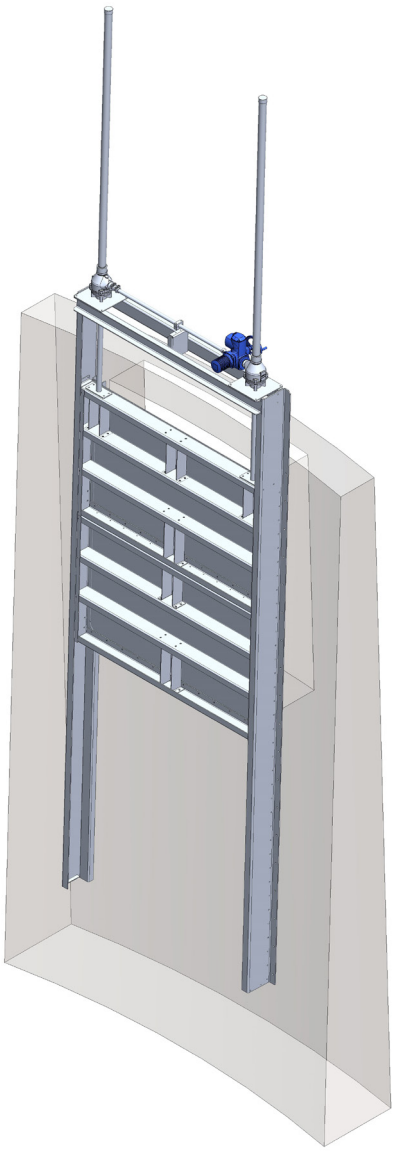
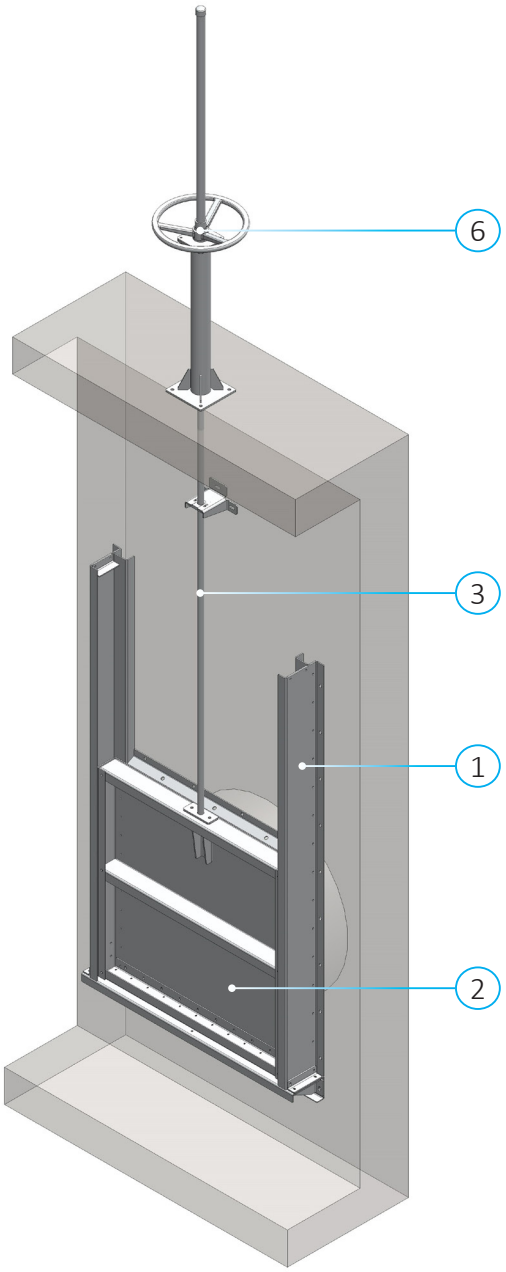
Penstocks

▷ Features & Applications

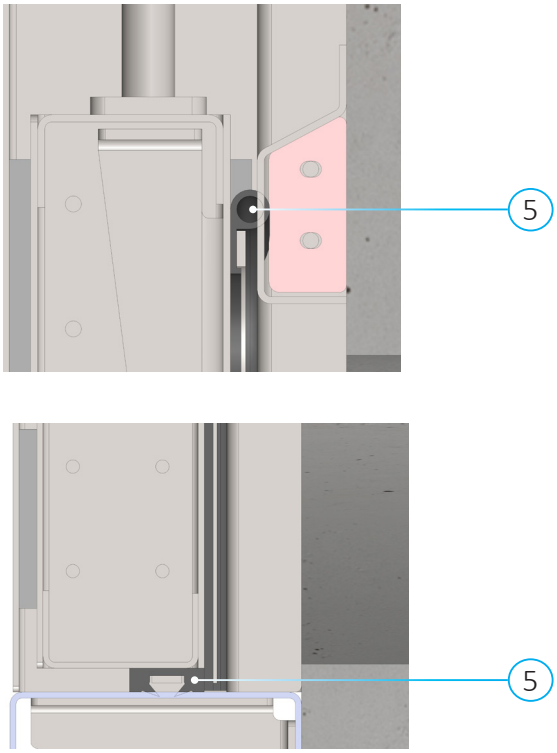
- ▷ Used for controlling the flow and water level.
- ▷ Widely used in water and wastewater treatment plants, water intake and pump stations.
- ▷ Installed to open channles and walls with square, circular and rectangular openings.
- ▷ 3 or 4 side sealing.
- ▷ Leakage rates of the seals (for 1m seal length) are approximately: 0.02lt/s for on-seat pressure, 0.04lt/s for off-seat pressure, under 6m water height. These values depend on the deflection of the gate under pressure, which can be engineered according to customer needs.
- ▷ Design standards for penstocks are DIN 19563-4 and AWWA C-561.



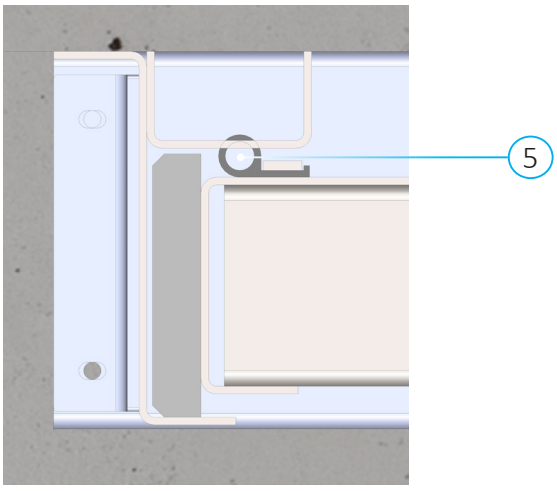
Penstocks - Wall Type



Side Section View



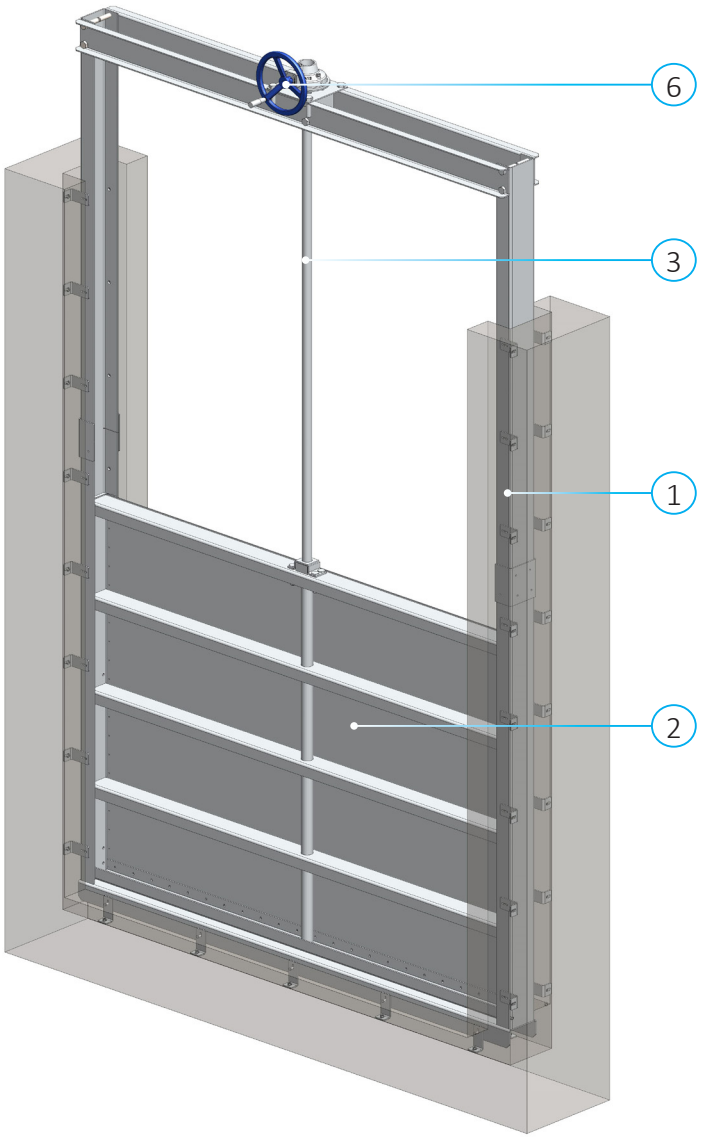
Top Section View



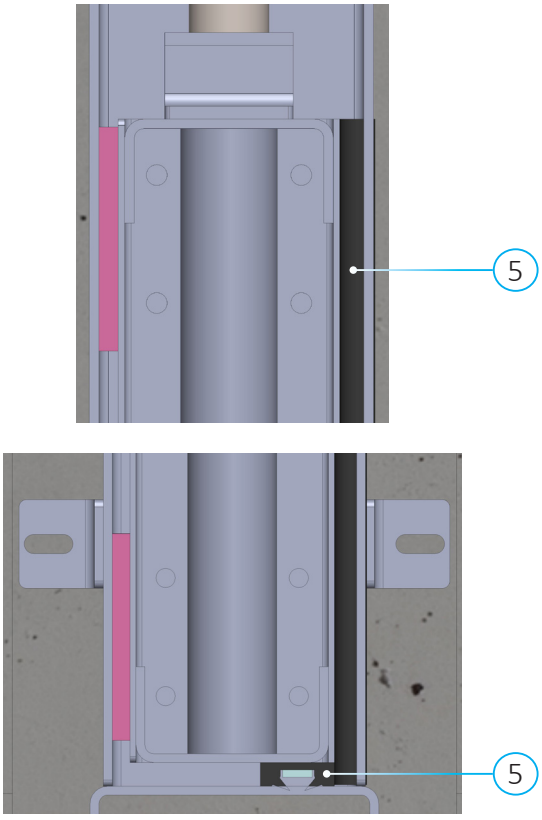
▷ Components

	Components	Materials & Options
1	Frame	Stainless steel grades
2	Door	Stainless steel grades
3	Spindle	Stainless steel grades
4	Nut	Bronze
5	Sealing	EPDM
6	Actuator	Handwheel, Bewelgearbox, Electrical, Pneumatic
	Guides	PE for Door and Spindle
	Bolts&Nuts	A2/A4

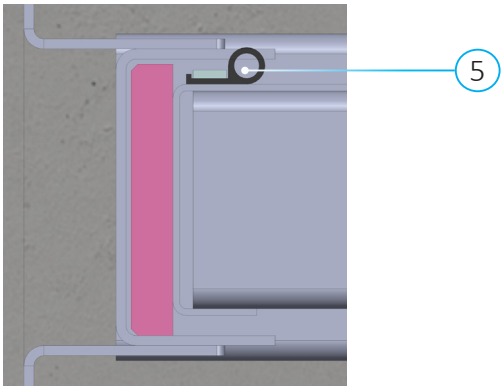
Penstocks - Channel Type



Side Section View



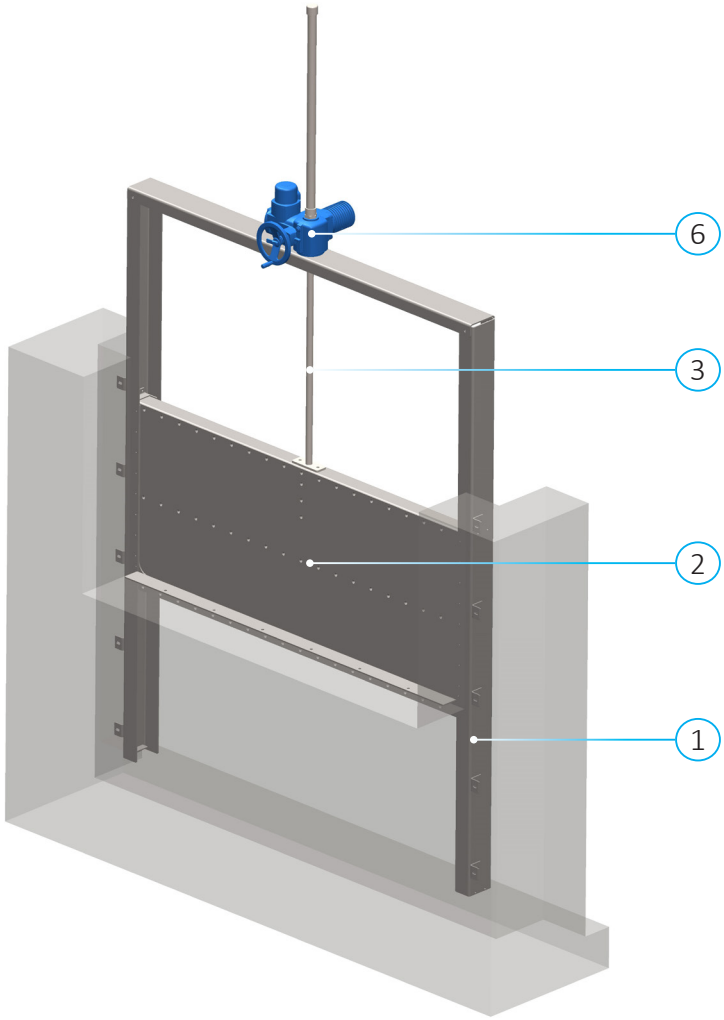
Top Section View



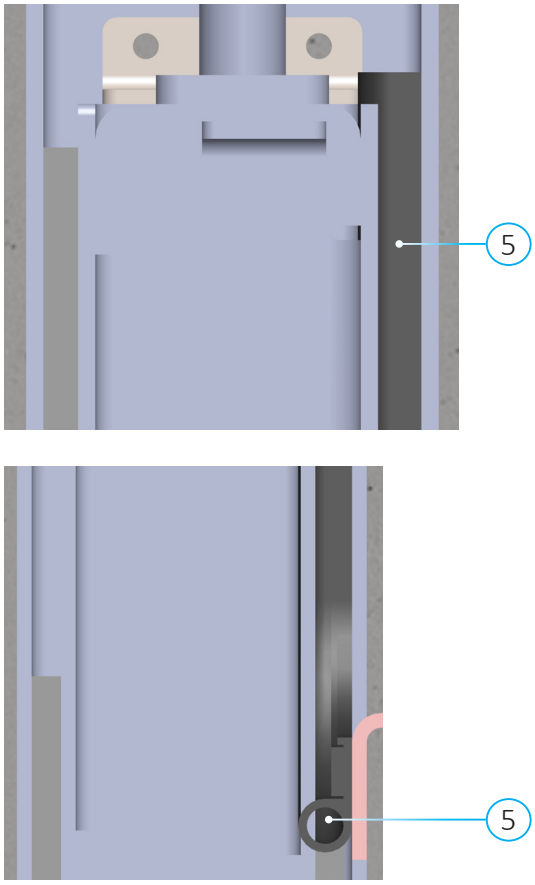
▷ Components

	Components	Materials & Options
1	Frame	Stainless steel grades
2	Door	Stainless steel grades
3	Spindle	Stainless steel grades
4	Nut	Bronze
5	Sealing	EPDM
6	Actuator	Handwheel, Bewelgearbox, Electrical, Pneumatic
	Guides	PE for Door and Spindle
	Bolts&Nuts	A2/A4

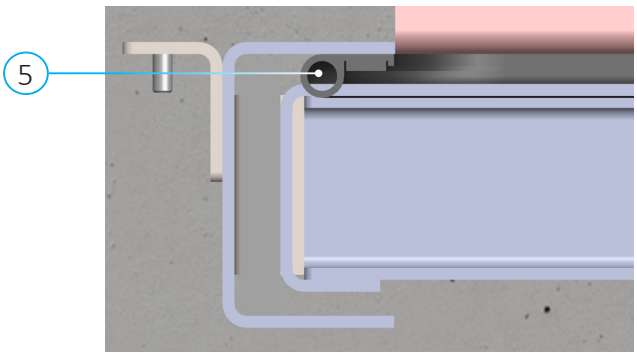
Penstocks - Weir Type



Side Section View



Top Section View



▷ Components

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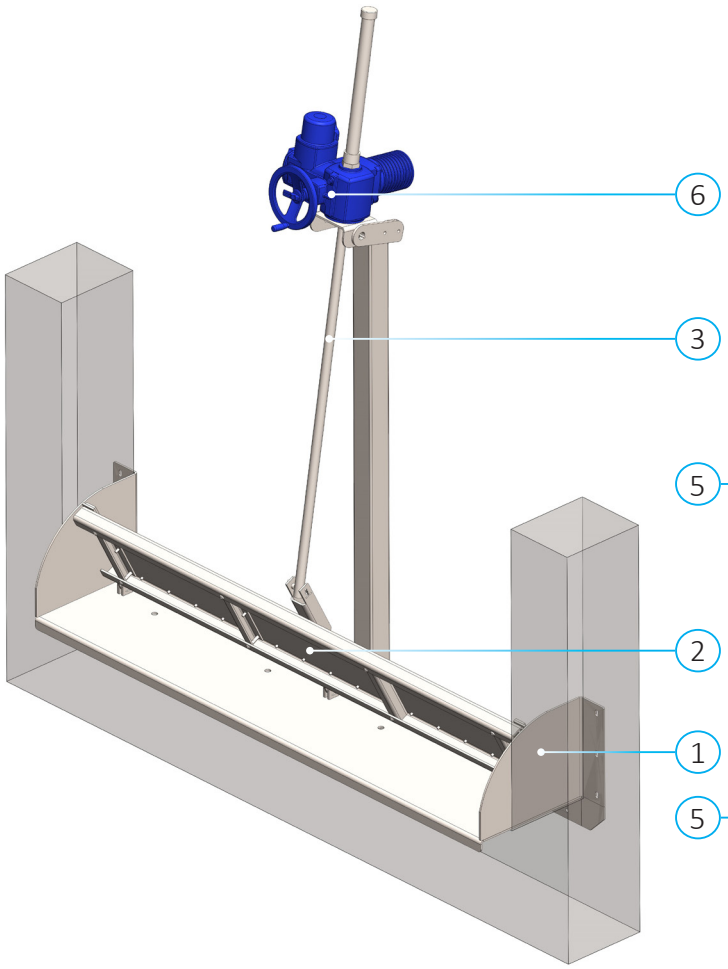
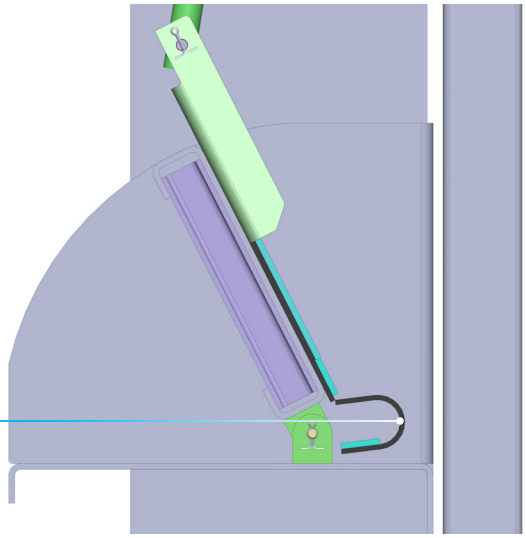
1	Frame	Stainless steel grades
2	Door	Stainless steel grades
3	Spindle	Stainless steel grades
4	Nut	Bronze
5	Sealing	EPDM
6	Actuator	Handwheel, Bewelgearbox, Electrical, Pneumatic
	Guides	PE for Door and Spindle
	Bolts&Nuts	A2/A4

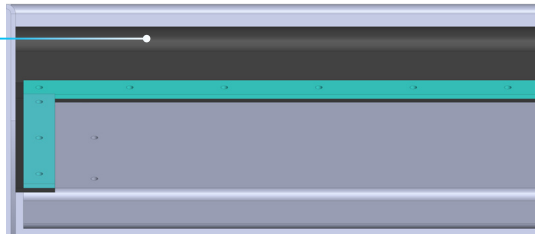
Penstocks - Tilting Weir Type



Side Section View



Top Section View



▷ Components

	Components	Materials & Options
1	Frame	Stainless steel grades
2	Door	Stainless steel grades
3	Spindle	Stainless steel grades
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	Guides	PE for Door and Spindle
	Bolts&Nuts	A2/A4