

FEATURES & BENEFITS

- * Comes standard in stainless steel and carbon steel
- * Investment cast body and end caps
- * Self adjusting stem packing
- * Blow-out proof stem design
- * 100% air tested under water at 100 psi
- * Working pressure to ANSI 150 or 300
- * Temperature range of -40°F to +450°F
- * Working pressure: 1/4" - 2" at 1000 psi, 2-1/2" - 4" at 800 psi
- * 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)
- * Sulfide stress cranking: NACE MR-01-75

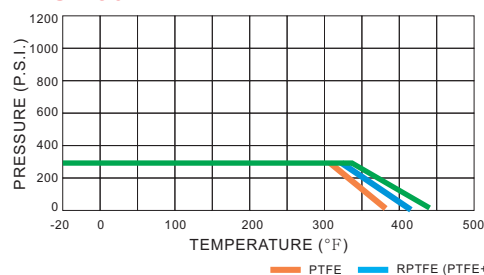
OPTIONS

- * **FIRE SAFE: API607-5th Edition Certified**
- * End connection: Flanged (ANSI 150 and 300)
- * Spring return (dead-man) handle
- * Full automation capabilities
- * Manual valve with limit switch
- * V-ball for control valve in 15°, 30°, 45°, 60°, 90°, slot, or custom
- * Hastalloy C, Super duplex, Alloy 20, and Monel
- * ISO 5211 mounting pad (150# is direct mount, 300# requires bracket)

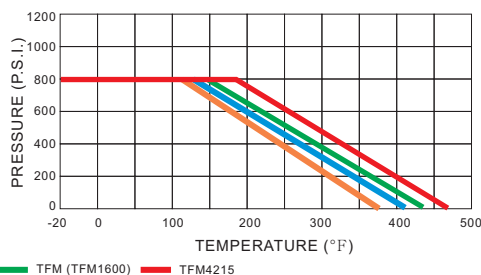


Please visit www.jflowcontrols.com
and use our "Configurator" for
complete part numbers

PRESSURE/ TEMPERATURE ANSI150



PRESSURE/ TEMPERATURE ANSI300



FLOW COEFFICIENT

SIZE	Cv FACTOR
1/4"	7.5
3/8"	16
1/2"	40
1"	70
1-1/4"	110
1-1/2"	240
2"	400
2-1/2"	700
3"	980
4"	1700

BREAK-TORQUE VALUE for ASME150 (in lb at 0 psi)

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
GREASE	50	65	80	115	180	215	480	550	1100	2040	2215	4870	5755	10625
NON-GREASE	65	85	120	165	270	320	845	1170	2170	—	—	—	—	—

BREAK-TORQUE VALUE for ANSI300 (in lb at 0 psi)

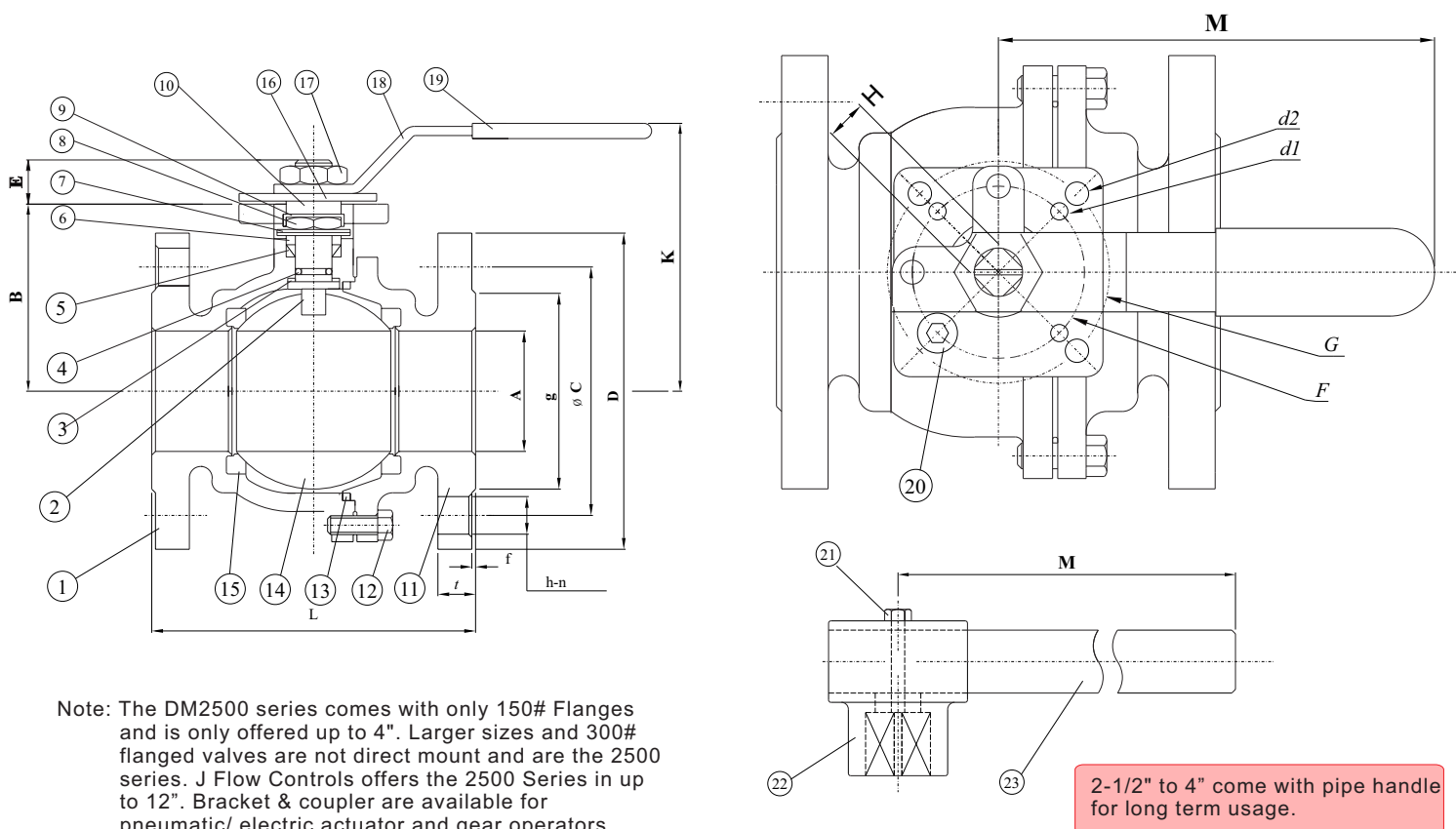
SIZE	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
GREASE	75	90	115	240	300	635	750	1390
NON-GREASE	105	125	170	390	540	1265	1575	2910

Note 1: The greases J Flow Controls uses include lubricants & 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.

DIMENSIONAL DRAWING

DM2500 Series w/ 150# Flanges (1/2" to 4")

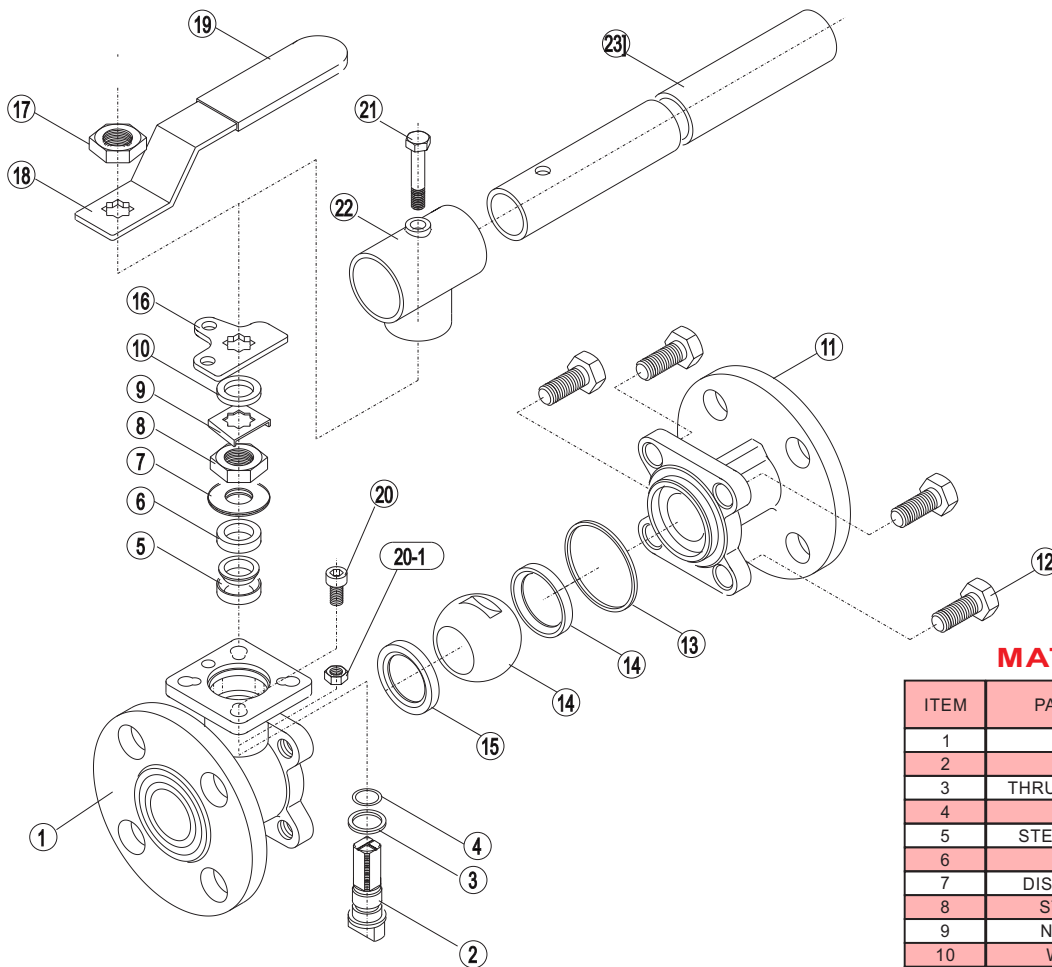


DIMENSIONS (mm)/ ASME150 (1/2" to 4")

SIZE	A	B	E	L	H	K	M	F	G	d1	d2	CLASS150 FLANGE DIMENSIONS							W (kg)
												D	C	h	N	t	g	f	
1/2"	15	48	11	108	9	80	130	36	42	6	6	89	60.5	16	4	11.5	35	1.6	1.73
3/4"	20	53	11	117	9	80	130	36	42	6	6	98	70	16	4	11.5	43	1.6	2.13
1"	25	59	14	127	11	90	165	42	50	6	7	108	79.5	16	4	11.5	51	1.6	2.92
1-1/4"	32	71	14	140	11	102	165	42	50	6	7	117	89	16	4	12.7	64	1.6	4.02
1-1/2"	38	76	18	165	14	110	205	50	70	7	9.2	127	98.5	16	4	14.3	73	1.6	5.90
2"	50	85	18	178	14	120	205	50	70	7	9.2	152	120.5	19	4	15.9	92	1.6	8.72
2-1/2"	65	93.5	23	190	17	140	300	70	102	9.2	11.4	178	139.5	19	4	17.8	105	1.6	13.33
3"	80	103	23	203	17	150	340	70	102	9.2	11.4	190	152.5	19	4	19.1	127	1.6	17.03
4"	100	132	25	229	22	180	420	102	125	11.4	13.5	229	190.5	19	8	24.0	157	1.6	28.98

PARTS BLOWOUT VIEW

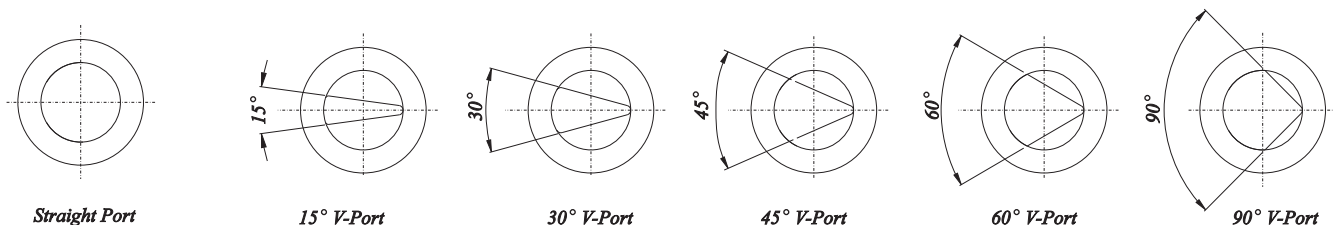
DM2500 Series w/ 150# Flanges (1/2" to 4")



MATERIALS LIST

ITEM	PART NAME	MATERIAL
		CLASS150
1	BODY	CF8M/ WCB
2	STEM	SS 316/ SS 304
3	THRUST WASHER	RPTFE
4	O-RING	VITON
5	STEM PACKING	PTFE
6	GLAND	SS 304
7	DISK WASHER	SS 301
8	STEM NUT	SS 304
9	NUT STOP	SS 304
10	WASHER	SS 304
11	FLANGED END	CF8M/ WCB
12	BOLT	SS 304
13	GASKET	PTFE
14	BALL	SS 316/ SS 304
15	BALL SEAT	PTFE/RPTFE
16	STOPPER PLATE	SS 304
17	HANDLE NUT	SS 304
18	HANDLE	SS 304
19	SLEEVE	PLASTIC
20	STOP PIN	SS 304
21	SET BOLT	SS 304
22	LEVER HEAD	CF8
23	PIPE HANDLE	STEEL PIPE

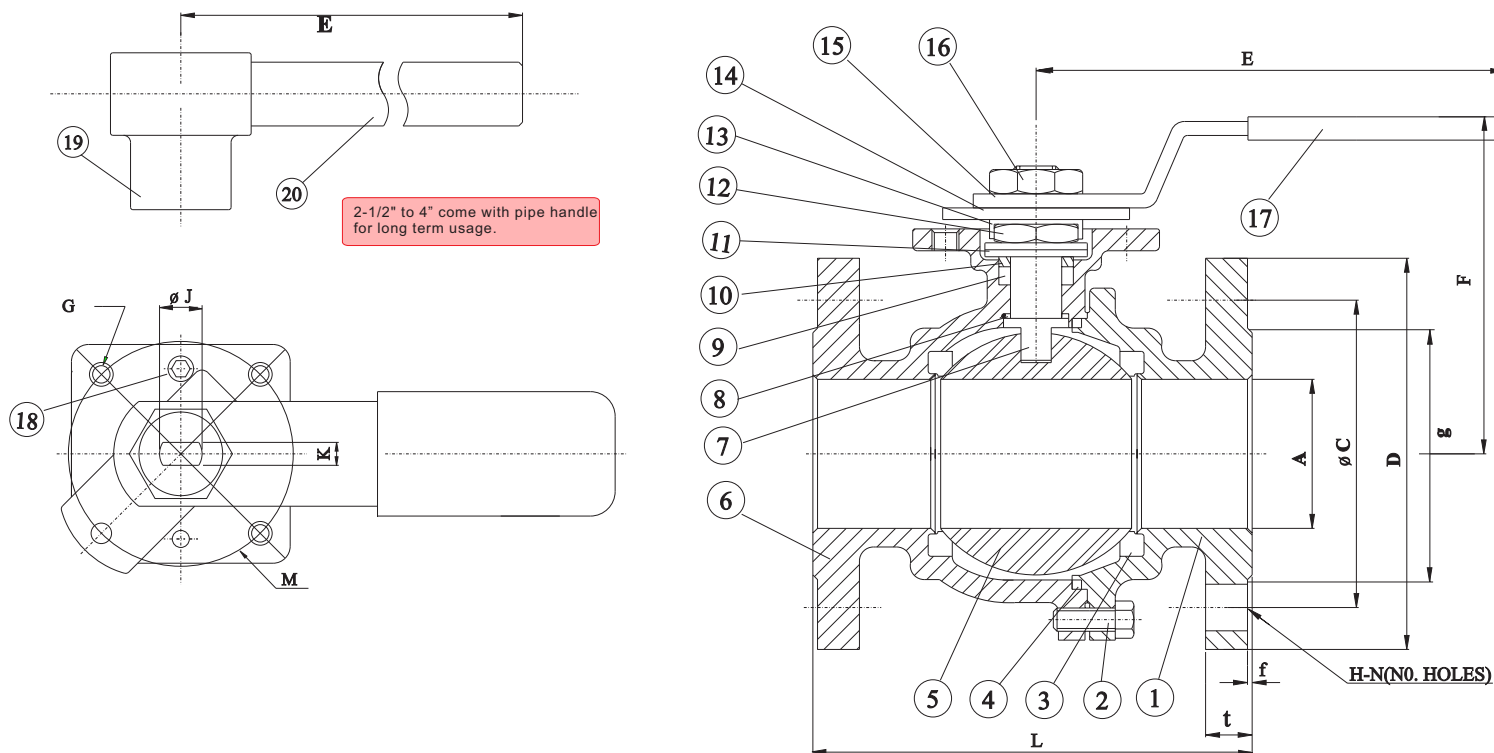
V-BALL OPTION FOR MODULATING CONTROL



For Cv, please see our "J Flow V-Ball Cv" Literature

DIMENSIONAL DRAWING

2500 Series w/ 300# Flanges (1/2" to 4")

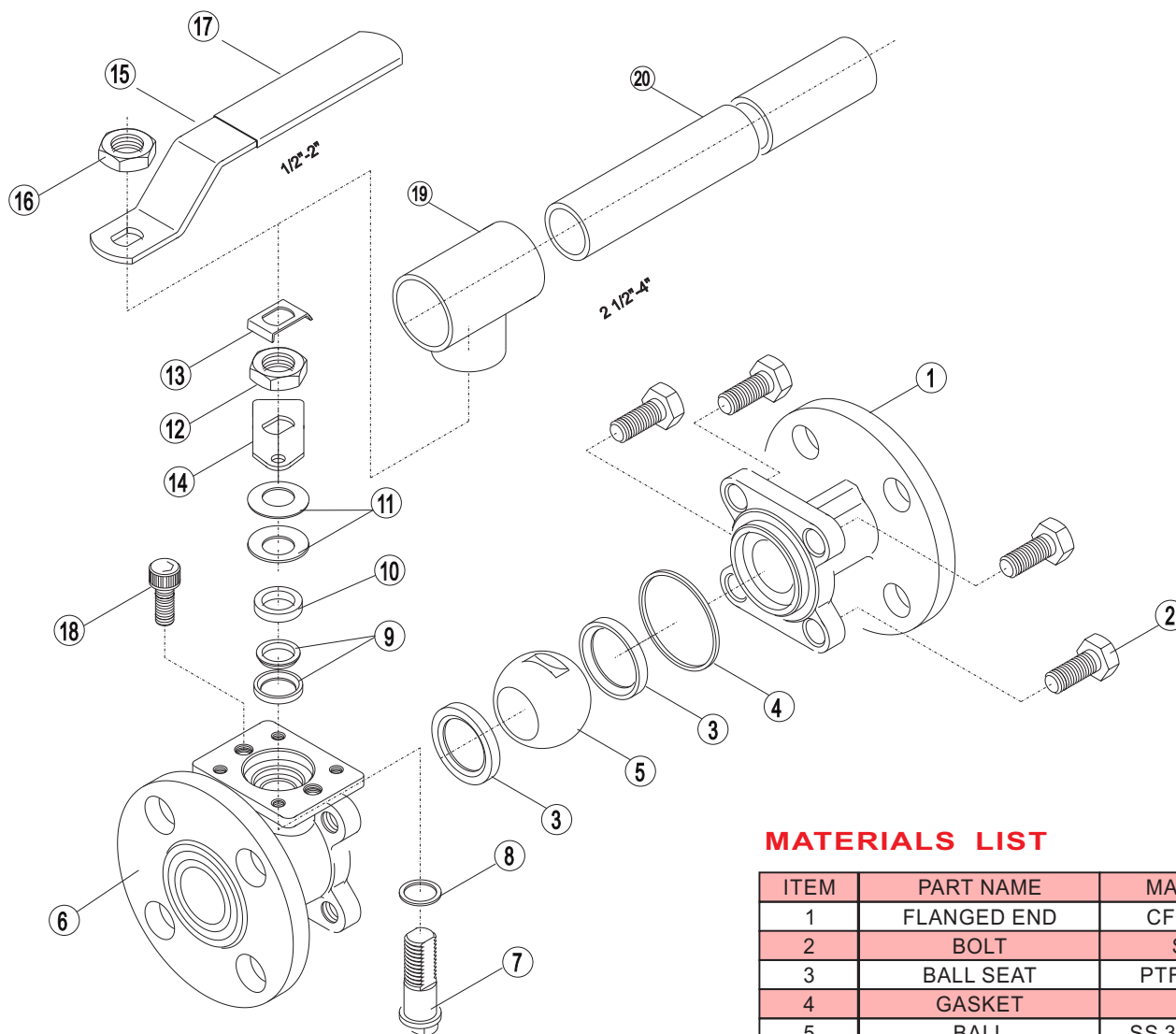


DIMENSIONS (mm)/ ASME300 (1/2" to 4")

SIZE	A	F	E	L	K	M	G	J	CLASS 300 FLANGE DIMENSIONS								
									D	C	H	N	t	g	B	O	f
1/2"	15	76	145	139.7	6.5	42	M5	10	95	66.5	16	4	14.5	35	13.9	10.7	1.6
3/4"	20	80	145	152.4	6.5	42	M5	10	117	82.5	19	4	16	43	14.2	10.9	1.6
1"	25	88	195	165.1	9.7	50	M6	14	124	89	19	4	17.5	51	21.6	16.8	1.6
1-1/2"	38	114	250	190.5	9.7	70	M8	18	156	114.5	22	4	21	73	24.9	18.0	1.6
2"	50	123	250	215.9	9.7	70	M8	18	165	127	20	8	22.5	92	23.9	19.6	1.6
2-1/2"	65	142	310	241.3	12	102	M10	20	190	149	22	8	25.5	105	22.9	16.3	1.6
3"	80	152	310	282.7	12	102	M10	20	210	168	22	8	29	127	21.9	16.3	1.6
4"	100	182	310	304.8	15	102	M10	24	254	200	22	8	32	157	29.7	24.4	1.6

PARTS BLOWOUT VIEW

2500 Series w/ 300# Flanges (1/2" to 4")



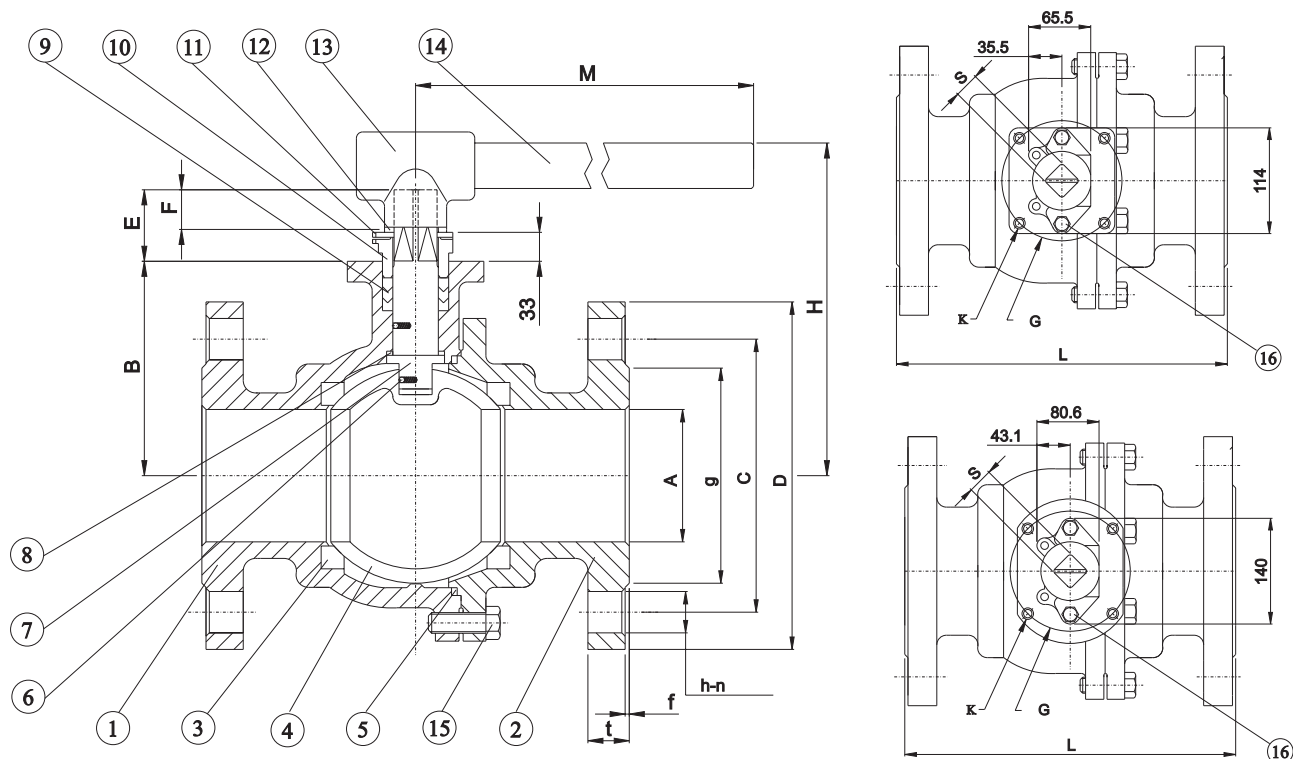
MATERIALS LIST

ITEM	PART NAME	MATERIALS
1	FLANGED END	CF8M/ WCB
2	BOLT	SS 304
3	BALL SEAT	PTFE/RPTFE
4	GASKET	PTFE
5	BALL	SS 316/ SS 304
6	BODY	CF8M/ WCB
7	STEM	SS 316/ SS 304
8	THRUST WASHER	RPTFE
9	STEM PACKING	PTFE
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

DIMENSIONAL DRAWING

2500 Series w/ 150# Flanges (5" to 12")

2500 Series w/ 300# Flanges (6" to 10")



DIMENSIONS (mm)/ ASME150 (5" to 12")

SIZE	A	B	E	F	G	H	M	L	K	S	CLASS 150 FLANGE DIMENSIONS						
											D	C	n	h	g	t	f
5"	125	150	58	34	125	265	700	356	M12	28	254	216	8	22	186	23.9	1.6
6"	150	170	58	34	125	285	850	394	M12	28	279	241.5	8	22	216	25.4	1.6
8"	200	219	64	38	125	354	1100	457	M12	36	343	298.5	8	22	270	28.6	1.6
10"	250	255	64	38	125	390	1200	533	M12	36	406	362	12	25	324	30.2	1.6
12"	300	307	79	46	140	442	1500	610	M16	36	483	432	12	25	381	31.8	1.6

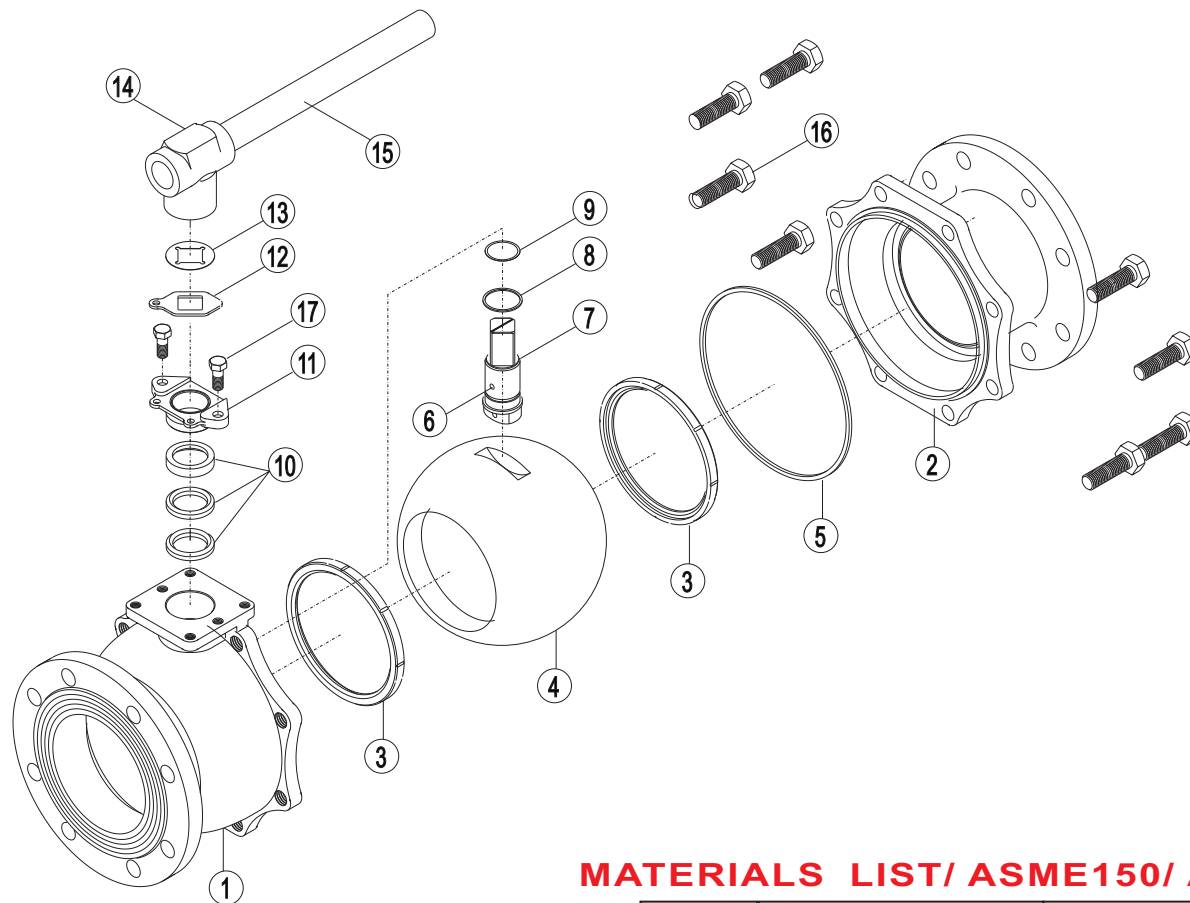
DIMENSIONS (mm)/ ASME300 (6" to 10")

SIZE	A	B	E	F	G	H	M	L	K	S	CLASS 300 FLANGE DIMENSIONS						
											D	C	n	h	g	t	f
6"	150	174.5	53.5	31.5	125	288	850	403	M12	28	318	270	12	22	216	37	1.6
8"	200	219.5	64	38	125	343	1100	502	M12	36	381	330.2	12	26	270	41.5	1.6
10"	250	255	64	38	125	379	1200	568.5	M12	36	445	387.3	16	29	324	48	1.6

PARTS BLOWOUT VIEW

2500 Series w/ 150# Flanges (5" to 12")

2500 Series w/ 300# Flanges (6" to 10")



MATERIALS LIST/ ASME150/ ASME300

ITEM	PART NAME	MATERIALS
1	BODY	CF8M/ WCB
2	FLANGED END	CF8M/ WCB
3	BALL SEAT	PTFE/RPTFE
4	BALL	SS 316/ SS 304
5	GASKET	PTFE
6	ANTI-STATIC	SS 316
7	STEM	SS 316/ SS 304
8	THRUST WASHER	RPTFE
9	STEM PACKING	PTFE
10	GLAND	SS 304
11	STOPPER	SS 304
12	STOPPER PLATE	SS 304
13	LEVER HEAD	FCD45
14	PIPE HANDLE	STEEL PIPE
15	BOLT	SS 304
16	GLAND BOLT	SS 304

