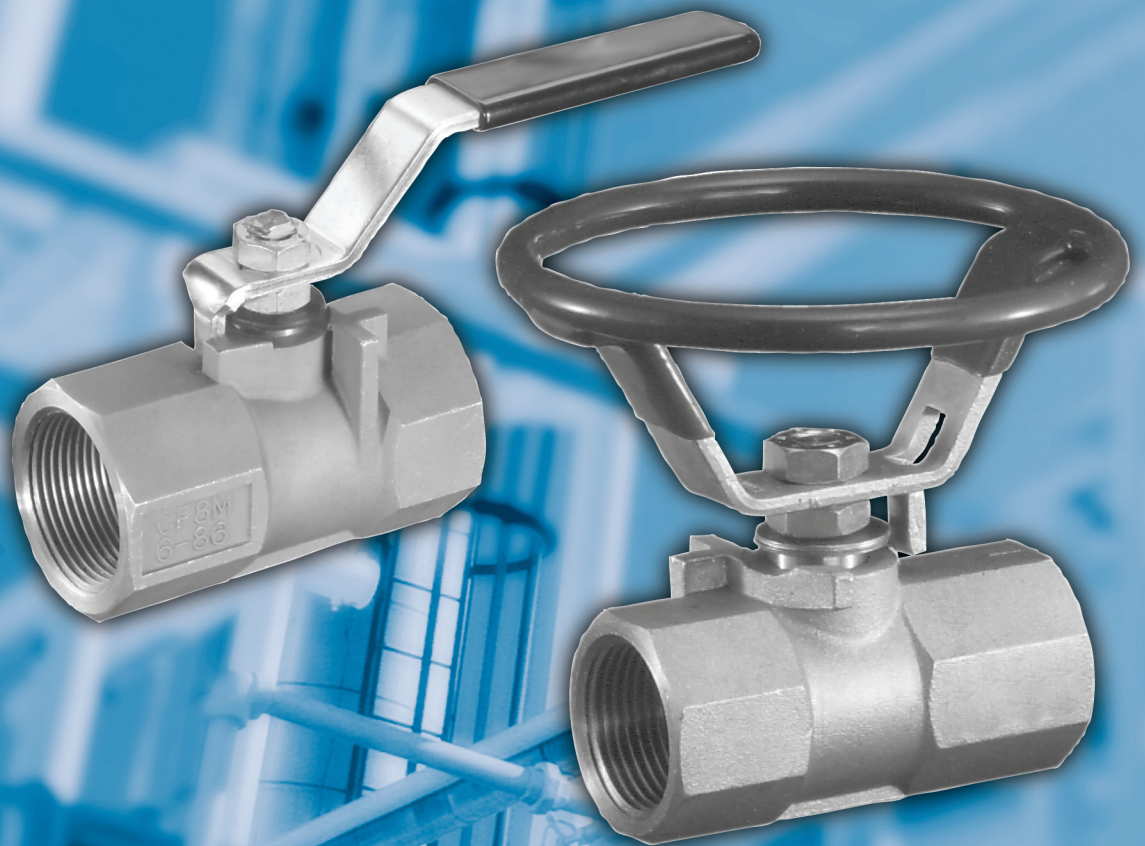




McCANNA Threaded-End Ball Valves General Purpose

MARPAC Unipac 880 • McCANNA M-802



Experience In Motion

MARPAC Unipac 880 / McCANNA M-802

The MARPAC Unipac 880 and McCANNA M-802 Ball Valves provide a quality, low-cost solution to the needs of high-pressure applications requiring fire-safe valves.

In its standard configuration, the Unipac 880, utilizing the MARPAC FIRE-GARD® valve design, was tested and conforms to API-607 fire-safe standards for ¾" through 2" sizes. This design includes flexible graphite stem packing, and secondary metal-to-metal seating, which provides safe operation of the valve after a fire. The Unipac 880 Ball Valve is rated for positive, bubbletight shutoff to 2000 psig, offering excellent performance in applications from -50°F to 450°F.

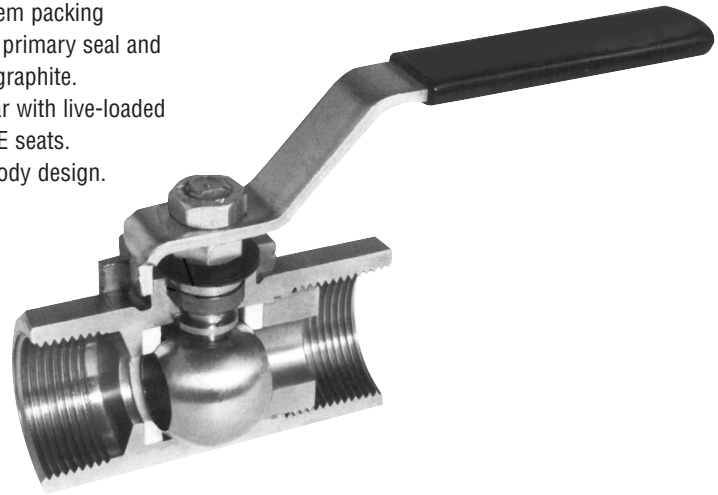
Features

- Low operating torque provided by specially designed RTFE seats. Notches on the outside diameter equalize pressure on both sides of the upstream seat.
- Safety is ensured by anti-blowout stem design.
- Reliable stem seal results from superior stem packing arrangement with RTFE thrust washer as a primary seal and secondary adjustable stem seal of flexible graphite.
- Automatic compensation for stem seal wear with live-loaded stem seal. 2000 psig in all sizes using RTFE seats.
- Body leakage virtually eliminated with unibody design.

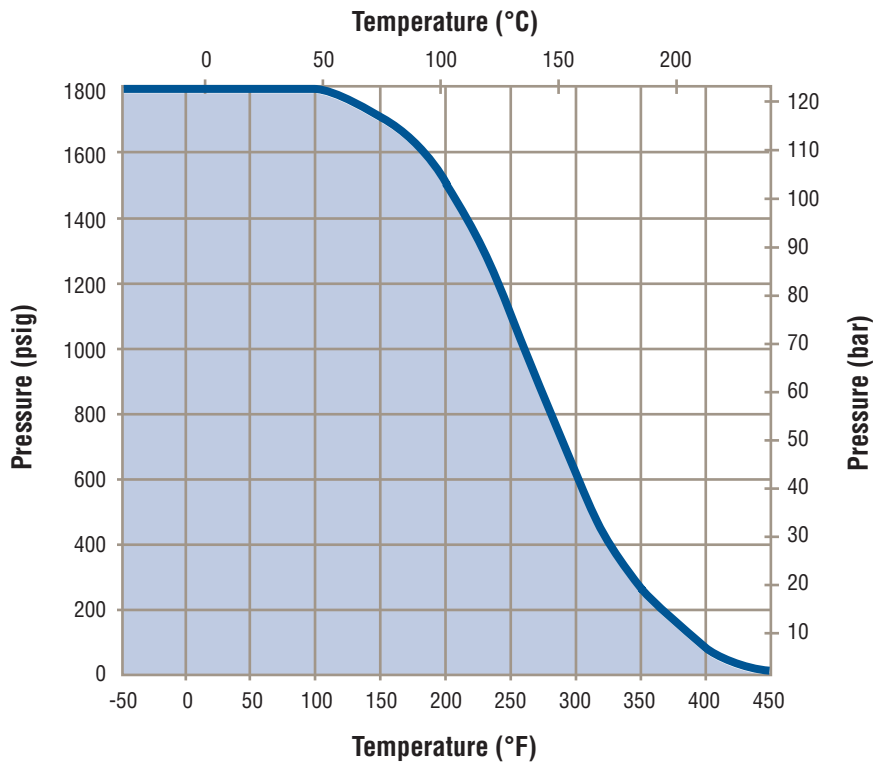
- Product quality ensured through use of investment-cast carbon or stainless steel body.
- Round handle standard on ¼"-1" sizes and optional on 1½"-2" sizes. Lever handles on ¼"-1" option available.
- Threaded ends to ASME 1.20.1.

Specifications

- Sizes: ¼" through 2".
- Operating Temperature Range: -50°F (-45°C) to 450°F (232°C). See Pressure/Temperature Curve on page 3.
- Operating Pressure Range: To 2000 psig. See Pressure/Temperature Curve below.
- Flow Capacities: See Flow Capacities chart below.
- Materials of Construction: Available in carbon steel or stainless steel body with stainless trim (ball and stem). See page 4.



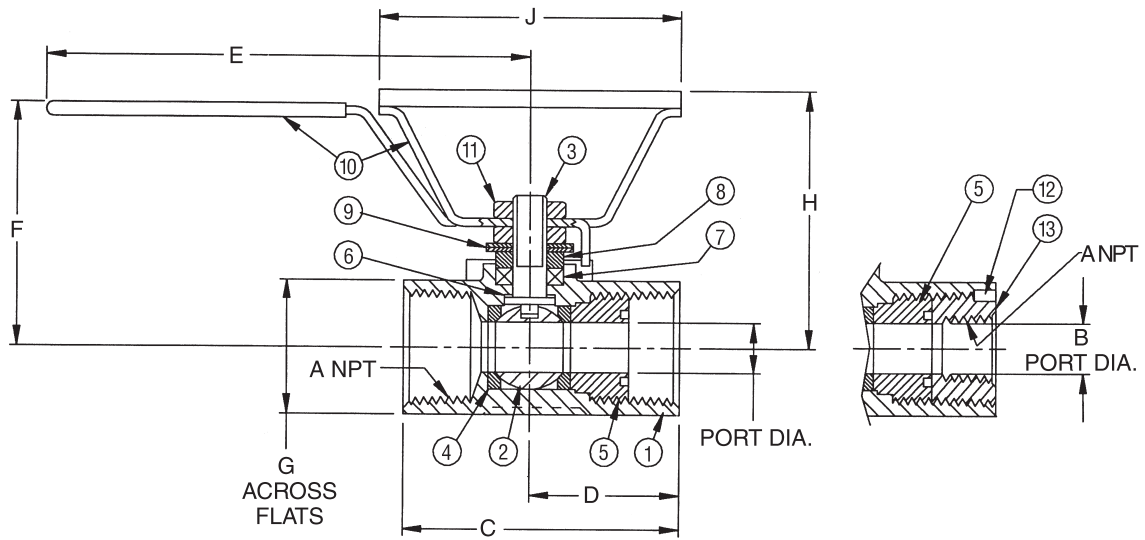
Pressure/Temperature Curve



Flow Capacities

inches / mm

Size	C _v	Equivalent Length of Schedule 40 Pipe
¼	3	1.0
6		
⅜	4	3.0
9		
½	5	4.0
12		
¾	9	5.5
20		
1	14	7.0
25		
1¼	22	10.4
32		
1½	50	13.6
40		
2	81	16.3
50		



Materials of Construction

Part Number	Description	Carbon Steel with Stainless Steel Trim	Stainless Steel
1	Body	WCB Carbon Steel	CF8M Stainless Steel
2	Ball	316 Stainless Steel	
3	Stem	316 Stainless Steel	
4	Seats (2)	RTFE (15% Glass-Filled PTFE)	
5	Seat Retainer	1020 Carbon Steel	316 Stainless Steel
6	Thrust Washer	RTFE (15% Glass-Filled PTFE)	
7	Packing	Flexible Graphite	
8	Gland	316 Stainless Steel	
9	Belleville Spring Washers (2)	302 Stainless Steel	
10	Handle	Steel, Zinc-Plated, Plastic-Coated	
11	Stem Nuts (2)	Carbon Steel, Zinc-Plated	
12	Locking Pin	304 Stainless Steel	
13	End Adapter	Carbon Steel AISI 1020	316 Stainless Steel

Dimensions and Weights

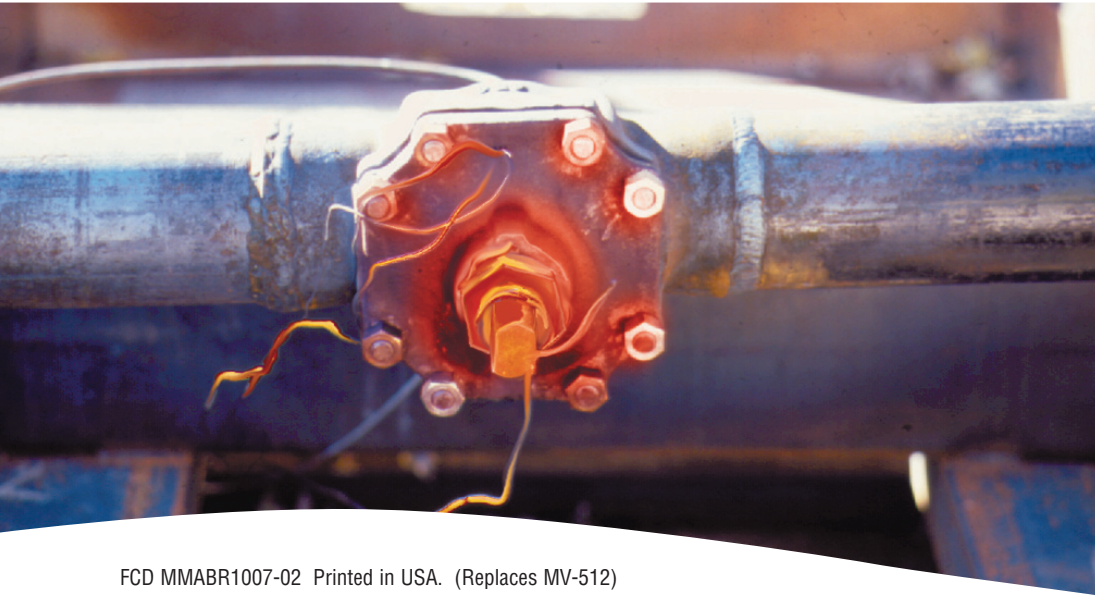
Size in./mm	A	B	C	D	E	F	G	H	J	K	Weight lb./kg
¼	¼-18	.36	2.88	1.39	4.50	1.88	1.125	2.361	2.923	2.442	.95
6		9.144	73.15	35.31	114.3	47.75	28.57	59.97	74.24	62.03	.43
⅜	⅜-18	.36	2.88	1.39	4.50	1.88	1.125	2.361	2.923	2.442	.95
9		9.144	73.15	35.31	114.3	47.75	28.57	59.97	74.24	62.03	.43
½	½-18	.36	2.56	1.39	4.50	1.88	1.125	2.361	2.923	2.442	.89
12		9.144	65.02	35.30	114.3	47.75	28.57	59.97	74.24	62.03	.40
¾	¾-14	.48	3.00	1.71	4.50	2.18	1.312	2.548	3.204	2.836	1.17
20		12.19	76.20	43.43	114.3	55.37	33.32	64.72	81.38	72.03	.53
1	1-11½	.62	3.50	1.84	5.38	2.50	1.562	2.765	3.546	3.28	1.64
25		15.75	88.90	46.74	136.65	63.50	39.67	70.23	90.07	83.31	.74
1¼	1¼-11½	.81	3.88	2.12	6.00	2.81	2.00	3.114	4.114	3.81	2.52
32		20.57	98.55	53.85	152.4	71.37	50.80	79.10	104.5	96.77	1.14
1½	1½-11½	1.00	4.00	2.12	6.00	3.25	2.31	3.234	4.39	4.406	3.57
40		25.40	101.6	53.85	152.4	82.55	58.67	82.14	111.5	111.9	1.62
2	2-11½	1.25	4.50	2.36	7.00	3.88	2.875	3.421	4.86	5.32	5.34
50		31.75	114.3	59.94	177.8	98.55	73.03	86.89	123.44	135.12	2.42

How to Specify and Order

Item	Code	Description	Example Ordering Code
Size	00 ¼	¼	00 ½
	00 ⅜	⅜	
	00 ½	½	
	00 ¾	¾	
	01	1	
	01 ¼	1 ¼	
	01 ½	1 ½	
	02	2	
Body Material	CS	Carbon Steel	CS
	SS	Stainless Steel	
Valve Figure Number	880		880
Trim Code	12	316 Stainless Steel Ball and Stem	12
Seat Code	R	RTFE	R
Seal Code	F	FIRE-GARD Flexible Graphite	F
End Connection Code	-	No Options Available	—
Bolting Code	-	No Options Available	—
Handle Code	-	Lever Handle	H
	D	Round Handle (standard on ¼" - 1")	
	H	Latching, Locking Handle	
Service Preparation Code	-	Standard	—
	N	Nace, Sour Gas	
Grounding Code	-	No Options Available	—
Topworks Code	-	No Options Available	—
			00 ½ CS 880 12RF--H---

Box Quantities

Size	Pieces/Box
¼"–¾"	10
1"	10
1¼"	5
1½"	5
2"	5



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