



SELF ACTUATED PRESSURE CONTROL VALVE								Rev.
GENERAL	1	Tag Numbers			Refer Below Table			
	2	Quantity						
	3	Service			Down stream pressure protection			
	4	Enclosure Certification			IP65			
	5	Sensing Type			External			
	6	Line Size & Schedule			*			
	7							
PROCESS DATA	8	Fluid	State		Natural Gas	Gas		
	9	Flow Gas	Min.	Nor.	Max.	*		
	10	Inlet Pressure			*			
	11	Pressure Drop at Various Flow Rates			*			
	12	Shut Off Pressure			*			
	13	Temp.	Oper.		Max.		*	
	14	Oper S.G		Mol Wt.		*		
	15	Cp/Cv		Compress. Factor		*		
16								
BODY	17	Type of Valve			Self Actuating Pressure Reduction			
	18	Body Size	Port Size		*			
	19	End Conn: Flgd. Size & Rating			As per SOR specifications			
	20	Facing & Finish			Flanged & RF			
	21	Body Material			SS 316 or better			
	22	Trim Material			SS 316			
	23	Other Wetted Parts			SS 316			
	24	Leakage Class			Class VI as per FCI 70.2			
	25	Closing Time			Less than 2 secs			
	26							
OPTIONS	27	Pilot Operated			*			
	28	Manual Reset			Required			
	29	Failure Position			Close			
	30	Limit Switch			N/A			
	31	Cable Entry			Required			
	32	Valve Position Indicator (Local)			Required			
	33	Radiography			Required			
	34	Charpy V-Notch			Required			
	35	Impulse Tubing/Fittings			Required			
	36	Pressure Indicator			In the sensing line required			
	37	Installation			Horizontal			
	38							
MISC.	39	Kg or Cg Min.		Kg or Cg Max.		*		
	40	Kg or Cg Selected			*			
	41	Predicted Sound Level (dBA)			less than 85 dBA			
	42	Inlet Velocity (meters/second)						
	43	Valve Setpoint		Adjustable Range				
	44	Make		Model No.				
	45							
S.No.	Service	Line/Equipment No.	Design Temperature (degC)	Pressure (bar) (Nor/Max/Des)	Range (bar)	Remarks		
1	Natural Gas	*	-29 to 65	- / - / 49 - 19	*			
Notes:								
1	* By Bidder							
2	Tagplate (SS 316) stamped with instrument number and service in 10mm characters shall be attached via SS wire (1 mm).							
3	Pressure regulator valves shall be fail open type.							
4	Accuracy of pressure regulation shall be better than 2.5% of the set pressure for the entire inlet pressure and flow range.							
5	Pressure drop across the valve shall be selected by the bidder considering the given set points (staggered set point of the two regulators and the Slam Shut valves) and the given inlet pressure conditions.							
6	Regulator shall be sized to deliver the maximum flow at minimum pressure condition and the minimum flow at the maximum pressure condition							
7	Pressure sensing lines shall be placed at minimum 4D distance downstream of active regulator for it to perform smoothly.							

## VENDOR LIST

### SS FITTINGS / TUBING

(No other makes shall be acceptable)

- Swagelok (USA)
- Parker (USA)
- Hoke (USA)
- Sandvik

### PRESSURE REGULATOR AND SLAM SHUT VALVE

- Pietro Fiorentini S.P.A. (Italy)
- Emerson Process Management (USA)
- RMG-Regel Messtechnik (Germany)
- Mokveld Valves BV (Netherlands)
- Schlumberger (USA)
- Gortter Controls B V (Netherlands)
- Instromet International NV
- Emerson Process Management Asia Pacific Pte Ltd.
- Nirmal Industrial Controls Pvt Ltd. (up to 6" size only)
- ESME Valves Ltd
- Kaye & Macdonald Inc.
- Nuovo Pignone S.P.A (Italy) (GE Oil Co.)
- Richards Industries (Formerly Treloar)
- Samson AG Mess-und Regeltechnik
- Tormene Gas Technology