


CLIENT:		GAIL GAS LIMITED		CITY GAS DISTRIBUTION		
QUANTITY: As Per P&ID						
GENERAL	1	Tag Number		Refer P&ID		
	2	Inlet Line no.		Refer P&ID		
	3	Outlet Line no.		Refer P&ID		
	4	Service		Down Stream Pressure Regulation		
	5	Line size		Refer P&ID		
	6	Inlet Line I.D.	Outlet Line I.D.	Refer P&ID	Refer P&ID	
BODY	7	Type of Regulator		Self Actuated Direct Operated		
	8	Body Size	Port Size	*	*	
	9	End Connection: Size & Rating		Flanged & (*)		*
	10	Facing & Finish		RF serrated / 125 AARRH		
	11	Body Material		ASTM A216 Gr WCB or better		
	12	Diaphragm Material		Nitrile		
	13	Trim, plug Material		SS		
	14	Other Wetted Parts		SS		
	15	Leakage Class		CLASS-VI as per ANSI/FCI 70.2		
	16	Impulse Connection		EXTERNAL		
	17	Valve Set Point		As per P&ID.		
	18	Regulation Accuracy		± 5% of the Set point (Note-2)		
OPTIONS	21	Failure position		Open		
	22	Limit Switch		Not Required		
	23	Radiography		*		
	24	Charpy V- Notch Test		*		
	25	Impulse Tubing/ Fittings		Required		
	26	Installation		Horizontal		
	27	Pressure Indicator		Under Pressure Gauge Scope		
SERVICE CONDITIONS	32	Fluid	State	Natural Gas	Gas	
	34	Flow Gas - Min./Normal/Max.		Refer Design Basis		
	36	Inlet pressure		Refer Design Basis		
	37	Pressure Drop at Various Flow Rates		Note-4		
	38	Shut Off Pressure		*		
	39	Temperature-Oper.	Max.	25	35	
	40	Oper S.G	Mol. Wt.	0.65-0.7	Refer Design Basis	
	41	Cp/Cv	Compress. Factor	*	*	
VALVE DATA	45	Kg or Cg Min.	Kg or Cg Max.	*	*	
	46	Kg or Cg Nor.	Selected Kg or Cg	*	*	
	47	Predicted sound level dBA		< 85 dBA		
	48	Inlet Velocity m/s		< 40 m/sec.		
MAKE & MODEL NO.	49	Valve		*		
	50	Pilot				
	51	Failure Position		Fail to Open		
NOTES :- (*) Vendor to furnish						
1	Set Point of the regulator shall be adjustable.					
2	Accuracy of the pressure regulation shall be better than or equal to ± 5 % of the set pressure for the entire inlet pressure and flow range					
3	Pressure drop across the valve shall be selected by the vendor considering the Maximum Pressure drop permitted across the skid, given setpoints (staggered set point of the two regulators and the slam shut valves) and the given inlet / outlet pressure conditions.					
4	Regulator shall be sized to deliver the maximum flow at minimum differential pressure and the minimum flow at the maximum differential pressure.					
5	The Inlet pressure variation is possible for all the flow rates and the Valve to be sized accordingly.					
6	In case valve noise level for the worst case of the given process conditions exceeds 85 d BA (flange to flange of the valve) vendor shall provide and include the noise treatment with silencer/ expander.					
7	Standard for Pressure Regulating valve is EN334 and designed as complied with PED Annex III, Module B no. 97/23/EC for Regulator and SSV (shall be as per EN 14382) to be provided for along with Module D. PED Certs to be provided for separately for Integral Slam Shut.					
		DATA SHEET FOR DIRECT ACTING REGULATOR WITH INTEGRAL SLAM-SHUT		DOCUMENT NO.	Rev.	
				11-0290-02-11-02-010	0	
				SHEET 1 of 1		