


Attachment 5

GENERAL	1	Tag No.			HV -2502-01						
	2	Service			E-2502 I/L FRM E-2504 CV						
	3	Line No.	P&ID No		12"-G-2500-018-CG0C-CC		JI-191-PR-12-2500-10002-2				
	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		48	bar-g	-70	82 °C		
MECHANICAL DATA	9	Line Size		Sch.		12 in		40S			
	10	Pipe Material		Insulation		ASTM A312 TP304L		NA			
PROCESS CONDITIONS	11	Process Fluid		Stream Number		HC Vapour					
	12	Fluid Phase		Fluid State		Single_Phase		Gas/Vapor			
	13	Shutoff Pressure		Molecular Weight		48 bar		17.5			
	14										
						Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow		
	16	Flow Rate				kg/d	3117833	2834394	1133758		
	17	Inlet Pressure				bar-g	39.08	39.24	39.88		
	18	Pressure Drop				bar	0.19	0.51	1.77		
	19	Inlet Temperature				°C	-52	-52	-52		
	20	Density				kg/m³	51	51	51		
	21	Inlet Compressibility Factor				-	0.7534	0.7534	0.7534		
	22	Inlet Viscosity				cP	0.0101	0.0101	0.0101		
	23	Inlet Specific Heats Ratio				-	1.919	1.919	1.919		
	24	Inlet Vapour Pressure									
	25	Critical Pressure				bar-a	58.48				
CALCULATED RESULTS	26	Flow Coefficient Cv				-	1630	907	196		
	27	Travel				%	77	57	27		
	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	10 in	NA		58	Increase Signal Valve		Close	
	32	Select Cv	Characteris.	2850	Mod EQ%		59	Type		Electro Pneumatic, SMART	
	33	Rating, End Con., Facing		600#, Flanged, RF			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		Bolted			62	Certification		EEx 'ia' / IP 65	
	36	Packing		Grafoil			63	E/P Tag No.		HY -2502-01	
	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	SOLENOID VALVE	When De-Enegr.Valve:		NA		
	40	Trim Type		Standard			66	Cable Entry		NA	
	41	Plug/ Disc Material		ASTM A182 Gr. F316L +Stellite 6			67	MFR	Model	NA	NA
	42	Seat Material		ASTM A182 Gr. F316L +Stellite 6		SWITCHES	68	Type	Quantity	NA	NA
	43	Rated Travel		0-90 Deg			69	Contacts / Rating		NA	
	44	Stem/ Shaft Material		ASTM A182 Gr. F316L +Stellite 6			70	Switching Position		NA	
	45	Cage / Guide Material		ASTM A182 Gr. F316L +Stellite 6		AIR SET	71	MFR	Model	ABB	X1004FA
	46	NACE MR-01-75		NA			72	Set Pressure	4 barg		
	47	Gasket Material		NA			73	Filter	Gauge	Required	Required
	48	Body/Bonnet Bolts/Nuts		ASTM A320 GrB8 CL.2 / A194-8		TESTS	74	Hydro. Pressure		Required	
	49	MFR	Model	Kent Introl	G Series		75	Leakage		Note 6	
	50	Type	Material	Spring & Diaphragm	CS		76	Other Test		Note 6	
	51	Size	Area	G-150	150 in2	PURCHASE	77	Manufacturer		KENT INTROL.	
	52	Air Failure Valve		Last	Note 7		78	Model			
	53	Handwheel		No			79	Purchase Order Num.		191030089	
54	Bench Range		0.5-2.2 Bar		80		Serial Number		520045V1P1		
55	Mechanical Travel Stop		-		81						
					82						
Notes: See notes											
0	PGJ	17/03/2009	ISSUED FOR PURCHASE		INSTRUMENT DATASHEET Control Valve					Sheet 92 of 221	
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		