

RUBBER SLEEVE KNIFE GATE VALVE

The 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:

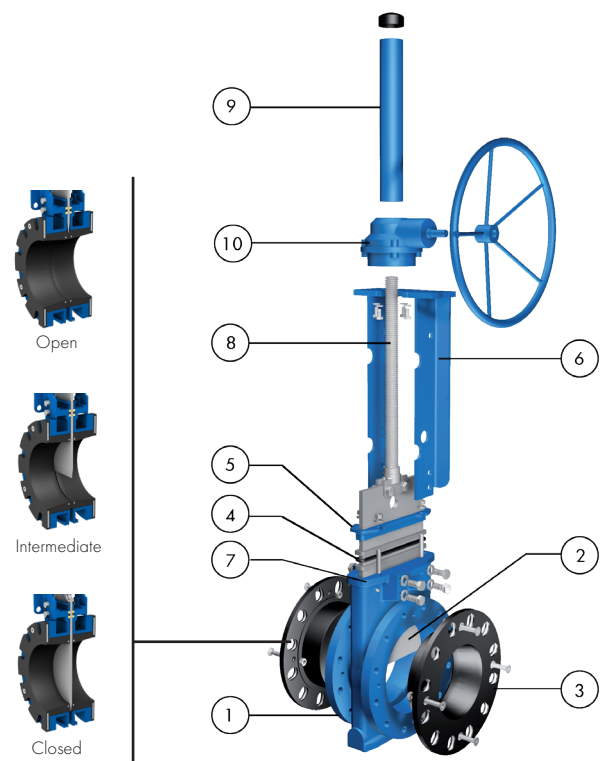
- Mining
- Chemical plants
- Power plants
- Wastewater treatment plants
- etc.

Product description

- Bi-directional full flanged heavy duty knife gate valve
- Size range of DN50- 1000 (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 available 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
- 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	-

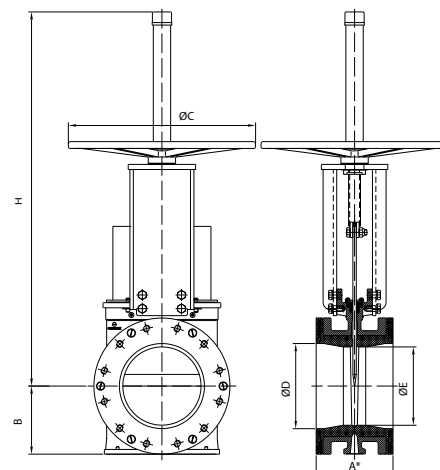
Handwheel Rising Stem

DN	Pressures	A1 *	A2 *	B	ØC	H	ØD	ØE	Weight (Kg)
50	20 bar	165	172	85	225	460	50	45	20
80	20 bar	175	183	90	225	545	72	62	29
100	20 bar	175	183	100	310	620	100	85	42

A1 *: installed face to face

A2 *: minimum required dimension for installation

Standard manual actuator, available from DN 50 to DN 100 (larger diameters on request) and recommended with gearbox from DN 150 and above

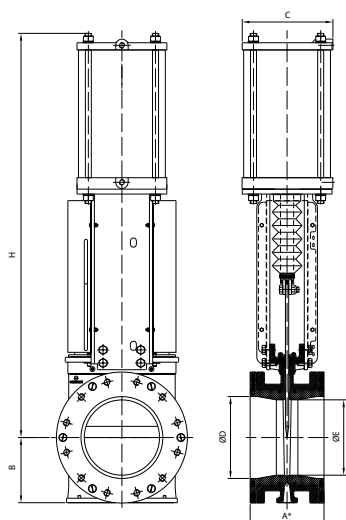


Pneumatic Cylinder

DN	Pressures	A1 *	A2 *	B	C	H	ØD	ØE	Connect.	Weight (Kg)
50	20 bar	165	172	85	115	531	50	45	1/4" G	23
80	20 bar	175	183	90	175	559	72	62	1/4" G	34
100	20 bar	175	183	100	220	618	100	85	1/4" G	51
150	20 bar	178	186	130	277	785	148	137	3/8" G	-
200	20 bar	184	192	160	382	947	197	175	3/8" G	92
250	20 bar	222,5	233	200	444	1165	250	230	1/2" G	149
300	20 bar	257	264	232	515	1332	292	273	3/4" G	218
350	20 bar	257	264	258	444	1590	337	318	3/4" G	-
400	20 bar	279,5	287	292	444	1715	375	356	3/4" G	525

A1 *: installed face to face

A2 *: minimum required dimension for installation



Electric Actuator Rising Stem

DN	Pressures	A1 *	A2 *	B	ØC	H	F	G	I	J	ØD	ØE
50	20 bar	165	172	85	160	618	265	249	62	238	50	45
80	20 bar	175	183	90	160	1000	265	249	62	238	72	62
100	20 bar	175	183	100	160	1035	265	249	62	238	100	85
150	20 bar	178	186	130	160	1135	265	249	62	238	148	137
200	20 bar	184	192	150	200	1245	282	254	65	248	197	175
250	20 bar	222,5	233	200	200	1378	282	254	65	248	250	230
300	20 bar	257	264	232	200	1470	282	254	65	248	292	273
350	20 bar	257	264	258	315	1657	385	336	91	286	337	318
400	20 bar	279,5	287	292	315	1732	385	336	91	286	375	356
450	20 bar	311	319	318	315	1974	385	336	91	286	425	378
500	20 bar	359	367	345	400	2481	385	339	91	286	470	420
600	20 bar	371,5	380	400	400	2630	385	339	91	286	585	539
650	20 bar	378	388	475	400	2770	389	339	90	286	635	597
700	20 bar	378	388	475	400	2770	389	339	90	286	635	597
750	20 bar	395,5	405	515	500	3053	510	365	117	303	737	680
800	20 bar	470	480	560	500	3035	430	365	115	303	788	719
850	20 bar	470	480	560	500	3035	430	365	115	303	788	719
900	20 bar	470	480	620	500	3408	510	365	117	303	889	810
1000	20 bar	536	546	672	500	3300	510	365	117	303	990	920

A1 *: installed face to face

A2 *: minimum required dimension for installation

