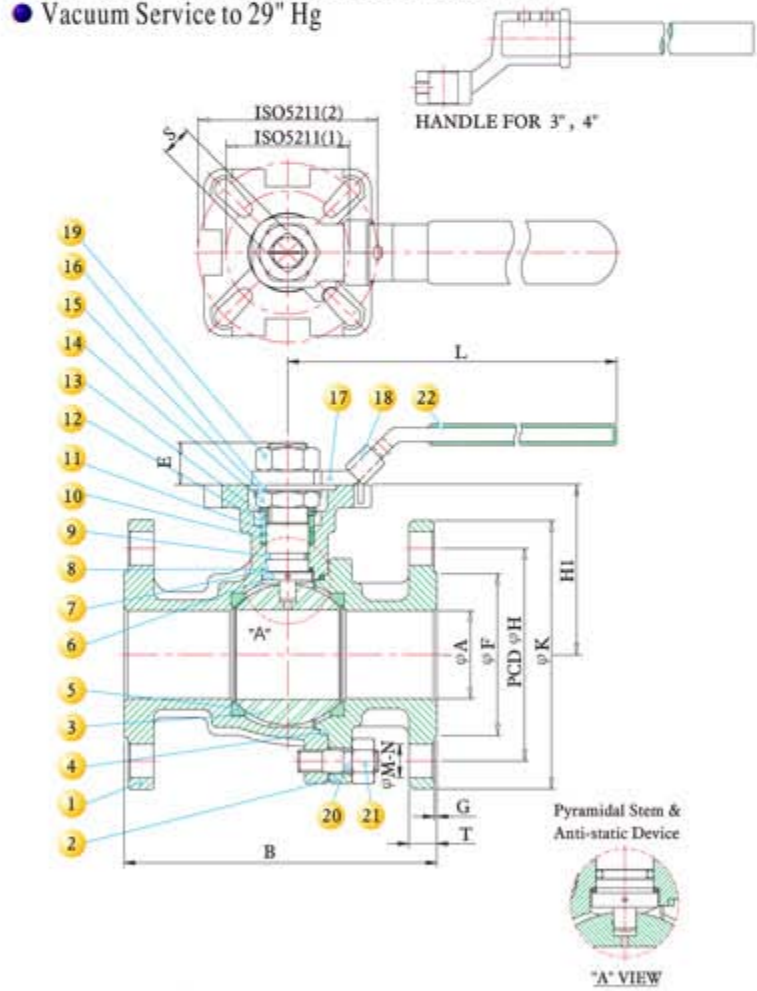


DESIGN FEATURES:

- Steam rating: 150 psi WSP
- Blow-out-proof stem design
- Anti-Static Device
- Adjustable Stem Packing
- Locking Device
- ME-PTFE SEAT KITS: REPLACES PTFE, RPTFE AND FPA
 LOW DEFORMATION UNDER LOAD
 LOW PERMEATION
- Temperature Rating: -45.5°C (-50°F) to 246°C (475°F)
- FULL ISO-5211 PAD FOR DIRECT MOUNT AUTOMATION
- ANSI B16.5 B16.10 and B16.34 Full Compliance
- TEST STANDARD: API 598
- API 607 5th Edition FIRE SAFE APPROVAL
- Vacuum Service to 29" Hg

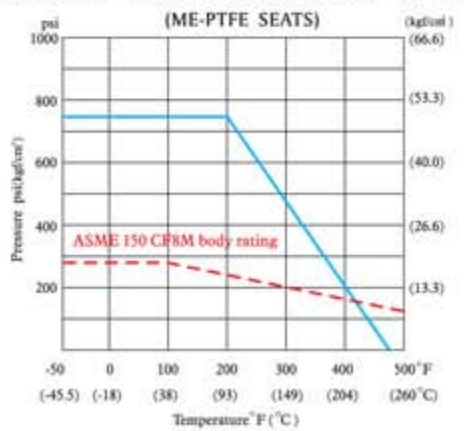
SERIES 190



MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY
1	BODY	ASTM A351 Gr-CFRM	1
2	CAP	ASTM A351 Gr-CFRM	1
3	BALL	ASTM A351 Gr-CFRM	1
4	GASKET	GRAFOIL	1
5	SEAT	ME-PTFE	2
6	STEM	ASTM A276 Gr-316	1
7	THRUST WASHER	ME-PTFE	1
8	STEM BUSHING	50% S.S. + 50% PTFE	1
9	O-RING	VITON	1
10	PACKING	GRAFOIL	1
11	STEM BEARING	50% S.S. + 50% PTFE	1
12	RING	SS304	1
13	BELLEVEILLE WASHER	SS410	2
14	STEM NUT	SS304	1
15	STOP WASHER	SS304	1
16	STOPPER	SS304	1
17	HANDLE	SS304	1
18	LOCKING PLATE	SS304	1
19	HANDLE NUT	SS304	1
20	STUD BOLT	SS304	4-12
21	SET NUT	SS304	4-12
22	HANDLE SLEEVE	VINYL GRIP	1

PRESSURE TEMPERATURE RATINGS



DIMENSIONS

SIZE		A		B		E		F		G		H		K		L		M		N	S		T		H1	ISO 5211	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				Factor	kg	Lb
1"	25	0.98	25.0	5.00	127.0	0.45	11.5	2.00	50.8	0.06	1.6	3.12	79.2	4.25	107.9	6.42	163.0	0.62	15.7	4	0.43	11	0.44	11.1	2.31	58.8	F04/F05	110	2.90	6.39
1 1/2"	40	1.50	38.0	6.50	165.1	0.63	16.0	2.88	73.1	0.06	1.6	3.88	98.5	5.00	127.0	9.13	232.0	0.62	15.7	4	0.67	17	0.56	14.2	3.50	89.1	F07/F10	270	6.70	14.76
2"	50	1.97	50.0	7.00	177.8	0.74	19.0	3.62	91.9	0.06	1.6	4.75	120.6	6.00	152.4	9.13	232.0	0.75	19.0	4	0.67	17	0.62	15.7	3.80	96.5	F07/F10	500	9.50	20.93
3"	80	3.15	80.0	8.00	203.2	0.74	19.0	5.00	127.0	0.06	1.6	6.00	152.4	7.50	190.5	12.87	327.0	0.75	19.0	4	0.87	22	0.75	19.0	5.22	132.5	F10/F12	1150	20.90	46.04
4"	100	3.94	100.0	9.00	228.6	0.94	24.0	6.19	157.2	0.06	1.6	7.50	190.5	9.00	228.6	12.87	327.0	0.75	19.0	8	0.87	22	0.94	23.8	6.18	157.0	F10/F12	2120	33.00	72.69