

Figure 220AM STAINLESS STEEL BALL VALVES



2 PC FULL PORT 2000 CWP w/ ISO MOUNTING PAD

Features

- 2000 PSI CWP* non-shock
- 150 PSI WSP
- Full port
- Blowout-proof stem
- Live loaded packing
- Anti-static design
- Investment cast body
- TFM (super TFE) seats
- Threaded NPT ends
- Direct mounting pad
- Vacuum rated to 26.967"Hg (75 Torr)**
- Vented ball
- Manufactured silicone free
- Optional locking handle kits (1/4"~3")

Standards

- Design: ASME B16.34, MSS SP-110
- NACE MRO103 AND MRO175 approved
- End connections: ASME B1.20.1
- Seat/shell test: MSS SP-110
- Mounting pad: ISO 5211

*1/4" to 1" - 2000 PSI CWP
1-1/4" to 3" - 1500 PSI CWP

** 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



Accessories



Locking Handle Kits (1/4"~3")

Size	Torque (in-lbs)						
	75 psig	150 psig	300 psig	700 psig	1000 psig	1500 psig	2000 psig
1/4"	62	62	62	62	62	62	62
3/8"	62	62	62	62	62	62	62
1/2"	62	62	62	62	62	62	71
3/4"	71	71	71	71	71	71	80
1"	115	115	133	133	133	133	142
1-1/4"	150	150	177	195	221	230	257
1-1/2"	221	221	257	274	301	328	363
2"	292	292	372	407	434	487	522
2-1/2"	460	522	566	620	681	752	-
3"	752	832	929	1,035	1,159	1,292	-

* Figures do not include safety factory
30% factor is recommended when sizing actuator

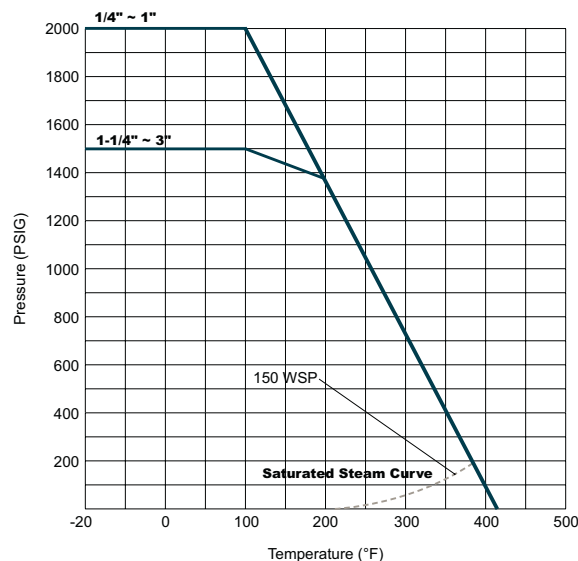


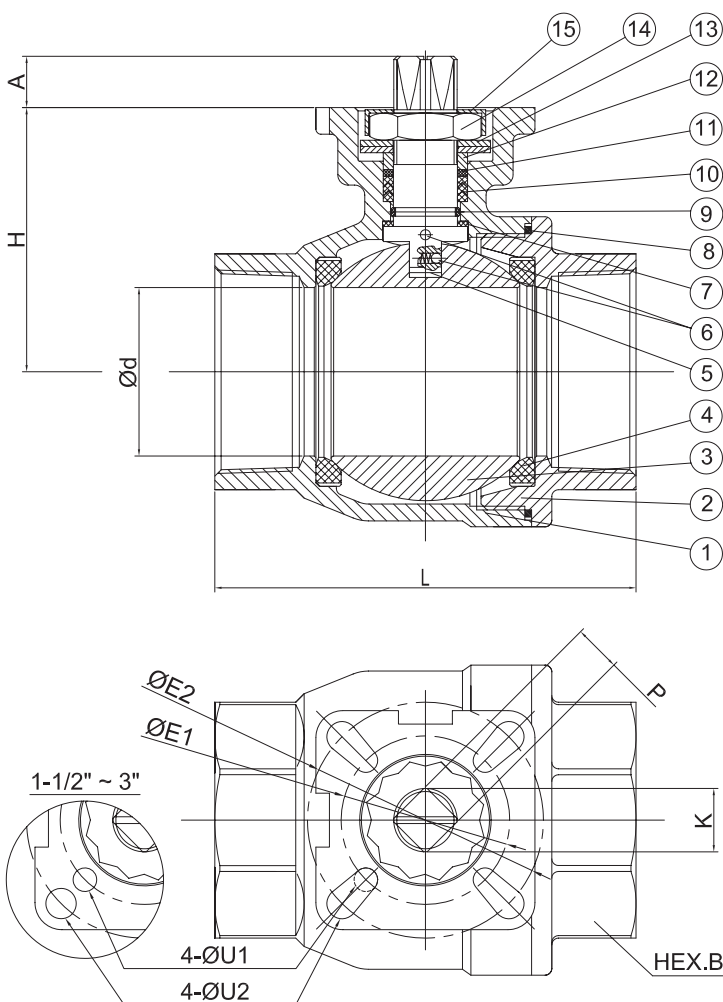
Figure Number Matrix

FNW 220AM <u>Size</u>	
SIZE CODE	
1/4" = B	1-1/4" = H
3/8" = C	1-1/2" = J
1/2" = D	2" = K
3/4" = F	2-1/2" = L
1" = G	3" = M

Kit Codes (Order Separately)

FNW 220AM <u>Kit</u> <u>Size</u>	
KIT TYPE SIZE CODE	
Locking Handle = LHK	1/4"~3/4" = BF
	1"~1-1/4" = GH
	1-1/2"~2" = JK
	2-1/2" = L
	3" = M

2 PC FULL PORT 2000 CWP w/ ISO MOUNTING PAD



Standard Materials

Ref. No.	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	TFM1600+20%GF	2
5	Stem	316SS Stainless	1
6	Anti-Static Device	316SS Stainless	2
7	Thrust Washer	TFM4215	1
8	Body Gasket	PTFE	1
9	O-Ring	FKM	1
10	V-Ring Packing	PTFE	1 Set
11	Bushing	50% SS + 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

Dimensions (inches)

SIZE	Ød	L	H	ØE1	ØE2	ØU1	ØU2	P	A	ISO 5211	K (UNF)	B
1/4"	0.42	2.44	1.70	1.42	1.65	0.24	0.24	0.35	0.35	F03/F04	7/16-20	1.06
3/8"	0.50	2.44	1.70	1.42	1.65	0.24	0.24	0.35	0.35	F03/F04	7/16-20	1.06
1/2"	0.59	2.95	1.70	1.42	1.65	0.24	0.24	0.35	0.35	F03/F04	7/16-20	1.06
3/4"	0.79	3.15	2.00	1.42	1.97	0.24	0.28	0.35	0.35	F03/F05	7/16-20	1.26
1"	0.98	3.54	2.28	1.65	1.97	0.24	0.28	0.43	0.43	F04/F05	9/16-18	1.61
1-1/4"	1.26	4.33	2.48	1.65	1.97	0.24	0.28	0.43	0.43	F04/F05	9/16-18	1.97
1-1/2"	1.50	4.72	2.91	1.97	2.76	0.28	0.35	0.55	0.55	F05/F07	3/4-16	2.20
2"	1.97	5.51	3.27	1.97	2.76	0.28	0.35	0.55	0.55	F05/F07	3/4-16	2.76
2-1/2"	2.50	7.28	4.03	2.76	4.02	0.33	0.41	0.67	0.67	F07/F10	7/8-14	3.54
3"	2.99	8.07	4.36	2.76	4.02	0.33	0.41	0.67	0.67	F07/F10	7/8-14	4.02

Cv & Weight

Size	Cv	Wt (lbs)
1/4"	15	1.19
3/8"	15	1.21
1/2"	18	1.34
3/4"	36	1.81
1"	48	3.06
1-1/4"	93	3.79
1-1/2"	165	6.11
2"	207	10.03
2-1/2"	450	16.20
3"	780	29.98