

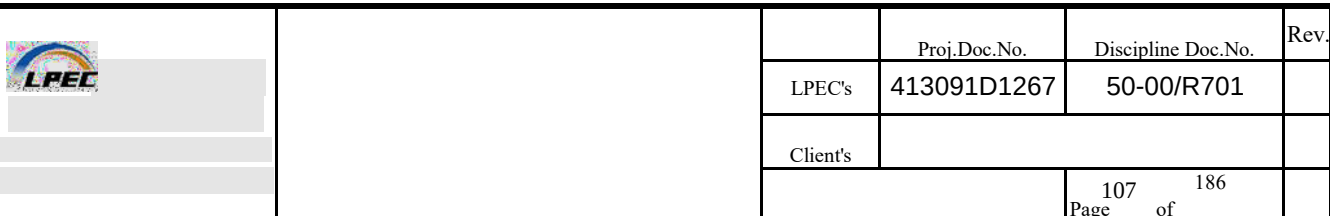


Client's

106

Std.Density kg/m³

1	Tag Number	Quantity	PID	41-PV-705	1	41-T4031-022
2	Line No.	Class		41-24"-PL-16002	A53F	
3	Pipe Size mm	Pipe Mat'l		600	ASTM A106 Gr.B	
4	Fluid	Phase		HC C8		
5	3.24	Liquid kg/h Gas Nm ³ /h MPa	MaxFlow NorFlow MinFlow			
6	175					
7	720	Max DP for Shut-off MPa(G)				
8	0.25	Oper. Temp.	Molecular WT			
9		Oper.Density				
10		Oper.Viscosity	Visc Unit			
11		CP/CV	Com. Factor			
12		Vapor PressMpa(a)	Critical Press.Mpa(a)	0.24	3.58	
13		Solid Mass Cont	Mass Vap			
14	Body Type			Single Seat Globe		
15	Body Size mm	Trim Size mm		500		
16	Character	Proc.Conn			ASME Class 300 RF 20"	
17	Body/Bonnet Mat'l			A216GR.WCB		
18	Trim Mat'l	Seat Mat'l		316SS+ST	316SS+ST	
19	Packing Mat'l	Gasket Material		PTFE		
20	Cv Sizing Cv	Max.	Nor.	Min.	1611.91812	845.69/1365.36/1075.0 8/1267.16 570.678535
21	Cv Selected Cv				3040	
22	Valve Opening	Max.	Nor.	Min.	51.40	25.33/43.01/33.14/39.67 15.97
23	Actuator Type	Spring Range MPa				
24	Bonnet Type					
25	Failure Action to Open/Colse			F.L		
26	Val. Posn. when Sol. Val. De-energized					
27	DBA	Leakage Class			≤ 85dBA	ANSI Class IV
28	Action					
29	Name					
30				4~20mA+HART		
				ExiaIICT4	IP65	
				400		
				1/4"NPT(F)	1/2"NPT(F)	
	Explosion Proof					
40						
41	Manufacturer					
42	Model					
43						
Note: Balanced/Unbalanced:Balanced Stem Material:13CR						



The valve actuator shall be sized and selected per ISA-75.03, with the Manufacturer's standard selection. The information required for valve selection shall be provided with valve specification.	
2. The control valve packing glands shall be of the boxed type.	
3. Miscellaneous accessories such as booster relay, quick exhaust valves, lock-up valves, accumulators (air volume to be considered to maintain proper operation during Detailed Engineering Stage).	
valve from 0% to 100% = 15 seconds.	4. Maximum time to open and close the valve.
SCS/PLC or DCS, to the valve actuator; another signal to the SCS/PLC will also be provided to monitor the valve position.	5. In addition to the control signals from the controller, a feedback signal to indicate correct valve position on site.
6. SCS/PLC or DCS, pilots the valve. SCS in normal operation or DCS during start up.	6. Hand Switch to select which controller operates the valve.
% maximum - Linear characteristic required. Double acting actuator recommended.	7. Accuracy of the flow control loop = 1.0 %.
eye (to opening) to be submitted to AXENS for approval.	8. Valve data sheet and characteristics to be submitted to AXENS for approval.
9. For all valves, the following information shall be provided:	9. Full / Partial Flow Characteristics and Cv values.
10. For all valves, the following information shall be provided:	10. Fabricated short off pressure (SCA).
11. For all valves, the following information shall be provided:	11. For Valve calculation and sizing.
12. For all valves, the following information shall be provided:	12. Trim size and Rated CV are to be provided.
13. For all valves, the following information shall be provided:	13. Please refer to attachment W.01 for additional requirements.

INSTRUMENT SPECIFICATION		TATA ENGINEERING CORP.	
Sheet 12 of 2		Control Valve 1.0000.00	
D.D. 12/15/2006		FINAL (as FEED Package)	
D.D. 12/15/2006		Preliminary	
Revised		Date	

