

BI-DIRECTIONAL KNIFE GATE VALVE

The Series 56 (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:

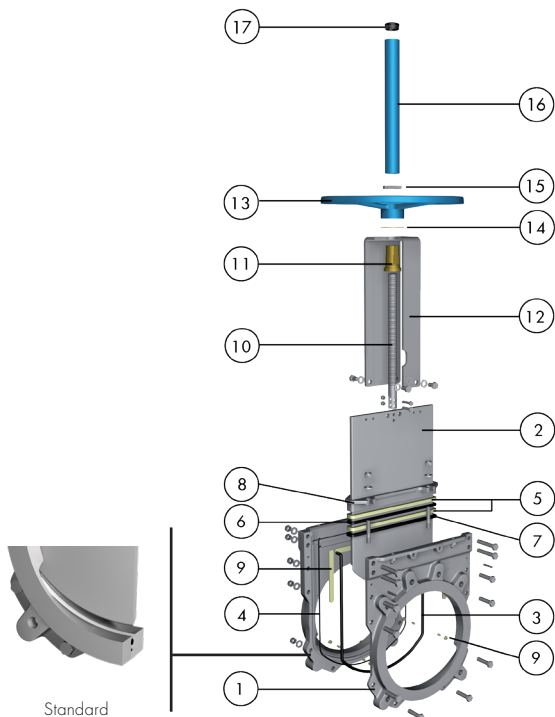
- Pulp and Paper
- Bulk handling,
- Petrochemical
- Wastewater treatment plants
- etc.

Product description

- Bi-directional wafer type high pressure knife gate valve
- Size range of DN 2in-28in (larger sizes on request). 150psi pressure rating
- Rising stem as standard. Non-rising stem also available
- Standard flange connection: ASME B16.5 (class 150) and EN-1092 PN10. 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. Only EU
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands

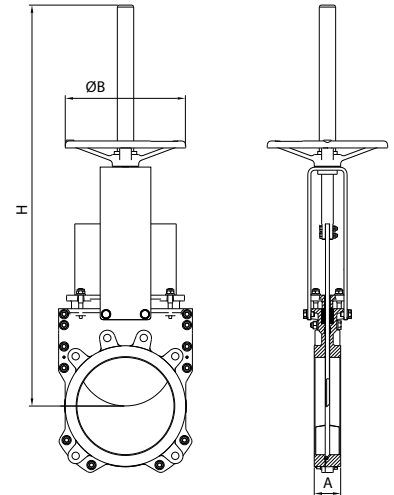


STANDARD PARTS LIST

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

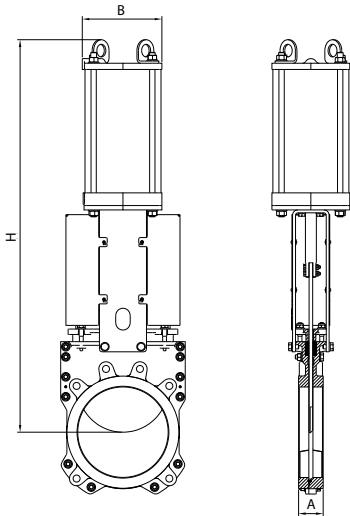
DN (in)	Pressures	A (in)	H (in)	ØB (in)
2	150 psi	1,69	16,54	8,86
3	150 psi	1,81	18,70	8,86
4	150 psi	2,05	20,47	8,86
6	150 psi	2,20	25,67	8,86
8	150 psi	2,36	32,36	12,20
10	150 psi	2,68	40,24	12,20
12	150 psi	3,07	44,17	16,14
14	150 psi	3,07	52,09	16,14
16	150 psi	3,50	56,18	16,14
18	150 psi	3,50	62,76	21,65
20	150 psi	4,49	67,20	21,65
24	150 psi	4,49	79,61	21,65



Pneumatic Cylinder

DN (in)	Pressures	A (in)	B (in)	H (in)	Connect.
2	150 psi	1,69	4,53	16,54	1/4"G
3	150 psi	1,81	4,53	19,88	1/4"G
4	150 psi	2,05	4,53	22,05	1/4"G
6	150 psi	2,20	5,51	27,87	1/4"G
8	150 psi	2,36	6,89	34,33	1/4"G
10	150 psi	2,68	8,66	41,02	3/8"G
12	150 psi	3,07	8,66	46,93	3/8"G
14	150 psi	3,07	10,91	54,61	3/8"G
16	150 psi	3,50	10,91	60,67	3/8"G
18	150 psi	3,50	15,04	67,32	1/2"G
20	150 psi	4,49	15,04	73,74	1/2"G
24	150 psi	4,49	15,04	85,75	1/2"G
28	150 psi	6,50	20,87	131,89	3/4"G

Note: pneumatic cylinder sizing for sizes DN 12in and above are based on Series 10 (EX) pressure ratings



Electric Actuator

DN (in)	Pressure	A (in)	C (in)	ØB (in)	H (in)	D (in)	E (in)	F (in)	G (in)	Torque (ft.LBS)
2/50	150 psi	1,69	14,84	6,30	21,54	10,43	9,80	2,44	9,37	7,4
3/80	150 psi	1,81	16,89	6,30	23,58	10,43	9,80	2,44	9,37	7,4
4/100	150 psi	2,05	18,50	6,30	25,20	10,43	9,80	2,44	9,37	7,4
6/150	150 psi	2,20	21,85	6,30	41,54	10,43	9,80	2,44	9,37	14,8
8/200	150 psi	2,36	26,34	6,30	46,02	10,43	9,80	2,44	9,37	22,2
10/250	150 psi	2,68	30,28	6,30	49,96	10,43	9,80	2,44	9,37	33,3
12/300	150 psi	3,07	34,21	7,87	53,90	11,14	10,00	2,56	9,76	29,5
14/350	150 psi	3,07	37,01	7,87	56,69	11,14	10,00	2,56	9,76	51,8
16/400	150 psi	3,50	41,10	12,40	60,79	15,31	13,23	3,58	11,26	66,38
18/450	150 psi	3,50	46,14	12,40	65,83	15,31	13,23	3,58	11,26	81,4
20/500	150 psi	4,49	50,39	15,75	70,08	15,31	13,35	3,58	11,26	70,06
24/600	150 psi	4,49	61,61	15,75	81,30	15,31	13,35	3,58	11,26	103,26
28/700	150 psi	6,50	69,41	19,69	112,05	16,93	14,37	4,61	11,93	361,4

