

# TC-5000 (FS), TC-5100 (FS) VALVE

## 2PC 150# FULL PORT BALL VALVE, FLANGED

### DESIGN FEATURES:

- Steam rating: 150 psi WSP
- NACE MR-0175 full compliance
- ISO 5211 Actuator Mounting Pad
- Blow-out-proof stem design
- Anti-Static Device
- Adjustable Stem Packing
- Locking Device
- Body: ASTM A351 Gr. CF8M For TC-5000  
ASTM A216 Gr. WCB For TC-5100
- ME-PTFE SEAL KITS: REPLACES PTFE, RPTFE AND FPA  
LOW DEFORMATION UNDER LOAD  
LOW PERMEATION
- Temperature Rating: -45.5°C (-50°F) to 246°C (475°F)
- Long Cycle Life
- ANSI B16.5 B16.10 and B16.34 Full Compliance
- API 607 4<sup>th</sup> Edition FIRE SAFE APPROVAL
- TEST STANDARD: API 598
- NACE MR-0175 FULL COMPLIANCE
- Vacuum Service to 29" Hg

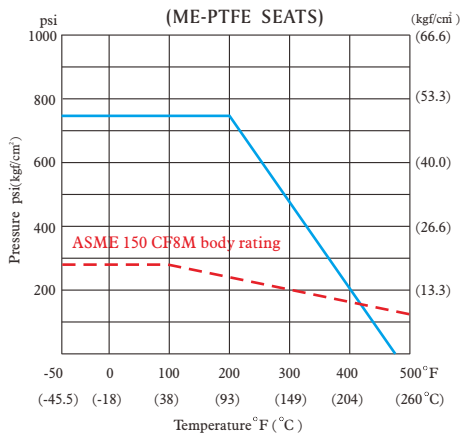


### MATERIALS LIST

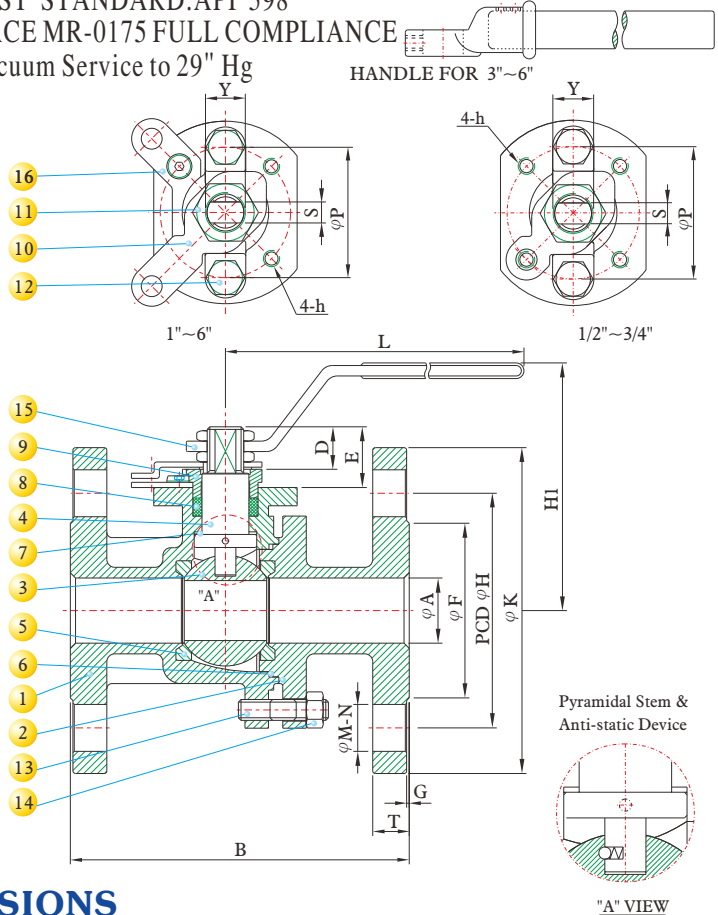
NO.	PART NAME	MATERIAL		QTY
		STAINLESS STEEL	CARBON STEEL	
1	BODY	ASTM A351 Gr.CF8M	ASTM A216 WCB	1
2	CAP	ASTM A351 Gr.CF8M	ASTM A216 WCB	1
3	BALL	ASTM A351 Gr.CF8M	ASTM A351 Gr.CF8M	1
4	STEM	ASTM A276 Gr.316	ASTM A276 Gr.316	1
5	SEAT	*ME-PTFE	*ME-PTFE	2
6	GASKET	GRAFOIL	GRAFOIL	1
7	THRUST WASHER	*ME-PTFE	*ME-PTFE	1
8	PACKING	GRAFOIL	GRAFOIL	1
9	GLAND	ASTM A351 Gr.CF8	ASTM A351 Gr.CF8	1
10	STOPPER	SS304	SS304	1
11	HANDLE NUT	SS304	SS304	2
12	GLAND BOLT	ASTM A193 Gr.B8	ASTM A193 Gr.B8	2
13	STUD BOLT	ASTM A193 Gr.B8	ASTM A193 Gr.B7M	4-10
14	SET NUT	ASTM A194 Gr.8	ASTM A194 Gr.2HM	4-10
15	HANDLE	SS304	SS304	1
16	LOCKING PLATE	SS304	SS304	1

\* ME-PTFE IS Molecularly Enhanced PTFE

### PRESSURE TEMPERATURE RATINGS



### DIMENSIONS



SIZE		A		B		D		E		F		G		H		K		T		M		N	P		S		L		H1		h	Y	Cv	Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm				Factor	Kg
1/2"	15	0.59	15.0	4.25	107.9	0.56	14.1	0.98	25.0	1.38	35.0	0.06	1.6	2.38	60.4	3.50	88.9	0.44	11.1	0.62	15.7	4	1.65	42	0.32	8	5.18	131.5	2.91	73.8	M5*P0.8	M14*P2.0	26	1.81	3.99
3/4"	20	0.79	20.0	4.62	117.3	0.59	15.1	0.98	25.0	1.69	42.9	0.06	1.6	2.75	69.8	3.88	98.5	0.44	11.1	0.62	15.7	4	1.65	42	0.32	8	5.18	131.5	2.94	74.8	M5*P0.8	M14*P2.0	55	2.10	4.63
1"	25	0.98	25.0	5.00	127.0	0.62	15.8	1.24	31.5	2.00	50.8	0.06	1.6	3.12	79.2	4.25	107.9	0.44	11.1	0.62	15.7	4	1.97	50	0.39	10	6.42	163.0	3.44	87.4	M6*P1.0	M16*P2.0	110	3.00	6.61
1 1/4"	32	1.26	32.0	5.50	139.7	0.62	15.8	1.24	31.5	2.50	63.5	0.06	1.6	3.50	88.9	4.62	117.3	0.50	12.7	0.62	15.7	4	1.97	50	0.39	10	6.42	163.0	3.63	92.2	M6*P1.0	M16*P2.0	180	4.50	9.91
1 1/2"	40	1.50	38.0	6.50	165.1	0.86	21.8	1.67	42.3	2.88	73.1	0.06	1.6	3.88	98.5	5.00	127.0	0.56	14.2	0.62	15.7	4	2.76	70	0.39	10	9.13	232.0	4.76	121.0	M8*P1.25	M16*P2.0	270	6.20	13.66
2"	50	1.97	50.0	7.00	177.8	0.86	21.8	1.67	42.3	3.62	91.9	0.06	1.6	4.75	120.6	6.00	152.4	0.62	15.7	0.75	19.0	4	2.76	70	0.39	10	9.13	232.0	5.08	129.0	M8*P1.25	M16*P2.0	500	9.00	19.82
2 1/2"	65	2.56	65.0	7.50	190.5	0.86	21.8	1.67	42.3	4.12	104.6	0.06	1.6	5.50	139.7	7.00	177.8	0.69	17.5	0.75	19.0	4	2.76	70	0.55	14	9.13	232.0	5.55	141.0	M8*P1.25	M22*P2.5	800	13.00	28.63
3"	80	3.15	80.0	8.00	203.2	1.10	28.0	2.21	56.3	5.00	127.0	0.06	1.6	6.00	152.4	7.50	190.5	0.75	19.0	0.75	19.0	4	4.02	102	0.55	14	12.87	327.0	6.52	165.7	M10*P1.5	M22*P2.5	1150	21.00	46.26
4"	100	3.94	100.0	9.00	228.6	1.10	28.0	2.21	56.3	6.19	157.2	0.06	1.6	7.50	190.5	9.00	228.6	0.94	23.8	0.75	19.0	8	4.02	102	0.55	14	12.87	327.0	7.11	180.7	M10*P1.5	M22*P2.5	2120	32.00	70.48
6"	150	5.91	150.0	15.50	393.7	1.48	37.7	2.65	67.3	8.50	215.9	0.06	1.6	9.50	241.3	11.00	279.4	1.00	25.4	0.88	22.3	8	4.92	125	0.79	20	42.20	1072.0	9.95	252.8	M12*P1.75	M30*P3.5	5100	75.00	165.20