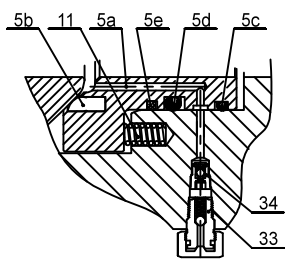
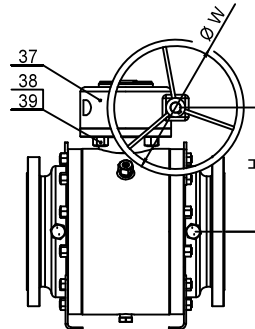
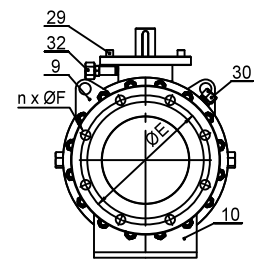


DETAIL B



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)	Qty
1	Body	ASTM A105	A350 LF2	A182 F316	1
2	End Adapters	ASTM A105	A350 LF2	A182 F316	2
3	QS Ball	A182 F316+HC			1
4	Stem	A182 F316+HC			1
5a	Seat Ring	A182 F316			2
5b	Seat Insert	R-PTFE			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

VALVE SIZE		DIMENSIONS									300#	WEIGHT unit:lb (Kg)
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	ØW	
24"	INCH	36.0	2.75	27.25	32.0	24-Ø1.62	0.06	23.25	45	32.5	31.5	7612
	MM	914	70	692.0	813	24-Ø41	1.5	591	1143	825	800	(3460)
20"	INCH	30.5	2.5	23.0	27.0	24-Ø1.38	0.06	19.25	39	29.5	31.5	4445
	MM	775	64	584	686	24-Ø35	1.5	489	991	749	800	(2016)
18"	INCH	28.0	2.38	21.0	24.75	24-Ø1.38	0.06	17.25	36	22.4	27.6	3733
	MM	711	61	533.0	628.5	24-Ø35	1.5	438	914	568.5	700	(1693)
16"	INCH	25.5	2.25	18.5	22.5	20-Ø1.38	0.06	15.25	33	21.2	27.6	2650
	MM	648	58	470.0	571.5	20-Ø35	1.5	387	838	539.5	700	(1202)
14"	INCH	23.0	2.12	16.25	20.25	20-Ø1.25	0.06	13.25	30	19.1	27.6	2149
	MM	584	54	413	514.5	20-Ø31.8	1.5	337	762	486	700	(975)

Quadrosphere®	NPS 14"~24" CLASS 300# Full Bore	REVISED :
CLASS 300 TRUNNION MOUNTED BALL VALVE		DATE : 10-11-14
VALVE AND MANUFACTURING CORP.		DRAWING NUMBER VMC-4714A3W