







1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AA1,AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or BS 5351 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 3" to 4" S/Pattern, 6" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AA1,AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
46	2 Valve to have facility for locking in the fully open or fully closed position				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A352 Gr LCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AB2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A352 Gr LCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AB2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RFL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 3)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48	3 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 8" Floating Ball, 10" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 3)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48	3 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				A2RFS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 300 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 6" Floating Ball, 8" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A352 Gr LCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	BB2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				B2RRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or BS 5351 (see note 2.)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 300 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10, 2" to 6" S/Pattern, 8" to 24" L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	2" to 6" Floating Ball, 8" to 24" Trunnion Mounted			
15	Valve Operator :	2" to 8" Lever			
16		10" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A352 Gr LCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	BB2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Floating Ball valves to be in accordance with BS5351, Trunnion Mounted valves in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				B2RFL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or ASME B16.34 (see note 2)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 1-1/2" Man Std, 2" to 24" ASME B16.10, L/Pattern			
12	Size Range :	1/2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	1/2" to 1-1/2" Floating Ball, 2" to 24" Trunnion Mounted			
15	Valve Operator :	1/2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22		1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 1/2" to 1-1/2" valve to be in accordance with ASME B16.34, 2" to 24" in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or ASME B16.34 (see note 2)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 1-1/2" Man Std, 2" to 24" ASME B16.10, L/Pattern			
12	Size Range :	1/2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	1/2" to 1-1/2" Floating Ball, 2" to 24" Trunnion Mounted			
15	Valve Operator :	1/2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22		1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 1/2" to 1-1/2" valve to be in accordance with ASME B16.34, 2" to 24" in accordance with API 6D				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	<b>Client</b> OGDCL				
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT				
4	<b>CONSTRUCTION</b>				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	3" to 24" ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	3" to 24" Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	<b>MATERIAL</b>				
20					
21	Body Material :	3" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	<b>MISCELLANEOUS</b>				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43					
44	<b>NOTES</b>				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET <b>BALL VALVE</b> <b>E2JFC</b>	Job No. 14-0102		Rev. 0
			Doc. No. 0102-PA-2008		
			Sheet 1 of 1		

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	3" to 24" ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	3" to 24" Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H(Cadmium Plated)			
30					
31	Corrosion Allowance :	3 mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				E2JRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D or ASME B16.34 (see note 2)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 1-1/2" Man Std, 2" to 24" ASME B16.10, L/Pattern			
12	Size Range :	1/2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	1/2" to 1-1/2" Floating Ball, 2" to 24" Trunnion Mounted			
15	Valve Operator :	1/2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22		1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30					
31	Corrosion Allowance :	6 mm (See Note 4)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4,FA3			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position.				
47	2 1/2" to 1-1/2" valve to be in accordance with ASME B16.34, 2" to 24" in accordance with API 6D.				
48	3 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirement.				
49	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
50	Valves shall remain operable in the corroded state.				
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JRN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	<b>Client</b> OGDCL				
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT				
4	<b>CONSTRUCTION</b>				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D or ASME B16.34 (see note 2)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 1-1/2" Man Std, 2" to 24" ASME B16.10, L/Pattern			
12	Size Range :	1/2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	1/2" to 1-1/2" Floating Ball, 2" to 24" Trunnion Mounted			
15	Valve Operator :	1/2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	<b>MATERIAL</b>				
20					
21	Body Material :	2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22		1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30					
31	Corrosion Allowance :	6 mm (See Note 4)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	<b>MISCELLANEOUS</b>				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4,EA5,FA3			
41	Marking:	MSS-SP-25			
42					
43					
44	<b>NOTES</b>				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position.				
47	2 1/2" to 1-1/2" valve to be in accordance with ASME B16.34, 2" to 24" in accordance with API 6D.				
48	3 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirement.				
49	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
50	Valves shall remain operable in the corroded state.				
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JFN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	3" to 24" ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	3" to 24" Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30					
31	Corrosion Allowance :	6 mm (See Note 3)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4,EA5			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirement.				
48	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				E2JFN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	3" to 24" ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	3" to 24" Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30					
31	Corrosion Allowance :	6 mm (See Note 3)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 Valve to have facility for locking in the fully open or fully closed position				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirement.				
48	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				E2JRN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 1)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 The carbon content shall be a maximum of 0.035%.				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirements				
48	3 Valve to have facility for locking in the fully open or fully closed position				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				E2JRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 900 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10, L/Pattern			
12	Size Range :	3" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Trunnion Mounted			
15	Valve Operator :	3" to 4" Lever			
16		6" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 1)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 The carbon content shall be a maximum of 0.035%.				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirements				
48	3 Valve to have facility for locking in the fully open or fully closed position				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET <b>BALL VALVE</b> <b>E2JFS</b>	Job No. 14-0102		Rev. <b>0</b>
			Doc. No. 0102-PA-2008		
			Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Reduced Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10, L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Trunnion Mounted			
15	Valve Operator :	2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 1)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 The carbon content shall be a maximum of 0.035%.				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirements				
48	3 Valve to have facility for locking in the fully open or fully closed position				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	API 6D			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 deg C to 200 Deg C			
9	End Connection and Rating :	Flanged to ASME B16.5, Class 1500 lb, RTJ			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10, L/Pattern			
12	Size Range :	2" to 24"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Trunnion Mounted			
15	Valve Operator :	2" to 3" Lever			
16		4" to 24" Bevel gear			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M (See Note 1)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem / Trunnion :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Springs :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43					
44	NOTES				
45					
46	1 The carbon content shall be a maximum of 0.035%.				
47	2 Materials for the valve shall be suitable for sour service in accordance with NACE MR-0175 requirements				
48	3 Valve to have facility for locking in the fully open or fully closed position				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2JFS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	Generally BS 5351			
8	Pressure/Temperature Rating :	2000 KPag @ minus 9 deg C, 1770 KPag @ 100 Deg C			
9	End Connection and Rating :	Threaded NPT Female, PN 20			
10	End Connection Finish :	ASME B 1.20.1			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 2"			
13	Body Design :	Split body (two piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Aluminium Bronze ASTM B148 C95800			
22					
23	Trim Material : Ball :	Aluminium Bronze ASTM B150 C63200			
24	Stem :	Aluminium Bronze ASTM B150 C63200			
25	Seat Ring :	N/A			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28					
29	Bolting Material :	N/A			
30					
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AA1			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				P2SFB	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -29°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch 160 (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2ZFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -29°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch 160 (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2TFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -46°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A350 LF2			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium plated)			
30	Pipe Pups :	Carbon Steel, ASTM A333 Gr. 6 Sch 160 (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AB2,BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2ZFL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -46°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A350 LF2			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (Cadmium plated)			
30	Pipe Pups :	Carbon Steel, ASTM A333 Gr. 6 Sch 160 (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AB2,BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2TFL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -46°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30	Pipe Pups :	Stainless Steel, ASTM A-312 TP316 Sch 80S (Note 2)			
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2ZFS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	API 602 800lb , -46°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 800lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30	Pipe Pups :	Stainless Steel, ASTM A-312 TP316 Sch 80S (Note 2)			
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48	3 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				M2TFS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -29°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch XXS (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2ZFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -29°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch XXS (Note 2)			
31	Corrosion Allowance :	3mm			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2TFC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -29°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch XXS (Note 2)			
31	Corrosion Allowance :	6mm (See Note 4)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4,EA5,FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2ZFN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -29°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)			
30	Pipe Pups :	Carbon Steel, ASTM A106 Gr. B Sch XXS (Note 2)			
31	Corrosion Allowance :	6mm (See Note 4)			
32	External Coating :	Finish Painted in accordance with Manufacturers Standard			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EA4,EA5,FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
49	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
50	Valves shall remain operable in the corroded state.				
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2TFN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	<b>Client</b> OGDCL				
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT				
4	<b>CONSTRUCTION</b>				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -46°C to 200°C			
9	End Connection and Rating :	Socket Welded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	<b>MATERIAL</b>				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 4)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30	Pipe Pups :	Stainless Steel, ASTM A-312 TP316 Sch 160 (Note 2)			
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	<b>MISCELLANEOUS</b>				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	<b>NOTES</b>				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup pieces fully welded to body at both ends of the valve.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		BALL VALVE		Doc. No.	0102-PA-2008
		F2ZFS		Sheet 1 of 1	
				Rev.	0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Ball, Full Bore			
7	Design Standard :	BS 5351			
8	Pressure/Temperature Rating :	ASME B16.34, -46°C to 200°C			
9	End Connection and Rating :	Socket Welded x Threaded to ASME B16.11, 1500lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturers Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Split body (two or three piece), Anti-static, Blowout-proof stem			
14	Trim Design :	Floating Ball			
15	Valve Operator :	Lever			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 4)			
22					
23	Trim Material : Ball :	Stainless steel 316			
24	Stem :	Stainless steel 316			
25	Seat Ring :	Stainless steel 316			
26	Seat Insert :	Reinforced PTFE			
27	Gaskets/Seals :	Manufacturers Standard suitable for service			
28	Spings :	Inconel X-750			
29	Bolting Material :	ASTM A193 B8M Class 2 / ASTM A194 8M			
30	Pipe Pups :	Stainless Steel, ASTM A-312 TP316 Sch 160 (Note 2)			
31	Corrosion Allowance :	Nil			
32	External Coating :	None			
33					
34					
35	MISCELLANEOUS				
36					
37	Testing :	API 598 or BS 6755 Pt1 Leakage Rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	API 607, API 6FA or BS 6755 Pt2			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 Valve to have facility for locking in the fully open or fully closed position				
46	2 Valves shall be supplied with 100mm pup piece fully welded to body at one end of the valve and other end				
47	of the valve shall be NPT Female.				
48	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
49	4 The carbon content shall be a maximum of 0.035%.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				BALL VALVE	
				F2TFS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	BS 5154 (MSS-SP-80)			
8	Pressure/Temperature Rating :	2000 kPag @ minus 9 degC, 1770 Kpag @ 100 Deg C			
9	End Connection and Rating :	Threaded NPT female, PN20			
10	End Connection Finish :	ASME B1.20.1			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 2"			
13	Body Design :	Union bonnet, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Aluminium Bronze ASTM B148 C95800			
22					
23	Trim Material : Gate :	Aluminium Bronze ASTM B148 C95800			
24	Stem :	Aluminium Bronze ASTM B150 C63200			
25	Seat Ring :	Integral			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	n/a			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AA1			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		P1SRB		Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	1/2" to 14" Handwheel			
16		16" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
22		2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
23					
24	Trim Material : Gate :	13% Cr (ASTM A182 Gr F6 or SS 410)			
25	Stem :	13% Cr			
26	Seat Ring /				
27	Back Seat Bush :	13% Cr Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AA1,AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A1RRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	API 602, minus 29 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Gate :	13% Cr (ASTM A182 Gr F6 or SS 410)			
24	Stem :	13% Cr			
25	Seat Ring :	13% Cr Stellite No.6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1ZRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Gate, Regular Bore		
7	Design Standard :		API 602		
8	Pressure/Temperature Rating :		API 602, minus 29 degC to 200 degC		
9	End Connection and Rating :		Socketweld x Threaded to ASME B16.11, 800 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted bonnet & gland, OS&Y, Rising stem		
14	Trim Design :		Solid Wedge		
15	Valve Operator :		Handwheel		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A105N		
22					
23	Trim Material : Gate :		13% Cr (ASTM A182 Gr F6 or SS 410)		
24	Stem :		13% Cr		
25	Seat Ring :		13% Cr Stellite No.6 Hardfaced (Renewable)		
26					
27					
28	Gland Packing :		Reinforced Graphite Filament		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1TRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A350 Gr LF2			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AB2,BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1ZRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 800 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A350 Gr LF2			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AB2,BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1TRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	1/2" to 14" Handwheel			
16		16" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A350 Gr LF2			
22		2" to 24" : Cast Carbon Steel ASTM A352 Gr LCB			
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A1RRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 2)			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No.6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 The carbon content shall be a maximum of 0.035%.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1ZRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 800 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 2)			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No.6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 The carbon content shall be a maximum of 0.035%.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				M1TRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	1/2" to 14" Handwheel			
16		16" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22		2" to 24" : Cast Stainless Steel ASTM A351 Gr CF8M (see note 3)			
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A1RRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 300 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	1/2" to 14" Handwheel			
16		16" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A350 Gr LF2			
22		2" to 24" : Cast Carbon Steel ASTM A352 Gr LCB			
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				B1RRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Gate, Regular Bore		
7	Design Standard :		API 602		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, 1500 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted bonnet & gland, OS&Y, Rising stem		
14	Trim Design :		Solid Wedge		
15	Valve Operator :		Handwheel		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A105N		
22					
23	Trim Material : Gate :		13% Cr (ASTM A182 Gr F6 or SS 410)		
24	Stem :		13% Cr		
25	Seat Ring :		13% Cr Stellite No.6 Hardfaced (Renewable)		
26					
27					
28	Gland Packing :		Reinforced Graphite Filament		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F1ZRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Gate :	13% Cr (ASTM A182 Gr F6 or SS 410)			
24	Stem :	13% Cr			
25	Seat Ring :	13% Cr Stellite No.6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F1TRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 2" ASME B16.10			
12	Size Range :	2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	1/2" to 1-1/2" Solid Wedge, 2" Flexible Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
22		2" : Cast Carbon Steel ASTM A216 Gr WCB			
23					
24	Trim Material : Gate :	13% Cr (ASTM A182 Gr F6 or SS 410)			
25	Stem :	13% Cr			
26	Seat Ring /				
27	Back Seat Bush :	13% Cr Stellite No.6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		F1JRC		Sheet 1 of 1	
					Rev. 0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	3" to 6" Handwheel			
16		8" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" :	Cast Carbon Steel ASTM A216 Gr WCB		
22					
23					
24	Trim Material : Gate :	13% Cr (ASTM A182 Gr F6 or SS 410)			
25	Stem :	13% Cr			
26	Seat Ring /				
27	Back Seat Bush :	13% Cr Stellite No.6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		E1JRC		Sheet 1 of 1	
				Rev.	0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 3)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4,FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
48	Valves shall remain operable in the corroded state.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET <b>GATE VALVE</b> <b>F1ZRN</b>	Job No. 14-0102		Rev. 0
			Doc. No. 0102-PA-2008		
			Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Carbon Steel ASTM A105N			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 3)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4,FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
48	Valves shall remain operable in the corroded state.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F1TRN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 24" ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	1/2" to 1-1/2" Solid Wedge, 2" to 24" Flexible Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
22		2" to 24" : Cast Carbon Steel ASTM A216 Gr WCB			
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 4)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4,FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		F1JRN		Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	3" to 6" Handwheel			
16		8" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" :	Cast Carbon Steel ASTM A216 Gr WCB		
22					
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 4)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
			VALVE DATA SHEET		Rev.
			GATE VALVE		
			E1JRN		
			Job No.	14-0102	0
			Doc. No.	0102-PA-2008	
			Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F1ZRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 602			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Solid Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22					
23	Trim Material : Gate :	Stainless Steel 316			
24	Stem :	Stainless Steel 316			
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F1TRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 2" ASME B16.10			
12	Size Range :	1/2" to 2"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	1/2" to 1-1/2" Solid Wedge, 2" Flexible Wedge			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Stainless Steel ASTM A182 Gr F316 (see note 4)			
22		2" : Cast Stainless Steel ASTM A351 Gr CF8M (see note 4)			
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		F1JRS		Sheet 1 of 1	
					Rev. 0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Gate, Regular Bore			
7	Design Standard :	API 600 or API 602 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 24"			
13	Body Design :	Bolted bonnet & gland, OS&Y, Rising stem			
14	Trim Design :	Flexible Wedge			
15	Valve Operator :	3" to 6" Handwheel			
16		8" to 24" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	3" to 24" :	Cast Stainless Steel ASTM A351 Gr CF8M(see note 4)		
22					
23					
24	Trim Material : Gate :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with API 602, 2" to 24" valves in accordance with API 600.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The carbon content shall be a maximum of 0.035%.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GATE VALVE		Doc. No.	0102-PA-2008
		E1JRS		Sheet 1 of 1	
					Rev.
					0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5154			
8	Pressure/Temperature Rating :	2000 kPag @ minus 9 degC, 1770kPag @ 100 degC			
9	End Connection and Rating :	Threaded NPT Female, PN20			
10	End Connection Finish :	ASME B1.20.1			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 2"			
13	Body Design :	Union bonnet, Rising stem			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Aluminium Bronze ASTM B148 C95800			
22					
23	Trim Material : Disc :	Aluminium Bronze ASTM B148 C95800			
24	Stem :	Aluminium Bronze ASTM B150 C63200			
25	Seat Ring :	Integral			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	n/a			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AA1			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				P4SRB	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL				
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT				
4	CONSTRUCTION						
5							
6	Valve Type :		Globe, Regular Bore				
7	Design Standard :		BS 5352 or BS 1873 (see note 1)				
8	Presure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC				
9	End Connection and Rating :		Flanged to ASME B16.5, 150 lb, Raised Face				
10	End Connection Finish :		Between 3.2 & 6.3 microns				
11	Face to Face Dimension :		ASME B16.10				
12	Size Range :		2" to 8"				
13	Body Design :		Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern				
14	Trim Design :		Renewable plug type disc				
15	Valve Operator :		Handwheel				
16							
17							
18							
19	MATERIAL						
20							
21	Body Material :		1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N				
22			2" to 8" : Cast Carbon Steel ASTM A216 Gr WCB				
23							
24	Trim Material : Disc :		13% Cr				
25	Stem :		13% Cr				
26	Seat Ring /						
27	Back Seat Bush :		13% Cr Stellite No.6 Hardfaced (Renewable)				
28	Gland Packing :		Reinforced Graphite Filament				
29	Bonnet Gasket :		Manufacturer's Standard suitable for service				
30							
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)				
32	Corrosion Allowance :		3 mm				
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard				
34							
35	MISCELLANEOUS						
36							
37	Testing :		BS 6755 Pt 1, leakage rate A				
38	Visual Inspection :		MSS-SP-55				
39	Fire Test :		n/a				
40	Applicable Piping Specs :		AA1, AA2				
41	Marking:		MSS-SP-25				
42							
43	NOTES						
44							
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" to 8" valves in accordance with BS 1873.						
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.						
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
0	8/28/2012	Issued for Construction	IN	IN	IN		
			VALVE DATA SHEET		Job No.	14-0102	Rev.
			GLOBE VALVE A4RRC		Doc. No.	0102-PA-2008	
					Sheet 1 of 1		
						0	


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 29 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A105N		
22				
23	Trim Material : Disc :	13% Cr		
24	Stem :	13% Cr		
25	Seat Ring :	13% Cr Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AA2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			M4ZRC	
			Job No. 14-0102	
			Doc. No. 0102-PA-2008	
			Rev. 0	
			Sheet 1 of 1	

1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 29 degC to 200 degC		
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A105N		
22				
23	Trim Material : Disc :	13% Cr		
24	Stem :	13% Cr		
25	Seat Ring :	13% Cr Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AA2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			M4TRC	
			Job No. 14-0102	
			Doc. No. 0102-PA-2008	
			Rev. 0	
			Sheet 1 of 1	

1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A350 Gr LF2		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AB2,BB2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			M4ZRL	
			Job No. 14-0102	
			Doc. No. 0102-PA-2008	
			Sheet 1 of 1	
			Rev. 0	


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A350 Gr LF2		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AB2,BB2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			M4TRL	
			Job No. 14-0102	
			Doc. No. 0102-PA-2008	
			Rev. 0	
			Sheet 1 of 1	


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352 or BS 1873 (see note 1)		
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :	Flanged to ASME B16.5, 150 lb, Raised Face		
10	End Connection Finish :	Between 3.2 & 6.3 microns		
11	Face to Face Dimension :	ASME B16.10		
12	Size Range :	2" to 8"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A350 Gr LF2		
22		2" to 8" : Cast Carbon Steel ASTM A352 Gr LCB		
23				
24	Trim Material : Disc :	Stainless Steel 316		
25	Stem :	Stainless Steel 316		
26	Seat Ring /			
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A320 Gr L7 / A194 Gr 7 (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AB2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" to 8" valves in accordance with BS 1873.			
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
		VALVE DATA SHEET		Job No. 14-0102
		GLOBE VALVE		Rev. 0
		A4RRL		
		Doc. No. 0102-PA-2008		
		Sheet 1 of 1		


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 2)		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :	Nil		
33	External Coating :	None		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AC		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 The carbon content shall be a maximum of 0.035%.			
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			M4ZRS	
			Job No.	14-0102
			Doc. No.	0102-PA-2008
			Sheet 1 of 1	
			Rev.	0





1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 800 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 2)		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :	Nil		
33	External Coating :	None		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	AC		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 The carbon content shall be a maximum of 0.035%.			
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				


0	8/28/2012	Issued for Construction	IN	IN	IN
			VALVE DATA SHEET <b>GLOBE VALVE</b> <b>M4TRS</b>		Job No. 14-0102 Doc. No. 0102-PA-2008 Sheet 1 of 1
					Rev. 0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352 or BS 1873 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 150 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22		2" to 8" : Cast Stainless Steel ASTM A351 Gr CF8M (see note 3)			
23					
24	Trim Material : Disc :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	AC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" to 8" valves in accordance with BS 1873.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
			VALVE DATA SHEET		Rev.
			GLOBE VALVE		
			A4RRS		
			Job No.	14-0102	0
			Doc. No.	0102-PA-2008	
			Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352 or BS 1873 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 300 lb, Raised Face			
10	End Connection Finish :	Between 3.2 & 6.3 microns			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	2" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A350 Gr LF2			
22		2" to 8" : Cast Carbon Steel ASTM A352 Gr LCB			
23					
24	Trim Material : Disc :	Stainless Steel 316 (see note 5)			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite 6 Hardfaced (Renewable) (see note 5)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A320 Gr L7M / A194 Gr 7M			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	BB2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" to 8" valves in accordance with BS 1873.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48	3				
49	4				
50	5				
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				B4RRL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A105N		
22				
23	Trim Material : Disc :	13% Cr		
24	Stem :	13% Cr		
25	Seat Ring :	13% Cr Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)		
32	Corrosion Allowance :	3 mm		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	EA2		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			F4ZRC	
			Job No. 14-0102	
			Doc. No. 0102-PA-2008	
			Sheet 1 of 1	
			Rev. 0	


1	Client		OGDCL				
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT				
4	CONSTRUCTION						
5							
6	Valve Type :		Globe, Regular Bore				
7	Design Standard :		BS 5352				
8	Presure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC				
9	End Connection and Rating :		Socketweld x Threaded to ASME B16.11, 1500 lb				
10	End Connection Finish :		ASME B16.11				
11	Face to Face Dimension :		Manufacturer's Standard				
12	Size Range :		1/2" to 1-1/2"				
13	Body Design :		Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern				
14	Trim Design :		Renewable plug type disc				
15	Valve Operator :		Handwheel				
16							
17							
18							
19	MATERIAL						
20							
21	Body Material :		Forged Carbon Steel ASTM A105N				
22							
23	Trim Material : Disc :		13% Cr				
24	Stem :		13% Cr				
25	Seat Ring :		13% Cr Stellite No. 6 Hardfaced (Renewable)				
26							
27							
28	Gland Packing :		Reinforced Graphite Filament				
29	Bonnet Gasket :		Manufacturer's Standard suitable for service				
30							
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)				
32	Corrosion Allowance :		3 mm				
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard				
34							
35	MISCELLANEOUS						
36							
37	Testing :		BS 6755 Pt 1, leakage rate A				
38	Visual Inspection :		MSS-SP-55				
39	Fire Test :		n/a				
40	Applicable Piping Specs :		EA2				
41	Marking:		MSS-SP-25				
42							
43	NOTES						
44							
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.						
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
	0	8/28/2012	Issued for Construction		IN	IN	IN
			VALVE DATA SHEET GLOBE VALVE F4TRC		Job No. 14-0102		Rev.  0
Doc. No. 0102-PA-2008							
Sheet 1 of 1							


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352 or BS 1873 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 2" ASME B16.10			
12	Size Range :	2"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
22		2": Cast Carbon Steel ASTM A216 Gr WCB			
23					
24	Trim Material : Disc :	13% Cr			
25	Stem :	13% Cr			
26	Seat Ring /				
27	Back Seat Bush :	13% Cr Stellite No.6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" valves in accordance with BS 1873.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				F4JRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 1873			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	3" to 4" Handwheel			
16		6" to 8" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A216 Gr WCB			
22					
23					
24	Trim Material : Disc :	13% Cr			
25	Stem :	13% Cr			
26	Seat Ring /				
27	Back Seat Bush :	13% Cr Stellite No.6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7 / A194 Gr 2H (CADMIUM PLATED)			
32	Corrosion Allowance :	3 mm			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA2			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				E4JRC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A105N		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)		
32	Corrosion Allowance :	6 mm (See Note 3)		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	EA4,FA3		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.			
47	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.			
48	Valves shall remain operable in the corroded state.			
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			F4ZRN	
			Job No.	14-0102
			Doc. No.	0102-PA-2008
			Sheet 1 of 1	
			Rev.	0





1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Carbon Steel ASTM A105N		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)		
32	Corrosion Allowance :	6 mm (See Note 3)		
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	EA4,FA3		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.			
47	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.			
48	Valves shall remain operable in the corroded state.			
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
			VALVE DATA SHEET	
			GLOBE VALVE	
			F4TRN	
			Job No.	14-0102
			Doc. No.	0102-PA-2008
			Sheet 1 of 1	
			Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352 or BS 1873 (see note 1)			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 8" ASME B16.10			
12	Size Range :	2" to 24"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Carbon Steel ASTM A105N			
22		2" to 8" : Cast Carbon Steel ASTM A216 Gr WCB			
23					
24	Trim Material : Disc :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 4)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4, FA3			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 1/2" to 1-1/2" valves to be in accordance with BS 5352, 2" to 8" valves in accordance with BS 1873.				
46	2 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
47	3 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
48	4 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
49	Valves shall remain operable in the corroded state.				
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				F4JRN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 1873			
8	Pressure/Temperature Rating :	ASME B16.34, minus 29 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	3" to 4" Handwheel			
16		6" to 8" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Carbon Steel ASTM A216 Gr WCB			
22					
23					
24	Trim Material : Disc :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B7M / A194 Gr 2HM (PTFE COATED)			
32	Corrosion Allowance :	6 mm (See Note 3)			
33	External Coating :	Finish Painted in accordance with Manufacturer's Standard			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	EA4			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
48	Valves shall remain operable in the corroded state.				
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
0	8/28/2012	Issued for Construction	IN	IN	IN
Rev.	Date	Description	Prepared	Checked	Approved
		VALVE DATA SHEET		Job No.	14-0102
		GLOBE VALVE		Doc. No.	0102-PA-2008
		E4JRN		Sheet 1 of 1	
				Rev.	0

1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :	Nil		
33	External Coating :	None		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	EC		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.			
47	3 The carbon content shall be a maximum of 0.035%.			
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
		VALVE DATA SHEET		Job No. 14-0102
		GLOBE VALVE		Rev. 0
		F4ZRS		
		Doc. No. 0102-PA-2008		
		Sheet 1 of 1		


1	<b>Client</b> OGDCL			
2	<b>Project</b> GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	<b>CONSTRUCTION</b>			
5				
6	Valve Type :	Globe, Regular Bore		
7	Design Standard :	BS 5352		
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb		
10	End Connection Finish :	ASME B16.11		
11	Face to Face Dimension :	Manufacturer's Standard		
12	Size Range :	1/2" to 1-1/2"		
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern		
14	Trim Design :	Renewable plug type disc		
15	Valve Operator :	Handwheel		
16				
17				
18				
19	<b>MATERIAL</b>			
20				
21	Body Material :	Forged Stainless Steel ASTM A182 Gr F316 (see note 3)		
22				
23	Trim Material : Disc :	Stainless Steel 316		
24	Stem :	Stainless Steel 316		
25	Seat Ring :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
26				
27				
28	Gland Packing :	Reinforced Graphite Filament		
29	Bonnet Gasket :	Manufacturer's Standard suitable for service		
30				
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :	Nil		
33	External Coating :	None		
34				
35	<b>MISCELLANEOUS</b>			
36				
37	Testing :	BS 6755 Pt 1, leakage rate A		
38	Visual Inspection :	MSS-SP-55		
39	Fire Test :	n/a		
40	Applicable Piping Specs :	EC		
41	Marking:	MSS-SP-25		
42				
43	<b>NOTES</b>			
44				
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.			
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.			
47	3 The carbon content shall be a maximum of 0.035%.			
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
0	8/28/2012	Issued for Construction	IN	IN
		VALVE DATA SHEET		Job No. 14-0102
		GLOBE VALVE		Rev. 0
		F4TRS		
		Doc. No. 0102-PA-2008		
		Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 1873			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 1500 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	1/2" to 3/4" Manufacturer's Standard; 1" to 8" ASME B16.10			
12	Size Range :	2" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	1/2" to 4" Handwheel			
16		6" to 8" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	1/2" to 1-1/2" : Forged Stainless Steel ASTM A182 Gr F316 (see note 3)			
22		2" to 8" : Cast Stainless Steel ASTM A351 Gr CF8M (see note 3)			
23					
24	Trim Material : Disc :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	N/A			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				F4JRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 1873			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Flanged to ASME B16.5, 900 lb, Ring Type Joint			
10	End Connection Finish :	ASME B16.5			
11	Face to Face Dimension :	ASME B16.10			
12	Size Range :	3" to 8"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	3" to 4" Handwheel			
16		6" to 8" Bevel gear (weatherproof)			
17					
18					
19	MATERIAL				
20					
21	Body Material :	Cast Stainless Steel ASTM A351 Gr CF8M(see note 3)			
22					
23					
24	Trim Material : Disc :	Stainless Steel 316			
25	Stem :	Stainless Steel 316			
26	Seat Ring /				
27	Back Seat Bush :	Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)			
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	N/A			
40	Applicable Piping Specs :	EC			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47	3 The carbon content shall be a maximum of 0.035%.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				E4JRS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Duplex Stainless Steel ASTM A182 Gr F51			
22					
23	Trim Material : Disc :	Duplex Stainless Steel UNS S31803			
24	Stem :	Duplex Stainless Steel UNS S31803			
25	Seat Ring :	Duplex Stainless Steel UNS S31803 Stellite No.6 Hardfaced(Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	FE			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				F4ZRD	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :	Globe, Regular Bore			
7	Design Standard :	BS 5352			
8	Pressure/Temperature Rating :	ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :	Socketweld x Threaded to ASME B16.11, 1500 lb			
10	End Connection Finish :	ASME B16.11			
11	Face to Face Dimension :	Manufacturer's Standard			
12	Size Range :	1/2" to 1-1/2"			
13	Body Design :	Bolted Bonnet, OS&Y, Rising Stem, Straight Pattern			
14	Trim Design :	Renewable plug type disc			
15	Valve Operator :	Handwheel			
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :	Forged Duplex Stainless Steel ASTM A182 Gr F51			
22					
23	Trim Material : Disc :	Duplex Stainless Steel UNS S31803			
24	Stem :	Duplex Stainless Steel UNS S31803			
25	Seat Ring :	Duplex Stainless Steel UNS S31803 Hardfaced(Renewable)			
26					
27					
28	Gland Packing :	Reinforced Graphite Filament			
29	Bonnet Gasket :	Manufacturer's Standard suitable for service			
30					
31	Bolting Material :	ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M			
32	Corrosion Allowance :	Nil			
33	External Coating :	None			
34					
35	MISCELLANEOUS				
36					
37	Testing :	BS 6755 Pt 1, leakage rate A			
38	Visual Inspection :	MSS-SP-55			
39	Fire Test :	n/a			
40	Applicable Piping Specs :	FE			
41	Marking:	MSS-SP-25			
42					
43	NOTES				
44					
45	1 All valves 1" and above are to be capable of being locked in fully open or closed positions.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GLOBE VALVE	
				F4ZRD	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 150 lb, Raised Face flanges		
10	End Connection Finish :		Between 3.2 & 6.3 microns		
11	Face to Face Dimension :		API 594		
12	Size Range :		2" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A216 Gr WCB + 13% Cr on seating area		
22			or Forged Carbon Steel ASTM A105N + 13% Cr on seating area		
23					
24	Trim Material : Plates		13% Cr		
25	Hinge / Stop Pins :		13% Cr		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AA1,AA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A5RWC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 150 lb, Raised Face flanges		
10	End Connection Finish :		Between 3.2 & 6.3 microns		
11	Face to Face Dimension :		API 594		
12	Size Range :		2" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A352 Gr LCB + SS316 on seating area		
22			or Forged Carbon Steel ASTM A350 Gr LF2 + SS316 on seating area		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AB2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A5RWL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 150 lb, Raised Face flanges		
10	End Connection Finish :		Between 3.2 & 6.3 microns		
11	Face to Face Dimension :		API 594		
12	Size Range :		2" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Stainless Steel ASTM A351 Gr CF8M (See Note 1)		
22			or Forged Stainless Steel ASTM A182 Gr F316 (See Note 1)		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AC		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 The carbon content shall be a maximum of 0.035%.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				A5RWS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL			
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT			
4	CONSTRUCTION					
5						
6	Valve Type :		Check			
7	Design Standard :		API 594			
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC			
9	End Connection and Rating :		Mounted between ASME B16.5, Class 300 lb, Raised Face flanges			
10	End Connection Finish :		Between 3.2 & 6.3 microns			
11	Face to Face Dimension :		API 594			
12	Size Range :		2" to 24"			
13	Body Design :		Wafer			
14	Trim Design :		Dual plate - spring loaded			
15	Valve Operator :		n/a			
16						
17						
18						
19	MATERIAL					
20						
21	Body Material :		Cast Carbon Steel ASTM A352 Gr LCB + SS316 on seating area			
22			or Forged Carbon Steel ASTM A350 Gr LF2 + SS316 on seating area			
23						
24	Trim Material : Plates		Stainless Steel 316			
25	Hinge / Stop Pins :		Stainless Steel 316			
26	Springs :		Inconel X-750			
27						
28	Gland Packing :		n/a			
29	Bonnet Gasket :		n/a			
30						
31	Bolting Material :		n/a			
32	Corrosion Allowance :		3 mm			
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard			
34						
35	MISCELLANEOUS					
36						
37	Testing :		API 598			
38	Visual Inspection :		MSS-SP-55			
39	Fire Test :		n/a			
40	Applicable Piping Specs :		BB2			
41	Marking:		MSS-SP-25			
42						
43	NOTES					
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
	0	8/28/2012	Issued for Construction	IN	IN	
	Rev.	Date	Description	Prepared	Checked	
				Job No. 14-0102		Rev. 0
				Doc. No. 0102-PA-2008		
				Sheet 1 of 1		
	VALVE DATA SHEET GATE VALVE B5RWL					


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 1500 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		2"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A216 Gr WCB + 13% Cr on seating area		
22			or Forged Carbon Steel ASTM A105N + 13% Cr on seating area		
23					
24	Trim Material : Plates		13% Cr		
25	Hinge / Stop Pins :		13% Cr		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F5JWC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 900 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		3" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A216 Gr WCB + 13% Cr on seating area		
22			or Forged Carbon Steel ASTM A105N + 13% Cr on seating area		
23					
24	Trim Material : Plates		13% Cr		
25	Hinge / Stop Pins :		13% Cr		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				E5JWC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
				Sheet 1 of 1	


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 1500 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		2" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A216 Gr WCB + SS316 on seating area		
22			or Forged Carbon Steel ASTM A105N + SS316 on seating area		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		6 mm (See Note 2)		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA4,FA3		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
46	2 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
47	Valves shall remain operable in the corroded state.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F5JWN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0





1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 900 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		3" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Carbon Steel ASTM A216 Gr WCB + SS316 on seating area		
22			or Forged Carbon Steel ASTM A105N + SS316 on seating area		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		6 mm (See Note 2)		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA4		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
46	2 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
47	Valves shall remain operable in the corroded state.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				E5JWN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 1500 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		2"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Stainless Steel ASTM A351 Gr CF8M (See Note 2)		
22			or Forged Stainless Steel ASTM A182 Gr F316 (See Note 2)		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EC		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
46	2 The carbon content shall be a maximum of 0.035%.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				GATE VALVE	
				F5JWS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 594		
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :		Mounted between ASME B16.5, Class 900 lb, Ring Type Joint flanges		
10	End Connection Finish :		ASME B16.5		
11	Face to Face Dimension :		API 594		
12	Size Range :		3" to 24"		
13	Body Design :		Wafer		
14	Trim Design :		Dual plate - spring loaded		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Cast Stainless Steel ASTM A351 Gr CF8M (See Note 2)		
22			or Forged Stainless Steel ASTM A182 Gr F316 (See Note 2)		
23					
24	Trim Material : Plates		Stainless Steel 316		
25	Hinge / Stop Pins :		Stainless Steel 316		
26	Springs :		Inconel X-750		
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EC		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
46	2 The carbon content shall be a maximum of 0.035%.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
GATE VALVE					
E5JWS					
			Job No.	14-0102	Rev.
			Doc. No.	0102-PA-2008	0
			Sheet 1 of 1		

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		BS 5154		
8	Pressure/Temperature Rating :		2000 kPag @ minus 9 degC, 1770 Kpag @ 100 Deg C		
9	End Connection and Rating :		Threaded NPT female, PN20		
10	End Connection Finish :		ASME B1.20.1		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		One piece, screwed cap		
14	Trim Design :		Piston Lift		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Aluminium Bronze ASTM B148 C95800		
22					
23	Trim Material : Piston :		Aluminium Bronze ASTM B148 C95800		
24	Seat Ring :		Integral		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		n/a		
30					
31	Bolting Material :		n/a		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AA1		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				P5SPB	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		API 602, minus 29 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, Class 800 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A105N		
22					
23	Trim Material : Piston :		13% Cr		
24	Seat Ring :		13% Cr Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
CHECK VALVE					
M5ZPC					
			Job No.	14-0102	Rev.
			Doc. No.	0102-PA-2008	0
			Sheet 1 of 1		


1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, Class 800 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A350 Gr LF2		
22					
23	Trim Material : Piston :		Stainless Steel 316		
24	Seat Ring :		Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A320 Gr L7 / A194 Gr 7 (Cadmium Plated)		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AB2,BB2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				M5ZPL	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		API 602, minus 46 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, Class 800 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Stainless Steel ASTM A182 Gr F316 (See Note 1)		
22					
23	Trim Material : Piston :		Stainless Steel 316		
24	Seat Ring :		Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		AC		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 The carbon content shall be a maximum of 0.035%.				
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				M5ZPS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, Class 1500 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A105N		
22					
23	Trim Material : Piston :		13% Cr		
24	Seat Ring :		13% Cr Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B7 / A194 Gr 2H (Cadmium Plated)		
32	Corrosion Allowance :		3 mm		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA2		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				F5ZPC	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
				Sheet 1 of 1	



1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		ASME B16.34, minus 29 degC to 200 degC		
9	End Connection and Rating :		Socketweld to ASME B16.11, Class 1500 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Carbon Steel ASTM A105N		
22					
23	Trim Material : Piston :		Stainless Steel 316		
24	Seat Ring :		Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B7M / A194 Gr 2HM (PTFE Coated)		
32	Corrosion Allowance :		6 mm (See Note 2)		
33	External Coating :		Finish Painted in accordance with Manufacturer's Standard		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		EA4,FA3		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
46	2 The Vendor shall confirm that the valve body wall thickness incorporates a corrosion allowance of 6mm.				
47	Valves shall remain operable in the corroded state.				
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				F5ZPN	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Sheet 1 of 1	
				Rev.	0

1	Client		OGDCL		
2	Project		GAS PLANT FACILITY DEVELOPMENT PROJECT		
4	CONSTRUCTION				
5					
6	Valve Type :		Check		
7	Design Standard :		API 602, BS 5352		
8	Pressure/Temperature Rating :		ASME B16.34, minus 46 degC to 200 degC		
9	End Connection and Rating :		Threaded to ASME B16.11, Class 1500 lb		
10	End Connection Finish :		ASME B16.11		
11	Face to Face Dimension :		Manufacturer's Standard		
12	Size Range :		1/2" to 1-1/2"		
13	Body Design :		Bolted Cover		
14	Trim Design :		Piston type		
15	Valve Operator :		n/a		
16					
17					
18					
19	MATERIAL				
20					
21	Body Material :		Forged Stainless Steel ASTM A182 Gr F316 (See Note 1)		
22					
23	Trim Material : Piston :		Stainless Steel 316		
24	Seat Ring :		Stainless Steel 316 Stellite No. 6 Hardfaced (Renewable)		
25	Spring :		Inconel X-750		
26					
27					
28	Gland Packing :		n/a		
29	Bonnet Gasket :		Manufacturer's Standard suitable for service		
30					
31	Bolting Material :		ASTM A193 Gr B8M Class 2 / ASTM A194 Gr 8M		
32	Corrosion Allowance :		Nil		
33	External Coating :		None		
34					
35	MISCELLANEOUS				
36					
37	Testing :		API 598		
38	Visual Inspection :		MSS-SP-55		
39	Fire Test :		n/a		
40	Applicable Piping Specs :		FD		
41	Marking:		MSS-SP-25		
42					
43	NOTES				
44					
45	1 The carbon content shall be a maximum of 0.035%.				
46	2 Materials for the valve shall be suitable for NACE MR-0175 requirements.				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
	0	8/28/2012	Issued for Construction	IN	IN
	Rev.	Date	Description	Prepared	Checked
				VALVE DATA SHEET	
				CHECK VALVE	
				F5SPS	
				Job No.	14-0102
				Doc. No.	0102-PA-2008
				Rev.	0
	Sheet 1 of 1				