

XL4 penstock

Nominal size 100 × 100 to 1200 × 1200 mm, for round or rectangular openings, for dowelling or embedding

The high stability and reliability of the XL4 is a guarantor for a trouble-free and safe operation of the facility. With one light, but torsionally stiff sliding plate and the highgrade steel framework functioning as a sealing surface, the XL4 has an outstanding sealing quality. The sealing is mounted directly on the sliding plate and is not affected by the medium in open position.

The pre-stressed sealing gives an outstanding tightness to XL4, both in on- and off-seating conditions.

The XL4 can be supplied in all rectangular intermediate sizes up to 1200 × 1200 mm. The XL4 is also available as a circular and lowering type penstock.



Materials

Frame:	Stainless steel SS304 or SS316Ti
Sliding plate:	Stainless steel SS304 or SS316Ti
Sealing:	EPDM, wastewater resistant or NBR
Stem:	Stainless steel SS304 or SS316Ti
Stem nut:	GC-CuSn 12, seawater resistant bronze
Chem. anchor bolts:	Stainless steel S32304

Other materials available on request.

Sealing performance

- Maximum of 1 % of the allowable leakage rate acc. to DIN 19569-4 on-seating conditions
- Maximum of 5 % of the allowable leakage rate acc. to DIN 19569-4 off-seating conditions
- Steady sealing performance irrespective of water level
- Sealing anytime changeable by removing plate
- Wastewater resistant sealing material
- Pressure rate 6 m wc (0,6 bar), higher wc on request

Installation advantages

- Sealing is already installed
- Quick and easy installation with few chemical anchor bolts
- No additional adjustment for operation necessary

Operation advantages

- Maintenance free
- Self-cleaning stem nut
- Durable operating reliability
- Permanent process reliability due to the outstanding performance

Corrosion resistance

- Maximum corrosion resistance due to stainless steel material, all acid cleaned and passivated in own pickling plant

Operation

- Operating key, hand wheel, electric or pneumatic actuator, gears and a wide range of extensions: see BÜSCH MAS programme

Customisations

- XL4 D: spindle located outside the medium rising and non-rising stem
- XL4-LT: also available as a lowering type penstock

Accessories

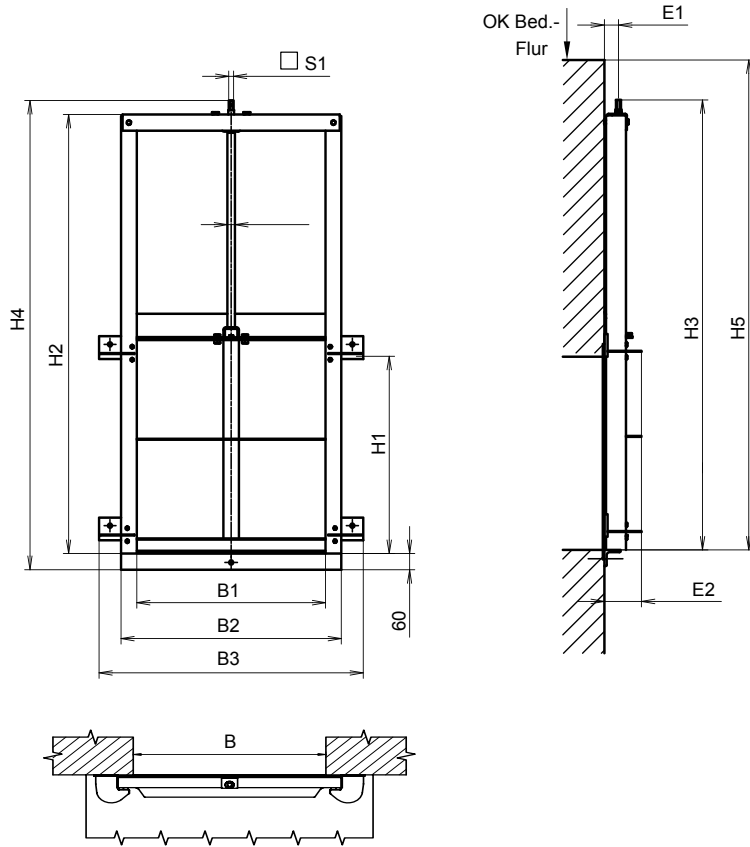
- MAS Modular Actuating System packages: see BÜSCH MAS programme
- MOBITORQ® Mobile Actuator: see brochure
- BEA® BÜSCH Electric Actuator: see brochure
- Operating key: e.g. All-in-One operating key

Areas of application

- Municipal and industrial wastewater treatment plants
- Chemical industry
- Rain reservoirs
- Flood protection
- Power plants

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B1 x H1	100 x 100	150 x 150	200 x 200	250 x 250	300 x 300	400 x 400	500 x 500	600 x 600	700 x 700	800 x 800	900 x 900	1000 x 1000	1200 x 1200
B2	160	210	260	310	360	460	600	700	820	920	1020	1120	1320
B3	300	350	400	450	500	600	740	840	1058	1158	1258	1358	1558
E1	50	50	50	50	50	50	50	50	65	65	65	65	65
E2	ca. 90	ca. 90	ca. 90	ca. 90	ca. 90	ca. 90	ca. 125	ca. 125	ca. 185	ca. 185	ca. 185	ca. 185	ca. 185
H2	28	388	488	588	688	888	1135	1335	1606	1806	2007	2207	2607
H3	348	448	548	648	748	948	1195	1395	1685	1885	2085	2285	2685
H4	393	493	593	693	793	993	1240	1440	1745	1945	2145	2345	2745
S1	□ 16	□ 16	□ 16	□ 16	□ 16	□ 16	□ 16	□ 16	□ 26	□ 26	□ 26	□ 26	□ 26
H5 min.	453	553	653	753	853	1053	1300	1500	1800	2000	2200	2400	2800
holes	2x Ø13	2x Ø13	2x Ø13	2x Ø13	2x Ø13	4x Ø13	4x Ø13	4x Ø13	4x Ø19	4x Ø19	6x Ø19	6x Ø19	6x Ø19
Turns/Str. (app.)	21	31	41	51	61	81	101	121	141	161	181	201	241



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