

Threaded End Connection

Series F Carbon Steel

- 100% Made in USA
- To 5000 PSI WP
- 1" Through 4"
- Bolted Body Construction
 - Certified Low Emission per API 641
 - Fire Safe Design
 - NACE Option With 316 Stainless Steel
 - Ball and Stem Available
- Bolted Body Protects Against End Adapter Rotation
- Rugged Locking Device Standard
- Multi-Seal Seats (See page B-5)

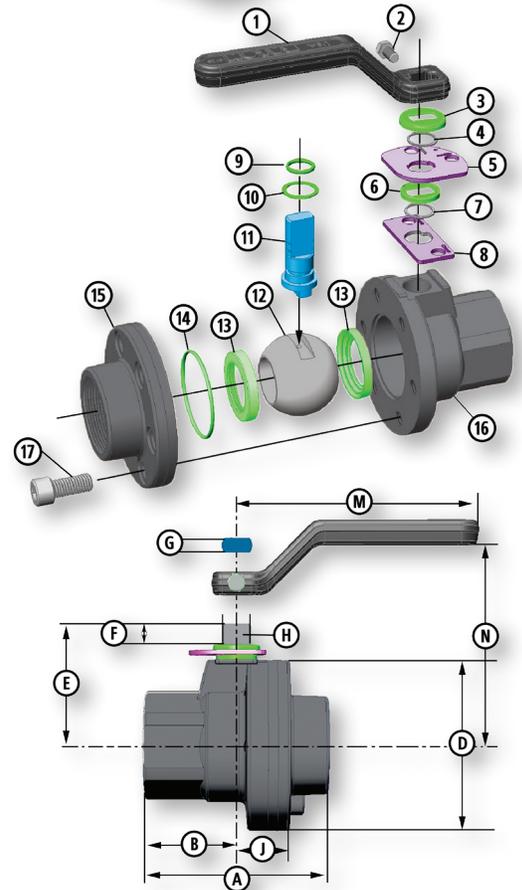


Material Description

ITEM	PART NAME	MATERIAL (STANDARD)	MATERIAL (NACE)	LOW TEMP (NACE)
1	Handle*	Carbon Steel/Ductile Iron	Carbon Steel/Ductile Iron	Carbon Steel/Ductile Iron
2	Handle Bolt	Standard Hex Bolt	Standard Hex Bolt	Standard Hex Bolt
3	Weather Guard	Polypropylene	Polypropylene	Polypropylene
4	Lock Plate Retainer	Carbon Spring Steel	Carbon Spring Steel	Carbon Spring Steel
5	Lock Plate	Carbon Steel	Carbon Steel	Carbon Steel
6	Dust Cover	Polypropylene	Polypropylene	Polypropylene
7	Stop Plate Retainer	Carbon Spring Steel	Carbon Spring Steel	Carbon Spring Steel
8	Stop Plate	Carbon Steel	Carbon Steel	Carbon Steel
9	Stem O-Ring	Buna-N	Fluorocarbon	Fluorocarbon
10	Stem Seal	TFE	TFE	TFE
11	Stem	Carbon Steel	316 Stainless Steel	316 Stainless Steel
12	Ball	Carbon Steel Nickel Chrome Plated	316 Stainless Steel	316 Stainless Steel
13	Ball Seat	Nylon 11/Acetal (TFE Optional**)	Nylon 11/Acetal (TFE Optional**)	Nylon 11/Acetal (TFE Optional**)
14	Body O-Ring	Buna-N	Fluorocarbon	Fluorocarbon
15	End Adapter	ASTM A105, Normalized	ASTM A105, Normalized	ASTM A350LF2 CL1
16	Body	ASTM A105, Normalized	ASTM A105, Normalized	ASTM A350LF2 CL1
17	Body Bolts	ASTM A193 B7M	ASTM A193 B7M	A320L7M

* Handle is optional. Balon valves can also be operated with a standard open-end wrench.

** Seat selection may result in de-rating of pressure. See Seat Pressure Ratings chart on page TD-4 for more information.



Dimensional Data

SIZE	CATALOG NUMBER			PORT	WP	A	B	D	E	F	G	H	J	M	N	LBS.	HANDLE	Cv
	STANDARD TRIM CARBON STEEL BALL & STEM	NACE TRIM 316 SS BALL & STEM	LOW TEMP 316 SS BALL & STEM															
1x1x1	1F-F93-SE	1F-F93N-SE	N/A	1	2500	3.87	1.93	3.37	2.37	0.50	.340	0.685	1.120	4.37	2.00	4.3	P-333-CS	-
1x1x1	1F-F03-SE	1F-F03N-SE	1F-F03NL-SE	1	3000	3.87	1.93	3.37	2.37	0.50	.340	0.685	1.120	4.37	2.00	4.0	P-333-CS	-
1x1x1	1F-F5M-SE	1F-F5MN-SE	-	1	5000	4.50	2.00	4.30	2.37	0.50	.340	0.685	1.72	4.37	2.00	8.6	P-333-CS	-
1.5x1.5x1.5	1.5F-F03-SE	1.5F-F03N-SE	N/A	1.5	3000	5.25	2.62	5.12	3.62	0.75	.434	0.873	1.620	7.25	5.25	12.8	P-4128-CS	-
2x1.5x2	2R-F93-SE	2R-F93N-SE	N/A	1.5	2500	5.50	2.75	5.12	3.62	0.75	.434	0.873	1.620	7.25	5.25	13.5	P-4128-CS	125
2x1.5x2	2R-F03-SE	2R-F03N-SE	2R-F03NL-SE	1.5	3000	5.50	2.75	5.12	3.62	0.75	.434	0.873	1.620	7.25	5.25	13.0	P-4128-CS	125
2x1.5x2	2R-F5M-SE	2R-F5MN-SE	N/A	1.5	5000	6.00	3.00	6.00	3.62	0.75	.434	0.873	1.750	10.25	5.62	20.0	P-4129-CS	125
2x2x2	2F-F93-SE	2F-F93N-SE	N/A	2	2000	5.75	2.87	6.12	4.37	0.87	.497	0.998	2.000	10.25	6.20	20.0	P-4129-CS	-
2x2x2	2F-F03-SE	2F-F03N-SE	2F-F03NL-SE	2	2500	5.75	2.87	6.12	4.37	0.87	.497	0.998	2.000	10.25	6.20	19.0	P-4129-CS	-
2x2x2	2F-F3M-SE	2F-F3MN-SE	N/A	2	3000	5.75	2.87	6.12	4.37	0.87	.497	0.998	2.000	10.25	6.20	20.0	P-4129-CS	-
3x2x3	3R-F93-SE	3R-F93N-SE	3R-F93NL-SE	2	2000	7.62	3.81	6.87	4.37	0.87	.497	0.998	2.060	10.25	6.20	32.0	P-4129-CS	180
3x3x3	3F-F63-SE	3F-F63N-SE	3F-F63NL-SE	3	1500	8.37	4.18	8.00	5.75	1.06	.747	1.373	2.375	20.0	7.75	46.0	P-4127-DI	-
3x3x3	3F-F03-SE	3F-F03N-SE	N/A	3	3000	8.37	4.18	8.56	5.75	1.08	.747	1.375	2.470	20.0	7.75	56.0	P-4127-DI	-
4x3x4	4R-F63-SE	4R-F63N-SE	4R-F63NL-SE	3	1500	8.87	4.43	8.00	5.75	1.06	.747	1.375	2.375	20.0	7.75	47.0	P-4127-DI	500

Balon manufactured Actuation Mounting Hardware available. Please see page A-2 for details.