

RUBBER SLEEVE KNIFE GATE VALVE

The 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:

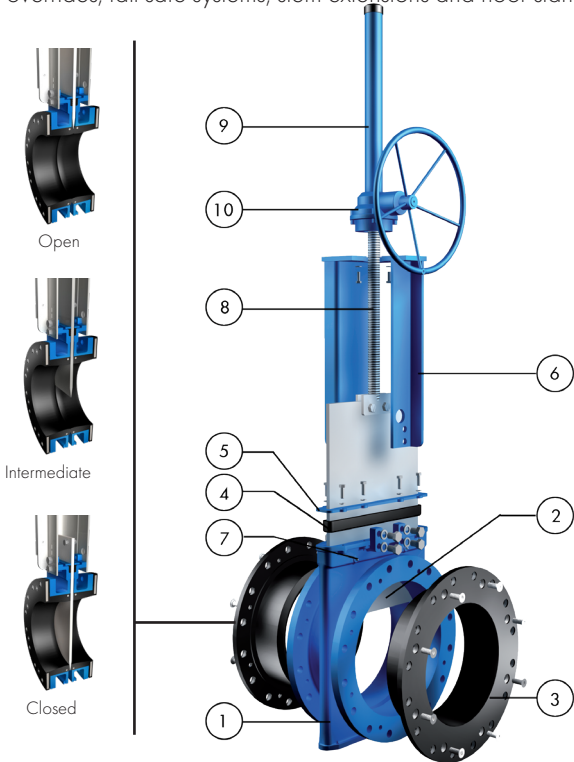
- Mining
- Chemical plants
- Power plants
- Wastewater treatment plants
- etc.

Product description

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

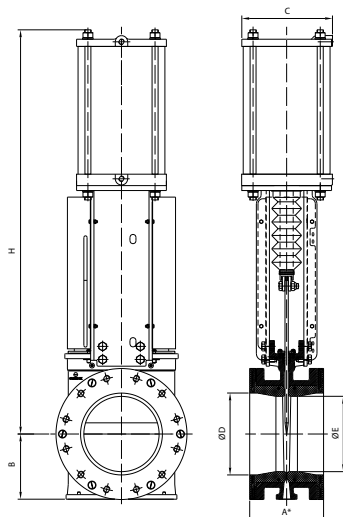
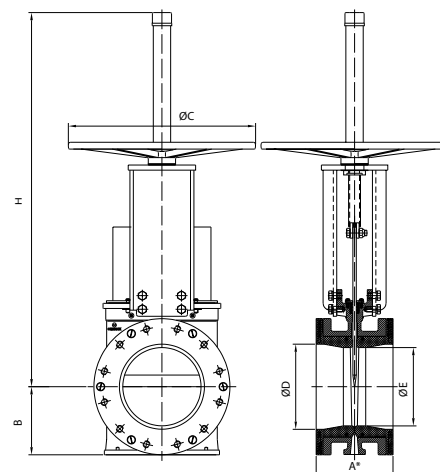
Handwheel Rising Stem

DN	Pressures	A1 *	A2 *	B	ØC	H	ØD	ØE	Weight (Kg)
50	10 bar	165	172	85	225	460	50	45	20
65	10 bar	175	183	96	225	495	72	62	23
80	10 bar	175	183	96	225	495	72	62	23
100	10 bar	175	183	115	310	645	100	85	31
125	10 bar	178	183	130	310	715	121	110	40
150	10 bar	178	183	141	310	745	148	137	43
200	10 bar	184	192	173	410	945	197	175	67

A1 *: installed face to face

A2 *: minimum required dimension for installation

Standard manual actuator, available from DN 50 to DN 200 (larger diameters on request) and recommended with gearbox from DN 200 and above



Pneumatic Cylinder

DN	Pressures	A1 *	A2 *	B	C	H	ØD	ØE	Connect.	Weight (Kg)
50	10 bar	165	172	85	115	531	50	45	1/4" G	23
65	10 bar	175	183	96	115	621	72	62	1/4" G	26
80	10 bar	175	183	96	140	621	72	62	1/4" G	28
100	10 bar	175	183	115	140	668	100	85	1/4" G	33
125	10 bar	178	183	130	175	832	121	110	1/4" G	48
150	10 bar	178	183	141	175	893	148	137	1/4" G	52
200	10 bar	184	192	173	220	1067	197	175	3/8" G	83
250	10 bar	225,5	233	204	277	1220	250	230	3/8" G	130
300	10 bar	257	264	244	335	1400	292	273	1/2" G	213
350	10 bar	257	264	268	444	1560	337	318	3/4" G	285
400	10 bar	279,5	287	300	444	1700	375	356	3/4" G	339
450	6 - 10 bar ¹	311	319	320	515	1930	425	378	3/4" G	431
500	6 - 10 bar ¹	359	367	359	515	2095	470	420	3/4" G	533
600	6 - 10 bar ¹	371,5	380	422	515	2340	585	539	3/4" G	-

A1 *: installed face to face

A2 *: minimum required dimension for installation

¹ Duplex gate for 10 bar

Electric Actuator Rising Stem

DN	Pressures	A1 *	A2 *	B	ØC	H	F	G	I	J	ØD	ØE
50	10 bar	165	172	85	160	618	265	249	62	238	50	45
65	10 bar	175	183	96	160	662	265	249	62	238	72	62
80	10 bar	175	183	96	160	662	265	249	62	238	72	62
100	10 bar	175	183	115	160	688	265	249	62	238	100	85
125	10 bar	178	183	130	160	1115	265	249	62	238	121	110
150	10 bar	178	183	141	160	1158	265	249	62	238	148	137
200	10 bar	184	192	173	200	1272	283	254	65	248	197	175
250	10 bar	225,5	233	204	200	1387	283	254	65	248	250	230
300	10 bar	257	264	244	200	1454	283	254	65	248	292	273
350	10 bar	257	264	268	315	1602	389	336	90	286	337	318
400	10 bar	279,5	287	300	315	1690	389	336	90	286	375	356
450	6 - 10 bar ¹	311	319	320	409	1822	389	336	90	286	425	378
500	6 - 10 bar ¹	359	367	359	400	1925	389	339	90	286	470	420
600	6 - 10 bar ¹	371,5	380	422	500	2120	430	365	115	303	585	539
650	5 - 10 bar	378	388	475	400	2770	389	339	90	286	635	597
700	5 - 10 bar	378	388	475	400	2770	389	339	90	286	635	597
750	5 - 10 bar	395,5	405	532	500	2880	430	365	115	303	737	680
800	5 - 10 bar	470	480	560	500	3035	430	365	115	303	788	719
850	5 - 10 bar	470	480	560	500	3035	430	365	115	303	788	719
900	5 - 10 bar	470	480	633	500	3180	430	365	115	303	889	810
1000	5 - 10 bar	536	546	672	500	3300	430	365	115	303	990	920

A1 *: installed face to face

A2 *: minimum required dimension for installation

¹ Duplex gate for 10 bar