

3 Piece Ball Valves Full Port: 1/4" - 4"



Flow-Tek's Series 5000 ball valves offer the convenience of a three piece body design at an economical price. The 3 Piece design with a swing out center section allows for ease of in-line and out-of-line maintenance. Standard valve bodies are investment cast CF8M Stainless Steel. All body castings are marked with a foundry heat number for full traceability.

These valves offer quarter turn operation and low operating torque. The Series 5000

features adjustable stem packing, stainless steel safety trigger locking handles and travel stops which limit handle movement to set 90° intervals. Flow-Tek's heavy duty, high quality stems are internal entry and blow-out proof for maximum safety.

Each Series 5000 valve features an integrally cast mounting pad complying with ISO 5211 that provides positive alignment when mounting actuators, gear operators or control accessories.

Pressure Rating:

1/4"-2": 1000 psi WOG
2-1/2"-4": 800 psi WOG

Temperature Range:

-50°F to +450°F
-46°C to +232°C

End Connections:

Threaded - NPT SS CF8M
Socket Weld - SS CF3M

Body Material:

Stainless Steel CF8M

COMPONENTS AND MATERIALS

Item	Name	Material	Qty.
1	Body	ASTM A351 Gr CF8M	1
2	End Cap	ASTM A351 Gr CF8M	2
3	Ball	ASTM A479 Type 316	1
4	Seat	RPTFE	2
5	Stem	ASTM A479 Type 316	1
6	Body Seal	PTFE	1
7	Washer	SS304	*
8	Body Nut	SS304	*
9	Body Bolt / Stud	SS304	**
12	Thrust Washer	PTFE	1
14	Stem Packing	PTFE	1
15	Gland Nut	SS304	1
19	Handle Washer	SS304	1
23	Stop Set Sleeve	SS304	1
24	Stop Bolt	SS304	1
25	Handle	SS304	1
26	Handle Nut	SS304	2
28	Handle Sleeve	Vinyl	1
29	Locking Device	SS304	1

- Parts included in the repair kits
- Weld Ends use CF3M
- * Number of Nuts and Spring Washers:
- 1/4"–2" Valves 4
- 2-1/2"–3" Valves 8
- 4" Valves 12
- ** Number of Body Bolts or Studs:
- 1/4"–3" 4
- 4" Valves 6

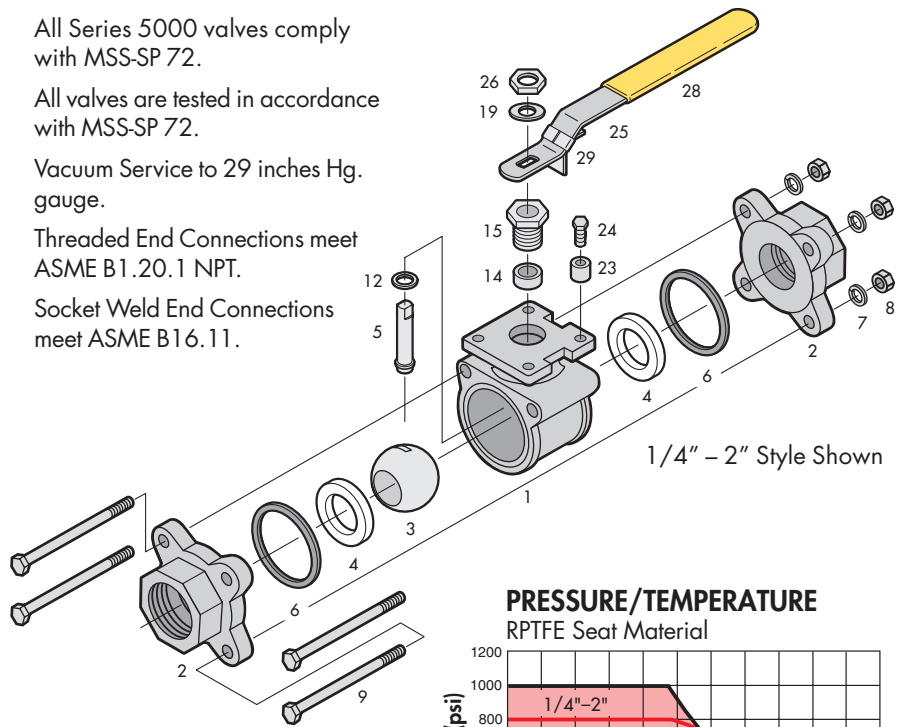
All Series 5000 valves comply with MSS-SP 72.

All valves are tested in accordance with MSS-SP 72.

Vacuum Service to 29 inches Hg. gauge.

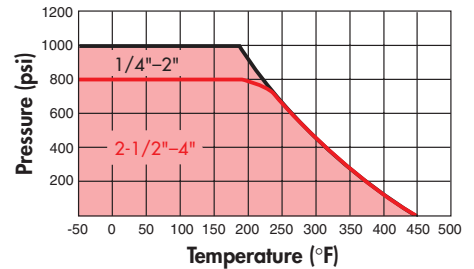
Threaded End Connections meet ASME B1.20.1 NPT.

Socket Weld End Connections meet ASME B16.11.



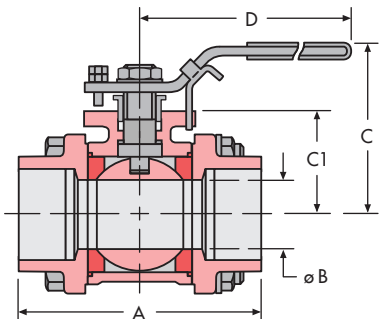
PRESSURE/TEMPERATURE

RPTFE Seat Material

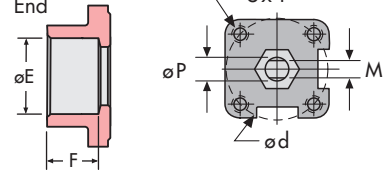


DIMENSIONS AND WEIGHTS

Size ins mm	A	øB Port	C	C1	D	øE	F	ød	M	øP	U	Cv	Torque Weight	
													lbs-in* Nm	lbs kg
1/4 6	2.36 60	0.46 11.6	2.64 67	1.48 37.7	4.72 120	0.57 14.4	0.47 12	1.42 36	0.20 5	0.31 7.9	M5	8	60 7	1.0 0.45
3/8 10	2.36 60	0.49 12.5	2.64 67	1.48 37.7	4.72 120	0.70 17.8	0.47 12	1.42 36	0.20 5	0.31 7.9	M5	8	60 7	0.9 0.43
1/2 15	2.95 75	0.59 15	2.87 73	1.76 44.7	4.72 120	0.87 22	0.47 12	1.42 36	0.20 5	0.37 9.4	M5	32	70 8	1.3 0.6
3/4 20	3.03 77	0.79 20	2.99 76	1.89 48	5.71 145	1.08 27.4	0.55 14	1.42 36	0.26 6.5	0.37 9.4	M5	54	95 11	1.6 0.74
1 25	3.35 85	0.98 25	3.31 84	2.30 58.5	6.10 155	1.34 34.1	0.59 15	1.65 42	0.32 8	0.45 11.4	M5	105	140 16	2.3 1.04
1 1/4 32	4.09 104	1.26 32	3.50 89	2.48 63.1	6.10 155	1.69 42.9	0.67 17	1.65 42	0.32 8	0.45 11.4	M5	200	195 22	3.8 1.72
1 1/2 40	4.72 120	1.50 38	4.06 103	3.02 76.6	6.69 170	1.93 49	0.67 17	1.97 50	0.34 8.5	0.63 16	M6	275	315 36	5.4 2.46
2 50	5.12 130	1.97 50	4.29 109	3.29 83.5	6.69 170	2.42 61.5	0.79 20	1.97 50	0.34 8.5	0.63 16	M6	500	510 58	8.4 3.8
2 1/2 65	6.50 165	2.56 65	5.20 132	4.50 114.2	9.06 230	3.03 77	0.94 23.8	2.76 70	0.47 12	0.79 20	M8	780	730 82	18.1 8.2
3 80	7.17 182	2.99 76	5.51 140	4.80 122	9.06 230	3.54 90	0.98 25	2.76 70	0.47 12	0.79 20	M8	1150	990 112	24.3 11
4 100	9.06 230	3.82 97	6.93 176	6.47 164.3	10.83 275	4.54 115.4	1.18 30	4.02 102	0.63 16	0.98 25	M10	1700	3100 350	51.8 23.5



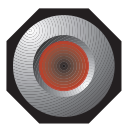
Socket Weld End



Verify mounting dimensions before manufacturing mounting hardware.

Automated valves may require periodic gland nut adjustments.

*Based on RPTFE seats at full rated pressure.



Flow-Tek

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