



NOTES:
 1. BASIC DESIGN PER ASME B16.34 AND API607;
 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.

ITEM	PART NAME	STANDARD (NACE)	LOW TEMP (NACE)	STAINLESS STEEL (NACE)
1	Body	ASTM A105	A350 LF2	A182 F316
2	End Adapters	ASTM A105	A350 LF2	A182 F316
3	QS Ball	A182 F316 + HC		
4	Stem	A182 F316		
5a	Seat Ring	A182 F316		
5b	Seat Insert	PEEK		
5c	O-Ring	VITON A		
5d	Seat Fire Safe Seal	Graphite		
5e	Seat O-ring Backup ring	PTFE		
6	Gland	ASTM A105	A350 LF2	A182 F316
7	Post Trunnion	ASTM A105	A350 LF2	A182 F316
8	Gland Plate	ASTM A105	A350 LF2	A182 F316
9	Locking Plate	Carbon Steel + Zn		Stainless Steel
10	Handle guide	ASTM A216 GR.WCB + Painting		
11	Spring	Inconel X750		
12	Key	AISI 1045		Stainless Steel
13	Stem Fire Safe Seal	Graphite		
14	Body Gasket	SPW.316+Graphite		
15	Gland Gasket	SPW.316+Graphite		
16	Trunnion Gasket	SPW.316+Graphite		
17	Stem O-Ring & Back-up ring	VITON A / PTFE		
18	Gland O-Ring & Back-up ring	VITON A / PTFE		
19	Trunnion O-Ring & Back-up ring	VITON A / PTFE		
20	Body O-Ring & Back-up ring	VITON A / PTFE		
21	DU Bearing	1045+PTFE		316SS+PTFE
22	DU Bearing	1045+PTFE		316SS+PTFE
23	Thrust Washer	RPTFE		
24	Body Studs	ASTM A193-B7	ASTM A320-L7M	ASTM A193-B8M
25	Body Nuts	ASTM A194-2H	ASTM A194-7M	ASTM A194-8M
26	Gland Bolt	ASTM A193-B7	ASTM A320-L7M	ASTM A193-B8M
27	Trunnion Bolt	ASTM A193-B7	ASTM A320-L7M	ASTM A193-B8M
28	Parallel Pins	ASTM A276 Gr.316		
29	Parallel Pins	AISI 1045		ASTM A276 Gr.316
30	Spring Pin	AISI 1566		
31	Vent Valve	AISI 316 S/S		
32	Drain Plug	AISI 316 S/S		
33	Sealant Injection Fitting	ASTM A105N+Zn	A350 LF2 + Zn	ASTM A276 Gr.316
34	Anti-static Ball	AISI 316 S/S	A350 LF2 + Zn	ASTM A276 Gr.316
35	Anti-Static Spring	AISI 316 S/S		
36	Pipe	Carbon Steel + Zn		
37	Screw	Carbon Steel + Zn		
38	Gear Studs	ASTM A193-B7		ASTM A193-B8
39	Gear Nuts	ASTM A194-2H		ASTM A194-8
40	Worm Gear	ASTM A216 GR.WCB		

Standard materials of construction listed

VALVE SIZE		DIMENSION										Weight unit:lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	W / ØW*	
6"	INCH	19.00	4.25	8.50	14.50	8-Ø2.12	0.25	5.16	35.98	22.6	27.6 *	2013
	MM	482.6	108	215.9	368.3	8-Ø53.85	6.4	131	914	574	700 *	(913)
4"	INCH	14.00	3.00	6.19	10.75	8-Ø1.62	0.25	3.43	26.50	12.1	16 *	976
	MM	355.6	76.2	157.2	273.1	8-Ø41.15	6.4	87	673	308	406 *	(443)
3"	INCH	12.00	2.68	5.00	9.00	8-Ø1.38	0.25	2.44	22.76	10.6	16 *	521
	MM	305	68	127	228.6	8-Ø35.05	6.4	62	578	270	406 *	(236)
2"	INCH	9.25	2.0	3.62	6.75	8-Ø1.12	0.25	1.65	17.6	7.95	12 *	226
	MM	235	50.8	92	171.5	8-Ø28.45	6.4	42	451	202	305 *	(102.5)

Quadosphere® NPS 2"~6" CLASS 2500# Full Bore

CLASS 2500 TRUNNION MOUNTED BALL VALVE

REVISED : **B1**
DATE : **10-11-14**

DRAWING NUMBER
VMC-4702ABL
VMC-4702ABW

VALMATIC VALVE AND MANUFACTURING CORP.