

SPECIFICATIONS

FIGURE 100A

STAINLESS STEEL BALL VALVES



1-PC STANDARD PORT 1000 CWP

FEATURES

- 1000 PSI CWP non-shock
- 150 PSI WSP
- Threaded NPT ends
- Blowout-proof stem
- Investment cast body
- Stainless steel handle
- Locking lever
- RTFE seats
- Vented ball
- Manufactured silicone-free
- Replacement locking handle kits available (1/4"–2")



PRODUCT SPECIFICATIONS

Standards

- Design: MSS SP-110
- End connections: ASME B1.20.1
- Seat/Shell test: MSS SP-110
- Corrosion resistance: NACE MRO103 and MRO175

FIGURE NUMBER MATRIX

FNW 100A	
SIZE CODE (IN.)	
1/4 = B	1 = G
3/8 = C	1-1/4 = H
1/2 = D	1-1/2 = J
3/4 = F	2 = K

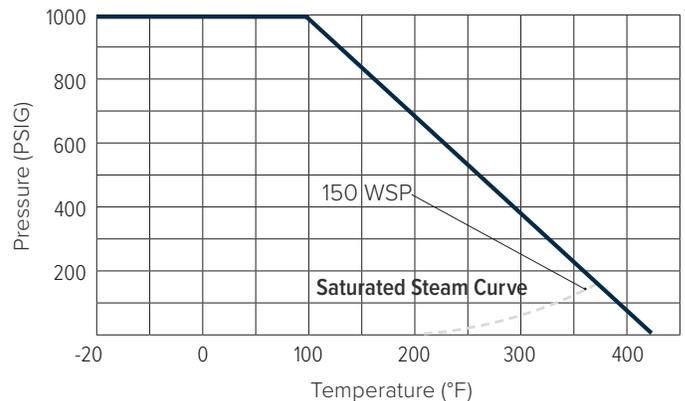
ACCESSORIES/OPTIONS



Replacement Locking Handle Kits (1/4"–2")

KIT CODES

FNW 100A	
KIT TYPE	KIT SIZE (IN.)
Locking Handle = LHK	1/4 = B 3/4 = F
	3/8 = C 1-1/4 = GH
	1/2 = D 1-1/2–2 = JK



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TORQUE (IN-LBS)

Size /ΔP	75 psig	300 psig	1000 psig
	5 Bar	20 Bar	63 Bar
1/4, 3/8	57	57	57
1/2	57	57	57
3/4	69	69	69
1	114	126	126
1-1/4	150	173	218
1-1/2	218	254	299
2	334	368	437
2-1/2	517	564	679
3	828	932	1162
4	1265	1404	1703

CV & WEIGHTS

Size (in.)	CV	Wt (lbs)
1/4	10	0.15
3/8	10	0.25
1/2	12	0.43
3/4	16	0.64
1	18	1.00
1-1/4	36	1.52
1-1/2	48	1.98
2	58	3.27

For actuator sizing, a safety factor of minimum 30% is recommended.

REFERENCE CHART

Size (in.)	Dimensions (in.)						
	ØD	L	H	W	K	S	B
1/4	0.20	1.63	1.34	2.76	M5x0.8	0.12	0.67
3/8	0.28	1.81	1.38	3.15	M6x1.0	0.16	0.83
1/2	0.36	2.28	1.73	3.62	M8x1.25	0.20	0.98
3/4	0.49	2.40	1.81	3.62	M8x1.25	0.20	1.26
1	0.59	2.89	2.01	4.53	M10x1.5	0.24	1.50
1-1/4	0.79	3.07	2.28	4.53	M10x1.5	0.24	1.89
1-1/2	0.98	3.35	2.60	5.00	M12x1.75	0.31	2.09
2	1.26	4.02	2.83	5.00	M12x1.75	0.31	2.60

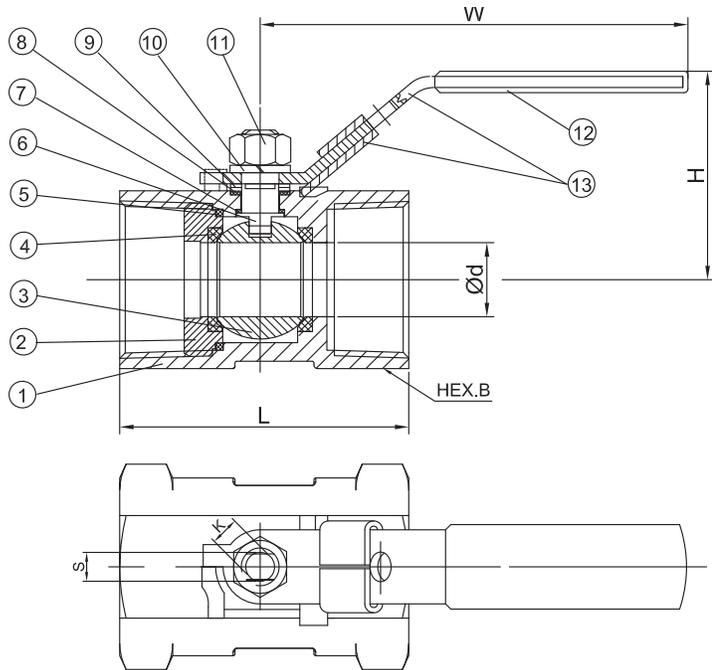
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PARTS DIAGRAM



PART MATERIALS & QUANTITY

Ref #	Description	Material	Qty
1	Body	ASTM A351 Gr. CF8M Stainless	1
2	End Cap	ASTM A351 Gr. CF8M Stainless	1
3	Ball	316SS Stainless	1
4	Seat	RTFE	2
5	Body Gasket*	PTFE	1
6	Stem	316SS Stainless	1
7	Thrust Washer	PTFE	1
8	Stem Packing	PTFE	1
9	Gland	304SS Stainless	2
10	Stem Washer	304SS Stainless	1
11	Stem Nut	ASTM A194-8 Stainless	1
12	Handle Sleeve	Vinyl Plastic	1
13	Locking Handle	304SS Stainless	1

*1-1/4"-2" only, gasket is integral to seat-1 on smaller sizes.