

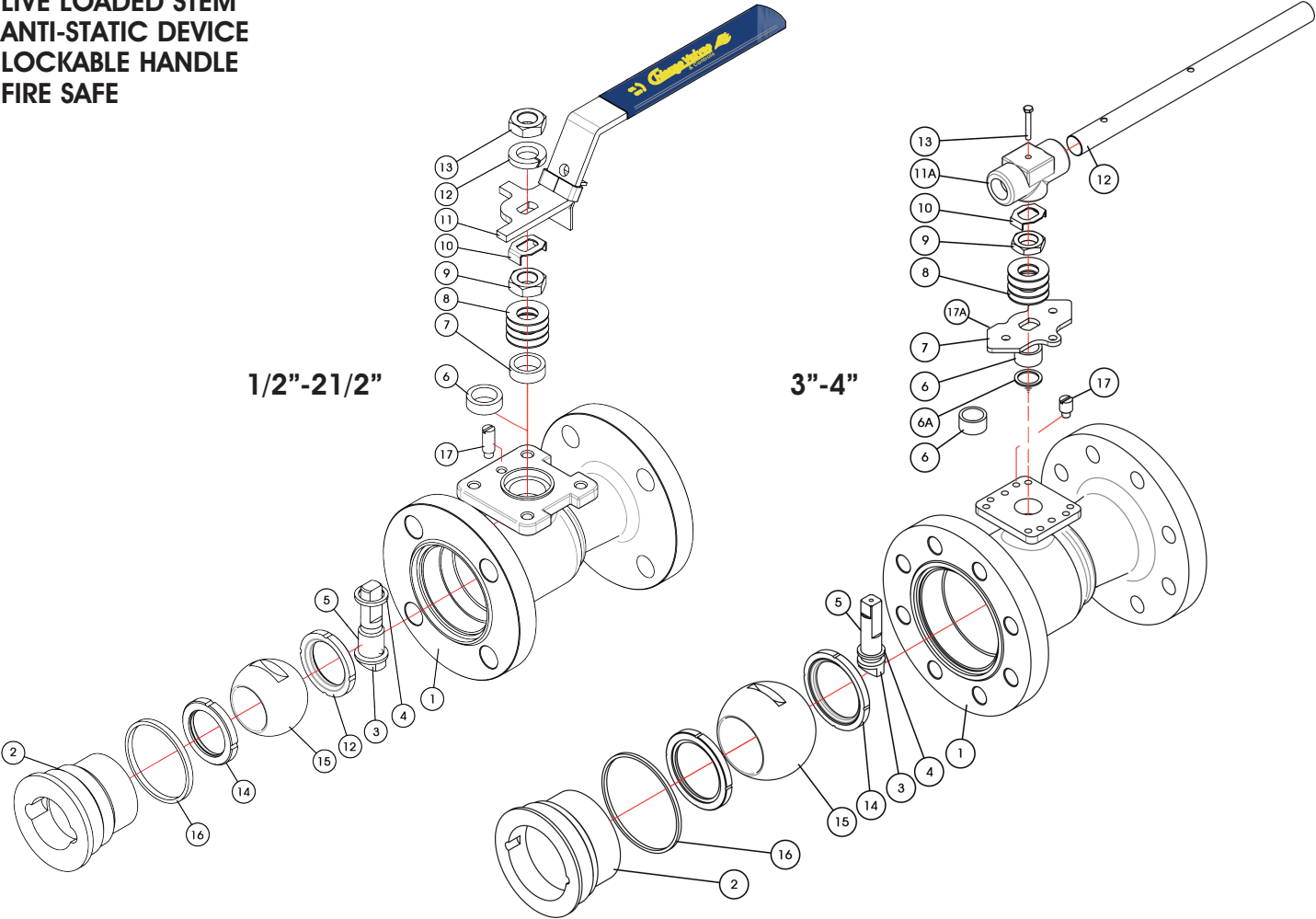
Chicago Valves & Controls



SERIES FS84
STANDARD PORT FLANGED
BALL VALVES CLASS 150/300

CARBON STEEL - ASTM A216 WCB
316 STAINLESS STEEL - ASTM A351
LIVE LOADED STEM
ANTI-STATIC DEVICE
LOCKABLE HANDLE
FIRE SAFE

Series FS84



PARTS & MATERIAL

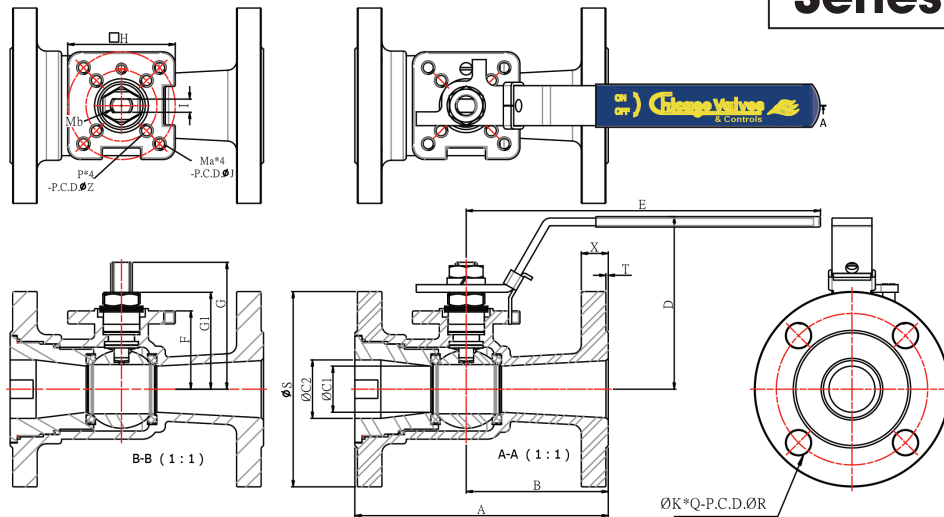
PART NO.	PART NAME	QTY	MATERIAL
1	Body	1	Carbon Steel ASTM A216 WCB 316 Stainless Steel ASTM A351 CF8M
2	End Plug	1	Carbon Steel ASTM A216 WCB 316 Stainless Steel ASTM A351 CF8M
3	Stem	1	316 Stainless Steel
4	Thrust Washer	2	PTFE, PEEK
5	Anti-Static Device Spring Loaded Ball	2	300 Series Stainless Steel Hard Drawn Stainless Steel
6	Stem Packing	1	Graphite
6A	Packing Washer	1	300 Series Stainless Steel
7	Packing Gland	1	300 Series Stainless Steel
8	Belleville Washer	4	300 Series Stainless Steel
9	Gland Nut	1	300 Series Stainless Steel
10	Lock Tub	1	300 Series Stainless Steel
11	Handle	1	300 Series Stainless Steel
11A	Wrench Block	1	304 Stainless Steel
12	Handle Washer	1	300 Series Stainless Steel
12A	Handle	1	304 Stainless Steel / Galvanized Pipe
13	Handle Nut/Bolt	1	304 Stainless Steel / Galvanized Pipe
14	Seat	2	TFM
15	Ball	1	316 Stainless Steel Alloy 20
16	Body Seal	1	Graphite
17	Stop Pin	1	300 Series Stainless Steel
17A	Travel Stop	1	300 Series Stainless Steel

APPLICABLE STANDARDS

BASIC DESIGN	ASME B16.34
FACE TO FACE DIMENSION	ASME B16.10
FLANGE DIMENSIONS	ASME B16.5
TEST	API 598
MOUNTED PADS DIEM	ISO 5211
FIRE SAFE	API 607 4TH EDITION
NACE	MR-0175

Series FS84

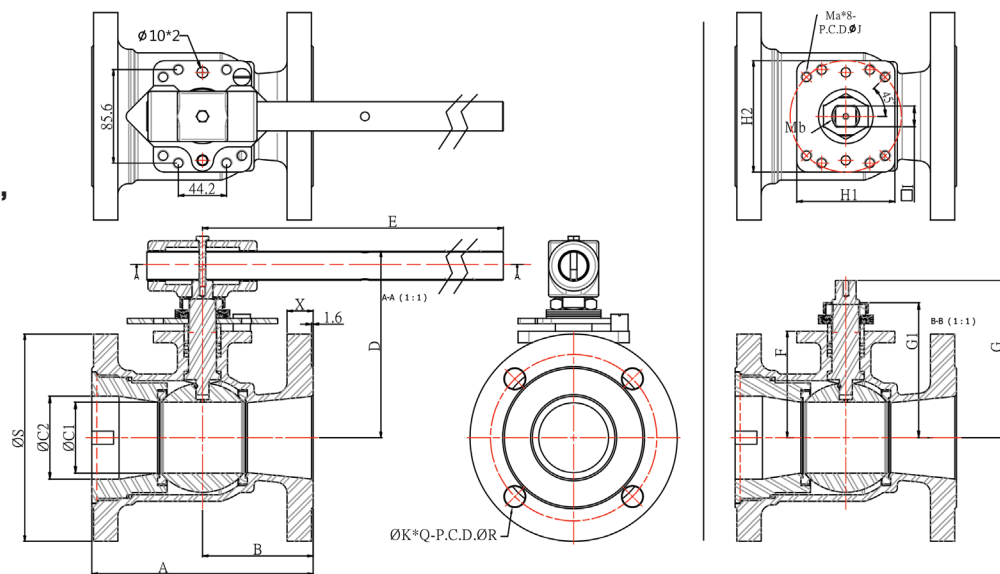
1/2"-2 1/2"



DIMENSIONS (INCHES)

/	CLASS 150																				Mb
	A	B	ØC1	ØC2	D	E	F	G	G1	H	I	ØJ	ØK	Q	ØR	ØS	Ma	P	X	ØZ	
1"	5.0	2.5	0.79	1	3.54	4.76	1.5	2.2	1.84	1.97	0.22	1.97	0.63	4	3.12	4.25	M8	M5	0.5	1.42	3/8"-24UNEF
1-1/2"	6.50	3.64	1.18	1.5	4.21	8.98	2	3.25	2.5	2.76	0.34	2.76	0.63	4	3.88	5	M8	M6	0.69	1.97	3/8"-18UNEF
2"	7.0	4.41	1.46	1.97	4.57	8.98	2.38	3.48	2.87	2.76	0.34	2.76	0.75	4	4.74	6	M8	M6	0.75	1.97	9/16"-18UNEF
2 1/2"	7.50	3.94	2	2.56	4.84	8.98	2.64	3.74	3.13	2.76	0.34	2.76	0.75	4	5.5	7.01	M8	M6	0.88	1.97	9/16"-18UNEF
/	CLASS 300																				Mb
	A	B	ØC1	ØC2	D	E	F	G	G1	H	I	ØJ	ØK	Q	ØR	S	Ma	P	X	ØZ	
1-1/2"	7.50	4.23	1.22	1.5	4.21	8.98	2	3.27	2.52	2.76	0.34	2.76	0.89	4	4.51	6.12	M8	M6	0.81	1.97	9/16"-18UNEF
2"	8.50	4.93	1.5	1.97	4.59	8.98	2.38	3.58	2.87	2.76	0.34	2.76	0.75	8	5	6.5	M8	M6	0.88	1.97	9/16"-18UNEF
2-1/2"	9.50	5.56	1.97	2.56	4.84	8.98	2.64	3.84	3.17	2.76	0.34	2.76	0.89	8	5.88	7.5	M8	M6	1	1.97	9/16"-18UNEF

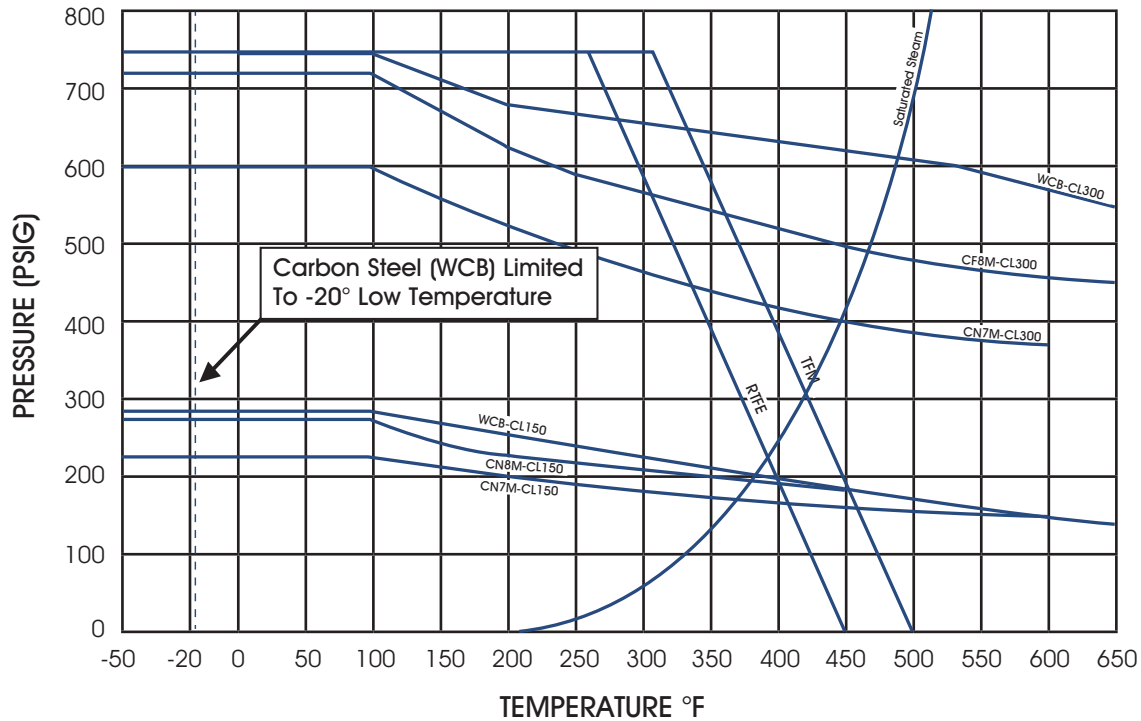
3"-4"



DIMENSIONS (INCHES)

/	CLASS 150																			
	A	B	Ø C1	Ø C2	D	E	F	G	G1	H1	H2	I	Ø J	Ø K	Q	Ø R	Ø S	Ma	X	Mb
3"	8.00	4	2.56	2.99	6.81	13.74	3.84	5.67	5.12	3.54	4.02	0.75	4.02	0.75	4	6	7.48	M10	0.94	1"-14UNS
4"	9.00	4.49	2.99	3.94	7.2	13.74	4.28	6.1	5.51	3.54	4.02	0.75	4.02	0.75	8	7.5	9.02	M10	0.94	1"-14UNS
/	CLASS 300																			
	A	B	Ø C1	Ø C2	D	E	F	G	G1	H1	H2	I	Ø J	Ø K	Q	Ø R	Ø S	Ma	X	Mb
3"	11.12	6.78	2.56	2.99	6.81	13.74	3.84	5.63	5.12	4.02	4.02	0.75	4.02	0.89	8	6.61	8.25	M10	1.12	1"-14UNS
4"	12.00	7.13	2.99	3.94	7.28	13.74	4.28	6.14	5.61	4.02	4.02	0.75	4.02	0.89	8	7.87	10	M10	1.25	1"-14UNS

PRESSURE-TEMPERATURE RATINGS SERIES FS84



Note:

The maximum pressure/temperature ratings of the valve assemblies are limited to lowest of the body or seat material fitted. The body ratings are based on ASME B16.34 rating for materials. The graphs are based on laboratory testing and our experience in field. The seat ratings depend on the material, design, application and function.

		150	300
SIZE	CV (GPM)	WEIGHT (LBS)	
1/2"	26	4	5
3/4"	50	6	7
1"	94	8	10
1 1/2"	260	15	19
2"	480	20	33
2 1/2"	750	36	50
3"	1150	45	68
4"	2110	75	96

Chicago Valves & Controls® Seat Materials

M-TFM® PTFE

Dyneon TFME® PTFE is a second generation PTFE with improved chemical and heat resistant properties and stress recovery. Its temperature range is -100°F to 500°F (-73°C to 260°C) Color - white.

R-Reinforced Polytetrafluoroethylene (RTFE).

PTFE's mechanical properties are enhanced by adding 15% filler material to provide improved strength, stability and wear resistance. Its temperature range is from -320°F to 450°F (-196°C to 232°C). Color-off-white.

HOW TO ORDER

1"	FS84	6	6	M	G	G	1	X	OH
Size	Series	Body & Ends	Ball & Stem	Seats	Body Seal	Stem Packing	Class	Service	Options
SIZE	SERIES	BODY & ENDS			BODY-SEAL			SERVICE	
1/2"	FS84 - Fire Safe	6 316 Stainless Steel			G Graphite			X Oxygen Service (CVAC Standards)	
3/4"		4 Carbon Steel						SF Silicone FREE	
1"									
1 1/2"		BALL & STEM			STEM PACKING				
2"		6 316 Stainless Steel			G Graphite				
2 1/2"									
3"		SEATS			CLASS				
4"		M TFM			1 150RF			OH Oval Handle (Up to 2")	
					3 300RF			VB Vented Ball	
								SH Spring Loaded Handle (Up to 2")	



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