

 LUOYANG PETROCHEMICAL ENGINEERING CORP./SINOPEC		CONTROL VALVE INSTRUMENT SPECIFICATION				Proj.Doc.No.		Discipline Doc.No.		Rev.		
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General	Tag Number		Quantity		41-FV-715		1					
	Line No.		Class		41-24"-PL-16004							
	Pipe Size mm		Pipe Mat'l		600		ASTM A106 Gr.B					
Process Condition	Fluid		Phase									
	Flow Rate	Liquid kg/h		MaxFlow		3764						
		Gas Nm ³ /h		NorFlow								
		STM kg/h		MinFlow		1686						
	Inlet Pressure MPa(G)		Outlet Pressure MPa(G)		1.82		1.416/1.313/1.024					
	Max DP for Shut-off MPa(G)				3.24							
	Oper. Temp.		Molecular WT		175							
	Oper.Density				720							
	Oper.Viscosity		Visc Unit		0.25/0.2/0.2							
	CP/CV		Com. Factor									
	Vapor PressMpa(a)		Critical Press.Mpa(a)		0.24/0.08/0.08		3.58					
	Solid Mass Cont		Mass Vap									
Control Valve	Body Type											
	Body Size mm		Trim Size mm		500							
	Character		Proc.Conn									
	Body/Bonnet Mat'l											
	Trim Mat'l		Seat Mat'l		316SS+ST		316SS+ST					
	Packing Mat'l		Gasket Material									
	Cv	Sizing Cv	Max.	Nor.	Min.							
	Cv	Selected Cv										
	Valve Opening		Max.	Nor.	Min.							
	Actuator Type		Spring Range MPa									
	Bonnet Type											
	Failure Action to Open/Colse											
	Val. Posn. when Sol. Val. De-energized											
	DBA		Leakage Class		85dBA							
	Transducer/Positioner	Name										
Input Singal		Output Singal										
Explosion Proof		Enclosure Protection										
Air Supply(kPa)		Power Supply		400								
Pneu.Conn.		Eelec.Conn.										
Accessories	Filter-Regulator W/gauge											
	Solenoid Valve		Power Supply									
	Position Switch		Hand Wheel									
Miscell	Manufacturer											
	Model											
Note:												



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1. The starting condition shall be carried out based on IEC (S507) and the Manufacturer's standard equations. The starting calculations, resulting in peak & r.m.s values specification.
2. The r.m.s value starting current shall be of the locked rotor.
3. The full motor capacity gear with an over-current safety device shall be designed to respond to any fault and protect the electrical system connected to maintain proper operation during Detailed Engineering Stage.
4. The details are to specify the motor with the following:
 - a. It is to refer to the correct diagram from SCS/STG or DCS before write contract; further signed by the SCS/STG and also be provided to the correct value selection option.
 - b. Handwritten or stamp which computer, SCS/STG or DCS, state the value, SCS in normal position or DCS during startup.
 - c. Agreement of the flow control loop = DCS, software - Linear characteristic required. Double acting actuator recommended
 - d. Valve data sheet and characteristic curve (Self-sensing) to be submitted to AS/MS for approval
 - e. Full lock position is covered by the positioner only. No other failure lock was agreed to require. Valve integral instrumentation for gas pump pressure valves.
 - f. A short-circuit test process at 415V/50Hz D.C. (Design Pressure) shall be confirmed by DCS
 - g. For Valve calibration and drive selection DCS needs to be checked during Detailed Engineering
 - h. Wire size and Rated life are based on 1st test.
 - i. Please refer to document 2.2 for valve requirements.

ING CORP.

Figure 9

				INSTRUMENT SPECIFICATION		
				Control Valve		
1	Q.D.	2000000	1000L (in 2000 Package)			
2	Q.D.	1000000	Preliminary			
No.	Ev	Date	Revision	Code: 100	Doc. No.	Sheet: 2

