

DIRECT MOUNT 3-PC METAL SEAT BALL VALVE

Model : Series MS 35 (Formerly FSB-35_Metal)

- **Body Material**

ASTM CF8M, DIN 1.4408
ASTM A216-WCB, DIN 1.0619

- **Size Range**

1/2" - 4" (DN15-DN100)

- **Pressure Rating**

2000 PSI, Class 600, DIN PN130

- **End Connection**

Female pipe Threaded to NPT, Rp, Rc, G..
Socketweld

Temperature Range

-4°F to 840°F (-20°C to 450°C)

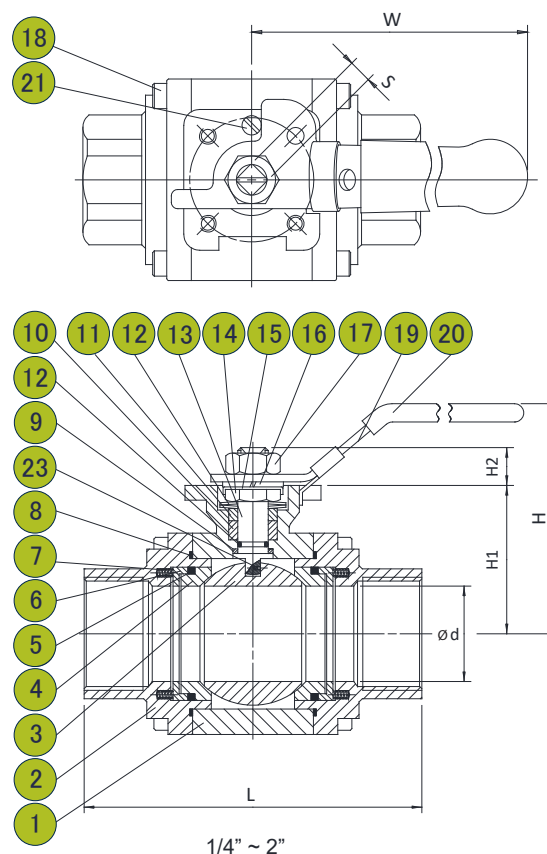
- **Features:**

- Specially surface hardening treatment for ball and seat provides longer working life, particularly with abrasive fluid such as slurries and pulp stock.
- Valve ball remains in close and tight contact with spring loaded ball seat for maximum sealing effects.
- Ball and seat underwent machine lapping for tight contact between the two circular surfaces.
- Conforming to ANSI / FCI 70-2 Class V leakage class; Class VI optional.
- Integral twin pattern ISO 5211 direct-mounting pad.



Materials List:

NO.	PART NAME	MATERIAL
1	BODY	CF8M / WCB
2	CAP	CF8M / WCB
3	BALL	ASTM A194 316 (Hardened / Coating)
4	BALL SEAT	ASTM A194 316 (Hardened / Coating)
5	BALL SEAT GASKET	GRAPHITE
6	BALL SEAT PACKING	ASTM A194 316
7	BALL SEAT SPRING	ASTM A164 304(Hardened) ASTM A194 316(Hardened)
8	BODY SEAL	GRAPHITE
9	THRUST WASHER	GRAPHITE
10	STEM PACKING	GRAPHITE
11	GLAND	ASTM A164 304
12	BELLEVILLE WASHER	ASTM 301 ASTM B637 Inconel718
13	STEM	ASTM A276 316 ASTM A564 17-4PH
14	STEM NUT	ASTM A164 304
15	LOCK SADDLE	ASTM A164 304
16	HANDLE WASHER	ASTM A164 304
17	HANDLE NUT	ASTM A164 304
18	BODY BOLT	ASTM A193 B8 / B7
19	HANDLE	SS304 / ZINC PLATE STEEL
20	HANDLE SLEEVE	VINYL
21	STOP PIN	SS304 / CARBON STEEL
22	O-RING	VITON
23	ANTI-STATIC DEVICE	ASTM A194 316

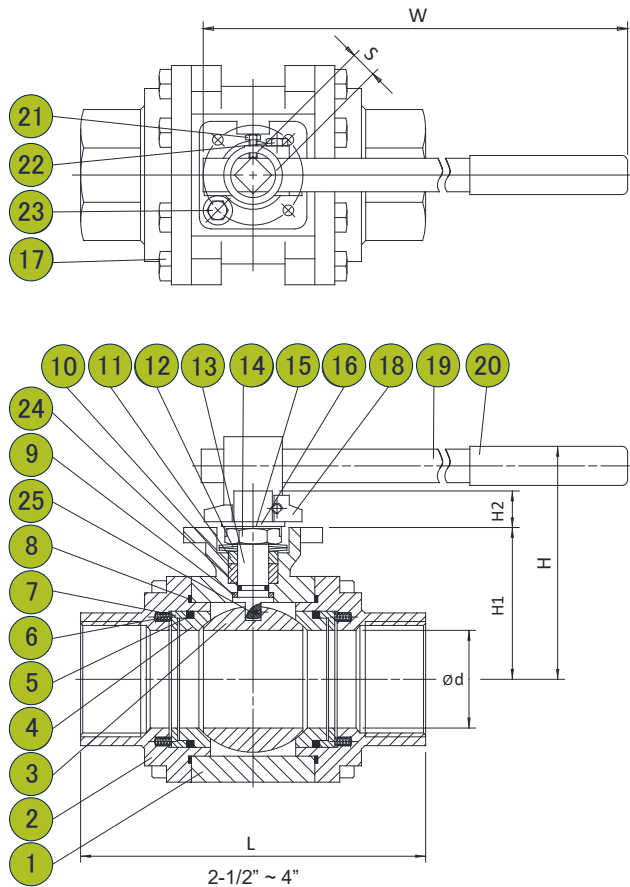


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16	HANDLE WASHER	ASTM A164 304
17	BODY BOLT	ASTM A193 B8 / B7
18	HANDLE ADAPTER	CF8
19	HANDLE STEEL PIPE	ASTM A164 304
20	HANDLE SLEEVE	VINYL
21	HANDLE BOLT	ASTM A164 304
22	HANDLE BOLT	ASTM A164 304
23	STOP PIN	SS304 / CARBON STEEL
24	O-RING	VITON
25	ANTI-STATIC DEVICE	ASTM A194 316



Dimensions (mm)

SIZE		d	L	H	W	H1	H2	S	D2	C	ISO 5211	Torque N.m.
INCH	DN											
1/4"	8	11.0	125.0	70	140	37.5	8	9	14.0	10	F04	5
3/8"	10	11.0	125.0	70	140	37.5	8	9	17.6	10	F04	5
1/2"	15	14.0	125.0	70	140	37.5	8	9	21.8	13	F04	5
3/4"	20	20.5	135.0	90	180	50.0	11	11	27.2	13	F04 / F05	5
1"	25	25.0	150.0	100	180	60.0	11	11	33.9	15	F04 / F05	6
1-1/4"	32	31.5	170.0	112	215	72.0	16	14	42.7	15	F07	8
1-1/2"	40	37.0	165.0	115	215	76.0	16	14	48.8	16	F07	9
2"	50	50.0	190.0	133	215	93.0	16	14	61.2	16	F07	10
2-1/2"	65	65.0	220.0	173	460	116.5	24	22	73.9	17	F07 / F10	15
3"	80	80.0	250.0	184	460	127.0	24	22	89.8	17	F07 / F10	25
4"	100	100.0	280.0	242	600	159.0	29	27	115.2	20	F10	30

Note: Torque measured at ambient temperature with no loading; safety factor is not included.