

RUBBER SLEEVE KNIFE GATE VALVE

The Series 68 (HG) 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:

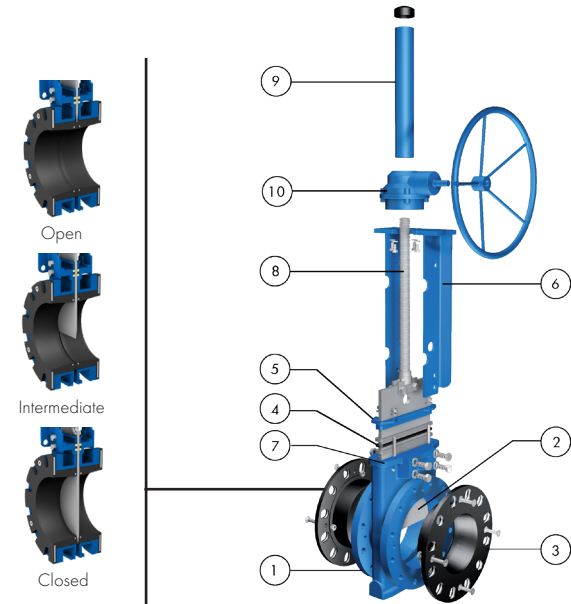
- Mining
- Chemical plants
- Power plants
- Wastewater treatment plants
- etc.

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 PN 16 & 25 and ASME B16.5 (class 150 & 300). 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
- Conventional leak proof packing
- 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) / Carbon Steel S275JR
2	Gate	AISI 304 + Chrome / Duplex 2205 + Chrome
3	Sleeves	Natural rubber / EPDM
4	Packing	PTFE Impreg. Synth. Fibre + EPDM O-Ring
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	-

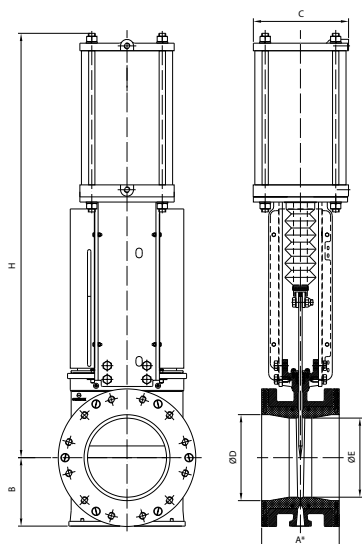
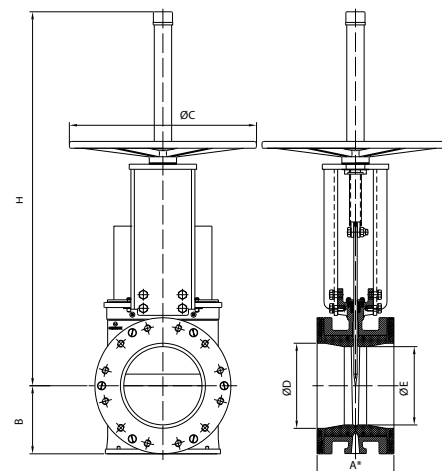
Handwheel Rising Stem

DN (in)	Pressures	A1* (in)	A2* (in)	B (in)	ØC (in)	H (in)	ØD (in)	ØE (in)	Weight (lbs.)
2	300 psi	6,50	6,77	3,35	8,86	18,11	1,97	1,77	44
3	300 psi	6,88	7,20	3,54	8,86	21,45	2,83	2,44	64
4	300 psi	6,88	7,20	3,93	12,20	24,40	3,93	3,34	93

A1*: installed face to face

A2*: minimum required dimension for installation

Standard manual actuator, available from 2in to DN 4in (larger diameters on request) and recommended with gearbox from 6in 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	300 psi	6,50	6,77	3,35	4,53	20,91	1,97	1,77	1/4" G	51
3	300 psi	6,88	7,20	3,50	6,89	22,01	2,83	2,44	1/4" G	75
4	300 psi	6,88	7,20	4,00	8,66	24,33	4,00	3,34	1/4" G	113
6	300 psi	7,00	7,32	5,12	10,90	30,90	5,83	5,39	3/8" G	-
8	300 psi	7,24	7,55	6,30	15,04	37,28	7,76	6,89	3/8" G	203
10	300 psi	8,75	9,17	8,00	17,48	45,87	10,00	9,05	1/2" G	329
12	300 psi	10,11	10,39	9,14	20,27	52,44	11,50	10,75	3/4" G	481
14	300 psi	10,11	10,39	10,15	17,48	62,59	13,27	12,52	3/4" G	-
16	300 psi	11,00	11,29	11,50	17,48	67,51	14,77	14,01	3/4" G	1158

A1*: installed face to face

A2*: minimum required dimension for installation

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	300 psi	6,50	6,77	3,35	6,30	24,33	10,43	9,80	2,44	9,37	1,97	1,77
3	300 psi	6,88	7,20	3,54	6,30	40,00	10,43	9,80	2,44	9,37	2,83	2,44
4	300 psi	6,88	7,20	3,93	6,30	40,74	10,43	9,80	2,44	9,37	3,93	3,34
6	300 psi	7,00	7,32	5,11	6,30	44,68	10,43	9,80	2,44	9,37	5,83	5,39
8	300 psi	7,24	7,55	6,00	7,87	49,02	11,10	10,00	2,55	9,76	7,76	6,89
10	300 psi	8,75	9,17	8,00	7,87	54,25	11,10	10,00	2,55	9,76	10,00	9,05
12	300 psi	10,11	10,39	9,13	7,87	57,87	11,10	10,00	2,55	9,76	11,50	10,75
14	300 psi	10,11	10,39	10,15	12,40	65,24	15,15	13,23	3,58	11,25	13,27	12,52
16	300 psi	11,00	11,29	11,49	12,40	68,19	15,15	13,23	3,58	11,25	14,77	14,01
18	300 psi	12,24	12,55	12,51	12,40	77,71	15,15	13,23	3,58	11,25	16,73	14,88
20	300 psi	14,13	14,44	13,58	16,00	97,67	15,15	13,35	3,58	11,25	18,50	16,54
24	300 psi	14,62	14,96	16,00	16,00	103,54	15,15	13,35	3,58	11,25	23,03	21,22
26	300 psi	14,88	15,28	18,70	15,75	109,06	15,15	13,35	3,54	11,25	25,00	23,50
28	300 psi	14,88	15,28	18,70	15,75	109,06	15,15	13,35	3,54	11,25	25,00	23,50
30	300 psi	15,57	15,00	20,27	20,00	120,20	20,08	14,37	4,61	11,93	29,02	26,77
32	300 psi	18,50	18,89	22,64	20,00	126,30	20,08	14,37	4,61	11,93	31,02	28,31
34	300 psi	18,50	18,89	22,64	20,00	126,30	20,08	14,37	4,61	11,93	31,02	28,31
36	300 psi	18,50	18,89	24,41	20,00	134,17	20,08	14,37	4,61	11,93	35,00	31,88
40	300 psi	21,10	21,50	26,45	20,00	129,92	20,08	14,37	4,61	11,93	38,97	36,22

A1*: installed face to face

A2*: minimum required dimension for installation

