


Attachment 3

GENERAL	1	Tag No.			PV -2501-36B						
	2	Service			V-2501 O/L TO T-2501 PRESS CV						
	3	Line No.	P&ID No		10"-L-2500-029-DG0C-CC	JI-191-PR-12-2500-10006					
	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	Sch.		10 in		80S				
	10	Pipe Material	Insulation		ASTM A312 TP304L		NA				
PROCESS CONDITIONS	11	Process Fluid	Stream Number		LPG						
	12	Fluid Phase	Fluid State		Homogeneous 2 Phase		Gas/Vapor				
	13	Shutoff Pressure	Molecular Weight		93		bar	18.25			
	14										
	15										
					Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow			
	16	Flow Rate			kg/d	3218708	2926098	1170439			
	17	Inlet Pressure			bar-g	78.44	78.5	78.78			
	18	Pressure Drop			bar	75.04	77	78.28			
	19	Inlet Temperature			°C	-25	-25	-25			
	20	Density			kg/m³	107.92	107.92	107.92			
	21	Inlet Compressibility Factor			-	0.654	0.654	0.654			
	22	Inlet Viscosity			cP	0.0137	0.0137	0.0137			
	23	Inlet Specific Heats Ratio			-	2.503	2.503	2.503			
	24	Inlet Vapour Pressure									
25	Critical Pressure			bar-a							
CALCULATED RESULTS	26	Flow Coefficient Cv			-	66.49	59.97	23.82			
	27	Travel			%	85	81	31			
	28	Sound Pressure Level			dBa	75	76.46	75..98			
BODY AND TRIM	29	MFR	Model	Kent Introl	530D	POSITIONER	56	MFR	Model	ABB	TZIDC
	30	Body Type	Globe				57	Signal: Inlet	Outlet	4-20mA,HART	Pneumatic
	31	Body Size	Port Size	8 in	5 in		58	Increase Signal Valve		Close	
	32	Select Cv	Characteris.	78	Linear		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	Extended Bonnet				62	Certification		EEx 'ia' / IP 65	
	36	Packing	Graphite				63	E/P Tag No.		PY -2501-36B	
	37	Flow Action To	Open			64	MFR	Model	NA	NA	
	38	Lubricator	Isolat. Valve	No	No	SOLENOID VALVE	65	Type	Quantity	NA	NA
	39	Guiding	No. of Ports	Cage	One		66	When De-Enegr.Valve:		NA	
	40	Trim Type	Vector Multi-Stage Multi-Path				67	Cable Entry		NA	
	41	Plug/ Disc Material	ASTM A182 Gr. F316L +Stellite 6			SWITCHES	68	MFR	Model	NA	NA
	42	Seat Material	ASTM A182 Gr. F316L +Stellite 6				69	Type	Quantity	NA	NA
	43	Rated Travel	4.7 in				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			AIR SET	72	MFR	Model	ABB	X1004FA	
46	NACE MR-01-75	NA				73	Set Pressure	3.5 barg			
47	Gasket Material	SS 316L Spiral-wound				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	STD	TESTS	76	Leakage	Note 10		
	50	Type	Material	Spring & Diaphragm	CS		77	Other Test	Note 10		
	51	Size	Area	G-150	150 in2		78	Manufacturer	KENT INTROL		
	52	Air Failure Valve	Open			79	Model				
	53	Handwheel	No			PURCHASE	80	Purchase Order Num.	191030089		
	54	Bench Range	1.3-2.7 Bar				81	Serial Number	520045V3P1		
	55	Mechanical Travel Stop	Required (Note 13)				82				

Notes: See notes

					INSTRUMENT DATASHEET	
0	PGJ	17/03/2009	ISSUED FOR PURCHASE		Control Valve	
B	PK/PJ	11/09/2008	ISSUED FOR APPROVAL			
A	AP/PK	08/09/2008	ISSUED FOR IDC			
No.	By	Date	Revision	Code: 73	Doc. No.: JI-191-IN-07-2970-10014	Rev.: 0