



DATASHEET OF PRESSURE REGULATING VALVE (PRV)

Document No.: GGL/TS/DS/PRV-PRS/2019/001

1	Removal of LTCS material from 300#	
0	Issued for Approval	28.12.2017
REV. NO	REVISION DESCRIPTION	DATE OF ISSUE

NAME OF COMPANY	GUJARAT GAS LTD.		
	NAME	DESIGNATION	SIGN & DATE
Technical Committee (PRI)			
Approved By			



DATASHEET OF PRESSURE REGULATING VALVE (PRV)

Sr. No.	Technical Description	Specifications
		GLOBE TYPE
General		
1	Tag No.	Vendor to Furnish
2	Valve Inlet Size	Vendor to Furnish
3	Valve Outlet Size	Vendor to Furnish
4	Service	Downstream Pressure Reduction
5	Governing Standard	EN 334
6	Type of SSV	Globe Type, Pilot Operated
7	Operation	Regulating the Downstream Pressure
Service (To be selected from below as per the process parameters mentioned by the user)		
8	Fluid	Natural Gas
9	Flow Capacity	As per the user requirement)
10	Design Pressure & Class	150#- 19 Barg, 300# - 49 Barg, 600# - 98 Barg
11	Design Temperature	150# & 300#: 0 to 65 °C 600# : -10 to 65 °C
12	Inlet Operating Pressure	10 to 40 Barg (or as per user requirement/process parameter)
13	Outlet Operating Pressure	1.5 to 6 Barg (or as per user requirement/ process parameter)
14	Operating Temperature	150# & 300#: 0 to 50 °C 600# : -10 to 50 °C
15	Accuracy (%)	2.5 %
16	Lock up Class (SG)	5 %
Material of Construction (To be selected from below as per the process parameters mentioned by the user)		
17	Body Material	1. For 150# & 300#- ASTM A 216 Gr. WCB (Charpy test at 0 deg.C , Investment Casting) 2. 600# - ASTM A 352 Gr. LCB / LCC,ASTM A 350 Gr. LF2
18	Valve Seat Material	ASTM A 479 Gr. SS 316
19	Diaphragm Material	Fabric NBR+PVC/Nitrile Rubber
20	Trim, Plug Material	ASTM A 479 Gr. SS 316
21	Other Wetted Parts	ASTM A 479 Gr. SS 316
22	Impulse Connection & Material	1/2 " - SS 316
23	End Connection	Flange type, 125 AARH(As per ASME B16.5)
Requirements		
24	Failure Position	Fail to Open (Regulator)
25	Failure Indicator	NA
26	Limit Switch	NA
27	Pressure Indicator	NA
28	Spring Range	1.5 to 6 Barg (or as per user requirement/process parameter)



29	Impulse Tubing/Fittings	Required
30	Radiography	Required
31	Charpy V-Notch Test	Required
32	Face to Face Dimensions	Vendor to Furnish
33	Leakage Class	VI
34	Hydrostatic Test	1.5 * Design Pressure
35	Pneumatic Test	1.1 * Design Pressure
Valve Calculation		
36	Selected Cg	Within 10 - 80% of rated Cv for the calculation of min. Inlet & max. outlet flow OR as per manufacturer standard
37	Sound Level	Sound pressure levels shall be limited to the values prescribed by Environmental Authorities but in no case it shall exceed 110 dbA as per PNGRB T4S standard for CGD and shall comply the requirement as per EN334.
38	Limiting Velocity	Max 30 m/s or OEM recommendations
39	Differential Pressure	Maximum 0.5 barg
Note:		
1. Set point of the regulator shall be adjustable. Vendor shall furnish the adjustable range of the pilot.		
2. Accuracy of the pressure regulation shall be better than or equal to 2.5% of the set pressure for the entire inlet pressure and flow range		
3. Regulator shall be sized to deliver the maximum flow at minimum pressure condition and the minimum flow at the maximum pressure reduction as per given regulator sizing sheet by GGL.		
4. The inlet pressure variation is possible for the entire flow rate and the PCV to be sized accordingly.		
5. Vendor shall provide and include the noise treatment with silencer / expander.		
6. 100% radiography applicable on casting and Ultrasonic examination of forged materials for pressure containing parts.		