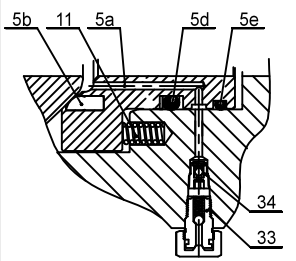
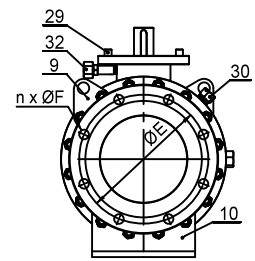
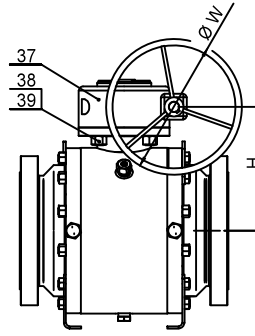


DETAIL B



DETAIL A-A



- 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 F51 + HC		
4	Stem	A182 F51		
5a	Seat Ring	A182 F51		
5b	Seat Insert	PEEK		
5d	O-Ring & Back-up ring	VITON A & PTFE		
5e	Seat Fire Safe Seal	Graphite		
6	Gland	ASTM A105	A350 LF2	A182 F316
7	Plate Trunnion	ASTM A105	A350 LF2	A182 F316
8	Gland Plate	ASTM A105	A350 LF2	A182 F316
9	Lifting Lug	Carbon Steel		Stainless Steel
10	Leg Plate	Carbon Steel		Stainless Steel
11	Spring	Inconel X750		
12	Key	AISI 1045		Stainless Steel
13	Stem Fire Safe Seal	Graphite		
14	Body Fire Safe Seal	SPW.316+Graphite		
15	Gland Fire Safe Seal	SPW.316+Graphite		
16	Stem O-Ring & Back-up ring	VITON A & PTFE		
17	Gland O-Ring	VITON A		
18	Body O-Ring	VITON A		
19	DU Bearing	1045+PTFE		316SS+PTFE
20	DU Thrust Bearing	1045+PTFE		316SS+PTFE
21	Thrust Washer	RPTFE		
22	DU Bearing	1045+PTFE		316SS+PTFE
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
30	Vent Valve	AISI 316 S/S		
31	Plug	AISI 316 S/S		
32	Sealant Injection Fitting	ASTM A105N +Zn	A350 LF2 + Zn	ASTM A276 Gr.316
33	Sealant Injection Fitting	ASTM A105N +Zn	A350 LF2 + Zn	ASTM A276 Gr.316
34	Check Valve	AISI 316 S/S		
35	Anti-static Ball	AISI 316 S/S		
36	Anti-Static Spring	AISI 316 S/S		
37	Gear Device	ASTM A216 GR.WCB		
38	Gear Studs	ASTM A193-B7		ASTM A193-B8
39	Gear Nuts	ASTM A194-2H		ASTM A194-8

Standard materials of construction listed

VALVE SIZE		DIMENSIONS							1500#			Weight unit:lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	w	
12"	INCH	26.5	4.88	15.0	22.50	16-Ø2.125	0.25	11.30	44.5	22.5	31.5	4150
	MM	673	124	381	571.5	16-Ø54	6.4	287	1130	570.5	800	(1882)
10"	INCH	23.0	4.25	12.75	19.0	12-Ø2.0	0.25	9.40	39	19.0	27.6	3968
	MM	584.2	108	324	482.6	12-Ø51	6.4	239	991	483	700	(1800)
8"	INCH	19.0	3.62	10.62	15.5	12-Ø1.75	0.25	7.60	32.75	17.0	27.6	1656
	MM	483	92.9	270	393.7	12-Ø45	6.4	192	832	431.5	700	(751)
6"	INCH	15.5	3.25	8.50	12.5	12-Ø1.5	0.25	5.67	27.75	14.5	23.6	1255
	MM	394	83	216	317.5	12-Ø39	6.4	144	705	369	600	(569)

Quadrosphere®	NPS 6"~12" CLASS 1500# Full Bore	REVISED : E1
CLASS 1500 TRUNNION MOUNTED BALL VALVE		DATE : 10-11-14
VALVE AND MANUFACTURING CORP.		DRAWING NUMBER VMC-4706AAW