

RUBBER SLEEVE KNIFE GATE VALVE

The Series 61 (VG) model knife gate is a bi-directional wafer valve equipped with two metal reinforced rubber sleeves, designed for applications with abrasive slurries. The Series 61 (VG) slurry knife gate valve is mainly used in industries such as:

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

Product description

- Bi-directional wafer type knife gate valve
- Size range of DN 2in-36in (larger upon request). 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

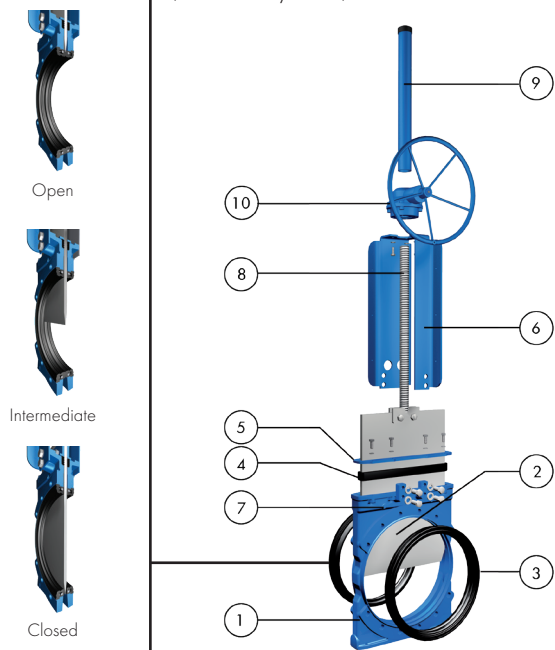
Features

- Wafer type cast monoblock body with two machined lateral openings where the sleeves fit perfectly. Grease nipples to lubricate the gate are standard
- 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 to 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, positioners, 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	-

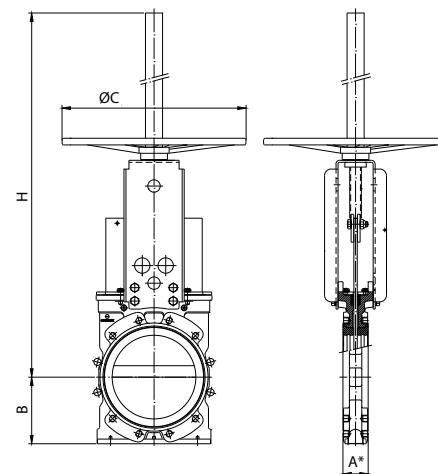


Handwheel Rising Stem

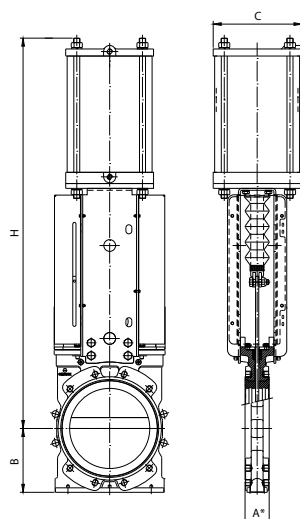
DN (in)	Pressure	A1* (in)	A2* (in)	B (in)	ØC (in)	H (in)	Weight (lbs.)
2	150 psi	2.12	2.36	2.48	8.86	17.52	20
2 ½	150 psi	2.12	2.36	2.75	8.86	18.50	23
3	150 psi	2.24	2.48	3.54	8.86	19.49	27
4	150 psi	2.24	2.48	4.00	12.20	54.39	38
5	150 psi	2.50	2.71	4.80	12.20	28.00	45
6	150 psi	2.50	2.71	5.07	12.20	29.33	51
8	150 psi	3.00	3.26	6.46	16.14	37.20	89

A1*: installed face to face

A2*: minimum required dimension for installation



Pneumatic Cylinder



DN (in)	Pressure	A1* (in)	A2* (in)	B (in)	C (in)	H (in)	Connect.	Weight (lbs.)
2	150 psi	2.12	2.36	2.48	4.58	20.31	1/4" G	23
2 ½	150 psi	2.12	2.36	2.75	4.58	21.65	1/4" G	25
3	150 psi	2.24	2.48	3.50	5.51	24.45	1/4" G	38
4	150 psi	2.24	2.48	4.00	5.51	27.08	1/4" G	42
5	150 psi	2.50	2.71	4.80	6.89	32.16	1/4" G	64
6	150 psi	2.50	2.71	5.08	6.89	35.15	1/4" G	71
8	150 psi	2.99	3.26	6.46	8.66	42.01	3/8" G	117
10	150 psi	2.99	3.26	7.83	10.90	48.03	3/8" G	197
12	150 psi	3.24	3.54	9.10	13.18	55.12	1/2" G	318
14	150 psi	3.24	3.54	10.12	17.48	61.42	3/4" G	404
16	150 psi	3.74	4.02	11.46	17.48	66.93	3/4" G	477
18	6 - 10 psi ¹	3.75	4.06	12.48	20.27	75.98	3/4" G	642
20	6 - 10 psi ¹	4.76	5.08	13.58	20.27	82.48	3/4" G	752
24	6 - 10 psi ¹	4.76	5.08	16.26	20.27	92.13	3/4" G	946

A1*: installed face to face

A2*: minimum required dimension for installation

¹ Duplex gate for 150 psi

Electric Actuator

DN (in)	Pressure	A1* (in)	A2* (in)	B (in)	ØC (in)	H (in)	D (in)	E (in)	F (in)	G (in)	Weight (lbs.)	Torque (ft.LBS)
2	150 psi	2.12	2.36	2.48	6.30	23.74	10.43	9.80	2.44	9.37	144	14.8/20
2 ½	150 psi	2.12	2.36	2.75	6.30	24.72	10.43	9.80	2.44	9.37	146	14.8/20
3	150 psi	2.24	2.48	3.54	6.30	26.06	10.43	9.80	2.44	9.37	150	22.2/30
4	150 psi	2.24	2.48	3.93	6.30	27.08	10.43	9.80	2.44	9.37	156	25.81/35
5	150 psi	2.50	2.71	4.80	6.30	43.31	10.43	9.80	2.44	9.37	166	29.50/40
6	150 psi	2.50	2.71	5.08	6.30	45.59	10.43	9.80	2.44	9.37	175	36.87/50
8	150 psi	2.99	3.26	6.45	7.87	50.07	11.14	10.00	2.55	9.37	139	51.8/70
10	150 psi	2.99	3.26	7.83	7.87	54.60	11.14	10.00	2.55	9.37	183	81.4/110
12	150 psi	3.24	3.54	9.09	7.87	57.24	11.14	10.00	2.55	9.37	228	88.50/120
14	150 psi	3.24	3.54	10.12	12.40	63.07	15.31	13.22	3.54	1.25	344	117.99/160
16	150 psi	3.74	4.02	11.46	12.40	66.53	15.31	13.22	3.54	1.25	415	177.04/240
18	6 - 10 psi ¹	3.75	4.06	12.48	16.00	71.78	15.31	13.22	3.54	1.25	527	147.49/200
20	6 - 10 psi ¹	4.76	5.08	13.58	16.00	75.78	15.31	13.34	3.54	1.25	657	221.27/300
24	6 - 10 psi ¹	4.76	5.08	16.26	20.00	83.46	16.93	14.37	4.53	11.93	847	295.02/400
28	5 - 10 psi ¹	7.12	7.48	18.70	16.00	109.05	15.31	13.34	3.58	11.25	-	331.86/450
30	5 - 10 psi ¹	7.36	7.67	20.00	20.00	113.38	16.93	14.37	4.53	11.93	-	405.60/550
32	5 - 10 psi ¹	8.11	8.42	21.65	20.00	119.48	16.93	14.37	4.53	11.93	-	442.48/600
36	5 - 10 psi ¹	8.87	9.21	24.40	20.00	125.20	16.93	14.37	4.53	11.93	-	553.10/750

A1*: installed face to face

A2*: minimum required dimension for installation

¹ Duplex gate for 150 psi

