



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 API698;
 5. FIRE SAFE DESIGN PER API607.

VALVE SIZE		DIMENSIONS								900#		WEIGHT
NPS	UNIT	ØA	B	ØC	ØE	n-ØF	f	ØD	L	H (Ref.)	ØW	unit:lb (Kg)
24"	INCH	41	5.5	27.25	35.5	20-Ø2.62	0.25	22.5	61	33.9	31.5	12118
	MM	1041	139.7	692	901.7	20-Ø66.5	6.4	572	1549	861	800	(5497)
20"	INCH	33.75	4.25	23	29.5	20-Ø2.12	0.25	18.6	52	29.5	31.5	7628
	MM	857	108	584.2	749.3	20-Ø53.8	6.4	473	1321	749.3	800	(3460)
18"	INCH	31	4	21	27	20-Ø2	0.25	16.7	48	31.3	31.5	6195
	MM	787.4	101.6	533.4	685.8	20-Ø50.8	6.4	425	1219	795	800	(2810)
16"	INCH	27.75	3.5	18.5	24.25	20-Ø1.75	0.25	14.8	44.5	31.3	27.6	4431
	MM	705	88.9	470	616	20-Ø44.5	6.4	375	1130	795	700	(2010)
14"	INCH	25.25	3.38	16.25	22	20-Ø1.62	0.25	12.75	40.51	17.9	27.6	3542
	MM	641.4	85.9	412.8	558.8	20-Ø41	6.4	324	1029	455	700	(1606)

ITEM	PART NAME	STANDARD (NACE)	LOW TEMP (NACE)	STAINLESS STEEL (NACE)	Q'ty
1	Body	ASTM A105	A350 LF2	A182 F316	1
2	End Adapters	ASTM A105	A350 LF2	A182 F316	2
3	QS Ball	A182 F51+HC			1
4	Stem	A182 F51			1
5a	Seat Ring	A182 F51			2
5b	Seat Insert	PEEK			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

Quadrosphere® CLASS 900 TRUNNION MOUNTED BALL VALVE	NPS 14"~24" CLASS 900# Full Bore	REVISED : E1
VAL'MATIC VALVE AND MANUFACTURING CORP.		DATE : 10-11-14
DRAWING NUMBER VMC-4714A9W		