

DUCTILE IRON RESILIENT SEATED KNIFE GATE VALVE

PRODUCT FEATURES

- Sizes: 2" – 16"/DN50 – DN400.
- Heavy-duty Cast Ductile Iron body, packing gland, and yoke for the most rugged service.
- Through bolting allows easy installation.
- Easily replaceable Natural Rubber or EPDM seat provides bi-directional drip tight seal up to 150psig/10barg.
- Flush Seat eliminates pockets.
- Rubber Seat with molded-in Steel reinforcement, prevents gate movement from displacing Seat.
- Machined Stainless Steel gate provides corrosion resistance and durability.
- Easy conversion from handwheel operator to hydraulic or pneumatic cylinder, bevel gear, chain wheel, electric motor, or fail safe spring cylinder operator.
- Enclosed Bronze stem bushing reduces operating torque and protects stem bushing in harsh environments.
- Stainless Steel Stem for corrosion resistance.
- Full packing seal around gate minimises the potential for packing leakage.
- MSS SP-81 face-to-face and flange dimensions, PN10 & PN16 drilling available.
- Minimum 4 bolt packing gland to ensure proper gland alignment in all Valve sizes.
- Fully epoxy coated for corrosion resistance.
- Standard TFE lubricated synthetic packing (TLSP).
- MSS SP-81 Stainless Steel, Bonnetless, Flanged Knife Gate Valves also available.
- AWWA C520 Knife Gate Valves, 2" – 16"/DN50 – DN400 also available.

MATERIALS OF CONSTRUCTION

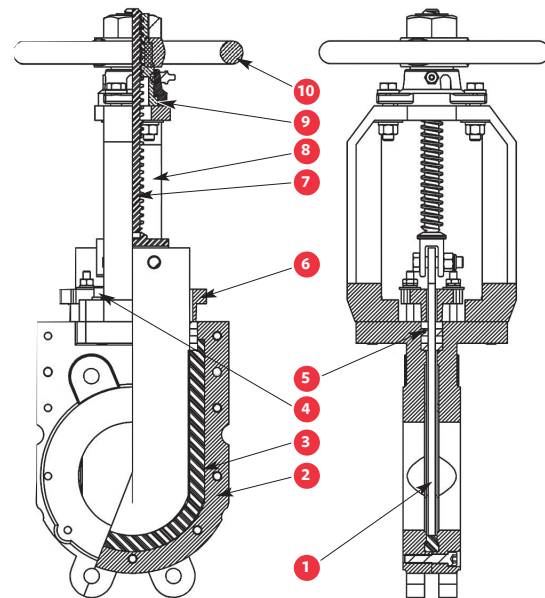
ID	PART NAME	MATERIAL STANDARDS
1	Gate	Stainless Steel
2	Body	Ductile Iron
3	Seat	Natural Rubber*
4	Bolts	Stainless Steel
5	Packing	TLSP**
6	Gland	Ductile Iron
7	Stem	Stainless Steel
8	Yoke	Ductile Iron
9	Stem Nut	Bronze
10	Handwheel	See Note 1

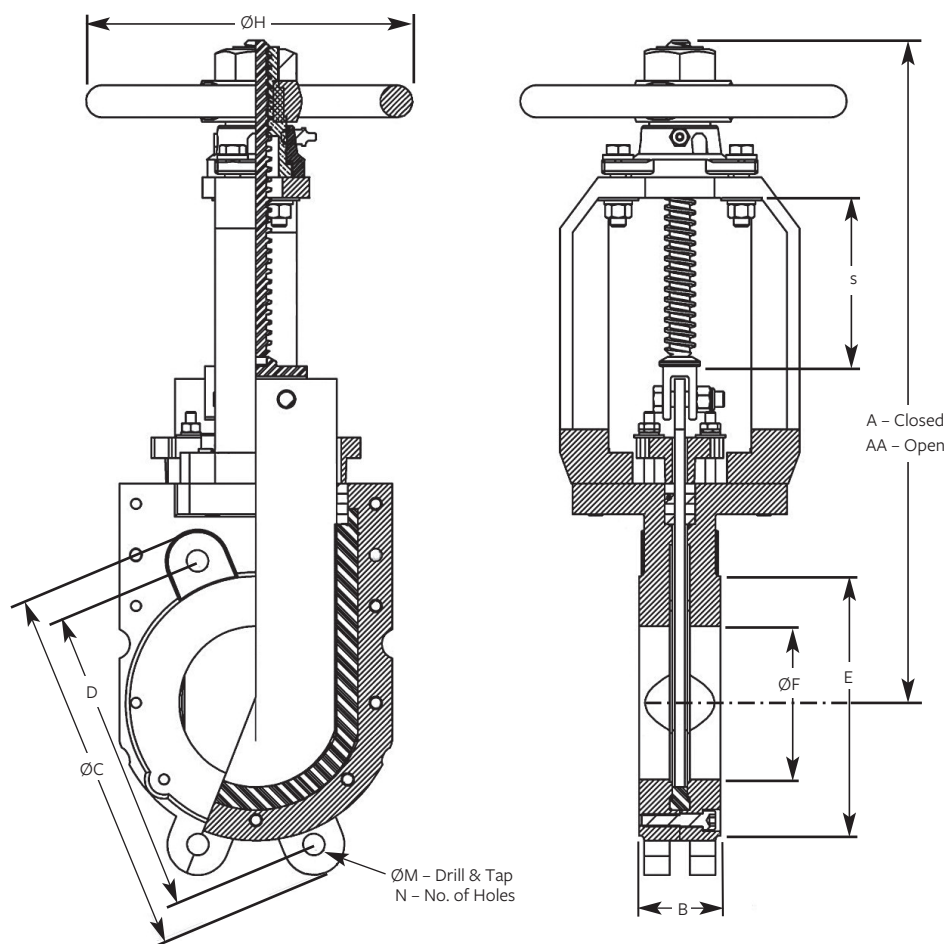
* Buna-N and EPDM seats also available.

**TLSP = TFE Lubricated Synthetic Packing.

Notes:

1. Normally supplied with handwheel for manual operation, but can be modified for chainwheel, bevel gear, fail safe spring cylinder, electric motor, hydraulic or pneumatic cylinder operator.





DIMENSIONS - INCHES (MM)

VALVE SIZE	A - CLOSED	AA - OPEN	B	ØC	D	E	ØF	ØH	ØM	N	S	WT.-LB. (KG.)
2"/DN80	13 (330)	15 (381)	1 ⁷ / ₈ (48)	6 (152)	4 ³ / ₄ (121)	4 ¹ / ₈ (105)	2 (51)	8 (203)	5 ⁷ / ₈ (16) x 11	4	2 (51)	19 (9)
3"/DN80	14 ³ / ₄ (375)	17 ³ / ₄ (451)	2 (51)	7 ¹ / ₂ (191)	6 (121)	5 (127)	2 ¹ / ₂ (79)	8 (203)	5 ⁷ / ₈ (16) x 11	4	3 (76)	29 (13)
4"/DN100	16 ⁵ / ₁₆ (421)	20 ⁵ / ₁₆ (522)	2 (51)	9 (229)	7 ¹ / ₂ (191)	6 ³ / ₁₆ (157)	3 ¹ / ₂ (102)	8 (203)	5 ⁷ / ₈ (16) x 11	8	4 (102)	46 (21)
6"/DN150	20 ¹ / ₂ (521)	26 ¹ / ₂ (673)	2 ¹ / ₄ (57)	11 (279)	9 ¹ / ₂ (241)	8 ¹ / ₂ (216)	5 ¹ / ₄ (152)	12 (305)	3 ¹ / ₄ (19) x 10	8	6 (152)	75 (34)
8"/DN200	24 ¹ / ₄ (616)	32 ¹ / ₂ (826)	2 ³ / ₄ (70)	13 ¹ / ₂ (343)	11 ³ / ₄ (298)	10 ⁵ / ₈ (270)	7 ¹ / ₄ (203)	12 (305)	3 ¹ / ₄ (19) x 10	8	8 ¹ / ₄ (210)	118 (53)
10"/DN250	29 (737)	39 ¹ / ₄ (977)	2 ³ / ₄ (70)	16 (406)	14 ¹ / ₄ (362)	12 ³ / ₄ (324)	9 (245)	16 (406)	7 ⁷ / ₈ (22) x 9	12	10 ¹ / ₄ (260)	180 (82)
12"/DN300	34 ⁵ / ₈ (879)	47 (1194)	3 (76)	19 (483)	17 (432)	15 (381)	11 ¹ / ₄ (305)	20 (508)	7 ⁷ / ₈ (22) x 9	12	12 ³ / ₈ (314)	295 (134)
14"/DN350	40 (1016)	54 ¹ / ₄ (1378)	3 (76)	21 (533)	18 ³ / ₄ (476)	17 (413)	12 ¹ / ₁₆ (349)	20 (508)	1 (25) x 8	12	14 ¹ / ₄ (362)	345 (156)
16"/DN400	44 (1118)	59 (1499)	3 ¹ / ₂ (89)	23 ¹ / ₂ (597)	21 ¹ / ₄ (540)	18 ¹ / ₂ (470)	14 ³ / ₄ (406)	20 (508)	1 (25) x 8	16	15 (381)	455 (206)
18"/DN450	51 (1295)	68 ³ / ₄ (1746)	3 ¹ / ₂ (89)	25 (635)	22 ³ / ₄ (578)	21 (533)	17 ¹ / ₄ (438)	20 (508)	1 ⁷ / ₈ (29) x 7	16	17 ³ / ₄ (451)	422 (191)

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