry

Interesting facts

- The seal between the valve and wall is mounted to the valve and ready for operation, making installation fast and easy.
- Tightness (max. leakage 1% on-seat / 3% off-seat) considerably exceeds the permissible leak rate according to DIN 19569-4 and corresponds to EN 12266-2 Leak Rate G.
- The additional interlocking system between the gate and top traverse ensures reliable tightness.



The Valve Experts

Die Armaturen-Experten

