



DESCRIPTION

- 3 - Piece Ball Valve
- Direct Mount
- Full Port
- 1/4" - 4"
- 800 / 1000 PSI (WOG)

DM4500 Series

CERTIFICATIONS

- Valve Body: ASME B16.34
- Material Certification: EN10204-3.1 MTR
- Quality Assurance: ISO 9001:2008
- Steel Casting: MSS SP-55
- Valve Marking: MSS SP-25
- Valve Test: API 598
- Direct Mount: ISO 5211
- Stem Connection: DIN 3337
- Class / Pressure Rating: 800 / 1000 PSI
- Anti-Static: API 608
- Sulfide Stress Cracking: NACE MR-01-75
- End Connections: ASME B1.20.1, B16.11, B16.25

FULL PORT VALVE

FLOW COEFFICIENT

SIZE	CV Factor
1/4"	8.5
3/8"	8.5
1/2"	21
3/4"	50
1"	90
1-1/4"	110
1-1/2"	240
2"	400
2-1/2"	700
3"	980
4"	1700

FEATURES AND BENEFITS

- Body and End Caps Quality Investment Casting
- With ISO 5211 Mounting Pad
- With Locking Function
- Adjustable Stem Packing
- Available in Stainless Steel or Carbon Steel
- Blow-Out Proof Stem Design
- 100% Air Tested Under Water at 100 psi
- Working Pressure: Class 150 / 800 / 1000 psi
- End Type: Threaded, Socket Weld, Butt Weld or Flange End ANSI 150

OPTIONS

- Spring Return (Dead Man) Handle
- Oval Handle
- Automation Applicable
- Handle with Limit Switch Box
- Extended Stem for Isolation
- V-Ball for Control Valve in 15, 30, 45, 60, 90, Slot, or Custom
- PTFE Cavity Filler
- Hastalloy C, Super Duplex, Alloy 20, and Monel
- Extended Stem for Isolation

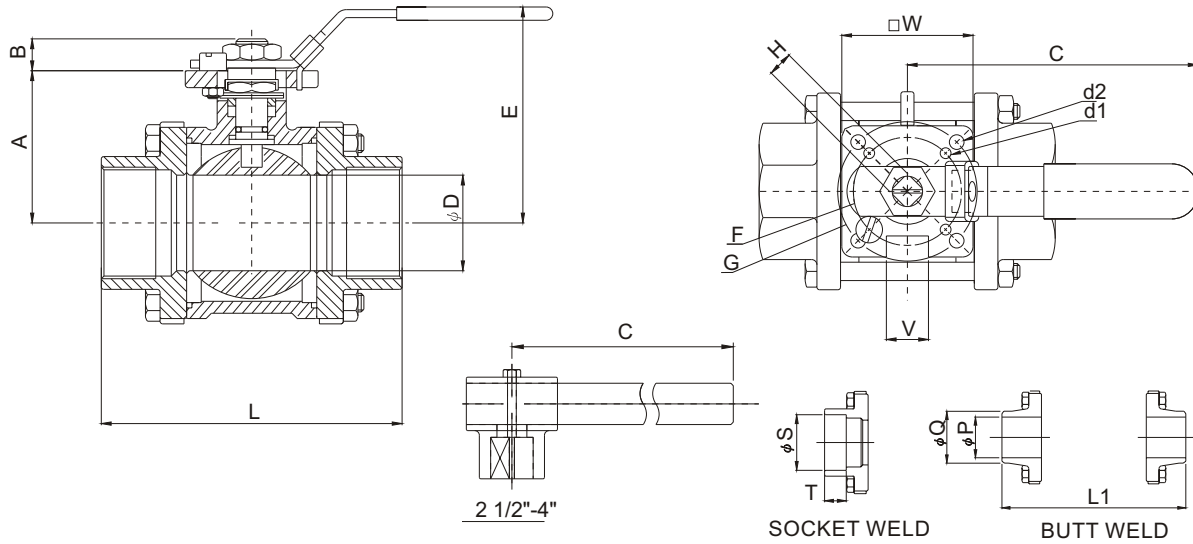
BREAK-TORQUE VALUE (in-lb at 0 psi)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GREASE	31	31	44	49	62	97	150	204	310	407	637
NON-GREASE	44	44	53	62	84	142	239	266	602	752	929

Note 1: The greases J Flow Controls uses include lubricants and anti-seize grease that are both SILICONE-FREE.

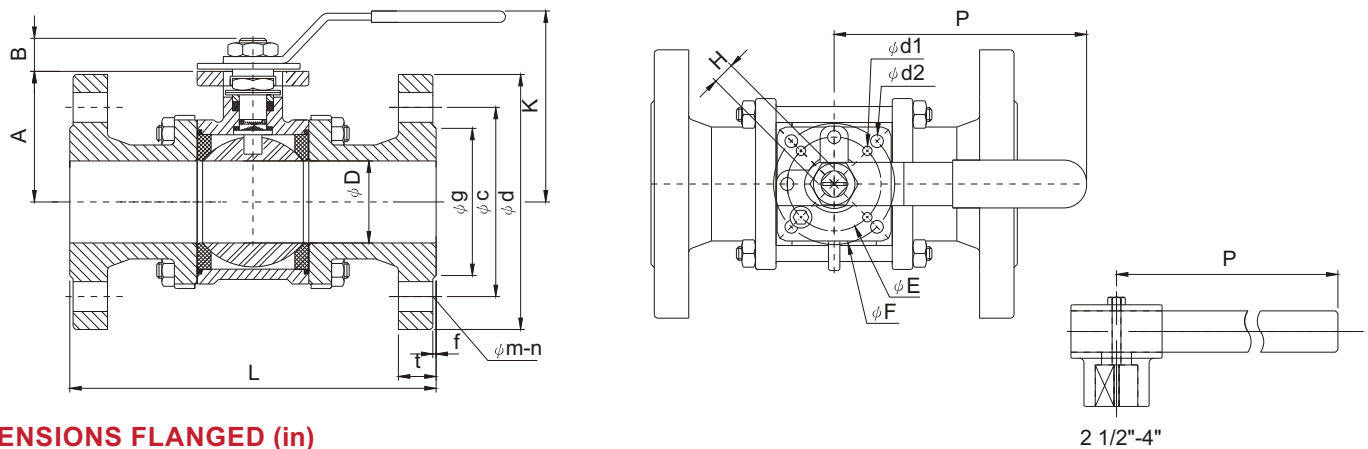
Note 2: J Flow Controls strongly suggests increasing the torque at least 30%-40% for safety factor when mounting an actuator.

DM4500 Series Valves



DIMENSIONS THREADED (in)

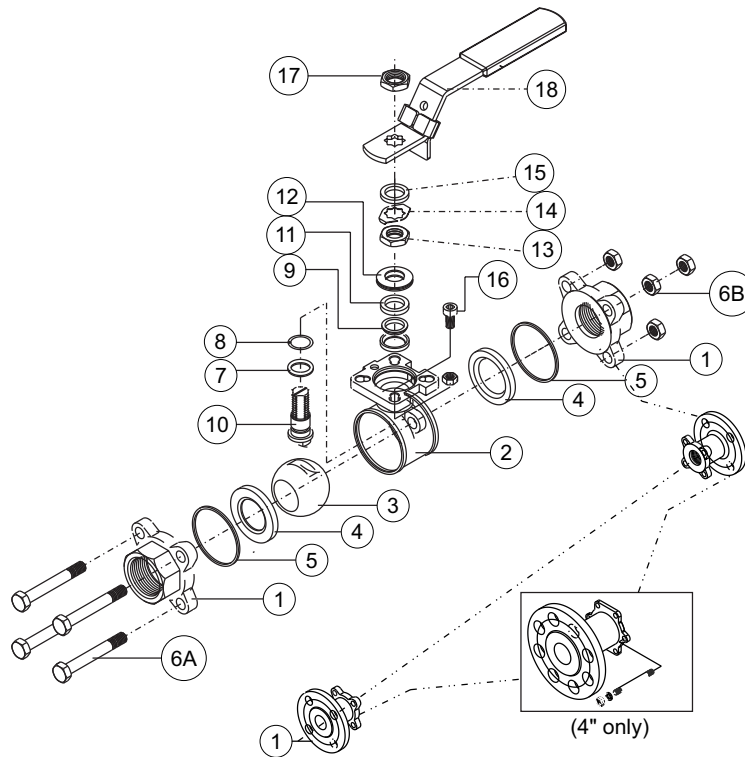
SIZE	A	B	C	D	d1	d2	E	F	G	H	L	S	T	P	Q	L1	V	W
1/4"	1.46	0.43	5.12	0.43	0.24	0.24	2.28	1.42	1.65	0.35	2.38	0.56	0.44	0.39	0.67	2.38	0.75	1.73
3/8"	1.46	0.43	5.12	0.49	0.24	0.24	2.28	1.42	1.65	0.35	2.38	0.69	0.44	0.52	0.75	2.38	0.75	1.73
1/2"	1.46	0.43	5.12	0.59	0.24	0.24	2.28	1.42	1.65	0.35	2.5	0.86	0.50	0.61	0.85	2.50	0.75	1.73
3/4"	1.57	0.43	5.12	0.79	0.24	0.24	2.52	1.42	1.65	0.35	2.97	1.07	0.56	0.81	1.08	2.97	0.75	1.73
1"	1.89	0.55	6.10	0.98	0.24	0.28	3.03	1.65	1.97	0.43	3.39	1.33	0.63	1.05	1.36	3.39	0.94	2.05
1-1/4"	2.11	0.55	6.10	1.26	0.24	0.28	3.26	1.65	1.97	0.43	3.78	1.67	0.69	1.38	1.69	4.09	0.94	2.05
1-1/2"	2.50	0.71	8.07	1.50	0.28	0.35	3.62	1.97	2.76	0.55	4.37	1.92	0.75	1.59	1.93	4.61	1.10	2.09
2"	2.83	0.71	8.07	1.97	0.28	0.35	3.94	1.97	2.76	0.55	5.08	2.41	0.87	2.06	2.40	5.43	1.10	2.09
2-1/2"	3.62	0.87	11.42	2.56	0.35	0.44	5.51	2.76	4.02	0.67	6.00	2.91	0.87	2.56	3.03	6.69	-	-
3"	4.02	0.87	11.42	3.15	0.35	0.44	5.91	2.76	4.02	0.67	6.63	3.54	1.00	3.15	3.58	7.56	-	-
4"	5.20	1.02	13.20	3.94	0.44	0.53	7.68	4.02	4.92	0.87	8.37	4.54	1.26	3.94	4.53	8.90	-	-



DIMENSIONS FLANGED (in)

SIZE	A	B	D	d1	d2	K	E	F	H	P	L	CLASS 150 FLANGE DIMENSIONS						
												g	c	d	f	t	m	n
1/2"	1.46	0.43	0.59	0.24	0.24	3.86	1.42	1.65	0.35	5.00	5.12	1.77	2.56	3.74	0.08	0.55	0.55	4
3/4"	1.57	0.43	0.79	0.24	0.24	3.98	1.42	1.65	0.35	5.00	5.91	2.28	2.95	4.13	0.08	0.63	0.55	4
1"	1.89	0.55	0.98	0.24	0.28	3.70	1.65	1.97	0.43	6.30	6.30	2.68	3.35	4.53	0.08	0.63	0.55	4
1-1/4"	2.09	0.55	1.26	0.24	0.28	3.90	1.65	1.97	0.43	6.30	7.09	3.07	3.94	5.51	0.08	0.63	0.71	4
1-1/2"	2.48	0.71	1.50	0.28	0.35	4.53	1.97	2.76	0.55	8.07	7.87	3.46	4.33	5.91	0.12	0.63	0.71	4
2"	2.83	0.71	1.97	0.28	0.35	4.88	1.97	2.76	0.55	8.07	9.06	4.02	4.92	6.50	0.12	0.71	0.71	4
2-1/2"	3.62	0.87	2.56	0.35	0.44	5.51	2.76	4.02	0.67	11.81	11.42	4.80	5.71	7.28	0.12	0.71	0.71	4
3"	4.02	0.87	3.07	0.35	0.44	5.91	2.76	4.02	0.67	11.81	12.20	5.43	6.30	7.87	0.12	0.79	0.71	8
4"	5.20	1.02	3.94	0.44	0.53	7.48	4.02	4.92	0.87	11.81	13.78	6.22	7.09	8.66	0.12	0.79	0.71	8

DM4500 Series Valves



MATERIALS LIST

ITEM	PART NAME	MATERIALS
1	END CAP	CF8M / WCB
2	BODY	CF8M / WCB
3	BALL	SS 316
4	SEAT	TFM
5	GASKET	TFM
6A	BOLTS	SS 304
6B	NUTS	SS 304
7	THRUST WASHER	TFM
8	O-RING	VITON
9	STEM PACKING	TFM
10	STEM	SS 316
11	GLAND	SS 304
12	DISK WASHER	SS 301
13	STEM NUT	SS 304
14	NUT STOP	SS 304
15	SPACE WASHER	SS 304
16	PLATER	SS 304
17	STOP PIN	SS 304
18	HANDLE NUT	SS 304
19	HANDLE	SS 304
20	HANDLE COVER	PLASTIC
21	SET BOLT	SS 304
22	LEVER HEAD	CF8
23	LEVER	STEEL PIPE

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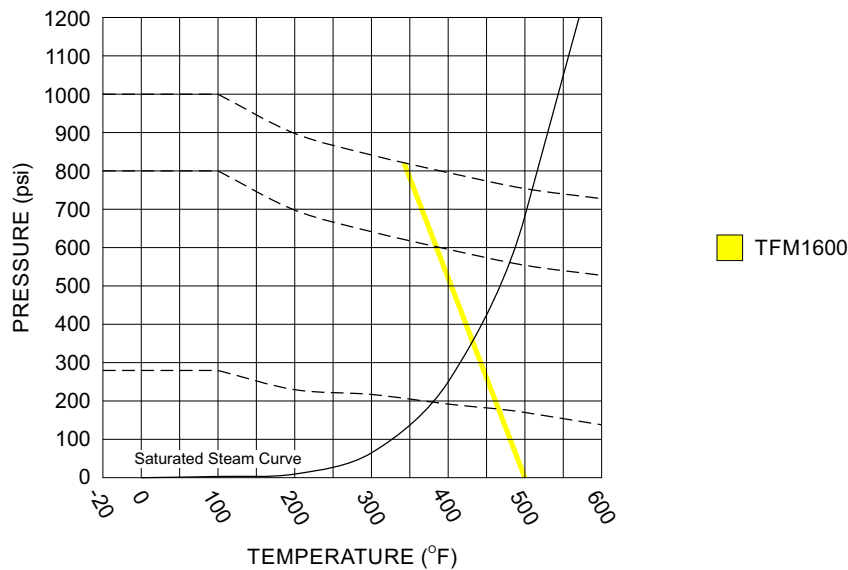
HOW TO ORDER

Example: 100-DM4533FPTMTMFPTNANA

VALVE SIZE	PRODUCT SERIES	BODY MATERIAL	BALL/STEM MATERIAL	PORT	PACKING / BODY SEAL MATERIAL
025 1/4" 150 1-1/2"	DM45	2 WCB 3 CF8M	3 CF8M	FP Full Port	TM TFM1600
038 3/8" 200 2"				15 15° V-Ball	
050 1/2" 250 2-1/2"				30 30° V-Ball	
075 3/4" 300 3"				60 60° V-Ball	
100 1" 400 4"				90 90° V-Ball	
125 1-1/4"					

SEAT MATERIAL	END CONNECTIONS	MATERIAL OPTIONS	DESIGN OPTIONS
CF Cavity Filled (PTFE) TT PTFE TM TFM1600	F15 ANSI 150 RF Flange F30 ANSI 300 RF Flange SCW Socket Weld FPT Female NPT W10 Butt Weld sch 10 W40 Butt Weld sch 40 W80 Butt Weld sch 80 FSW Female NPT X Socket Weld FMT Female Metric THD	NA Standard BG Graphite Body	NA Standard

PRESSURE/TEMPERATURE CHART



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