

STAINLESS STEEL BI-DIRECTIONAL KNIFE GATE VALVE

The stainless steel EB model is a bi-directional full bore knife gate valve designed for general industrial service applications. The design of the body and seat assures non-clogging shut off on suspended solids in industries such as:

- Pulp & Paper
- Wastewater treatment plants
- Food and Beverage
- Chemical plants
- Fish industry
- etc.

Product description

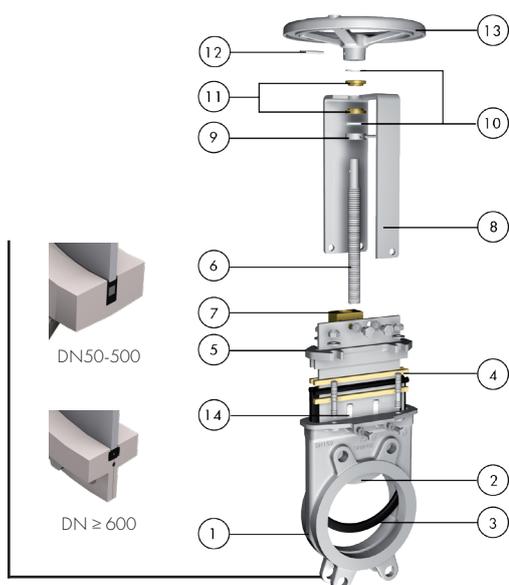
- Stainless steel bi-directional wafer type knife gate valve
- Size range of DN50-800 (larger upon request). See Dimension Charts for pressure rating
- Non-rising stem as standard. Rising stem also available
- Standard flange connection: EN - 1092 PN10 and ASME B16.5 (class 150). Others upon request
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available
- For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance - Knife Gate Valves - Catalogues and Datasheets

Features

- Wafer monoblock stainless steel cast design up to DN 500 with special seal housing machining for a perfect adjustment of the body with the gate and the seal, reducing the operation torque, maintaining tightness and avoiding any build-up
- Two-part bolted body design from DN 600 and above
- Full port design for greater flow capacity and minimal pressure drop
- Suitable for dead-end service up to DN 300 to the full rating
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Standard EPDM seat with metallic core
- Long life PTFE impregnated synthetic fibre plus EPDM o-ring packing with easy access and adjustable gland follower. Wide range of packing materials available
- Automated valves provided with gate guards in accordance with EU Safety Standards
- Other options: V-ports, special materials, fabricated valves, etc.
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands



STANDARD PARTS LIST

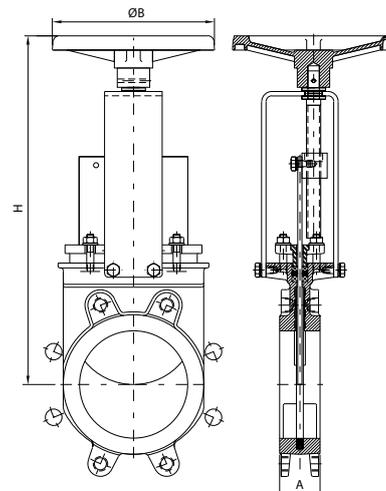


Part	Description
1	Body CF8M
2	Gate AISI 316
3	Seat EPDM / NBR
4	Packing PTFE Impreg. Synth. Fibre (ST) + EPDM O-ring
5	Gland follower CF8M
6	Stem Stainless Steel
7	Stem nut Brass
8	Yoke AISI 304
9	Axial fixing bush AISI 304
10	Friction washer PET + solid lubricant
11	Bushing Bronze
12	Spring pin AISI 420 (ISO 8752)
13	Handwheel DN≤310: Aluminium (AISI12); DN≥410 EN-GJS400
14	Slider (up to DN300) Nylon

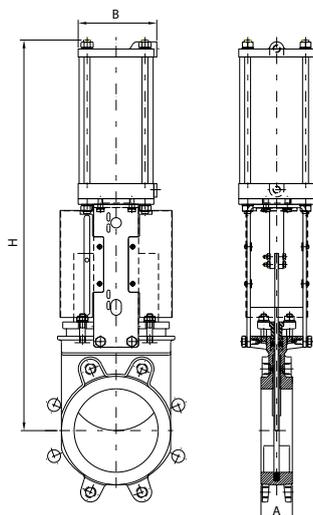
Handwheel Non-Rising Stem

DN	W. pressure	A	ØB	H	Weight (Kg)
50	16 bar	43	225	312	9
65	16 bar	46	225	339	10
80	16 bar	46	225	364	11
100	16 bar	52	225	405	13
125	16 bar	56	225	439	15
150	10 bar	56	225	485	17
200	10 bar	60	310	595	30
250	10 bar	68	310	695	43
300	6 bar	78	310	785	58
350	6 bar	78	410	932	92
400	6 bar	89	410	1017	113
450	5 bar	89	550	1119	168
500	4 bar	114	550	1219	193
600	4 bar	114	550	1379	271

A: EN558 series 20 up to DN350, for DN400 and above acc. MSS SP-81 standard



Pneumatic Cylinder



DN	W. pressure	A	B	H	Connect.	Weight (Kg)
50	16 bar	43	115	412	1/4" G	10
65	16 bar	46	115	454	1/4" G	11
80	16 bar	46	115	497	1/4" G	13
100	16 bar	52	115	558	1/4" G	14
125	16 bar	56	140	632	1/4" G	21
150	10 bar	56	140	703	1/4" G	23
200	10 bar	60	175	872	1/4" G	40
250	10 bar	68	220	1042	3/8" G	59
300	6 bar	78	220	1182	3/8" G	75
350	6 bar	78	277	1374	3/8" G	131
400	6 bar	89	277	1509	3/8" G	155
450	5 bar	89	382	1688	1/2" G	225
500	4 bar	114	382	1838	1/2" G	253
600	4 bar	114	382	2098	1/2" G	343
700	2 bar	114	444	2461	3/4" G	480
800	2 bar	117	444	2704	3/4" G	585

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Electric Actuator Non Rising Stem

DN	W. pressure	A	C	ØG	H	D	E	F	G	Torque (Nm)	Weight (Kg)
50	16 bar	43	370	160	545	265	249	72	238	10	66
65	16 bar	46	397	160	572	265	249	72	238	10	67
80	16 bar	46	422	160	597	265	249	72	238	10	69
100	16 bar	52	463	160	638	265	249	72	238	10	71
125	16 bar	56	497	160	672	265	249	72	238	15	73
150	10 bar	56	543	160	718	265	249	72	238	20	75
200	10 bar	60	681	160	856	265	249	82	238	30	88
250	10 bar	68	751	160	926	265	249	82	238	45	102
300	6 bar	78	841	160	1016	265	249	82	238	40	118
350	6 bar	78	925	200	1100	283	254	128	248	70	117
400	6 bar	89	1010	200	1185	283	254	128	248	90	138
450	5 bar	89	1112	200	1287	283	254	130	248	110	203
500	4 bar	114	1212	200	1387	283	254	130	248	95	229
600	4 bar	114	1500	315	1685	389	336	130	286	140	336
700	2 bar	114	1680	315	1865	389	336	202	285	120	-
800	2 bar	117	1855	315	2040	389	336	202	286	180	-

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