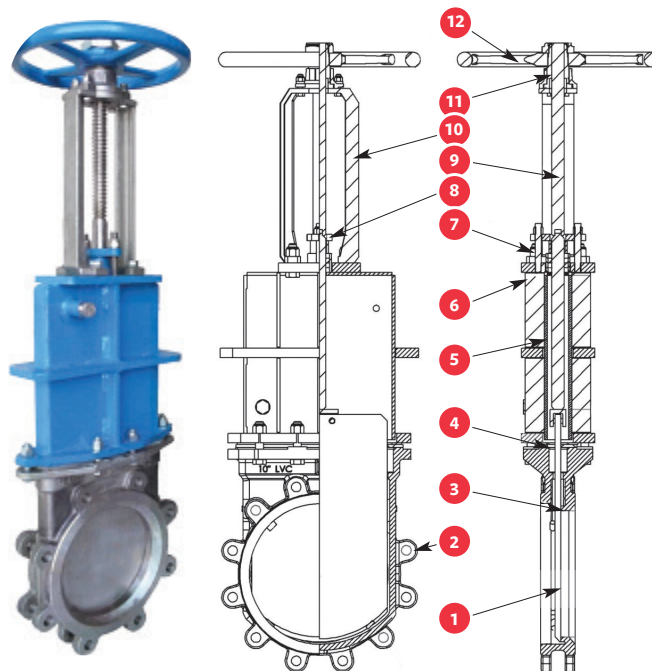


## BONNETED METAL SEATED KNIFE GATE VALVE

### PRODUCT FEATURES

- Sizes: 2" – 24"/DN50 – DN600.
- Bonneted Knife Gate Valves reduce fugitive emissions and packing leakage.
- Cast Stainless Steel body, gland and yoke.
- Wiper between body and bonnet prevents solids from entering bonnet.
- Bonnet design pressure same as Valve pressure rating of 150psig/10barg.
- Standard TFE lubricated synthetic packing (TLSP) rated for 260° C and a pH range of 3-11.
- Heavy duty body design resists deflection from line loads and internal pressure.
- Gate design withstands full 150psig/10barg rated pressure as required by MSS SP-81.
- Body cavity, seat configuration, and beveled gate design provide shut off capability in thick media such as pulp stock and slurries, or solid media like pellets and powders.
- Heavy duty cast Stainless Steel yoke prevents bending or twisting under extreme loads.
- Easy conversion from handwheel operator to pneumatic or hydraulic cylinder, bevel gear, or electric motor operator using existing cast yoke.
- Enclosed Bronze stem bushing reduces operating torque and protects the stem bushing in harsh environments.
- Hard faced seat option available to prevent galling in high cycle and/or high end pressure or abrasive applications.
- V-Port or O-Ring resilient seat options available to suit specific applications.
- Precision machined Stainless Steel gate for superior seating capability.
- Stainless Steel stem for corrosion resistance.
- Flange drilling meets ANSI B16.5-150 lb. standards with all tapped holes and serrated gasket faces, PN10 & PN16 drilling available.
- Full port ID.
- MSS SP-81 Stainless Steel, Bonnetless, Flanged Knife Gate Valves also available.
- AWWA C520 Knife Gate Valves, 2" – 96"/DN50 – DN2400 also available.



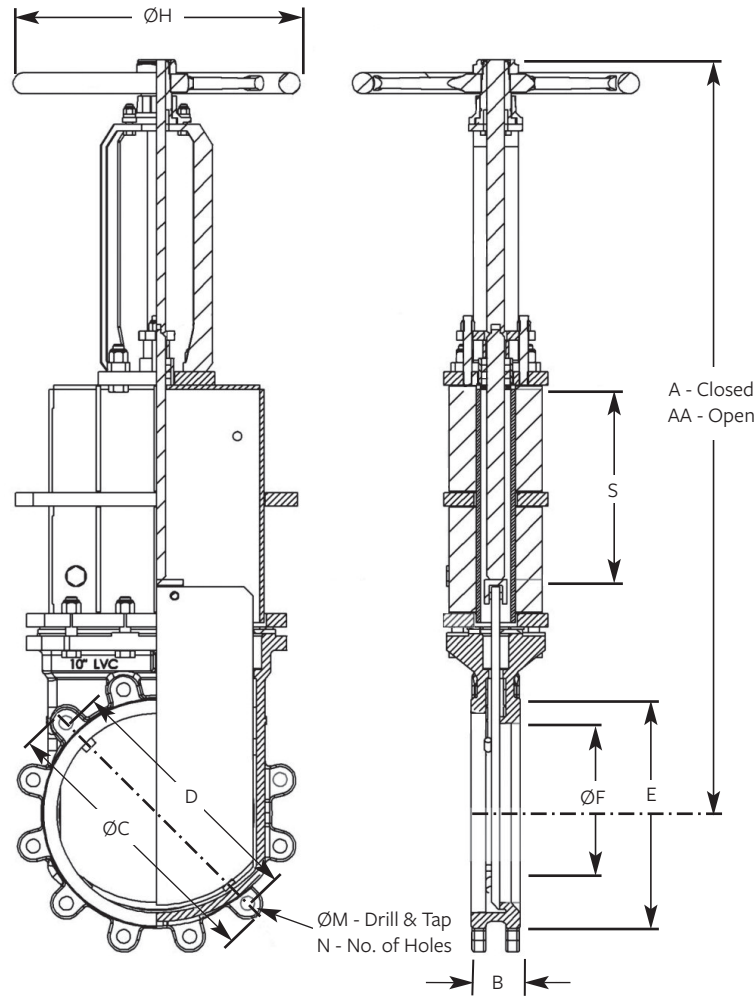
### PARTS LIST

ID	PART NAME	MATERIAL STANDARDS
1	Gate	Stainless Steel
2	Body	Stainless Steel
3	Seat	Stainless Steel
4	Wiper	UHMW
5	Bonnet	Stainless Steel/Carbon Steel
6	Packing	17-111 (432-2819)
7	Bolts	TLSP*
8	Gland	Stainless Steel
9	Stem	Stainless Steel
10	Yoke	Stainless Steel
11	Stem Nut	Bronze
12	Handwheel	See Note 2

\*TLSP = TFE Lubricated Synthetic Packing.

#### Notes:

1. Stainless Steel = Standard 304 or 316. Other alloys available.
2. Normally supplied with handwheel for manual operation, but can be modified for chain wheel, bevelgear, fail safe spring cylinder, electric motor, hydraulicor 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. - LBS. (KG.)
2"/DN50	19 (483)	21 (533)	1 $\frac{7}{8}$ (48)	6 (152)	4 $\frac{3}{4}$ (121)	3 $\frac{5}{8}$ (92)	2 (51)	12 (305)	$\frac{5}{8}$ (16)x11	4	2 $\frac{1}{2}$ (64)	39 (18)
3"/DN80	21 $\frac{3}{4}$ (552)	25 $\frac{1}{4}$ (641)	2 (51)	7 $\frac{1}{2}$ (191)	6 (152)	5 (127)	3 (76)	12 (305)	$\frac{5}{8}$ (16)x11	4	3 $\frac{1}{2}$ (89)	64 (29)
4"/DN100	25 $\frac{3}{8}$ (645)	29 $\frac{7}{8}$ (759)	2 (51)	9 (229)	7 $\frac{1}{2}$ (191)	6 $\frac{1}{16}$ (160)	4 (102)	12 (305)	$\frac{5}{8}$ (16)x11	8	4 $\frac{1}{2}$ (114)	75 (34)
6"/DN150	30 $\frac{1}{4}$ (768)	37 (940)	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 $\frac{1}{2}$ (165)	109 (49)
8"/DN200	35 $\frac{5}{16}$ (903)	44 $\frac{7}{8}$ (1121)	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 $\frac{1}{2}$ (165)	160 (73)
10"/DN250	41 $\frac{3}{8}$ (1051)	51 $\frac{7}{8}$ (1318)	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 $\frac{1}{2}$ (267)	251 (114)
12"/DN300	47 $\frac{3}{4}$ (1213)	61 $\frac{1}{2}$ (1562)	3 (76)	19 (483)	17 (432)	15 (381)	12 (305)	16 (406)	$\frac{7}{8}$ (22)x9	12	12 $\frac{1}{2}$ (318)	295 (134)
14"/DN350	58 (1473)	72 $\frac{1}{4}$ (1835)	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 $\frac{3}{8}$ (352)	335 (152)
16"/DN400	64 (1626)	80 $\frac{1}{2}$ (2045)	3 $\frac{1}{2}$ (89)	23 $\frac{1}{2}$ (597)	21 $\frac{1}{4}$ (540)	18 $\frac{5}{8}$ (470)	15 $\frac{1}{4}$ (387)	20 (508)	1 (25)x8	16	16 (406)	470 (213)
18"/DN450	70 $\frac{1}{4}$ (1784)	88 $\frac{1}{4}$ (2242)	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	18 (457)	740 (336)
20"/DN500	74 $\frac{1}{2}$ (1892)	94 $\frac{1}{4}$ (2394)	4 $\frac{1}{2}$ (114)	27 $\frac{1}{2}$ (699)	25 (635)	23 (584)	19 $\frac{1}{4}$ (489)	20 (508)	1 $\frac{1}{8}$ (29)x7	20	20 $\frac{1}{8}$ (511)	990 (449)
24"/DN600	88 $\frac{1}{2}$ (2248)	112 $\frac{1}{4}$ (2851)	4 $\frac{1}{2}$ (114)	32 (813)	29 $\frac{1}{2}$ (749)	27 $\frac{1}{4}$ (692)	23 $\frac{1}{4}$ (591)	20 (508)	1 $\frac{1}{8}$ (29)x7	20	24 $\frac{3}{16}$ (614)	1400 (635)

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