



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.

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		
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	VITON A		
18	Gland O-Ring	VITON A		
19	Trunnion O-Ring	VITON A		
20	Body O-Ring	VITON A		
21	DU Bearing	1045+PTFE		316SS+PTFE
22	DU Bearing	1045+PTFE		316SS+PTFE
23	Thrust Washer	RPTFE		
24	Body Studs	ASTM A193-B7M	ASTM A320-L7M	ASTM A193-B8M
25	Body Nuts	ASTM A194-2HM	ASTM A194-7M	ASTM A194-8M
26	Gland Bolt	ASTM A193-B7M	ASTM A320-L7M	ASTM A193-B8M
27	Trunnion Bolt	ASTM A193-B7M	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		

Standard materials of construction listed

VALVE SIZE		DIMENSIONS								600#		WEIGHT unit:lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	w	
4"	INCH	10.75	1.5	6.19	8.5	8-Ø1.0	0.25	3.94	17.0	9.7	33.5	308
	MM	273	38.1	157.2	216	8-Ø25.4	6.4	100	432	246.5	850	(140)
3"	INCH	8.25	1.25	5.0	6.62	8-Ø0.88	0.25	2.91	14.0	9.0	27.6	176
	MM	210	32	127	168.1	8-Ø22.4	6.4	74	356	227.5	700	(80)
2"	INCH	6.50	1.0	3.62	5.0	8-Ø0.75	0.25	1.93	11.5	7.3	21.7	99
	MM	165	26	92	127	8-Ø19	6.4	49	292	186	550	(45)

Quadrosphere®	NPS 2"~4" CLASS 600# Full Bore	REVISED : B1
CLASS 600 TRUNNION MOUNTED BALL VALVE		DATE : 10-11-14
VAT'MATIC VALVE AND MANUFACTURING CORP.		DRAWING NUMBER VMC-4702A6L