

Series B780 General Service Ball Valve

A screwed end, two-piece ball valve in carbon steel or stainless steel



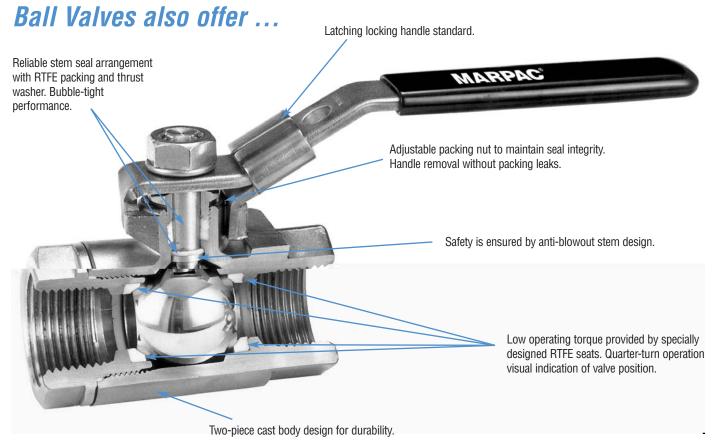
General Purpose Ball Valves

The line of general purpose ball valves offers outstanding performance, durability and economy for a variety of applications, including:

- new construction
- · water, oil, gas utility services
- industrial process services

Versatility is provided with the availability of two body materials – **carbon steel and stainless steel** in ½" - 2" sizes. And because it is a ball valve, it can offer significant performance advantages over conventional gate and globe valves.









Specifications

Sizes: 1/4", 3/8", 1/2", 3/4", 1", 11/4", 11/2", 2"

Ends: Screw ends (NPT) to ANSI B2.1

Body: One-piece body with end plug insert available

in carbon steel and stainless steel (316)

Ball: Solid bore, 316 stainless steel

Stem: One-piece bottom-entry style with anti-blowout

shoulder. Stainless steel to ASTM A479-316

Seat: Reinforced TFE

Body Seal: Reinforced TFE, 1/4" - 2" carbon steel

and stainless steel only

Stem Seal: Reinforced TFE
Thrust Washer: Reinforced TFE

External Hardware: Carbon steel – Carbon steel, zinc plated;

Stainless steel - Series 300 stainless steel

Handle: Lever type standard – with lockout

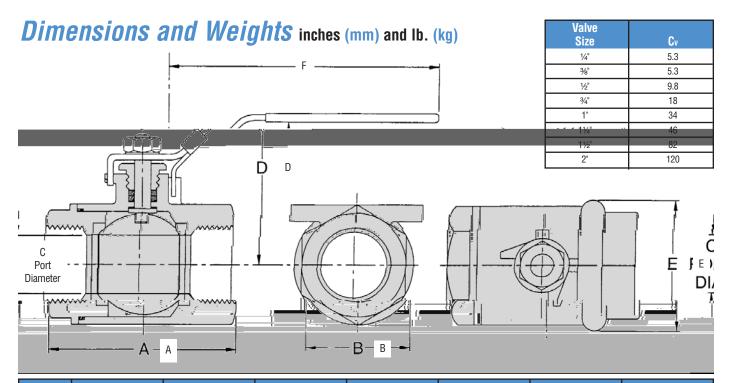
Operation: Bidirectional

Steam Rating: 150 psi saturated steam

Options: Oval handle
Temperature Range: -20 to 450°F

Pressure Rating: 1/4" - 2" carbon steel and stainless steel

2000 psi WOG



Size	A	В	C	D	E	F	Weight
1/4"	2.09	.81	.37	1.65	1.56	4.25	.50
(6)	(53.86)	(2.057)	(9.398)	(41.91)	(39.62)	(107.95)	(.23)
3%"	2.09	.81	.37	1.65	1.56	4.25	.60
(9)	(53.86)	(2.057)	(9.398)	(41.91)	(39.62)	(107.95)	(.27)
½"	2.36	1.06	.50	1.77	1.56	4.25	.65
(15)	(59.94)	(2.692)	(12.70)	(44.96)	(39.62)	(107.95)	(.29)
³ / ₄ "	2.80	1.34	.69	2.05	1.81	5.98	1.10
(20)	(71.12)	(3.404)	(17.53)	(52.07)	(45.98)	(151.89)	(.50)
1"	3.23	1.62	.87	2.24	1.81	5.98	2.00
(25)	(82.04)	(41.15)	(22.10)	(56.90)	(45.97)	(151.89)	(.90)
1¼"	3.62	1.88	1.00	2.48	2.00	7.17	3.00
(32)	(91.95)	(47.75)	(25.40)	(63.00)	(50.80)	(182.12)	(1.35)
1½"	4.06	2.25	1.25	2.68	2.00	7.17	4.25
(40)	(103.12)	(57.15)	(31.75)	(68.07)	(50.80)	(182.12)	(1.91)
2"	4.65	3.09	1.50	2.91	2.00	7.17	6.75
(50)	(118.11)	(78.49)	(38.10)	(73.91)	(50.80)	(182.12)	(3.04)

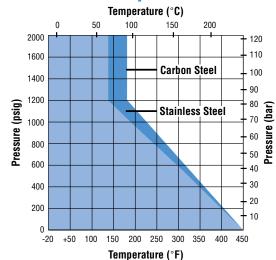




Materials of Construction

2 5 10 13 8 6 4 9

Pressure/Temperature Curves



No.	Part Description	Carbon Steel w/Stainless Steel Trim	Stainless Steel	
1	Body	WCB Carbon Steel	CF8M Stainless Steel	
2	Ball	316 Stainless Steel	316 Stainless Steel	
3	Stem	316 Stainless Steel	316 Stainless Steel	
4	End Adapter	WCB Carbon Steel	CF8M Stainless Steel	
5	Seats (2)	RTFE		
6	Stem Seals (2)	RTFE		
7	Thrust Washer	RTFE		
8	Gland	Carbon Steel	316 Stainless Steel	
9	Handle	Carbon Steel-Plastic Coated	Stainless Steel-Plastic Coated	
10	Spring Washer	Carbon Steel	Stainless Steel	
11	Lock Nut	Carbon Steel Stainless Steel		
12	Body Seal	RTFE		

How To Order

<u>-1/2"</u>	<u>PB780</u>	4	<u>_6</u> _	<u>_R</u>	<u>SE</u>	<u>D</u>
Size	Series	Body & End/Plug	Ball & Stem	Seat	Ends	Option
1¼" ½" 1" 1½" 3%" 3¼" 11¼" 2"	*B780	4 - Carbon Steel 6 - Stainless Steel	6 - Stainless Steel	R - Reinforced TFE	SE - Screw Ends	D - Oval Handle

Ordering Example: A 1/2" Series B780 with carbon body and end plug, stainless steel ball and stem, reinforced TFE seats, screw ends and oval handle.

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^{*} Series designation formerly McCANNA M402.