GUJARAT GAS

DATASHEET

FOR

SOCKET WELDED & THREADED BALL VALVE (BELOW 2”-800#)

Document No.: GGL/TS/DS/BV-800 /001,REV-00

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Sr. No.	Description	Specification
GENERAL		
1	Valve Size	Below 2"
2	ANSI Rating	ANSI 800#
3	Design Standard	BS EN ISO 17292
4	Corrosion allowance	1.5 mm
5	Design Factor	0.4
SERVICE CONDITIONS		
6	Service	Natural Gas
7	Design Pressure	138 Bar-g
8	Design Temperature	1. 0 to 65°C (for Operating pressure 19 bar-g) 2. -10 to 65°C (for Operating pressure 4 bar-g & 98 bar-g)
9	Operating Pressure(Maximum)	Up to 19 Bar-g / 42 Bar-g/ 90 Bar-g
10	Operating temp.	1. 0 to 50°C (for Operating pressure 19 bar-g) 2. -10 to 50°C (for Operating pressure 49 bar-g & 99 bar-g)
VALVE CONSTRUCTION DESIGN		
11	Location	Above Ground
12	Valve Type(Floating/Trunion mounted)	Floating
13	Bore(Full/Reduced)	Full Bore
14	End Connections	1. Socket welded as per ASME B 16.11 2. Threaded as per ASME B 1.20.1
15	Locking arrangement	Locking facility in full open position
16	Shutoff Class	VI
17	Construction	Two or Three Piece construction / Bolted
18	Bi- Directional	Required
19	Double Block and Bleed	Not Required
20	Blow out proof stem	Required
21	Anti-static device	Required
22	Operation	Lever Operated
23	Open and close Ball position indicator	Required
VALVE MATERIAL SPECIFICATION		
	Part	Specified Material
24	Body	ASTM A 350 Gr. LF2
25	Ball (SOLID)	ASTM A479 Gr. SS 316/ASTM A 351 CF8M+ 80 micron ENP
26	Seat	RPTFE
27	Stem (ANTI BLOW OUT)	ASTM A479 Gr. SS316 (NO CASTING)
28	Stem seals	As per Manufacturer's recommendation
29	Stud bolts / Nuts	ASTM A 320 Gr. L7/ A 194 Gr. 7, Hot Dipped Galvanized as per ASTM A 153
30	Anti-static device	SS302

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31	Gland Packing		GRAFOIL
VALVE TESTING REQUIREMENT			
32	Fire Resistant Design Requirement		As per API 6FA/API 607 / BS : 6755 (Part - II) BS EN ISO 10497/API-RP-6FA
33	Hydrostatic Test	Body	1.5 X Design Pressure
		Seat	1.1 X Design Pressure
34	Air Seat Test		7 Bar-g
35	Anti Static Testing Requirement		Direct current <12V and resistance on dry valves shall not exceed 10 Ohms
36	Charpy Impact Test		Body & side pieces, Ball & seat, Stem and all pressure containing parts as per the MOC standard and design temperature mentioned above
37	Hardness test		As per Material of construction standard
38	NDE Test		Refer Note 8
39	Marking & Painting Spec.		SSPC-SP/MSS SP-25

NOTE:-

1. Inspection and Testing shall be as per this Data Sheet, GGL Specification, BS EN 17292 and API 598. . Inspection shall be carried out by TPI at Manufacture's work as per QAP approved by GGL
2. Vendor to submit GA drawing and QAP for approval prior to commencement of manufacturing
3. Short pattern valves are not acceptable.
4. Valves shall be lever operated
5. Test Certificates shall be reviewed by client/TPIA as per approved QAP, GA drawing, Inspection & Test certificates including NDE.
6. Bidder shall clearly mention deviation, if any.
7. 100% of valve shall undergo hydro test of seat, soft seat shall be replaced after hydro test. After that all valves shall be air tested.

Note 8: Non Destructive Examination

- All forgings including body shall be ultrasonically examined in accordance with the procedure and acceptance standard of Annexure E of ASME B 16.34.
- Full inspection by radiography shall be carried out on all welds of pressure containing parts. Acceptance criteria shall be as per ASME B31.3/ ASME B31.8 and API 1104 as applicable.
- All finished weld ends subject to welding in field shall be 100% ultrasonically tested for lamination type defects for a distance of 50 mm from the end. Laminations shall not be acceptable.
- After final machining, all bevel surfaces shall be inspected by dye penetrate or wet - magnetic particle methods. All defects longer than 6.35 mm shall be rejected. Reject able defects must be removed. Weld repair of bevel surface is not permitted.

Vipul N.
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