

BI-DIRECTIONAL KNIFE GATE VALVE

The IB model knife gate is a bi-directional stainless steel 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:

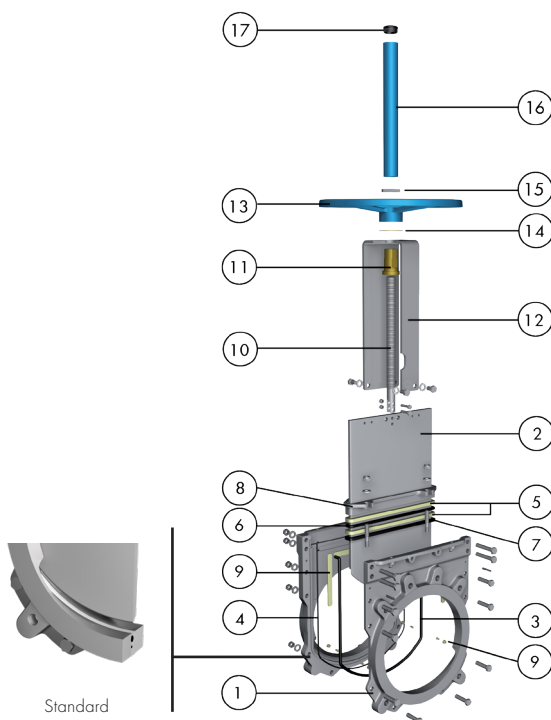
- Pulp and Paper
- Petrochemical
- Bulk handling
- Wastewater treatment plants
- etc.

Product description

- Bi-directional wafer type high pressure knife gate valve
- Size range of DN 50-700 (larger sizes on request). 10 bar pressure rating
- Rising stem as standard. Non-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
- Directives: For specific EU Directives and other Certificates requirements, please see the Directives & Certificates Compliance - Knife Gate Valves – Catalogues and Datasheets

Features

- Split body stainless steel with special seal housing machined for a perfect adjustment of the body with the gate and the seal, resulting in low operation torque, optimum tightness and avoiding any build-up
- Full port design for greater flow capacity and minimal pressure drop
- Suitable for dead-end service to the full rating
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Standard NBR seat
- New packing system. Wide range packing materials available
- Automated valves provided with gate guards in accordance with EU Safety Standards
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands

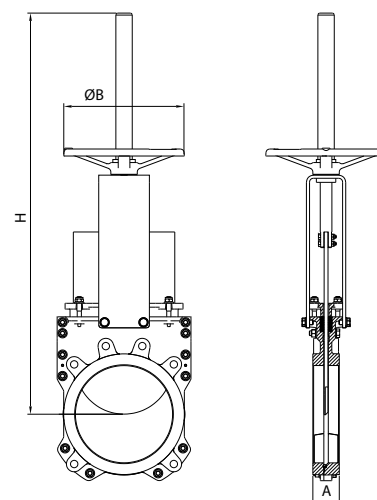


STANDARD PARTS LIST

Part	Materials
1 Body	CF8M
2 Gate	AISI 316
3 Seat	NBR
4 O-ring	NBR
5 Packing	PTFE Impreg. Synth. Fibre (ST)
6 Packing O-ring	NBR
7 Packing resilient	NBR
8 Gland follower	CF8M
9 Sliders	Glass filled PTFE
10 Stem	Stainless Steel
11 Stem nut	Brass
12 Yoke	AISI 304
13 Handwheel	EN-GJS400
14 Friction washer	Brass
15 Nut	Zinc Plated Carbon Steel
16 Stem protector	Carbon steel - Epoxy coated
17 Cap	Plastic

Handwheel Rising Stem

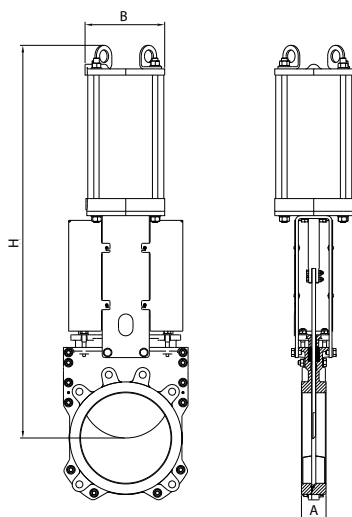
DN	Pressures	A	H	ØB
50	10 bar	43	420	225
80	10 bar	46	475	225
100	10 bar	52	520	225
150	10 bar	56	652	225
200	10 bar	60	822	310
250	10 bar	68	1022	310
300	10 bar	78	1122	410
350	10 bar	78	1323	410
400	10 bar	89	1427	410
450	10 bar	89	1594	550
500	10 bar	114	1707	550
600	10 bar	114	2022	550



Pneumatic Cylinder

DN	Pressures	A	B	H	Connect.
50	10 bar	43	115	420	1/4"G
80	10 bar	46	115	505	1/4"G
100	10 bar	52	115	560	1/4"G
150	10 bar	56	140	708	1/4"G
200	10 bar	60	175	872	1/4"G
250	10 bar	68	220	1042	3/8"G
300	10 bar	78	220	1192	3/8"G
350	10 bar	78	277	1387	3/8"G
400	10 bar	89	277	1541	3/8"G
450	10 bar	89	382	1710	1/2"G
500	10 bar	114	382	1873	1/2"G
600	10 bar	114	382	2178	1/2"G
700	10 bar	165	530	3350	3/4"G

Note: pneumatic cylinder sizing for sizes DN 300mm and above are based on EX pressure ratings



Electric Actuator

DN	Pressures	A	C	ØB	H	D	E	F	G	Torque (Nm)
50	10 bar	43	377	160	547	265	249	62	238	10
80	10 bar	46	429	160	599	265	249	62	238	10
100	10 bar	52	470	160	640	265	249	62	238	10
150	10 bar	56	555	160	1055	265	249	62	238	20
200	10 bar	60	669	160	1169	265	249	62	238	30
250	10 bar	68	769	160	1269	265	249	62	238	45
300	10 bar	78	869	200	1369	283	254	65	248	40
350	10 bar	78	940	200	1440	283	254	65	248	70
400	10 bar	89	1044	315	1544	389	336	91	286	90
450	10 bar	89	1172	315	1672	389	336	91	286	110
500	10 bar	114	1280	400	1780	389	339	91	286	95
600	10 bar	114	1565	400	2065	389	339	91	286	140
700	10 bar	165	1763	500	2846	430	365	117	303	490

