



DESCRIPTION

- Direct Mount
- 2 - Piece Flanged Ball Valve
- Full Port
- 1/2" - 12"
- ANSI 150 / 300

DM2500/2500 SERIES

CERTIFICATIONS

- Valve Design: ASME B16.34
- Steel Casting: MSS SP-55
- Face to Face: ASME B16.10
- Flange Connection: ASME B16.50
- Pressure Test: API 598 (ISO 5208)
- Material Certification: EN10204-3.1 MTR
- TA-Luft Low Emission
- Valve Marking: MSS SP-25
- Direct Mount: ISO 5211
- Stem Connection: DIN 3337
- Pressure Rating: Class 150 / 300
- Anti-Static: API 608
- Sulfide Stress Cracking: NACE MR-01-75
- Flange Dimension: ASME B16.5
- Flange Finish: MSS SP-6 (3.2 - 6.3 micron)

FULL PORT VALVE FLOW COEFFICIENT

SIZE	CV Factor
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

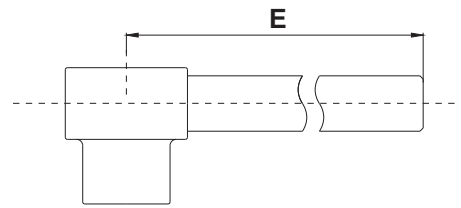
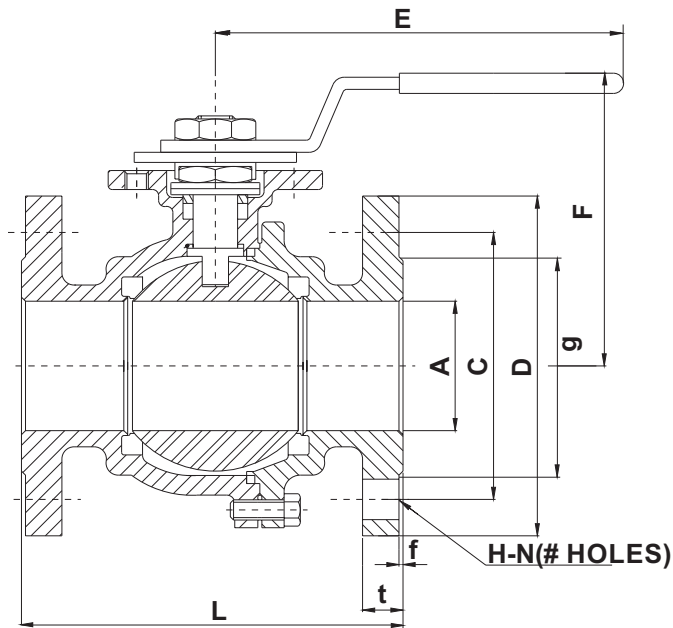
FEATURES AND BENEFITS (1/2" - 4")

- Body and End Caps Quality Investment Casting
- Available in Stainless Steel or Carbon Steel
- ISO 5211 Mounting Pad
- Adjustable Stem Packing
- Blow-Out Proof Stem Design
- 100% Air Tested Under Water at 80-100 psi
- Working Pressure of Class 150 / 300
- Temperature Range -320°F to 800°F

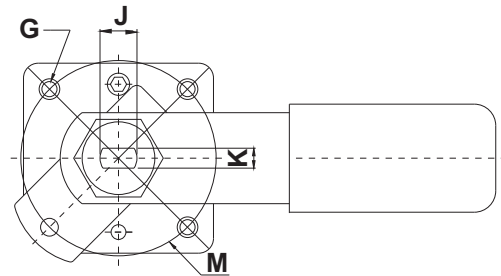
OPTIONS (1/2" - 4")

- FIRE SAFE: API 607 - 5th Edition Certified
- Spring (Dead Man) Handle
- PTFE Cavity Filler
- PTFE / PFA Coating (40-70 um)
- Alloy 20 / Monel / Hastalloy C / Titanium / Super Duplex
- V-Ball for Control Valve in 15°, 30°, 60°, 90°, Slot, and Custom
- Cryogenic Valves
- Fugitive Emissions Bonnet
- Automation Available
- Metal Seated

DM2500/2500 SERIES VALVES



Pipe handle is used for 2-1/2" and up for long term and smooth usage.



DIMENSIONS ANSI 150 1/2" - 4" (in)

SIZE	A	F	E	L	K	M	G	J	CLASS 150 FLANGE DIMENSIONS								
									D	C	H	N	t	g	B	O	f
1/2"	0.59	2.99	5.71	4.25	0.26	1.65	M5	0.39	3.50	2.38	0.63	4	0.44	1.38	0.55	0.42	0.06
3/4"	0.79	3.15	5.71	4.61	0.26	1.65	M5	0.39	3.86	2.76	0.63	4	0.44	1.69	0.56	0.43	0.06
1"	0.98	3.46	7.68	5.00	0.38	1.97	M6	0.55	4.25	3.13	0.63	4	0.44	2.01	0.85	0.66	0.06
1 1/4"	1.26	3.62	7.68	5.51	0.38	1.97	M6	0.55	4.61	3.50	0.63	4	0.50	2.52	0.84	0.65	0.06
1 1/2"	1.50	4.49	9.84	6.50	0.38	2.76	M8	0.71	5.00	3.88	0.63	4	0.56	2.87	0.98	0.71	0.06
2"	1.97	4.84	9.84	7.01	0.38	2.76	M8	0.71	5.98	4.74	0.75	4	0.63	3.62	0.94	0.77	0.06
2 1/2"	2.56	5.59	12.20	7.48	0.47	4.02	M10	0.79	7.01	5.49	0.75	4	0.70	4.13	0.90	0.64	0.06
3"	3.15	5.98	12.20	7.99	0.47	4.02	M10	0.79	7.48	6.00	0.75	4	0.75	5.00	0.86	0.64	0.06
4"	3.94	7.17	12.20	9.02	0.59	4.02	M10	0.94	9.02	7.50	0.75	8	0.94	6.18	1.17	0.96	0.06

DIMENSIONS ANSI 300 1/2" - 4" (in)

SIZE	A	F	E	L	K	M	G	J	CLASS 150 FLANGE DIMENSIONS								
									D	C	H	N	t	g	B	O	f
1/2"	0.59	2.99	5.71	5.50	0.26	1.65	M5	0.39	3.74	2.62	0.63	4	0.57	1.38	0.55	0.42	0.06
3/4"	0.79	3.15	5.71	6.00	0.26	1.65	M5	0.39	4.61	3.25	0.75	4	0.63	1.69	0.56	0.43	0.06
1"	0.98	3.46	7.68	6.50	0.38	1.97	M6	0.55	4.88	3.50	0.75	4	0.69	2.01	0.85	0.66	0.06
1 1/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2"	1.50	4.49	9.84	7.50	0.38	2.76	M8	0.71	6.14	4.51	0.87	4	0.83	2.87	0.98	0.71	0.06
2"	1.97	4.84	9.84	8.50	0.38	2.76	M8	0.71	6.50	5.00	0.79	8	0.89	3.62	0.94	0.77	0.06
2 1/2"	2.56	5.59	12.20	9.50	0.47	4.02	M10	0.79	7.48	5.87	0.87	8	1.00	4.13	0.90	0.64	0.06
3"	3.15	5.98	12.20	11.13	0.47	4.02	M10	0.79	8.27	6.61	0.87	8	1.14	5.00	0.86	0.64	0.06
4"	3.94	7.17	12.20	12.00	0.59	4.02	M10	0.94	10.00	7.87	0.87	8	1.26	6.18	1.17	0.96	0.06

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

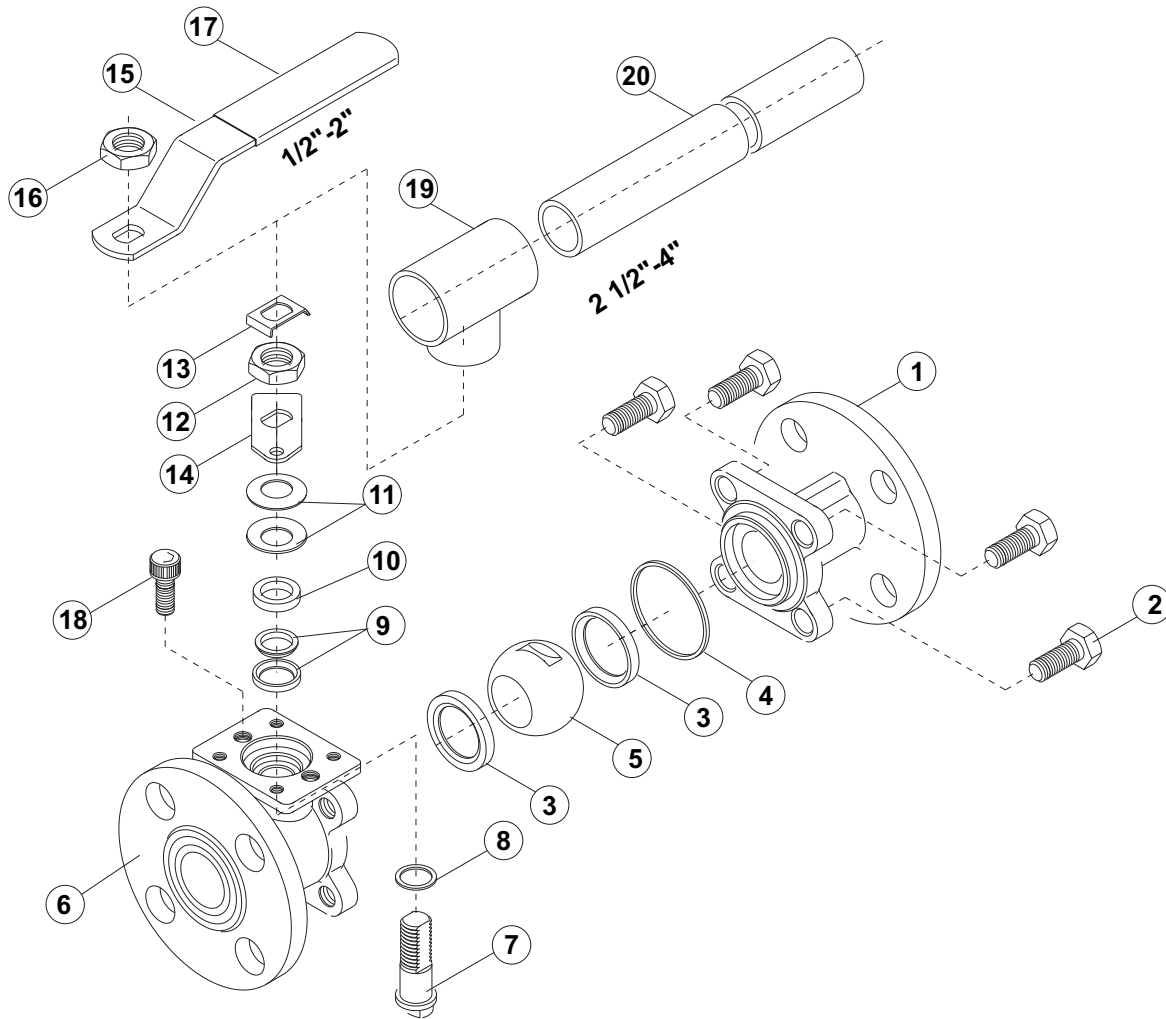
CLASS 150	SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	GREASE	49	64	78	115	177	212	478	549	1097
NON-GREASE	64	83	117	161	266	319	841	1168	2168	

CLASS 300	SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	GREASE	73	87	113	-	238	298	631	749	1385
NON-GREASE	102	121	170	-	387	537	1262	1572	2909	

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

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

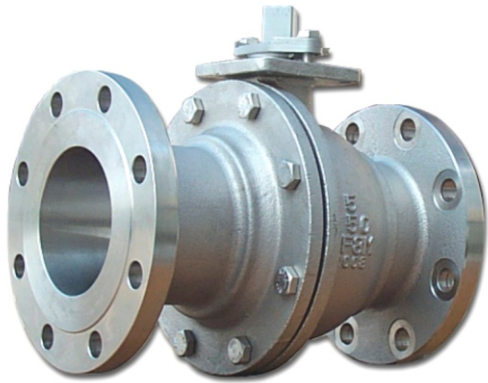
DM2500/2500 SERIES VALVES



MATERIALS LIST 1/2" - 4"

ITEM	PART NAME	MATERIAL
1	FLANGED END	CF8M / WCB
2	BOLT	SS 304
3	BALL SEAT	TFM1600
4	GASKET	TFM1600
5	BALL	SS 316 / SS 304
6	BODY	CF8M / WCB
7	STEM	SS 316 / SS 304
8	THRUST WASHER	TFM1600
9	STEM PACKING	TFM1600
10	GLAND	SS 304
11	DISK WASHER	SS 301
12	STEM NUT	SS 304
13	NUT STOP	SS 304
14	STOPPER PLATE	SS 304
15	HANDLE	SS 304
16	HANDLE NUT	SS 304
17	SLEEVE	PLASTIC
18	STOP PIN	SS 304
19	LEVER HEAD	CF8
20	PIPE HANDLE	STEEL PIPE

DM2500/2500 SERIES VALVES



FULL PORT VALVE FLOW COEFFICIENT

SIZE	CV Factor
5"	3350
6"	5000
8"	10000
10"	15000
12"	21000

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

SIZE	5"	6"	8"	10"	12"
GREASE	2036	2213	4868	5753	10620
NON-GREASE	-	-	-	-	-

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

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

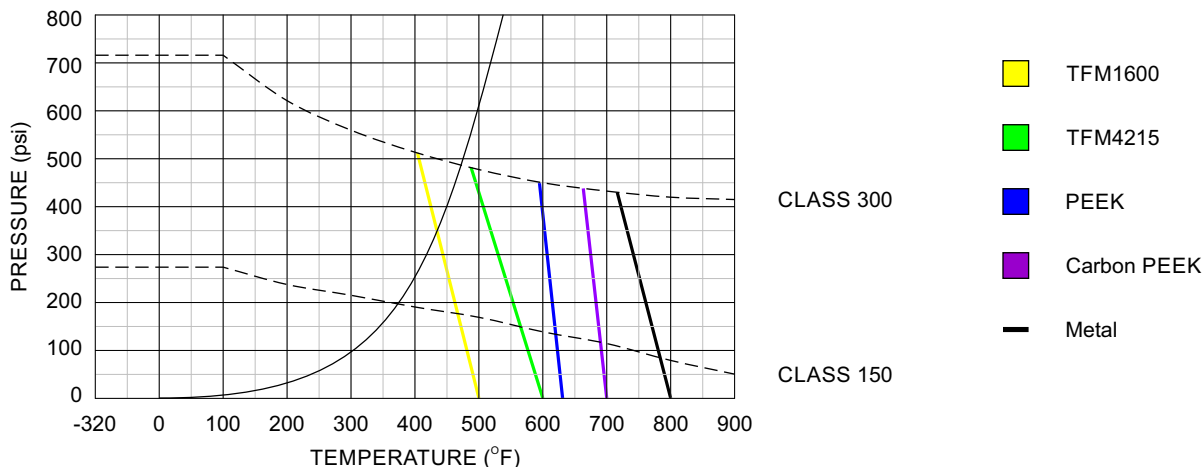
FEATURES AND BENEFITS (5" - 12")

- Body and End Caps Sand Casting
- Available in Stainless Steel or Carbon Steel
- ISO 5211 Mounting Pad
- Adjustable Stem Packing
- Blow-Out Proof Stem Design
- 100% Air Tested Under Water at 80-100 psi
- Working Pressure of Class 150 / 300
- Temperature Range -320°F to 800°F

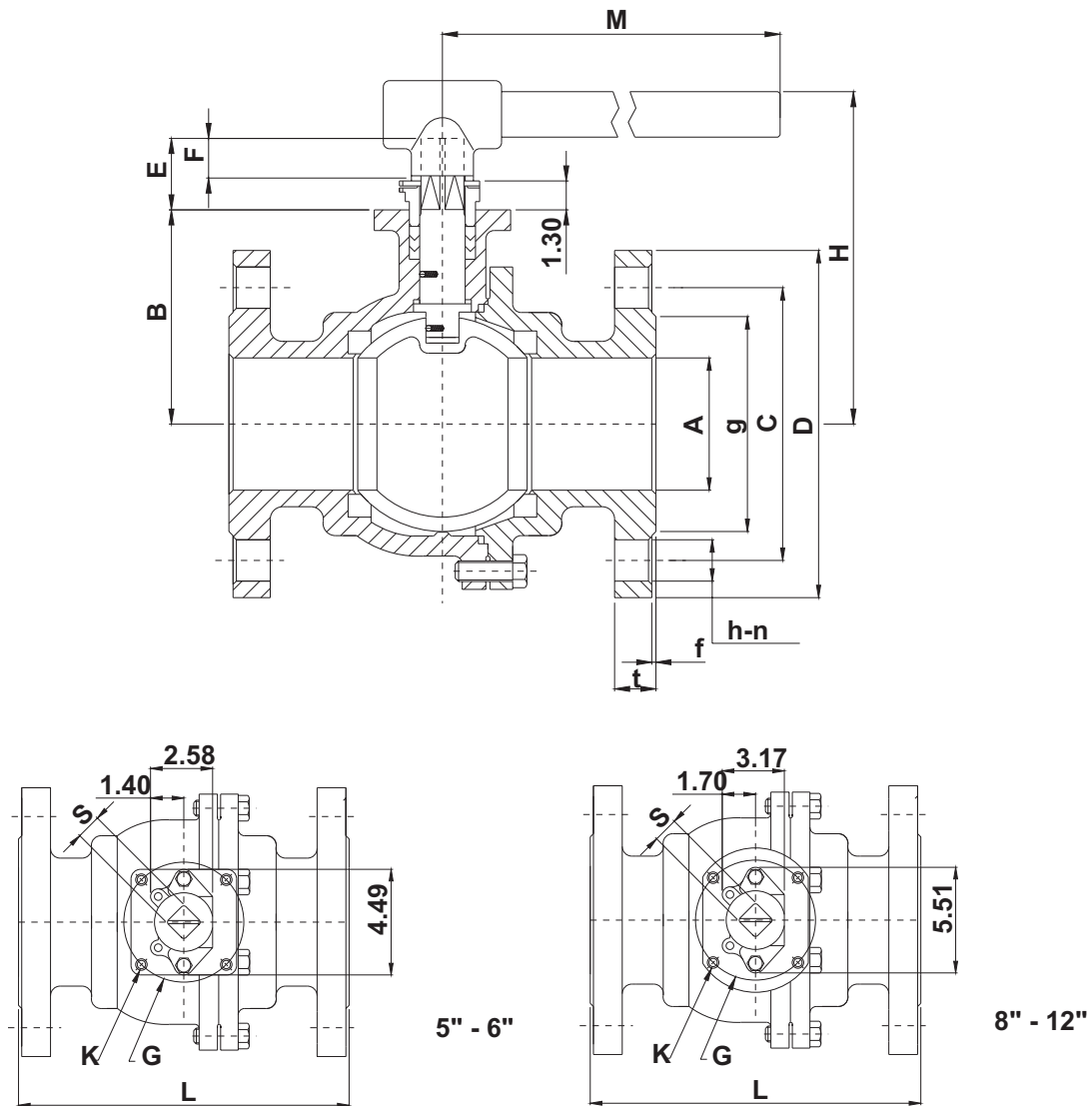
OPTIONS (5" - 12")

- Fire Safe Design
- Gear Operator / Pneumatic and Electric Actuator
- PTFE Cavity Filler
- PTFE Coating (40-70 um)
- Direct Mount Bracket
- Alloy 20 / Monel / Titanium / Hastelloy C / Super Duplex
- V-Ball for Control Valve in 30°, 60°, 90°, and Custom
- Cryogenic Valves
- Fugitive Emissions Bonnet
- Metal Seated

PRESSURE/TEMPERATURE CHART



DM2500/2500 SERIES VALVES



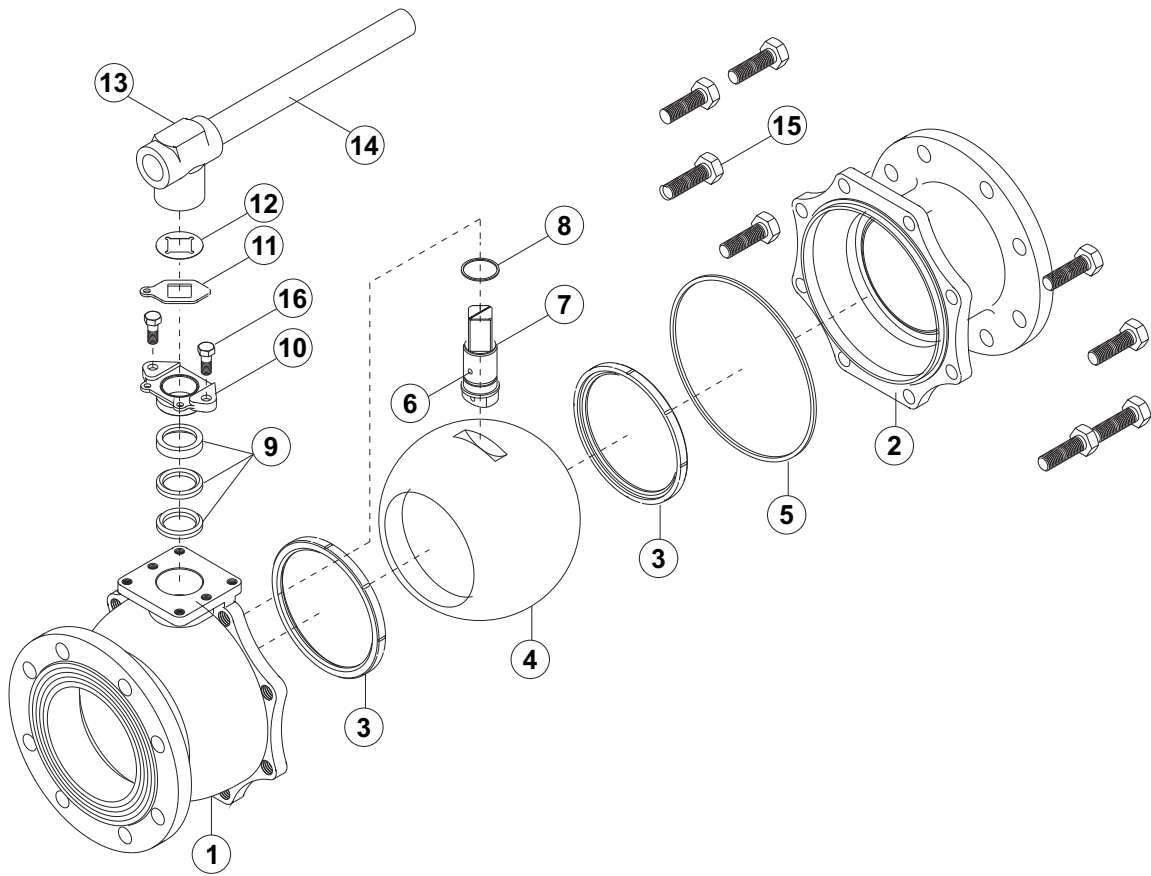
DIMENSIONS ANSI 150 5" - 12" (in)

SIZE	A	B	E	F	G	H	M	L	K	S	CLASS 150 FLANGE DIMENSIONS						
											D	C	n	h	g	t	f
5"	4.92	5.91	2.28	1.34	4.92	10.43	27.56	14.02	M12	1.06	10.00	8.50	8	0.87	7.32	0.94	0.06
6"	5.91	6.69	2.28	1.34	4.92	11.22	33.46	15.51	M12	1.06	10.98	9.51	8	0.87	8.50	1.00	0.06
8"	7.87	8.62	2.52	1.50	4.92	13.94	43.31	17.99	M12	1.42	13.50	11.75	8	0.87	10.63	1.13	0.06
10"	9.84	10.04	2.52	1.50	4.92	15.35	47.24	20.98	M12	1.42	15.98	14.25	12	0.98	12.76	1.19	0.06
12"	11.81	12.09	3.11	1.81	5.51	17.40	59.06	24.02	M16	1.42	19.02	17.01	12	0.98	15.00	1.25	0.06

DIMENSIONS ANSI 300 6" - 8" (in)

SIZE	A	B	E	F	G	H	M	L	K	S	CLASS 300 FLANGE DIMENSIONS						
											D	C	n	h	g	t	f
6"	5.91	6.87	2.11	1.24	4.92	11.34	33.46	15.87	M12	1.06	12.52	10.63	12	0.87	8.50	1.46	0.06
8"	7.87	8.64	2.52	1.50	4.92	13.50	43.31	19.76	M12	1.42	15.00	13.00	12	1.02	10.63	1.63	0.06

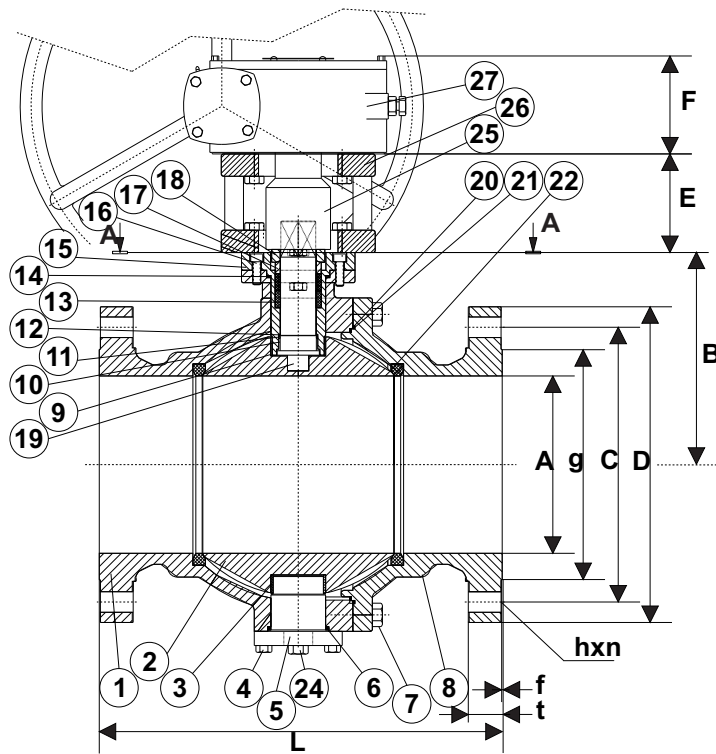
DM2500/2500 SERIES VALVES



MATERIALS LIST 5" - 12"

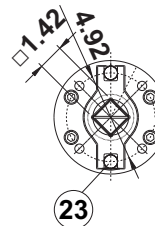
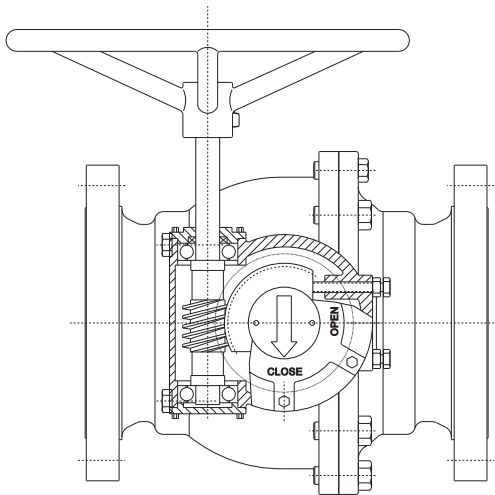
ITEM	PART NAME	MATERIAL
1	BODY	CF8M / WCB
2	FLANGED END	CF8M / WCB
3	BALL SEAT	TFM1600
4	BALL	SS 316
5	GASKET	TFM1600
6	ANTI-STATIC	SS 316
7	STEM	SS 316
8	THRUST WASHER	TFM1600
9	STEM PACKING	TFM1600
10	GLAND	SS 304
11	STOPPER	SS 304
12	STOPPER PLATE	SS 304
13	LEVER HEAD	CF8
14	PIPE HANDLE	STEEL PIPE
15	BOLT	SS 304
16	GLAND BOLT	SS 304

DM2500/2500 SERIES VALVES



MATERIALS LIST TRUNNION 10"

ITEM	PART NAME	MATERIALS
1	BODY	CF8M / WCB
2	BALL	SS 316
3	UP BEARING	PEEK
4	TRUNNION BOLTS	SS 304
5	TRUNNION CAP	A 105 / WCB
6	GASKET	PTFE / TFM
7	BODY BOLTS	SS 304
8	END CAP	CF8M / WCB
9	DOWN BEARING	PEEK
10	STEM BEARING	PEEK
11	STEM O-RING	VITON
12	THRUST WASHER	PTFE / TFM
13	STEM PACKING	PTFE / TFM
14	BONNET GASKET	PTFE / TFM
15	BONNET	SS 316 / WCB
16	BONNET BOLTS	SS 304
17	GLAND A	SS 304
18	GLAND B	SS 316
19	STEM	SS 316 / SS 304
20	GASKET A	PTFE / TFM
21	GASKET B	PTFE / TFM
22	BALL SEATS	PTFE / TFM
23	GLAND BOLTS	SS 304 / B 7
24	DRAIN PLUG	SS 316 / WCB
25	ADAPTOR	SS 304
26	BRACKET	CF8
27	GEAR OPERATOR	CAST IRON



SECTION A-A

DIMENSIONS ANSI 300 TRUNNION 10" (in)

SIZE	A	B	E	F	G	H (E+F)	L	S	CLASS 300 FLANGE DIMENSIONS						
									D	C	n	h	g	t	f
10"	9.84	11.77	4.53	4.72	4.92	9.25	22.36	1.42	17.52	15.26	16	1.14	12.76	1.88	0.06

DM2500/2500 SERIES VALVES

HOW TO ORDER

Example: 100-DM2533FPTMTMF15NANA

VALVE SIZE				PRODUCT SERIES	BODY MATERIAL		BALL/STEM MATERIAL	
050	1/2"	300	3"	25	2	WCB	3	CF8M
075	3/4"	400	4"	DM25	3	CF8M	4	ALLOY 20
100	1"	500	5"		4	ALLOY 20	7	HASTELLOY C276
125	1-1/4"	600	6"		5	MONEL	8	MONEL
150	1-1/2"	800	8"		7	HASTELLOY C276	9	DUPLEX 2507
200	2"	10X	10"		8	TITANIUM		
250	2-1/2"	12X	12"		9	DUPLEX 2507		

PORT		PACKING / BODY SEAL MATERIAL		SEAT MATERIAL		END CONNECTIONS	
FP	Full Port	TT	PTFE	CF	Cavity Filled (PTFE)	F15	ANSI 150 RF Flange
RP	Reduced Port	TM	TFM1600	UH	UHMWPE	F30	ANSI 300 RF Flange
15	15° V-Ball	TC	TFM4215	TM	TFM1600		
30	30° V-Ball	GG	Graphite	TC	TFM4215		
60	60° V-Ball			PK	PEEK		
90	90° V-Ball			CP	Carbon PEEK		
				M3	CF8M		
				MK	Inconel 750		

MATERIAL OPTIONS		DESIGN OPTIONS	
NA	Standard	NA	Standard
NC	NACE Trim	VB	Vented Ball
TF	PTFE Coated Body	SJ	Steam Jacket
BC	TFM4215 Body Seal	SR	Spring Handle
BG	Graphite Body		
FS	Firesafe API 607		

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