

RUBBER SLEEVE KNIFE GATE VALVE

The Series 65 (WG) model knife gate is a bi-directional full flanged valve equipped with two metal reinforced rubber sleeves designed for use in the handling of abrasive slurries, mainly in industries such as:

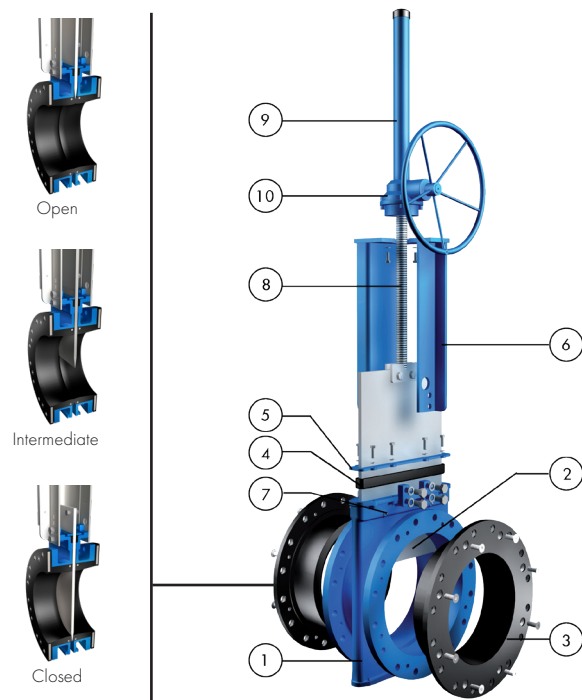
- Mining
- Chemical plants
- Power plants
- Wastewater treatment plants
- etc.

Product description

- Bi-directional full flanged heavy duty knife gate valve
- Size range of DN 2in-40in (larger sizes available). See Dimension Charts for pressure rating
- Rising stem
- Standard flange connection: EN 1092 PN10, ASME B16.5 (class 150) and AS 2129 Table D & E.. Others upon request
- Manual (handwheel 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

- Full flange cast monoblock body with two machined lateral mouths where the sleeves fit perfectly and grease nipples to lubricate the gate
- Open at the bottom for draining purposes, also available with covers or splash guards
- Rectangular shaped stainless steel gate, polished both sides to reduce friction and avoid seat damage
- Metal reinforced rubber sleeve seats, designed to allow maximum flexibility and minimum effort during gate travel
- EPDM packing as standard. Conventional leak proof packing also available
- RAL-5015 blue epoxy-coating on all cast iron/carbon steel components
- Automated valves provided with gate guards in accordance with EU Safety Standards. Only in EU
- Other options: open-closed lockout system, flush ports, special materials, fabricated valves, gate coatings, etc.
- Actuation accessories: limit & proximity switches, mechanical stops, solenoid valves, manual overrides, fail safe systems, stem extensions and floor stands



STANDARD PARTS LIST

Part	Materials	
1 Body	Ductile iron A536 (60-40-18) / 0.7040 / EN-GJS400	
2 Gate	AISI 304 / AISI 316	
3 Sleeves	Natural rubber / EPDM	
4 Packing	EPDM	
5 Gland follower	A570 GR.40 / 1.0044 Epoxy coated	
6 Yoke	A570 GR.40 / 1.0044 Epoxy coated	
7 Grease nipple	Zinc coated carbon-steel	
8 Stem	Stainless steel	
9 Stem protector	A570 GR.40 / 1.0044 Epoxy coated	
10 Bevel gear	-	

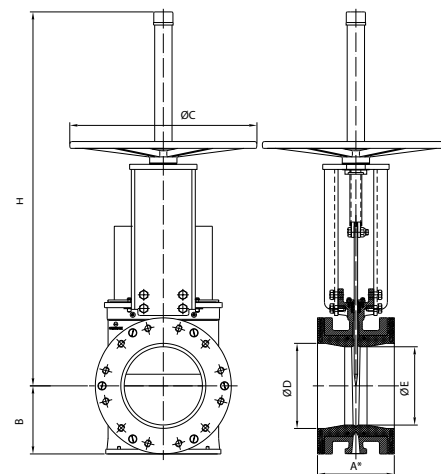
Handwheel Rising Stem

DN (in)	Pressures	A1* (in)	A2* (in)	B (in)	ØC (in)	H (in)	ØD (in)	ØE (in)	Weight (lbs.)
2	150 psi	6,50	6,77	3,35	8,86	18,11	1,97	1,77	44
2,5	150 psi	6,88	7,20	3,78	8,86	19,48	2,83	2,44	51
3	150 psi	6,88	7,20	3,78	8,86	19,48	2,83	2,44	51
4	150 psi	6,88	7,20	4,53	12,20	25,39	4,00	3,34	69
5	150 psi	7,00	7,32	5,12	12,21	28,15	4,77	4,33	88
6	150 psi	7,00	7,32	5,55	12,20	29,33	5,83	5,39	95
8	150 psi	7,24	7,55	6,81	16,14	37,20	7,76	6,89	148

A1*: installed face to face

A2*: minimum required dimension for installation

Standard manual actuator, available from 2in to 8in (larger diameters on request) and recommended with gearbox from 8in and above



Pneumatic Cylinder

DN (in)	Pressures	A1* (in)	A2* (in)	B (in)	C (in)	H (in)	ØD (in)	ØE (in)	Connect.	Weight (lbs.)
2	150 psi	6,50	6,77	3,35	4,53	20,91	1,97	1,77	1/4" G	52
2,5	150 psi	6,88	7,20	3,78	4,53	24,45	2,83	2,44	1/4" G	58
3	150 psi	6,88	7,20	3,78	5,51	24,45	2,83	2,44	1/4" G	62
4	150 psi	6,88	7,20	4,53	5,51	26,30	4,00	3,34	1/4" G	73
5	150 psi	7,00	7,20	5,12	6,89	32,76	4,76	4,33	1/4" G	106
6	150 psi	7,00	7,32	5,55	6,89	35,15	5,83	5,39	1/4" G	115
8	150 psi	7,24	7,55	6,81	8,66	42,01	7,76	6,89	3/8" G	183
10	150 psi	8,88	9,17	8,03	10,90	48,03	10,00	9,05	3/8" G	289
12	150 psi	10,11	10,39	9,61	13,18	55,12	11,50	10,75	1/2" G	470
14	150 psi	10,11	10,39	10,55	17,48	61,42	13,27	12,52	3/4" G	629
16	150 psi	11,00	11,29	11,81	17,48	66,93	14,77	14,02	3/4" G	748
18	90 - 150 psi ¹	12,24	12,55	12,60	20,27	75,98	16,73	14,88	3/4" G	951
20	90 - 150 psi ¹	14,13	14,44	14,13	20,27	82,48	18,50	16,53	3/4" G	1176
24	90 - 150 psi ¹	14,62	14,96	16,61	20,27	92,13	23,03	21,22	3/4" G	-

A1*: installed face to face

A2*: minimum required dimension for installation

¹ Duplex gate for 150 psi

Electric Actuator Rising Stem

DN (in)	Pressures	A1* (in)	A2* (in)	B (in)	ØC (in)	H (in)	F (in)	G (in)	I (in)	J (in)	ØD (in)	ØE (in)
2	150 psi	6,50	6,77	3,35	6,30	24,33	10,43	9,80	2,44	9,37	1,97	1,77
2,5	150 psi	6,88	7,20	3,78	6,30	26,06	10,43	9,80	2,44	9,37	2,83	2,44
3	150 psi	6,88	7,20	3,78	6,30	26,06	10,43	9,80	2,44	9,37	2,83	2,44
4	150 psi	6,88	7,20	4,53	6,30	27,09	10,43	9,80	2,44	9,37	4,00	3,34
5	150 psi	7,00	7,20	5,12	6,30	45,59	10,43	9,80	2,44	9,37	4,76	4,33
6	150 psi	7,00	7,32	5,55	6,30	45,59	10,43	9,80	2,44	9,37	5,83	5,39
8	150 psi	7,24	7,55	6,81	7,87	50,08	11,14	10,00	2,55	9,76	7,76	6,89
10	150 psi	8,88	9,17	8,03	7,87	54,60	11,14	10,00	2,55	9,76	10,00	9,05
12	150 psi	10,11	10,39	9,61	7,87	57,24	11,14	10,00	2,55	9,76	11,50	10,75
14	150 psi	10,11	10,39	10,55	12,40	63,07	15,31	13,22	3,58	11,25	13,27	12,52
16	150 psi	11,00	11,29	11,81	12,40	66,54	15,31	13,22	3,58	11,25	14,77	14,02
18	90 - 150 psi ¹	12,24	12,55	12,60	16,10	71,73	15,31	13,22	3,58	11,25	16,73	14,88
20	90 - 150 psi ¹	14,13	14,44	14,13	16,00	75,79	15,31	13,34	3,58	11,25	18,50	16,53
24	90 - 150 psi ¹	14,62	14,96	16,61	20,00	83,46	16,93	14,37	4,52	11,93	23,03	21,22
25	75 - 150 psi	14,88	15,28	18,70	15,75	109,06	15,32	13,35	3,54	11,26	24,98	23,50
28	75 - 150 psi	14,88	15,28	18,70	15,75	109,06	15,32	13,35	3,54	11,26	24,98	23,50
30	75 - 150 psi	15,57	15,94	20,94	20,00	113,38	16,93	14,37	4,52	11,93	29,02	26,77
32	75 - 150 psi	18,50	18,90	22,05	19,69	119,49	16,93	14,37	4,53	11,93	31,06	28,30
33	75 - 150 psi	18,50	18,90	22,05	19,69	119,49	16,93	14,37	4,53	11,93	31,06	28,30
36	75 - 150 psi	18,50	18,90	24,92	20,00	125,20	16,93	14,37	4,52	11,93	35,00	31,88
40	75 - 150 psi	21,10	21,46	26,46	19,69	129,92	16,93	14,37	4,53	11,93	38,98	36,22

A1*: installed face to face

A2*: minimum required dimension for installation

¹ Duplex gate for 150 psi

