



- NOTES:
1. BASIC DESIGN PER ASME B16.34 AND API6D;
 2. END FLANGE PER ASME B16.5;
 3. FACE TO FACE DIMENSIONS PER ASME B16.10;
 4. PRESSURE TESTS PER API598;
 5. FIRE SAFE DESIGN PER API607.

VALVE SIZE		DIMENSIONS							1500#			Weight unit.lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	ØW	
24"	INCH	46	8	27.25	39	16-Ø3.62	0.25	21.6	80.43	39.09	31.5	15763
	MM	1168.4	203.2	692.2	990.6	16-Ø92	6.4	548	2043	993	800	(7150)
20"	INCH	38.75	7	23	32.75	16-Ø3.12	0.25	18	65.5	36.5	31.5	9914
	MM	984.3	177.8	584.2	831.9	16-Ø79.2	6.4	456	1664	927.1	800	(4497)
18"	INCH	36	6.38	21	30.5	16-Ø2.88	0.25	16.1	60.5	32.09	31.5	8038
	MM	914.4	162.1	533.4	774.7	16-Ø73.2	6.4	408	1537	815.1	800	(3646)
16"	INCH	32.5	5.75	18.5	27.75	16-Ø2.62	0.25	14.3	54.5	28.35	31.5	6085
	MM	825.5	146.1	470	704.9	16-Ø66.5	6.4	362	1384	720	800	(2760)
14"	INCH	29.5	5.25	16.25	25	16-Ø2.38	0.25	12.5	49.5	26.18	31.5	4960
	MM	749.3	133.4	412.8	635	16-Ø60.5	6.4	317	1257	665	800	(2250)

ITEM	PART NAME	STANDARD (NACE)	LOW TEMP (NACE)	STAINLESS STEEL (NACE)	Q'ty
1	Body	ASTM A105	A350 LF2	A182 F316	1
2	End Adapters	ASTM A105	A350 LF2	A182 F316	2
3	QS Ball	A182 F51+HC			1
4	Stem	A182 F51			1
5a	Seat Ring	A182 F51			2
5b	Seat Insert	PEEK			2
5c	O-Ring	VITON A			2
5d	O-Ring & Back-up ring	VITON A & PTFE			2
5e	Seat Fire Safe Seal	Graphite			2
6	Gland	ASTM A105	A350 LF2	A182 F316	1
7	Plate Trunnion	ASTM A105	A350 LF2	A182 F316	2
8	Gland Plate	ASTM A105	A350 LF2	A182 F316	1
9	Lifting Lug	Carbon Steel		Stainless Steel	2
10	Leg Plate	Carbon Steel		Stainless Steel	2
11	Spring	Inconel X750			--
12	Key	AISI 1045		Stainless Steel	1
13	Stem Fire Safe Seal	Graphite			1
14	Body Fire Safe Seal	SPW.316+Graphite			2
15	Gland Fire Safe Seal	SPW.316+Graphite			1
16	Stem O-Ring & Back-up ring	VITON A & PTFE			2
17	Gland O-Ring	VITON A			1
18	Body O-Ring	VITON A			2
19	DU Bearing	1045+PTFE		316SS+PTFE	2
20	DU Thrust Bearing	1045+PTFE		316SS+PTFE	2
21	Thrust Washer	RPTFE			1
22	DU Bearing	1045+PTFE		316SS+PTFE	1
23	Body Studs	ASTM A193-B7M	ASTM A320-L7M	ASTM A193-B8M	--
24	Body Nuts	ASTM A194-2HM	ASTM A194-7M	ASTM A194-8M	--
25	Gland Bolt	ASTM A193-B7M	ASTM A320-L7M	ASTM A193-B8M	--
26	Gland Plate Bolt	ASTM A193-B7M	ASTM A320-L7M	ASTM A193-B8M	--
27	Parallel Pins	ASTM A276 Gr.316			--
28	Parallel Pins	AISI 1045		ASTM A276 Gr.316	--
29	Parallel Pins	AISI 1045		ASTM A276 Gr.316	2
30	Vent Valve	AISI 316 S/S			1
31	Plug	AISI 316 S/S			1
32	Sealant Injection Fitting	ASTM A105N +Zn	A350 LF2 + Zn	ASTM A276 Gr.316	1
33	Sealant Injection Fitting	ASTM A105N +Zn	A350 LF2 + Zn	ASTM A276 Gr.316	4
34	Check Valve	AISI 316 S/S			4
35	Anti-static Ball	AISI 316 S/S			2
36	Anti-Static Spring	AISI 316 S/S			2
37	Gear Device	ASTM A216 GR.WCB			1
38	Gear Studs	ASTM A193-B7		ASTM A193-B8	--
39	Gear Nuts	ASTM A194-2H		ASTM A194-8	--

Standard materials of construction listed

Quadosphere® NPS 14"~24" CLASS 1500# Full Bore

CLASS 1500 TRUNNION MOUNTED BALL VALVE

REVISED : E1

DATE : 09-27-14

DRAWING NUMBER

VATMATIC VALVE AND MANUFACTURING CORP. VMC-4714AAW