



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 API608;
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	R-PTFE		
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								300#		WEIGHT unit:lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	W	
4"	INCH	10.0	1.25	6.19	7.88	8-Ø0.88	0.06	3.94	12.0	9.7	23.6	202
	MM	254	32	157.2	200	8-Ø22.4	1.5	100	305	246	600	(91.6)
3"	INCH	8.25	1.12	5.0	6.62	8-Ø0.88	0.06	2.91	11.13	8.2	17.7	122
	MM	210	29	127	168.5	8-Ø22.4	1.5	74	283	208	450	(55.3)
2"	INCH	6.50	0.88	3.62	5.0	8-Ø0.75	0.06	1.93	8.50	5.8	13.8	65
	MM	165	23	92	127	8-Ø19	1.5	49	216	146.5	350	(29.5)

Quadrosphere® NPS 2"~4" CLASS 300# Full Bore
 CLASS 300 TRUNNION MOUNTED BALL VALVE
 VAL'MATIC VALVE AND MANUFACTURING CORP.

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