

FLS-R Gate Valve



- **Bore Sizes: 4-1/16" ~ 7-1/16"**
- **Pressure Rating (psi): 10K, 15K**
- **Flanged Connection / Studded option (7-1/16")**
- **Temperature Rating: L-X**
- **PSL 2-3**
- **PR1 / PR2**

Trim Option

API 6A Classification	Body / Bonnet	Stem	Gate	Seat
AA-General Service	4130	4130	4130 / TC	4130 / nitrided
BB-General Service	4130	4130	4130 / TC	Stellite / 410
CC-General Service	410	410	410 / TC	Stellite / 410
DD-Sour Service*	4130	4130/QPQ	4130 / TC	Stellite / 410
EE-Sour Service (0.5 - 1.5 - NL)*	4130	17-4/QPQ	410 / TC	Stellite / 410
FF-Sour Service (NL)*	410	718/QPQ	410 / TC	Stellite / 410
HH-Sour Service (NL)*	Alloy steel clad with alloy 625 or solid CRA**	CRA**	CRA hard face	CRA hard face

*As defined by NACE Standard MR0175 / ISO 15156

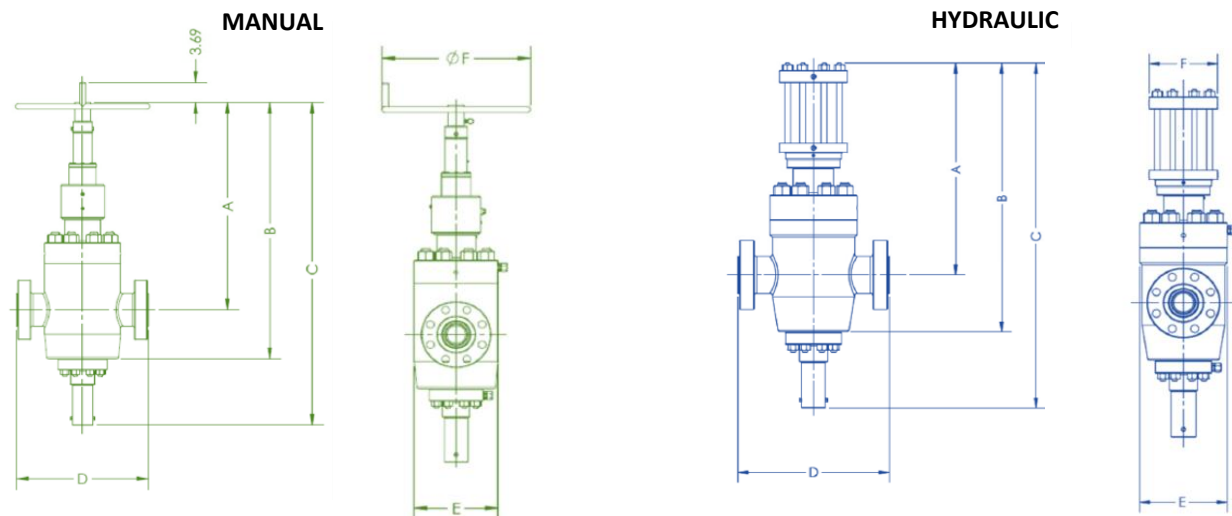
**CRA for applications below -20° F (-29° C)

Manual Valve Turns and Torque

Valve size and pressure rating	Bonnet Nut Torque (ft - lb)	Max Open Torque (ft - lb)	Total Number of Turns	Grease Volume Required (cu - in)	Weight of Grease required (lb)
4-1/16" 15k	1880.05	103.26	19	340	14
5-1/8" 10k	734.61	103.26	23-1/4	560	23
5-1/8" 15k	1526.02	117.01	24-1/2"	685	28
7-1/16" 10k	1526.02	117.01	31-1/4"	1450	58
7-1/16" 15k	1880.05	449.91	16-3/4"	1125	45

- ≥-20°F Diesel Resistant
- ≥ 0°F Premalube #2
- ≥-45°F Arctic Premalube #1

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Manual (Dimensions and weights)

Size	Pressure (psi)	Note	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Weight (lbs)
4-1/16"	15000		41.92	53.59	66.90	29.00	15.50	28.00	1,660
5-1/8"	10000		42.56	552.25	69.68	29.00	16.25	28.00	1,820
5-1/8"	15000		42.99	52.49	67.56	35.00	17.80	34.00	3,070
7-1/16"	10000		49.95	60.89	79.47	35.00	18.88	34.00	3,150
7-1/16"	10000	STUDDER	49.95	60.89	79.47	19.00	18.88	34.00	3,600
7-1/16"	15000		62.41	74.41	97.54	41.00	24.00	40.00	7,020
7-1/16"	15000	STUDDER	62.41	74.41	97.54	24.00	24.00	40.00	6,350

Hydraulic (Dimensions and weights)

Size	Pressure (psi)	Note	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Weight (lbs)
4-1/16"	15000		37.82	49.45	62.75	29.00	15.50	10.63	1,770
5-1/8"	10000		37.18	49.88	64.30	29.00	16.25	10.63	1,920
5-1/8"	15000		38.09	47.59	62.66	35.00	17.80	12.38	3,270
7-1/16"	10000		42.98	53.92	72.50	35.00	18.88	12.38	3,800
7-1/16"	10000	STUDDER	42.98	53.92	72.50	19.00	18.88	12.38	3,350
7-1/16"	15000		47.56	59.56	82.69	41.00	24.00	16.83	7,310
7-1/16"	15000	STUDDER	47.56	59.56	82.69	24.00	24.00	16.83	6,650