

WEY SLUICE GATE 3

for sizes 700–4000 mm

WEY SLUICE GATE 4

for sizes 200–1500 mm

Data sheet

Design

Wey Sluice Gates are of stainless steel fabricated design, and offer a performance-cost benefit, the result of over 40 years design and manufacturing experience. Features include long lasting troublefree performance, compact design and minimized leakage rat.

Construction

Self-contained construction or furnished where the operating mechanism is mounted on a floor, for embedded or modern anchoring technique. The gate is guided throughout the entire open-closed stroke thereby providing for trouble-free fluid passage and flow control.

Material

Frame, gate and stem of material 1.4404 (316L) stainless steel or equal. The integrated non-metallic gate guides are of high quality, non-aging, chemical- and UV-resistant polyethylene. The excellent gliding properties result in a low open/ close torque. All stainless steel parts are dipped and passivated.

Sealing

The flush bottom flow passage area and the one-piece resilient lip seal seat design, prevent debris from collecting and jamming in the seat area and provides for ease of maintenance. The transverse seal is protected by a scraper for long service life.

Tightness

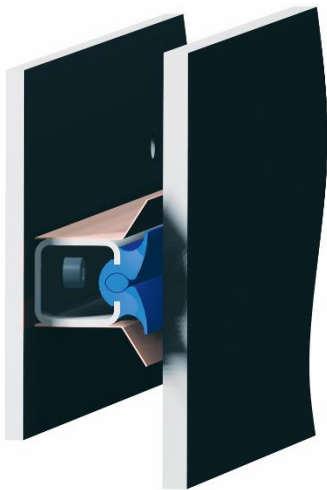
The unique seal design provides a leak tightness in any partially open position, in both seating and unseating flow direction. In close position the leak-tightness with clean water is $\leq 0,4$ l/min/m of seal length and is substantially better than DIN 19569-4 and A.W.W.A. C501 standards.



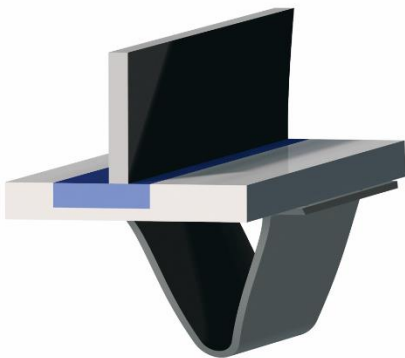
Design details



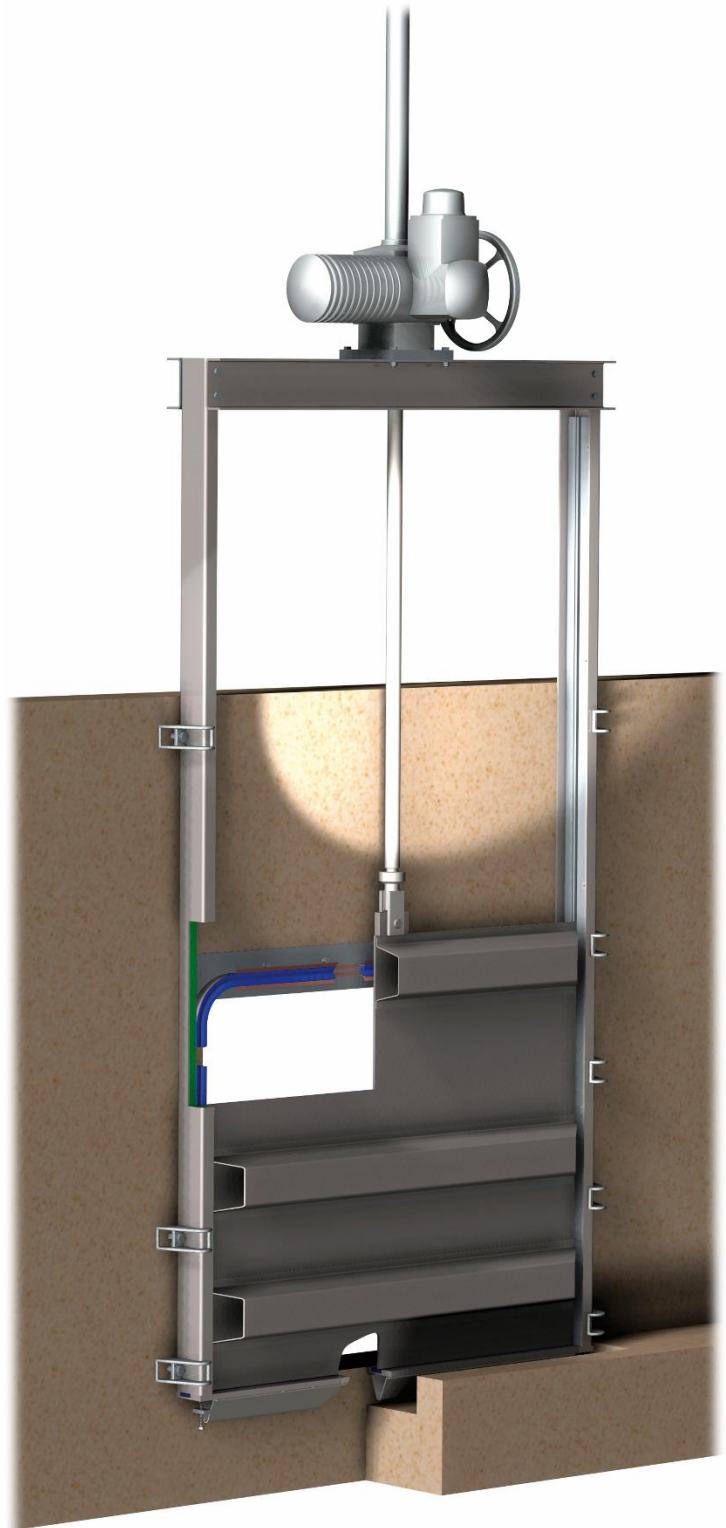
Frame with non-metallic gate guide, gate and lip seal



Transverse seal with scraper

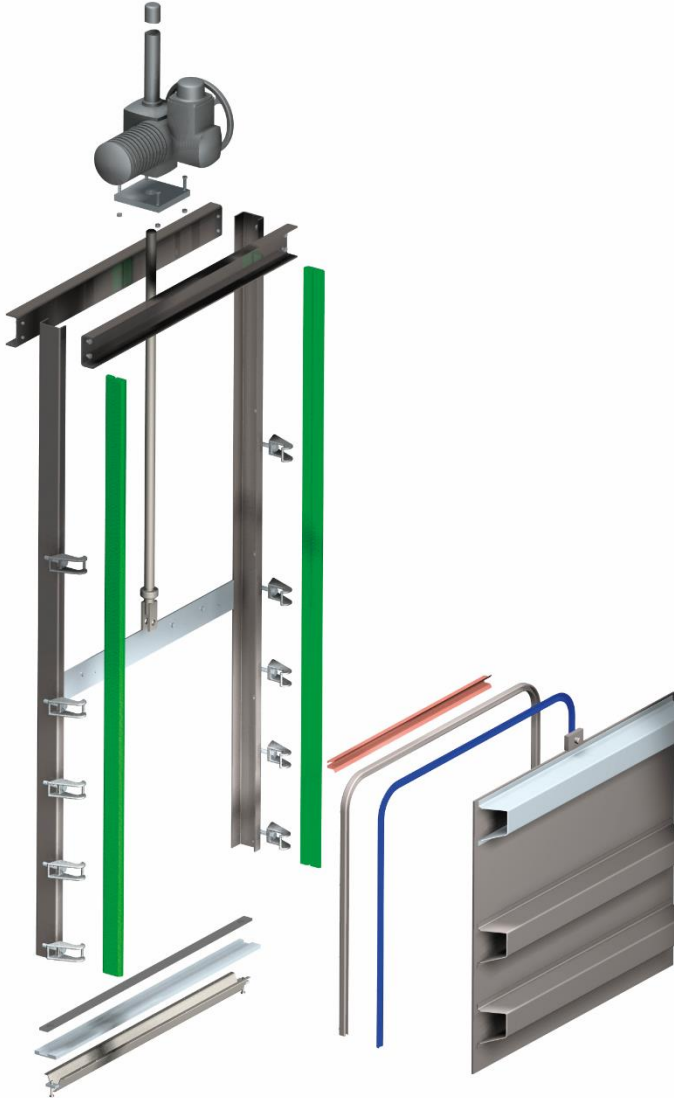


Bottom profile flush invert with reinforcement rib

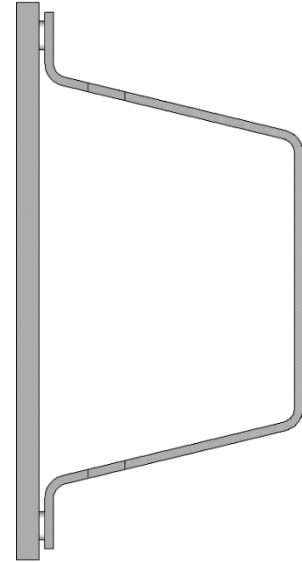


Sluice Gate – Assembly

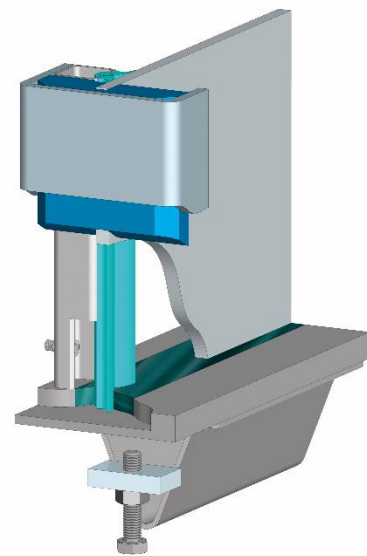
Design details



Sluice Gate – Exploded view



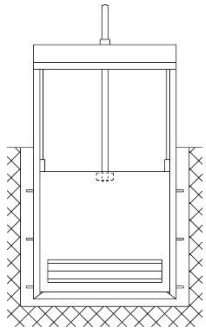
Continuous welding is avoided to prevent crevice corrosion



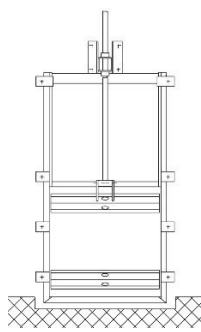
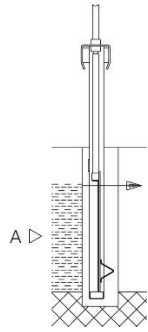
One-piece lip-seal – side seals countersunk in bottom seal

Type and actuator selection

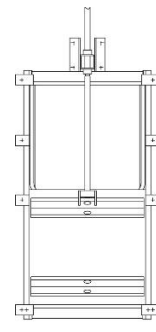
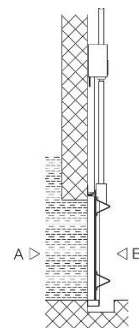
Construction



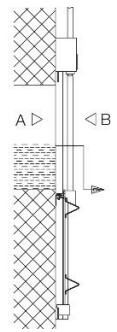
3.3 (3-sides tight)
4.3 (3-sides tight)



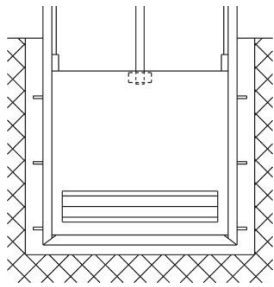
3.4 (4-sides tight)
4.4 (4-sides tight)



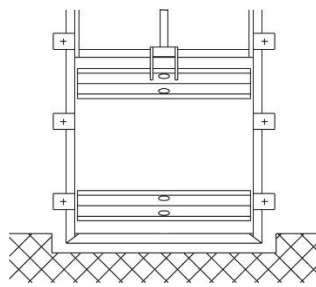
3.5 (3-sides tight)
4.5 (3-sides tight)



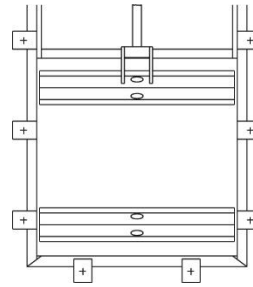
Installation method



embedded



2-sides anchored

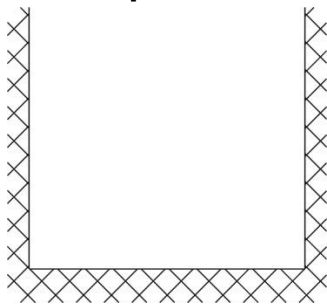


3-sides anchored

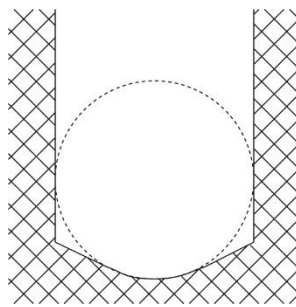


channel mounting

Bottom profile



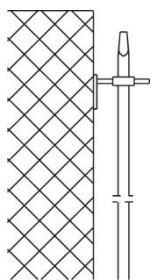
Straight bottom profile



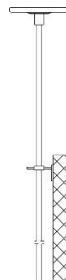
Slant/circular profile

For other profile shapes refer to factory

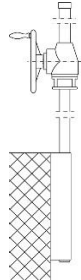
Actuator



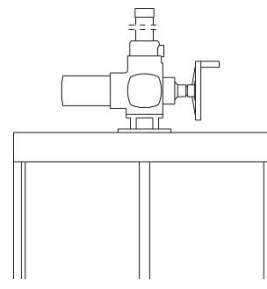
Square nut with T-Key



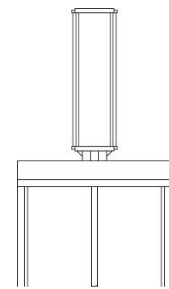
Handwheel



Bevel gear box



Electric actuator



Pneumatic cylinder