3 PC FULL PORT 1000 CWP w/ ISO MOUNTING PAD

Features:

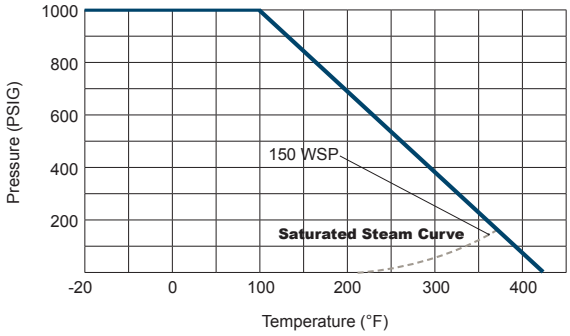
- 1000 PSI CWP Non-Shock
- 150 PSI WSP
- Full Port
- Blow-out Proof Stem
- Live-Loaded Packing
- Anti-static Design
- Investment Cast Body
- RTFE Seats
- Threaded NPT Ends
- 4" With Handle Standard (Lock-out Style)
- Direct Mounting Pad
- Vacuum rated to 26.967"Hg (75 Torr)*
- Vented Ball
- Manufactured Silicone Free

Standards:

- Design: ASME B16.34, MSS SP-110
- End Connections: ASME B1.20.1
- Mounting Pad: ISO 5211
- Seat/Shell Test: MSS SP-110

* Vacuum measurements are often made in inches of mercury below atmospheric pressure. The values calculated here assume standard atmospheric pressure of 29.92 inches of mercury.

Fig. 311AM



Cv, Torque & Weight

Size	Cv	Torque (in-lbs)	Wt (lbs)
1/4	15	60	1.01
3/8	15	60	1.03
1/2	18	66	1.05
3/4	36	80	1.73
1	48	146	2.33
1-1/4	58	242	4.30
1-1/2	120	344	5.21
2	190	503	9.09
2-1/2	450	631	17.31
3	600	1337	24.36
4	1100	1959	51.00

Figure Number Matrix

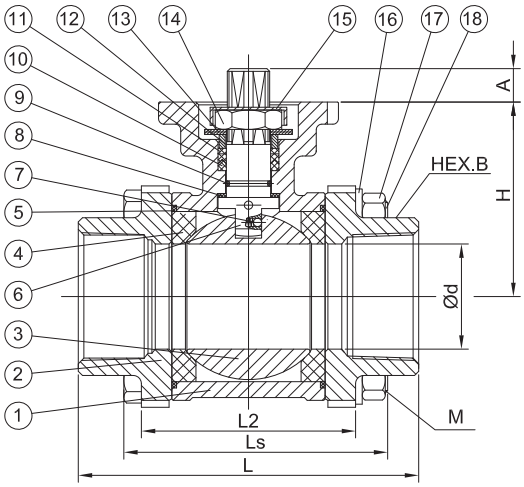
FNW 311AM Size

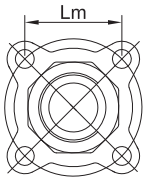
SIZE CODE

1/4 = B	1 = G	2-1/2 = L
3/8 = C	1-1/4 = H	3 = M
1/2 = D	1-1/2 = J	4 = P
3/4 = F	2 = K	

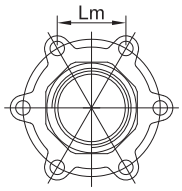
Figure 311AM
CARBON STEEL BALL VALVES

3 PC FULL PORT 1000 CWP

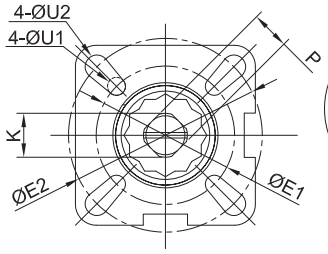


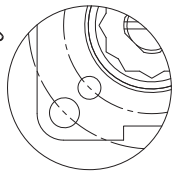


Bod Bolts
Sizes 1/4"~2 1/2"

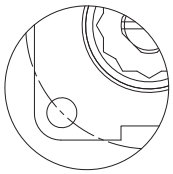


Body Bolts
Sizes 3" & 4"

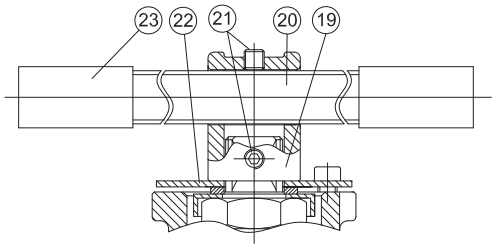




ISO Pad
Sizes 1-1/2"~3"



ISO Pad
Size 4"



Handle Assembly
Size 4"

Standard Materials

Ref. No.	Description		Material	Qty
1	Body		ASTM A216 Gr. WCB Carbon Steel	1
2	End Cap		ASTM A216 Gr. WCB Carbon Steel	2
3	Ball		316SS Stainless	1
4	Seat		RTFE	2
5	Body Gasket		PTFE	2
6	Stem		316SS Stainless	1
7	Anti-Static Device		316SS Stainless	2
8	Thrust Washer		PTFE	1
9	O-Ring		FKM	1
10	V-Ring Packing		PTFE	1 Set
11	Bushing		50% Stainless + 50% PTFE	1
12	Gland		316SS Stainless	1
13	Belleville Washer		301SS Stainless	2
14	Stem Nut		ASTM A194-8 Stainless	1
15	Stop-Lock-Cap		304SS Stainless	1
16	Bolt Washer	1/4"~2"	304SS Stainless	4
		2-1/2"		8
		3"~4"		12
17	Bolt Nut	1/4"~2"	ASTM A194-8 Stainless	4
		2-1/2"		8
		3"~4"		12
18	Body Bolt	1/4"~3"	ASTM A193-B8 Stainless	4
		4"		6
19	Handle Adapter 4"		ASTM A351 Gr. CF8 Stainless	1
20	Pipe Handle 4"		ASTM A53 Steel + Zinc Plating	1
21	Set Screw 4"		ASTM A193-B8 Stainless	1
22	Triangle Stopper 4"		420SS Stainless	1
23	Handle Sleeve 4"		Vinyl Plastic	1

Dimensions (inches)

SIZE	Ød	L	Lm	H	P	A	ØE1	ØE2	U1	U2	K (UNF)	Ls	L2	M (UNC)	B
1/4	0.42	2.95	1.30	1.65	0.35	0.35	1.42	1.65	0.24	0.24	7/16-20	2.23	1.71	1/4-20	1.10
3/8	0.50	2.95	1.30	1.65	0.35	0.35	1.42	1.65	0.24	0.24	7/16-20	2.23	1.71	1/4-20	1.10
1/2	0.59	2.95	1.30	1.65	0.35	0.35	1.42	1.65	0.24	0.24	7/16-20	2.23	1.71	1/4-20	1.10
3/4	0.79	3.15	1.52	1.91	0.35	0.35	1.42	1.97	0.24	0.28	7/16-20	2.44	1.82	5/16-18	1.36
1	0.98	3.54	1.76	2.30	0.43	0.43	1.65	1.97	0.24	0.28	9/16-18	2.79	2.10	5/16-18	1.65
1-1/4	1.26	4.33	2.13	2.48	0.43	0.43	1.65	2.76	0.24	0.35	9/16-18	3.37	2.68	3/8-16	2.05
1-1/2	1.50	4.72	2.42	2.81	0.55	0.55	1.97	2.76	0.28	0.35	3/4-16	3.81	3.05	3/8-16	2.30
2	1.97	5.51	2.95	3.08	0.55	0.55	1.97	2.76	0.28	0.35	3/4-16	4.36	3.59	3/8-16	2.81
2-1/2	2.50	7.28	3.62	3.94	0.67	0.67	2.76	4.02	0.35	0.43	7/8-14	5.75	4.36	9/16-12	3.41
3	2.99	8.07	2.93	4.27	0.67	0.67	2.76	4.02	0.35	0.43	7/8-14	6.34	4.93	9/16-12	3.98
4	3.95	9.45	3.76	5.51	0.87	0.87		4.02		0.43	1-1/8-12	7.87	6.26	5/8-11	5.20

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