GUJARAT GAS

DATA SHEET FOR FLANGES AND BLIND FOR

SRM, IMS, DRS, CNG-PRS & IPRS

Approved

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Sr. No.	**Description**	**Specification**
GENERAL		
1	Size	0.5'' to 24'' NPS
2	Pressure Rating	150#,300#,600#
3	Design Standard	ASME B 16.5/ASME B 16.47/ASME B 16.48
4	Corrosion allowance	1.5MM
5	Design Factor	0.4
SERVICE CONDITIONS		
6	Service Fluid	Natural Gas
7	Design Pressure	150#- 19 Barg, 300# - 49 Barg, 600# - 98 Barg
8	Design Temperature	1. 150#/300# = 0 to 65 °C 2. 600#= -10 to 65 °C
9	Operating Pressure (Maximum)	19 barg / 42 barg / 90 barg
10	Operating temp.	1. 150#/300# = 0 to 50 °C 2. 600#= -10 to 50 °C
CONSTRUCTION DESIGN		
11	Allowable Stress	ASME B 31.8
12	Flange Type	WNRF/BLRF/ SORF / BLIND
13	Flange Facing	Raised face (125 AARH)
14	Bevel End & Bevel Angle for WNRF	ASME B 31.8
MATERIAL SPECIFICATION		
	Part	**Specified Material**
15	Material of Construction	1. 150#/300# = ASTM A 105 2. 600# = ASTM A 350 Gr. LF2, MSS SP 44 Gr.F52, MSS SP 44 Gr.F65 The carbon content is greater than 0.12% in product analysis, the CE (IIW) shall not exceed 0.40% and if The carbon content is less than 0.12% in product analysis, the CE (Pcm) shall not exceed 0.20%.

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TESTING & INSPECTION		
16	Charpy Impact Test	As per Material of construction standard In case Charpy test value not specified in relevant codes and standards than Charpy shall be carried out at 0 °C and absorbed energy value shall be average 35 j and minimum 28 j respectively.
17	Hardness test	• ASTM A 105 – 137 to 187 HB. • ASTM A 350 Gr. LF2- 197HBW max • MSS SP 44- 235 BHN max In case hardness value not given in MOC then hardness value shall not exceed 235 HBN
18	Tensile test	As per relevant code and standard
19	Yield Strength	As per relevant code and standard
20	Elongation	As per relevant code and standard
21	UT	100% Surface
22	MPT	100% at Bevel Ends
23	DPT	100% bevel end for 50 mm width
24	Marking	MSS SP 25 and GGL Specification
NOTE:-		
1. Bidder shall clearly mention deviation, if any.		
2. Inspection and Testing shall be as per this Data Sheet, GGL Specification. Inspection shall be carried out by TPI at Manufacture's work as per QAP approved by GGL		
3. Vendor to submit QAP for approval prior to commencement of manufacturing		

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