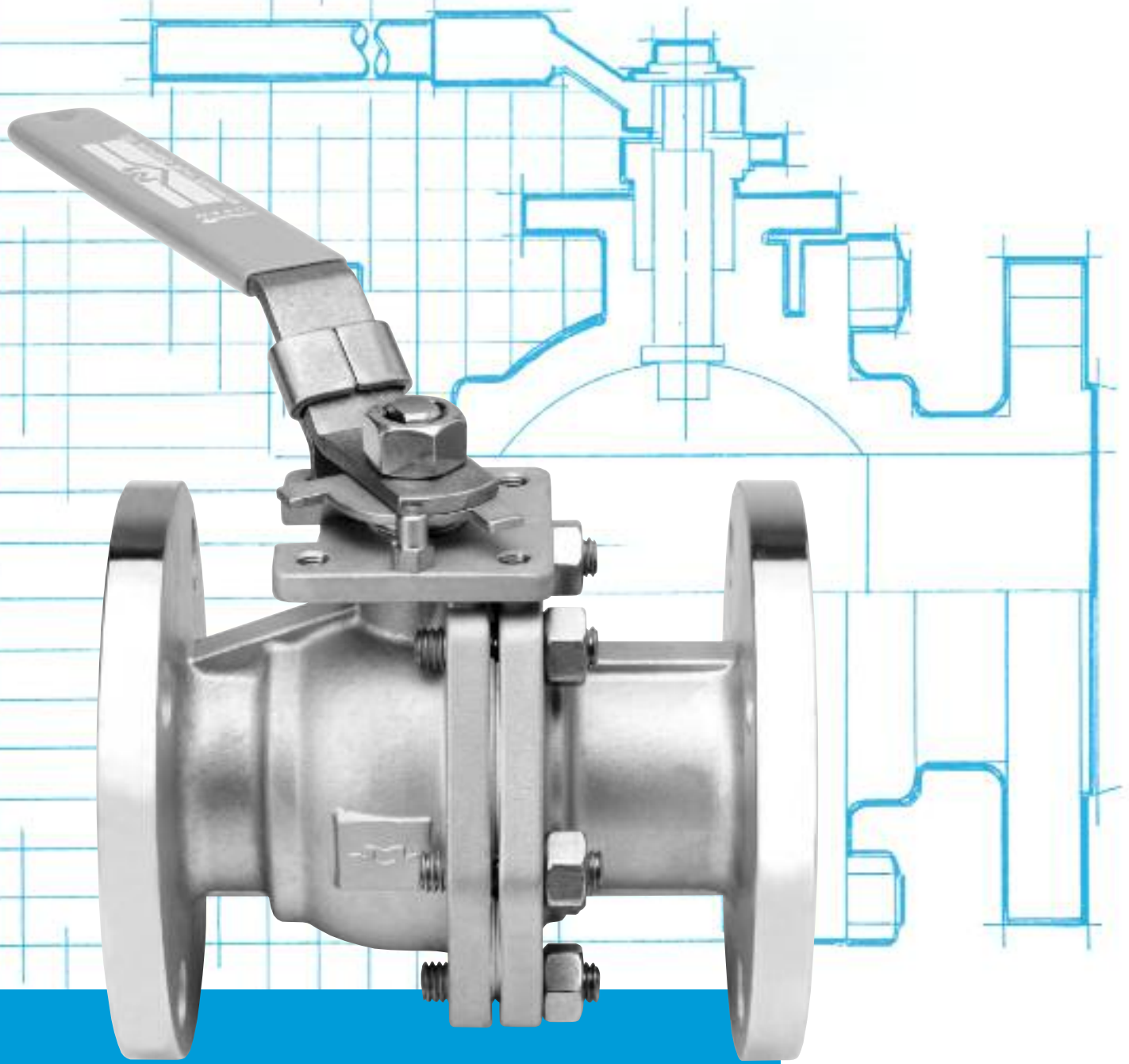


F20CS150/300 AND F20SS150/300 FIRE-SAFE FLANGED-END BALL VALVES



INNOVATION IN EVERY VALVE



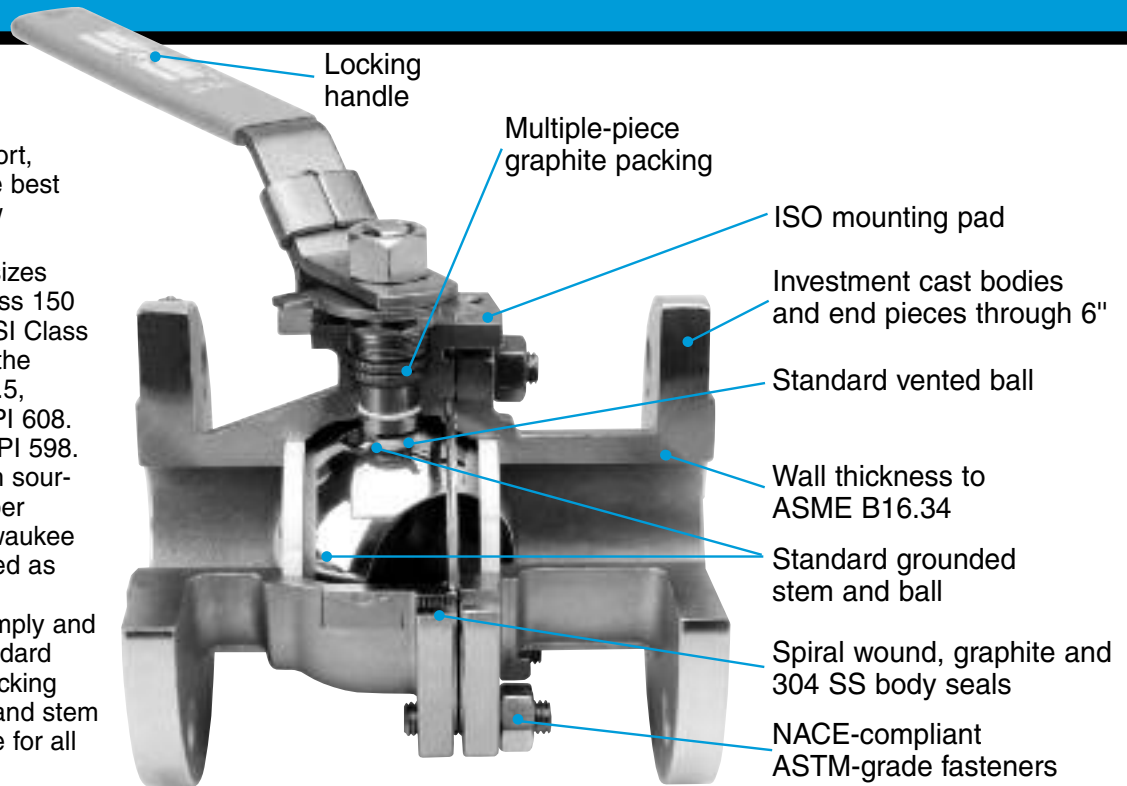
MILWAUKEE VALVE

F20CS150/300 AND F20SS150/300 FIRE-SAFE, FLANGED-END BALL VALVES

The F20CS150/300 and F20SS150/300 series full-port, flanged-end ball valve is the best choice to meet your full-flow requirements.

The F20 is available in sizes 1/2" to 12" ASME/ANSI Class 150 and 1/2" to 8" in ASME/ANSI Class 300. These valves meet all the requirements of ASME B16.5, B16.34, MSS SP-72 and API 608. Every valve is tested, per API 598. The valves also comply with sour-gas-service requirements, per NACE MR0175 (2001). Milwaukee Valve's F20 Series is certified as fire-safe to API 607, 4th.

Actuation is mounted simply and effectively through ISO-standard mounting pads. Standard locking devices and grounded ball and stem provide a complete package for all your flow control needs.

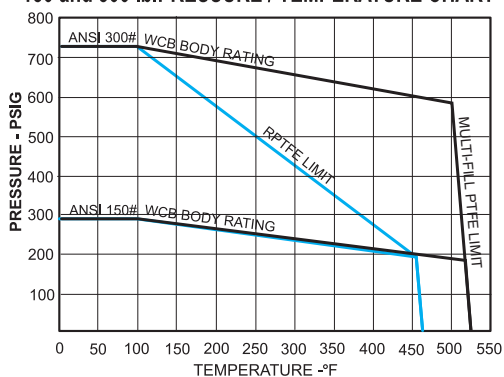


TORQUE IS CONTROLLED EFFECTIVELY BY CANTILEVER SEAT DESIGN.

PERFORMANCE DATA

PRESSURE/TEMPERATURE RATINGS

150 and 300 lb. PRESSURE / TEMPERATURE CHART



TORQUE AND CV RATINGS

VALVE SIZE	Class 150 (0-285 PSID) RECOMMENDED ACTUATOR TORQUE (in. lbs. / Nm)	Class 300 (285-740 PSID) RECOMMENDED ACTUATOR TORQUE (in. lbs. / Nm)	Cv	VALVE SIZE	Class 150 (0-285 PSID) RECOMMENDED ACTUATOR TORQUE (in. lbs. / Nm)	Class 300 (285-740 PSID) RECOMMENDED ACTUATOR TORQUE (in. lbs. / Nm)	Cv
1/2	60 6.8	65 7.3	9	3	700 79.1	880 99.4	1300
3/4	100 11.3	105 11.9	56	4	1600 180.8	1600 180.8	2500
1	140 15.8	180 20.3	100	6	2700 305.1	3000 339.0	5600
1-1/2	220 24.9	300 33.9	270	8	7200 813.6	10000 1130.0	10000
2	450 50.9	450 50.9	500	10	8280 935.6	NA	16000
2-1/2	510 57.6	NA	785	12	13200 1491.6	NA	22300

SPECIFICATIONS

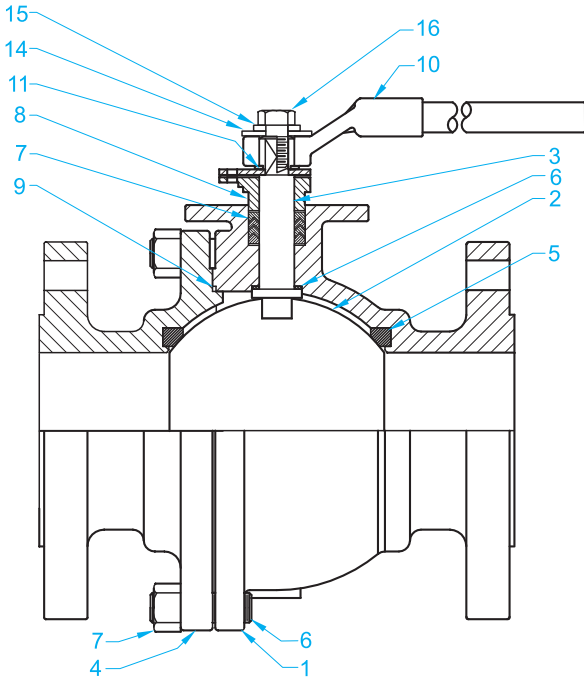
Approved valves shall be fire-safe per API 607, 4th and include graphite stem packing. All materials must meet ASTM specifications for traceability.

Valves must be tested in accordance with ASME B16.34/API 598, and must be compliant with NACE MR0175 for sour gas service.

All approved valves shall have ISO 5211 mounting pads and independent stem packing adjustment.

All valves shall be drilled in the top of the ball slot for venting and draining.

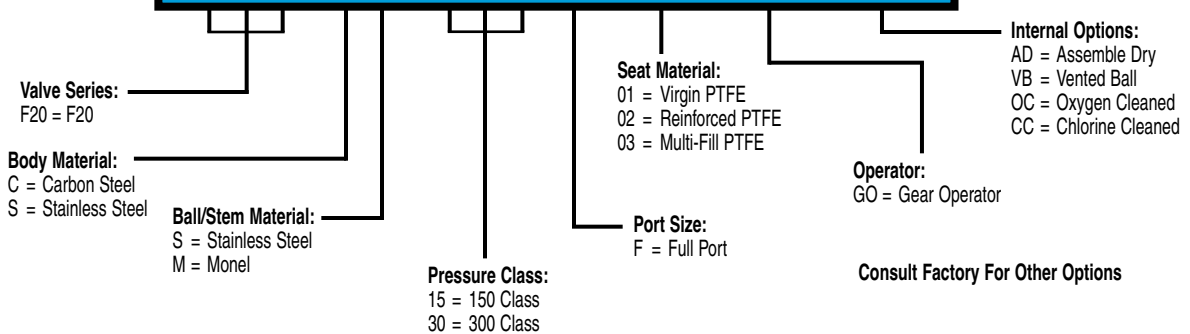
MATERIAL LIST



QTY.	Part Name	F20CS	F20SS	
1	1	Body	A216-WCB	A351-CF8M
2	1	Ball	A351-CF8M	A351-CF8M
3	1	Stem	316SS	316SS
4	1	Body Cap	A216-WCB	A351-CF8M
5	2	Seat	PTFE/RPTFE	PTFE/RPTFE
6	1	Thrust Washer	PTFE/RPTFE	PTFE/RPTFE
7	1 set	Stem Packing	PTFE/GRAPHITE	
8	1	Gland	A216-WCB	A351-CF8M
9	1	Body Seal	PTFE/RPTFE/304SS+GRAPHITE	
10	1	Handle	1/2"-2-1/2" 3"-6" Plated CS D.I. /CS, 3"-6"	304SS
11	1	Snap Ring	SK7CS	SK7CS
12	1 set	Stud Bolt	A193-B7	A193-B8
13	1 set	Nut	A194-2H	A194-GR8
14	1	Washer	304SS	304SS
15	1	Lock Washer	304SS	304SS
16	1	Bolt	304SS	304SS

ORDERING INFORMATION

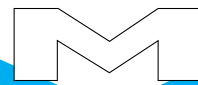
F20-SS-150-F-02-GO-AD



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MILWAUKEE VALVE