

BI-DIRECTIONAL KNIFE GATE VALVE

Stainless Steel Resilient Seated

PRODUCT FEATURES

- MSS SP-81 Stainless Steel, Bonnetless, Knife Gate Valves.
- AWWA C520-10 Knife Gate Valves, 2"/DN50 – 96"/DN2400.
- Cast Stainless Steel (SS) body, packing gland, and yoke.
- Precision machined Stainless Steel gate for superior seating capability.
- Rubber seat provides a bi-directional, drip-tight seal across the gate from 0 to 150psig/10barg.
- Gate design withstands full 150psig/10barg rated pressure as required by MSS SP-81.
- Standard replaceable Buna-N resilient seat rated to 225°F/107°C, also available in Neoprene, EPDM, Viton, and other materials.
- Compact wafer configuration to TAPPI and MSS standard face-to-face.
- Heavy duty body design resists deflection from line loads and internal pressure.
- Rubber seat is flush with the bottom of the port eliminating any pockets in the bottom of the Valve that will collect media material.
- Smooth flow non-clogging full port design.
- Heavy duty cast Stainless Steel yoke will not bend or twist under extreme loads.
- Easy conversion from handwheel operator to hydraulic or pneumatic cylinder, bevel gear, chainwheel, electric motor, or fail safe spring cylinder operator using existing cast yoke.
- Bonnetless, outside screw and yoke, non-rising handwheel, and rising stem.
- Enclosed Bronze stem bushing provides reduced operating torque and protection of the stem bushing in harsh environments.
- Stainless Steel stem resists corrosion.
- Standard TFE lubricated synthetic packing (TLSP).
- Full port ID.

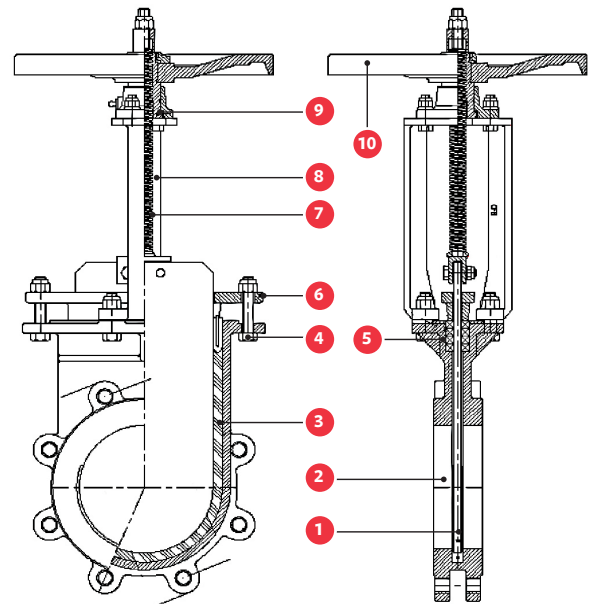
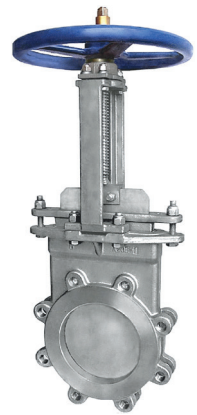
MATERIALS OF CONSTRUCTION

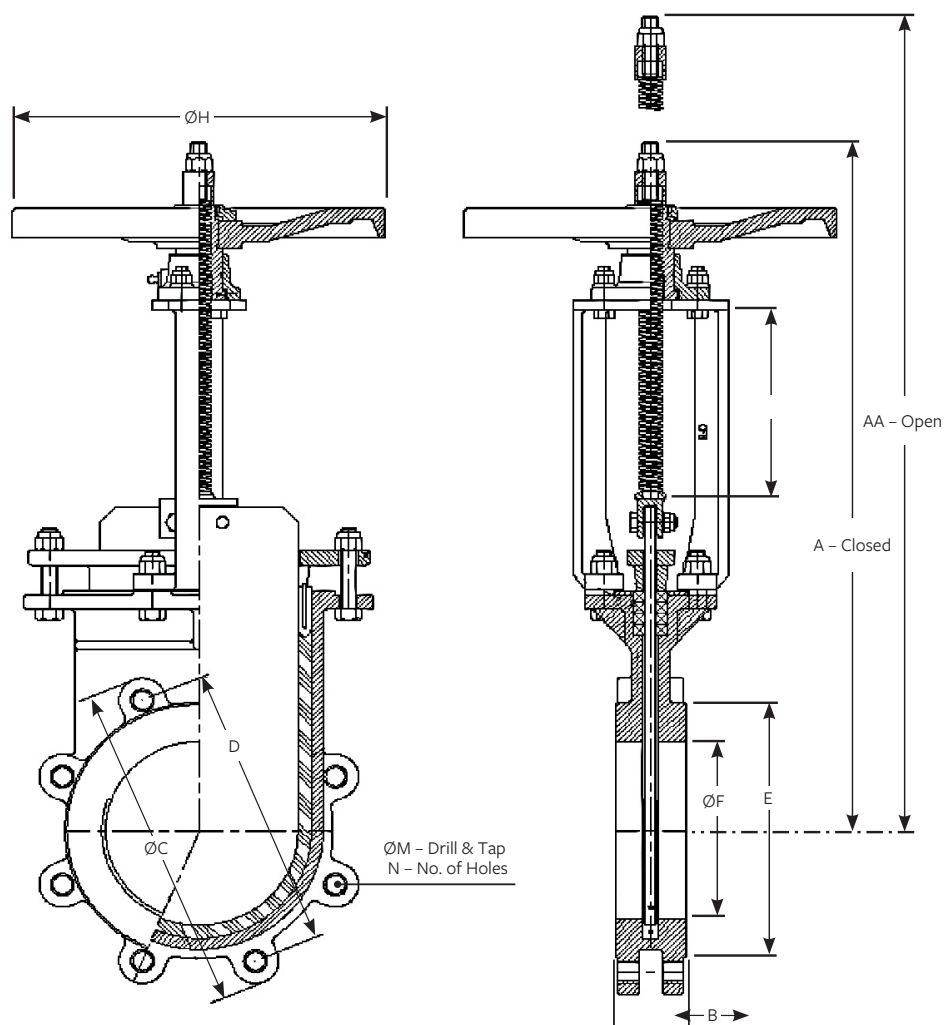
ID	PART NAME	MATERIAL STANDARDS
1	Gate	Stainless Steel
2	Body	Stainless Steel
3	Seat	Buna-N*
4	Bolts	Stainless Steel
5	Packing	TLSP
6	Gland	Stainless Steel
7	Stem	Stainless Steel
8	Yoke	Stainless Steel
9	Stem Nut	Bronze
10	Handwheel	Ductile Iron

*TLSP = TFE Lubricated Synthetic Packing.

Notes:

1. SS = Standard with 304 or 316 Stainless Steel. Other alloys available.
2. 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	$\varnothing C$	D	E	$\varnothing F$	$\varnothing H$	$\varnothing M$	N	S	WT.-LB (KG)
2"/DN50	16 $\frac{7}{8}$ (429)	19 $\frac{1}{8}$ (486)	1 $\frac{7}{8}$ (48)	6 (152)	4 $\frac{3}{4}$ (121)	3 $\frac{5}{8}$ (92)	2 (51)	8 (203)	$\frac{5}{8}$ (16)x11	4	2 $\frac{1}{4}$ (51)	26 (12)
3"/DN80	17 $\frac{5}{16}$ (440)	20 $\frac{5}{8}$ (524)	2 (51)	7 $\frac{1}{2}$ (191)	6 (152)	5 (127)	3 (76)	8 (203)	$\frac{5}{8}$ (16)x11	4	3 $\frac{5}{16}$ (84)	30 (14)
4"/DN100	19 $\frac{3}{16}$ (487)	23 $\frac{1}{2}$ (597)	2 (51)	9 (229)	7 $\frac{1}{2}$ (191)	6 $\frac{3}{16}$ (157)	4 (102)	8 (203)	$\frac{5}{8}$ (16)x11	8	4 $\frac{5}{16}$ (110)	40 (18)
6"/DN150	23 $\frac{3}{16}$ (589)	29 $\frac{1}{2}$ (749)	2 $\frac{1}{4}$ (57)	11 (279)	9 $\frac{1}{2}$ (241)	8 $\frac{1}{2}$ (216)	6 (152)	12 (305)	$\frac{3}{4}$ (19)x10	8	6 $\frac{1}{16}$ (160)	62 (28)
8"/DN200	27 $\frac{1}{16}$ (697)	35 $\frac{3}{4}$ (908)	2 $\frac{3}{4}$ (70)	13 $\frac{1}{2}$ (343)	11 $\frac{3}{4}$ (298)	10 $\frac{5}{8}$ (270)	8 (203)	12 (305)	$\frac{3}{4}$ (19)x10	8	8 $\frac{5}{16}$ (211)	90 (41)
10"/DN250	32 (813)	42 $\frac{1}{16}$ (1075)	2 $\frac{3}{4}$ (70)	16 (406)	14 $\frac{1}{4}$ (362)	12 $\frac{3}{4}$ (324)	10 (254)	16 (406)	$\frac{7}{8}$ (22)x9	12	10 $\frac{1}{16}$ (262)	141 (64)
12"/DN300	36 (914)	48 $\frac{1}{16}$ (1227)	3 (76)	19 (483)	17 (432)	15 (381)	12 (305)	16 (406)	$\frac{7}{8}$ (22)x9	12	12 $\frac{1}{16}$ (313)	190 (86)
14"/DN350	41 $\frac{1}{16}$ (1056)	55 $\frac{1}{16}$ (1402)	3 (76)	21 (533)	18 $\frac{3}{4}$ (476)	16 $\frac{1}{4}$ (413)	13 $\frac{1}{4}$ (337)	20 (508)	1 (25)x8	12	13 $\frac{3}{8}$ (346)	260 (118)
16"/DN400	45 $\frac{5}{8}$ (1159)	61 $\frac{1}{16}$ (1554)	3 $\frac{1}{2}$ (89)	23 $\frac{1}{2}$ (597)	21 $\frac{1}{4}$ (540)	18 $\frac{1}{2}$ (470)	15 $\frac{1}{4}$ (387)	20 (508)	1 (25)x8	16	15 $\frac{1}{16}$ (389)	360 (163)
18"/DN450	51 (1295)	68 $\frac{3}{4}$ (1746)	3 $\frac{1}{2}$ (89)	25 (635)	22 $\frac{3}{4}$ (578)	21 (533)	17 $\frac{1}{4}$ (438)	20 (508)	1 $\frac{1}{8}$ (29)x7	16	17 $\frac{3}{4}$ (451)	422 (191)
20"/DN500	56 (1422)	75 $\frac{5}{8}$ (1921)	4 $\frac{1}{2}$ (114)	27 $\frac{1}{2}$ (698)	25 (635)	23 (584)	19 $\frac{1}{4}$ (489)	20 (508)	1 $\frac{1}{8}$ (29)x7	20	19 $\frac{5}{8}$ (498)	712 (323)
24"/DN600	62 $\frac{7}{8}$ (1597)	85 $\frac{5}{8}$ (2175)	4 $\frac{1}{2}$ (114)	32 (813)	29 $\frac{1}{2}$ (749)	27 $\frac{1}{4}$ (692)	23 $\frac{3}{4}$ (591)	20 (508)	1 $\frac{1}{4}$ (32)x7	20	22 $\frac{3}{4}$ (578)	988 (448)

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