

CONTROL VALVES DATASHEET	Contract No.
	Class:
	Rev.: 01
DOCUMENT NUMBER: NP 435-PP-12	

INSTRUMENT SPECIFICATION SHEETS-CONTROL VALVES									
1	GENERAL				60	GENERAL			
2	Tag No.	1161-FCV-5001D1/D2/S/M			61	Plant	1		
3	Service	Ethane Gas			62	Unit			
4	Line No.	8"-G-160-10001-D01-N 8"-G-160-10002-D01-N 8"-G-160-10003-D01-N 8"-G-160-10004-D01-N			63	Area Classification	EExd IIB T3 with ingress protection IP65		
5	Line Size	Line Schedule	8"	20	64	Location			
6	PID No.	XXX			65	Design Code	SME B31.3		
7	PIPE DATA				66	ACTUATOR			
8	Inlet / Outlet Pipe Size in	8"	8"		67	Manufacturer / Model Number	VTA	VTA	
9	Inlet / Outlet Pipe Schedule	20	20		68	Actuator Type	Pneumatic Actuator Diaphragm Type		
10	Pipe Material	CS, API5L			69	Mounting	Vertically Up		
11	Pipe Insulation	-			70	Failure Position	Open		
12	VALVE BODY				71	Handwheel / Location	YES	TOP	
13	Valve Type	Butterfly Valve - Triple Eccentric			72	Operator Interface	NA		
14	Body / Bonnet Material	ASTM A216 Gr. WCB			73	Cable Entry/Connection Type	NA	NA	
15	Body Size / Port Size in	8"			74	Load / IP Rating	IP68		
16	Flange Rating / Facing	Class 300	RF		75	POSITIONER			
17	Packing Material/ Construction	Inconel X-750 (NOTE 4)			76	Positioner Type	Digital-HART		
18	Guiding / No. of Ports				77	Manufacturer / Model Number	VTA	VTA	
19	Body Seat	A182 F316+Stellite HF			78	HART / Fieldbus	HART	NA	
20	Valve Design Std.	API 609			79	Input Signal / Output Signal	4~20 mA	NA	
21	TRIM DATA				80	Positioner Action / Characteristic	Direct	Linear	
22	Trim Type / Size	Triple Eccentric (VTA)		8"	81	IP Code / Certificate	IP65/66		
23	Disc	ASTM A351 Gr. CF8M			82	LIMIT SWITCH (NOTE2)			
24	Seat Ring Material	SS 316 + Graphite (Laminated)			83	Tag No. - Open Position	Not Applicable		
25	Stem / Shaft Material	ASTM A182 F55			84	Tag No. - Close Position	Not Applicable		
26	Flow Tends to	Unidirectional			85	Manufacturer / Model Number			
27	Emission Class	B			86	IP Rating / Certification			
28	Leakage Class	API 598			87	SOLENOID VALVE			
29	Cv Required	Cv Selected	VTA	VTA	88	Tag No.	Not Applicable		
30	PROCESS DATA				89	Manufacturer / Model Number			
31	Fluid Name	Ethane Gas			90	IP Rating / Certification			
32	Fluid State / Fluid Phase	Gas	Gas		91	Cable Entry / Connection Type			
33	Flowing Conditions (Each Run)	Min.	Nor.	Max.	92	Port Connection Type / Size			
34	Flow (NOTE 5) m³/h	265	1266	2137	93	No. of Ports			
35	Oper. Pressure bara	20.9	20.9	20.9	94	SPECIAL REQUIREMENTS			
36	Pressure Drop (NOTE 3) bar	0.3	0.3	0.3	95				
37	Temperature °C	38.5			96				
38	Density Kg/m³	30.182			97				
39	Viscosity Cp	0.0096			98	Material Certificate	As per BS EN 10204 - 3.1		
40	Vapour Pressure bara	---	---	---	99	Test Requirements	As per API 598		
41	Calculated Noise dB(A) (NOTE3)	VTA	VTA	VTA	100	Special Req. for Service			
42	Calculated Cv (NOTE3)	VTA	VTA	VTA	101	Fire Safe Design Valve / Actuator	As per API 607 Design		
43	Selected Cv (NOTE3)	VTA			102	Actuator Paint Finish	Manufacturer Standard Paint – Gray (for actuators)		
44	Valve opening angle (%)	VTA	VTA	VTA	103	Butterfly Paint Finish	As per project specification		
45					104	Weight Kg	VTA		
46	Max. Shutoff Diff Pressure bar	39 barg			105				
47					106				
48	Corrosive Agents / Toxic Agents	-			107				
49	Design Pressure min / max barg	39			108				
50	Design Temperature min / max °C	-29	85		109	NON-VENDOR RELATED INFO			
51					110	Protection			
52					111	Tracing Temperature °C			
53					112				
54	PURCHASE DATA				113	NOTE:			
55	Manufacturer	VTA			1) Supplier to advise				
56	Model Number	VTA			2) Gold contact hermitically REED switch 24v 1A – Volt free contact.				
57	Serial Number	VTA			3) For more details please refer to attached preliminary FCV sizing.				
58	Purchase Order No.	VTA			4) This item is confirmed based on manufacturer offer and standards.				
59	Item Number				5) The Min. flow rate is considered for Control Valve Sizing and Cv Calculation based on flowmeter TDR (10:1) and AGA-9 calibration requirements. (Refer to NOTE 3 above)				
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