

SPECIFICATIONS

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



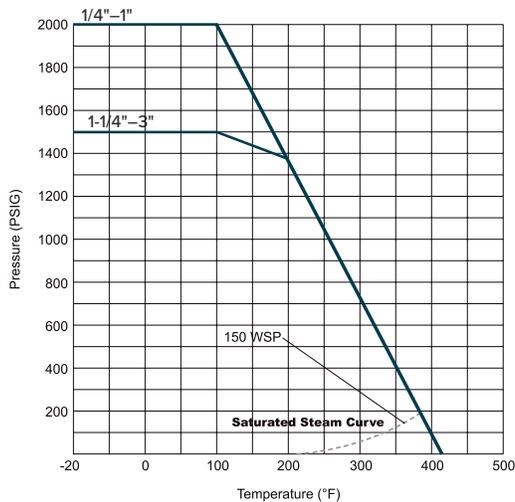
PRODUCT SPECIFICATIONS

Standards

- Design: MSS SP-110
- End connections: ASME B1.20.1
- Seat/Shell test: MSS SP-110
- Mounting pad: ISO 5211
- Corrosion resistance: NACE MR0103 and MR0175
- Fugitive emissions: ISO 15848-1 and TA-Luft

* 1/4"-1"-2000 PSI CWP
1-1/4"-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 mercury.



ACCESSORIES/OPTIONS



Replacement Locking Handle Kits (1/4"-3")

FIGURE NUMBER MATRIX

FNW 220AM	
SIZE CODE (IN.)	
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

REPAIR KITS

FNW 220AMRK	
SIZE CODE (IN.)	
1/4-3/8 = BC	1-1/2 = J
1/2 = D	2 = K
3/4 = F	2-1/2 = L
1 = G	3 = M
1-1/4 = H	

KIT CODES

FNW 220AM		
KIT TYPE	KIT SIZE (IN.)	
Locking Handle = LHK	1/4-3/4 = BF	2-1/2 = L
	1-1-1/4 = GH	3 = M
	1-1/2-2 = JK	

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FIGURE 220AM

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TORQUE (IN-LBS)

Size /ΔP (in.)	150 psig	300 psig	700 psig	1500 psig	2000 psig
	10 Bar	20 Bar	50 Bar	63 Bar	140 Bar
1/4, 3/8	62	62	62	62	62
1/2	62	62	62	62	71
3/4	71	71	71	71	80
1	115	133	133	133	142
1-1/4	150	177	195	230	-
1-1/2	221	257	274	328	-
2	292	372	407	487	-
2-1/2	522	566	620	752	-
3	832	929	1035	1292	-

Note: 30% safety factor is recommended when sizing actuator.

REFERENCE CHART

Size (in.)	Dimensions (in.)											
	ØD	L	H	ØE1	ØE2	ØU1	ØU1	P	A	ISO (UNF)	K	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

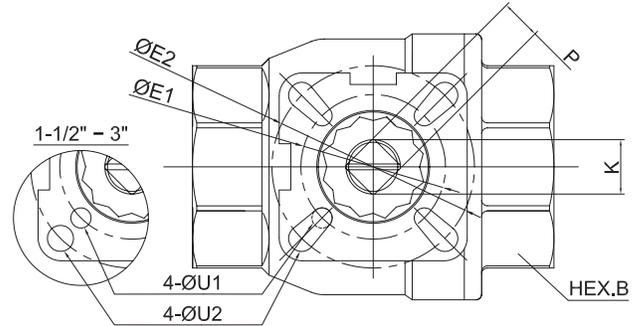
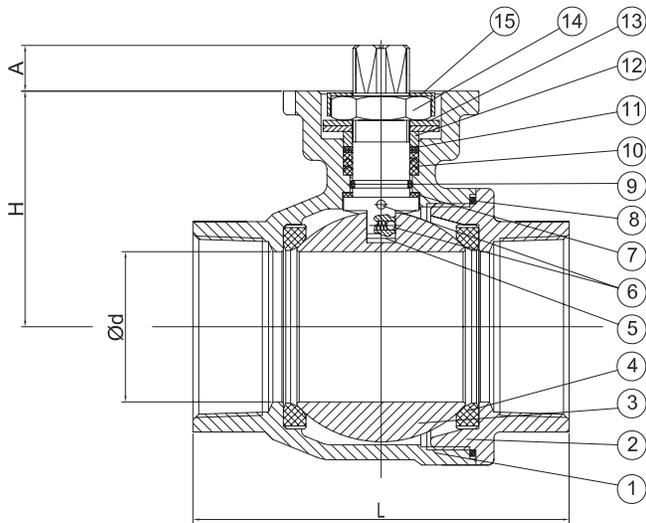
PARTS BREAKDOWN

FIGURE 220AM

STAINLESS STEEL BALL VALVES

2-PC FULL PORT 2000 CWP W/ISO MOUNTING PAD

PARTS DIAGRAM



CV & WEIGHTS

Size (.in)	CV	Wt (lbs)
1/4	16	1.19
3/8	16	1.21
1/2	30	1.34
3/4	55	1.81
1	96	3.06
1-1/4	170	3.79
1-1/2	270	6.11
2	470	10.03
2-1/2	780	16.20
3	1150	29.98

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	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