

PRATT®

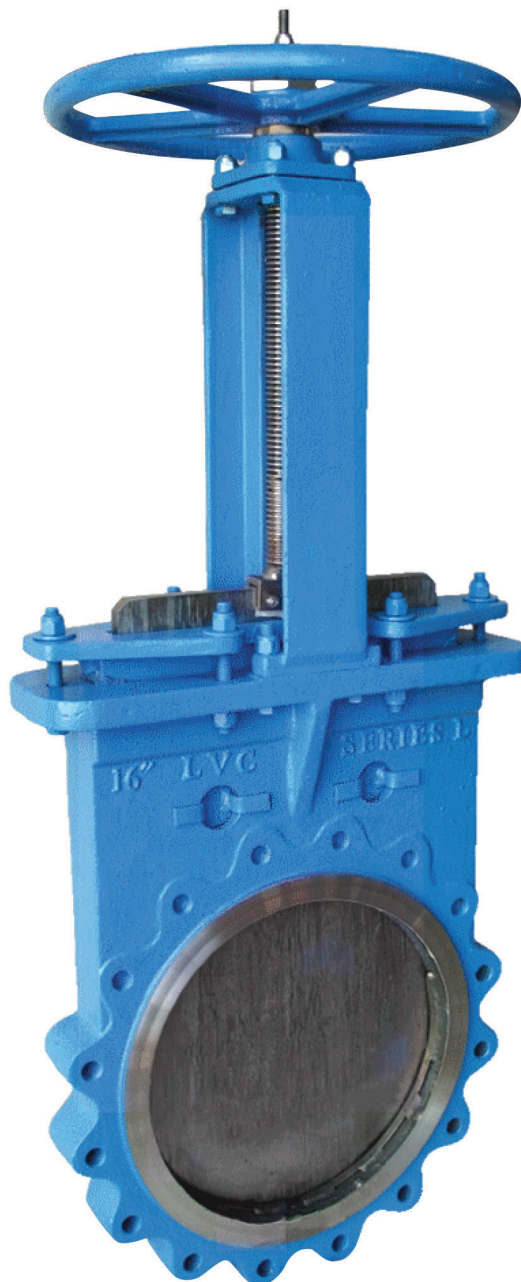
a MUELLER brand

LVC FIGURE 77 DUCTILE IRON BODY STAINLESS STEEL LINED RESILIENT SEATED KNIFE GATE VALVE

Knife Gate Valve

FEATURES

- Heavy duty cast ductile iron body, packing gland, and yoke.
- Heavy duty solid lug body design resists deflection from line loads and internal pressure.
- Fabricated stainless steel liner. Available in any weldable alloy.
- Stainless steel gate.
- Gate design withstands full 150 PSI rated pressure as required by MSS SP-81.
- Resilient seat provides bi-directional, drip tight shut off.
- Bi-Directional Buna resilient seat standard.
- Also available in EPDM, Viton, Neoprene and other materials. See reverse side for temperature limits.
- Quick and easy resilient seat replacement.
- Heavy duty cast ductile iron 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.
- Enclosed bronze stem bushing provides reduced operating torque and protection of the stem bushing in harsh environments.
- Precision machined stainless steel gate for superior seating capability.
- Stainless steel stem resists corrosion.
- Standard TFE lubricated synthetic packing (TLSP).
- Available in sizes 14", 16", 18", 20", and 24".
- MSS SP-81 Stainless Steel, Bonnetless, Flanged Knife Gate Valves.
- AWWA C520 Knife Gate Valves, 2in.— 96in.



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MATERIALS OF CONSTRUCTION

MODEL 77

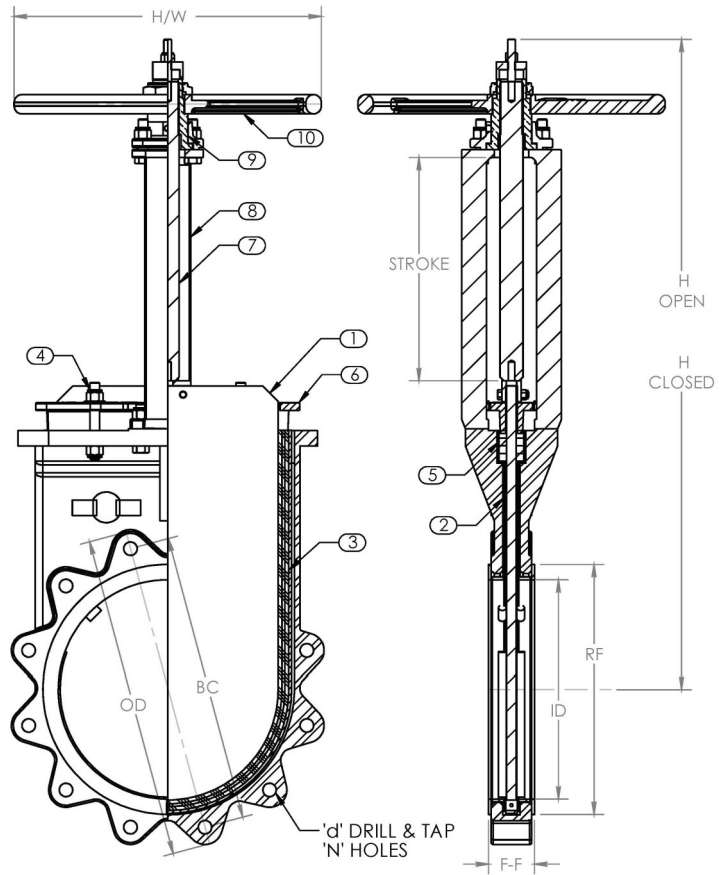
1	Gate	SS
2	Body	SS
3	Seat	Buna-N**
4	Bolts	SS
5	Packing	TLSP*
6	Gland	DI
7	Stem	SS
8	Yoke	DI
9	Stem Nut	Bronze
10	Handwheel	DI

*TLSP = TFE Lubricated Synthetic Packing.

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.

MATERIALS OF CONSTRUCTION

MATERIAL**	TEMP. LIMITS °F (°C)
Buna	-35 (-37) to 250 (121)
EPDM(P)	-65 (-54) to 300 (149)
Neoprene	-40 (-40) to 225 (107)
Viton	-20 (-29) to 400 (204)



DIMENSIONS (INCHES) AND WEIGHTS

	SIZE	14	16	18	20	24
Face-to-Face	F-F	3	3-1/2	3-1/2	4-1/2	4-1/2
Flange OD	OD	21	23-1/2	25	27-1/2	32
Bolt Circle	BC	18-3/4	21-1/4	22-3/4	25	29-1/2
Flanged Raised Face	RF	16-1/2	18-3/4	21	23	27-1/4
Inside Diameter	ID	14 -1/4	15-15/16	17-3/4	19-3/4	23-3/4
No. of Bolt Holes	N	12	16	16	20	20
Hole D&T Size	D	1"-8	1"-8	1-1/8"-7	1-1/8"-7	1-1/4"-7
C/L to Top-Closed	H-CLS	42-3/16	62-1/4	50-3/16	56-9/16	64-3/16
C/L to Top-Open	H-OPN	59-9/16	78-3/8	68-13/16	76-5/16	87-7/16
Handwheel Dia.	H/W	20	20	20	24	24
Weight - lbs	WT	360	495	565	790	1015
Stroke	S	14-3/8	16 -1/8	18-5/8	19-3/4	20-1/4

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