


Attachment 4

GENERAL	1	Tag No.			PV -2501-41							
	2	Service			V-2501 O/L TO X-2590 PRESS CV							
	3	Line No.	P&ID No		8"-L-2500-143-DG0C-PP		JI-191-PR-12-2500-10003					
	4	Area Classification			Zone 1 Gr. IIA T3							
	5	Ambient Temperature:		Min.	Max.	(-) 10 °C		52 °C				
	6	Available Air Supply Press.:		Min.	Max.	5 bar-g		8 bar-g				
	7	Leakage Class		Allowable Noise Limit		Class IV		< 85 dB(A)				
	8	Design Press.	Max	Design Temp. Min / Max		93	bar-g	-40	82 °C			
MECHANICAL DATA	9	Line Size			8 in							
	10	Pipe Material		Insulation		ASTM A312 TP304L		NA				
PROCESS CONDITIONS	11	Process Fluid		Stream Number		HC GAS						
	12	Fluid Phase		Fluid State		Single_Phase		Gas/Vapor				
	13	Shutoff Pressure		Molecular Weight		93 bar		18.25				
	14											
	15											
	16	Flow Rate		Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow					
	17	Inlet Pressure		kg/d	3221105	2928282	1171313					
	18	Pressure Drop		bar-g	79.4	79.4	79.4					
	19	Inlet Temperature		bar	0.5	0.5	0.5					
	20	Density		°C	-25	-25	-25					
	21	Inlet Compressibility Factor		kg/m³	108.93	108.93	108.93					
	22	Inlet Viscosity		-	0.653	0.653	0.653					
	23	Inlet Specific Heats Ratio		cP	0.0137	0.0137	0.0137					
	24	Inlet Vapour Pressure		-	2.504	2.504	2.504					
	25	Critical Pressure		bar-a								
CALCULATED RESULTS	26	Flow Coefficient Cv		-	671	607	244					
	27	Travel		%	61	58	37					
	28	Sound Pressure Level		dBA	<75	<75	<75					
BODY AND TRIM	29	MFR	Model	Kent Introl	AB4001	POSITIONER	56	MFR	Model	ABB	TZID-C200	
	30	Body Type		Butterfly (Single Flanged)			57	Signal: Inlet	Outlet	4-20mA, HART		Pneumatic
	31	Body Size	Port Size	8 in	NA		58	Increase Signal Valve		Close		
	32	Select Cv	Characteris.	1445	Mod EQ%		59	Type		Electro Pneumatic, SMART		
	33	Rating, End Con., Facing		900#, Flanged RTJ			60	Bypass	Gauges (Barg)	No	Required	
	34	Body/ Bonnet Material		ASTM A 351 Gr.CF3			61	Cable Entry		ISO M20 x1.5		
	35	Bonnet Type		Bolted		62	Certification		EEx 'ia' / IP 65			
	36	Packing		Grafoil		63	E/P Tag No.		PY -2501-41			
	37	Flow Action To		Open		64	MFR	Model	NA	NA		
	38	Lubricator	Isolat. Valve	No	No	65	Type	Quantity	NA	NA		
	39	Guiding	No. of Ports	NA	One	66	When De-Enegr.Valve:		NA			
	40	Trim Type		Standard		67	Cable Entry		NA			
	41	Plug/ Disc Material		ASTM A182 Gr. F316L +Stellite 6		68	MFR	Model	NA	NA		
	42	Seat Material		ASTM A182 Gr. F316L +Stellite 6		69	Type	Quantity	NA	NA		
	43	Rated Travel		0-90 Deg		70	Contacts / Rating		NA			
	44	Stem/ Shaft Material		ASTM A182 Gr. F316L +Stellite 6		71	Switching Position		NA			
	45	Cage / Guide Material		ASTM A182 Gr. F316L +Stellite 6		72	MFR	Model	ABB	X1004FA		
	46	NACE MR-01-75		NA		73	Set Pressure		4 barg			
47	Gasket Material		NA		74	Filter	Gauge	Required	Required			
48	Body/Bonnet Bolts/Nuts		ASTM A320 Gr.B8CL 2 / A194-8		75	Hydro. Pressure		Required				
ACTUATOR	49	MFR	Model	Kent Introl	G Series	TESTS	76	Leakage		Note 8		
	50	Type	Material	Spring & Diaphragm			77	Other Test		Note 8		
	51	Size	Area	G-300	300 in2		78	Manufacturer		KENT INTROL		
	52	Air Failure Valve		Close		79	Model					
	53	Handwheel		No		PURCHASE	80	Purchase Order Num.		191030089		
	54	Bench Range		0.5-2.2 Bar			81	Serial Number		520045V8P1		
	55	Mechanical Travel Stop		-			82					
Notes: See notes												
INSTRUMENT DATASHEET						Control Valve						
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