


Attachment 2

GENERAL	1 Tag No.		PV -2102-03A							
	2 Service		V-2102 O/L TO FLR HDR PRESS CV							
	3 Line No.	P&ID No	6"-G-2100-020-DS0-HC		JI-191-PR-12-2100-10002					
	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	-46 °C	88 °C				
MECHANICAL DATA	9 Line Size		Sch.		6 in	80S				
	10 Pipe Material		Insulation		ASTM A312 TP316L	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	22.19				
	14		Case 1 (Refer Note 10 for Case 2)							
	15		Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow				
	16 Flow Rate		kg/d	246127	223752	67125				
	17 Inlet Pressure		bar-g	27.65	27.71	27.98				
	18 Pressure Drop		bar	24.5	26.09	27.48				
	19 Inlet Temperature		°C	46	46	46				
	20 Density		kg/m³	26.4	26.4	26.4				
	21 Inlet Compressibility Factor		-	0.9204	0.9204	0.9204				
	22 Inlet Viscosity		cP	0.0125	0.0125	0.0125				
	23 Inlet Specific Heats Ratio		-	1.337	1.337	1.337				
	24 Inlet Vapour Pressure									
	25 Critical Pressure		bar-a	98.06						
CALCULATED RESULTS	26 Flow Coefficient Cv		-	35.25	31.98	8.95				
	27 Travel		%	80	73	20				
	28 Sound Pressure Level		dba	77.45	82.61	79.91				
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	6 in	3 in		58 Increase Signal Valve		Close		
	32 Select Cv	Characteris.	44	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.CF3M			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 -2102-03A		
	37 Flow Action To		Open			SOLENOID VALVE	64 MFR	Model	NA	NA
	38 Lubricator	Isolat. Valve	No	No			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		3.5 in			70 Contacts / Rating		NA		
	44 Stem/ Shaft Material		ASTM A182 Gr. F316L +Stellite 6		AIR SET	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	3.5 barg			
	47 Gasket Material		SS 316L Spiral-wound		74 Filter	Gauge	Required	Required		
	48 Body/Bonnet Bolts/Nuts		ASTM A320 Gr. L7 / A194 Gr. 4		TESTS	75 Hydro. Pressure		Required		
	49 MFR		Model	Kent Introl		STD	76 Leakage		Note 8	
	50 Type		Material	Spring & Diaphragm		CS	77 Other Test		Note 8	
	ACTUATOR	51 Size	Area	TBA	TBA	PURCHASE	78 Manufacturer		KENT INTROL	
		52 Air Failure Valve		Open			79 Model			
		53 Handwheel		No			80 Purchase Order Num.	191030089		
54 Bench Range		0.5-2.2 Bar		81 Serial Number	520045V2P1					
55 Mechanical Travel Stop		-		82						

Notes: See notes

0	PGJ	17/03/2009	ISSUED FOR PURCHASE	INSTRUMENT DATASHEET Control Valve			
B	PK/PJ	11/09/2008	ISSUED FOR APPROVAL				
A	AP/PK	08/09/2008	ISSUED FOR IDC				
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