



CONTROL VALVE
INSTRUMENT SPECIFICATION

Client's

General	Tag Number		Quantity		41-PV-705		1	
	Line No.		Class		41-24"-PL-16002			
	Pipe Size mm		Pipe Mat'l		600		ASTM A106 Gr.B	
Process Condition	Fluid		Phase					
		Liquid kg/h Gas Nm ³ /h	MaxFlow					
			NorFlow					
			MinFlow					
	1		7		5			
	7		2		0			
	0		Oper. Temp.		Molecular WT ²		5	
			Oper.Density					
			Oper.Viscosity		Visc Unit			
			CP/CV		Com. Factor			
			Vapor PressMpa(a)		Critical Press.Mpa(a)		0.24 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						
					400			
Accessories								
Miscell	Manufacturer							
	Model							
Note:								



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Tag number : 41-PV-705

1. The sizing calculation shall be carried out based on ISA S75.03 and the Manufacturer's standard equations. The sizing calculation results shall be provided with valve specification.

2. The control valve packing glands shall be of the bolted type.

3. Miscellaneous accessories such as booster relay, quick exhaust valves, lockup valves, accumulators (air volume to be considered to maintain proper operation during Detailed Engineering Stage.

4. Maximum time to open and close the

5. In addition to the control signals from

6. Hand Switch to select which controller

7. Accuracy of the flow control loop = 1%

8. Valve data sheet and characteristic curve

9. Final I and O signal to be confirmed by the client

10. Fabricated sub 4201 (regulator) of 41-PV-705 & 41-PV-706 shall be confirmed by DEC.

11. For Valve calculation and size selection DEC need to be rechecked during Detailed Engineering

12. Trim size and Rated CV are based on Fisher.

13. Please refer to attachment W 3 for additional requirements.

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INSTRUMENT SPECIFICATION

Control Valve

of 2

0.0 2/28/2007 EINE (as FEED Package)
0.0 12/15/2006 Preliminary

Sheet = 2

Rev. 1

No. 1

Date

Revision

Code: 170

Dwg. No.



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Process licensing

INSTRUMENT DATA SHEET : CONTROL VALVE

Job Number	Unit	Type	PAID	Page
05-2678b	41b	4VC	PID 16/27	4/5

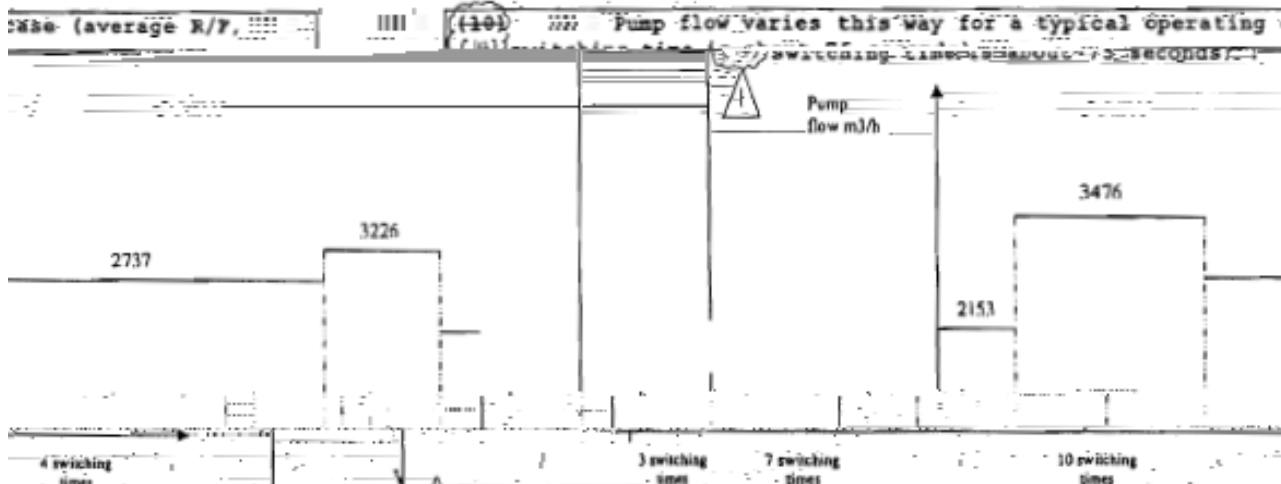
Client : DRAGON AROMATICS (XIAMEN) CO., LTD

Date By Check By Rev

DAC PY COMPLEX PROJECT, XIAMEN (P.R. China)

7/11/2006 PAR E A P

VALVE TYPE Pressure control Valves



- Engineering... characteristic... seconds... to be submitted to... : 2064... actuator, another... the correct valve... DCS pilots the valve. SCS... ally. No other failure lock... ation diagram for pumparound
- (11) Estimated shut-off pressure of 41-P-202 to be checked by En
- (12) Accuracy of the pressure control loop is 1.0% maximum. Lineal
- required - Double acting actuator recommended.
- (13) Maximum time to open and close the valve from 0 to 100% is 15 s
- (14) Valve data sheet and characteristic curve (Cv vs opening) to
- AXENS for approval.
- (15) Estimated min. design Cv : 653, estimated maximum operating Cv
- (16) In addition to the control signal from SCS/PLC to the valve
- provision for a hand switch to select which controller (SCS/PLC) to
- operation on site. See Automation Data Book.
- (17) Hand Switch to select which controller (SCS/PLC) to
- in normal operation or DCS during start-up.
- (18) Fail Lock position is ensured by the positioner or
- (22) arrangement is required. Refer to typical instrument
- valves.

st. Engineering contractor to check

ding static and dynamic deviation trend,

lifecycle diagnostic recommended compare

troller is recommended.

Condition monitoring is required.

- (23) Valve shall be provided with Anti cavitation A-Trim design or equivalent
- during detail engineering.
- (24) Intelligent valve controller, with embedded lifecycle diagnostics inclu
- actuators load trends, valve diagnosis, real predictive maintenance based
- to valve signature approach.
- (25) Unique supplier for package valve, actuator and intelligent valve con
- (26) Field devices management software FDT-DTM technology based with