

Carbon Steel Ball Valves

Three-Piece Body • Threaded, Butt or Socket Weld Ends • Blowout-Proof Stem • Conventional Port • Enclosed Bolt Design • PTFE Seats • SS Trim • Cast ISO Mounting Pad • Vented Ball • Fire Safe

2000 PSI/138 Bar Non-Shock Cold Working Pressure*

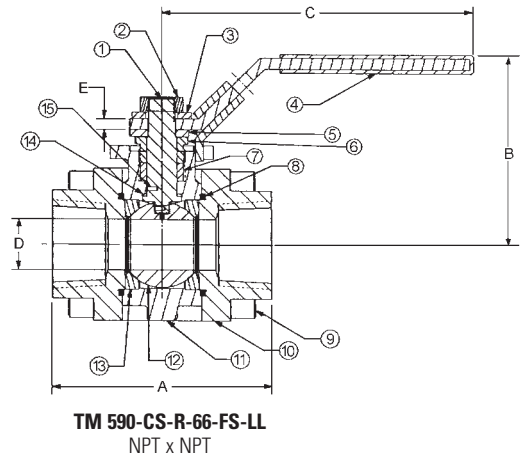
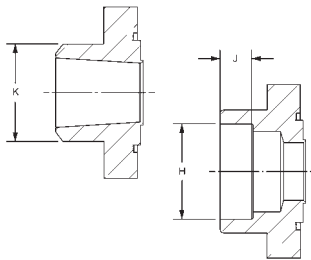
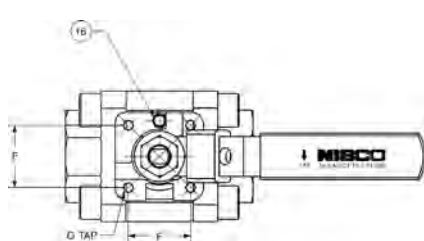
CONFORMS TO API-607 FOURTH EDITION FIRE SAFE • MSS SP-110 • MSS SP-72 (BUTT WELD) • API 608 ANTI-STATIC FEATURE



MATERIAL LIST

PART	SPECIFICATION
1. Stem	Stainless Steel ASTM A 276 Type 316
2. Handle Nut	Stainless Steel ASTM A 276 Type 304
3. Lock Washer	Stainless Steel ASTM A 240 Type 304
4. Locking Handle	Stainless Steel ASTM A 240 Type 304
5. Stop Plate	Stainless Steel ASTM A 240 Type 304
6. Pack Gland	Stainless Steel ASTM A 276 Type 316
7. Stem Packing	Graphite
8. Body End Seal	Graphite
9. Bolt	Carbon Steel ASTM A 193 Grade B7
10. Body End	Carbon Steel ASTM A 216 Grade WCB Phosphate Coated
11. Body	Carbon Steel ASTM A 216 Grade WCB Phosphate Coated
12. Ball (Vented)	Stainless Steel ASTM A 276 Type 316 or ASTM A 351 Type CF8M
13. Seat	Reinforced PTFE 15% Glass
14. Thrust Washer	Reinforced PTFE 15% Glass
15. Static Grounding Devices	Stainless Steel ASTM A 276 Type 304
16. Stop Pin	Stainless Steel ASTM A 276 Type 304

Note: valves are static grounded by two ball detents that insure electro-continuity between the stem body and ball. The valve has electro-continuity across the discharge path with a resistance of not more than 10 ohms.



TM-590-CS-R-66-FS-LL

Threaded
Stainless Steel Trim
ISO Mount Pad

KM-590-CS-R-66-FS-LL

Socket Weld
Stainless Steel Trim
ISO Mount Pad

BM-590-CS-R-66-FS-LL

Butt Weld
Stainless Steel Trim
ISO Mount Pad

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions												H Socket Weld	J Socket Weld	K Butt Weld	Threaded Weight	Socket Weld Weight	Butt Weld Weight									
	A	B	C	D	E	F	G	Tap	Flange	Type	In.	mm.							In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.
1/2	15	2.72	69	2.47	63	4.07	103	.43	11	.12	3	1.00	25	M5	F03	.86	22	.38	10	.84	21	1.80	.82	1.70	.78	1.60	.73
3/4	20	2.94	75	2.70	69	4.07	103	.57	14	.12	3	1.00	25	M5	F03	1.08	27	.50	13	1.05	27	2.40	1.09	2.30	1.05	2.20	1.00
1	25	3.50	89	3.19	81	4.92	125	.81	21	.18	5	1.17	30	M5	F04	1.34	34	.50	13	1.32	34	3.80	1.73	3.60	1.64	3.50	1.59
1 1/4	32	3.90	99	3.64	92	5.91	150	.98	25	.20	5	1.17	30	M5	F04	1.69	43	.50	13	1.66	42	5.90	2.68	5.70	2.59	5.60	2.55
1 1/2	40	4.42	112	3.88	99	7.68	195	1.25	32	.23	8	1.39	35	M6	F05	1.93	49	.50	13	1.90	48	7.60	3.45	7.40	3.36	7.30	1.61
2	50	5.04	128	4.09	104	7.68	195	1.50	38	.23	8	1.39	35	M6	F05	2.42	61	.62	16	2.38	60	10.50	4.77	10.30	4.68	10.20	4.64

◆For detailed operating pressure, refer to pressure temperature chart on pages 71 and 72.

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