CONTROI	_ VALVE	DATA	SHEET
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		FLO	W CONTRO	L VALVE [DATA SHEET				
GENERAL	1	Tag No.	Q	ŢŢ	500K001-FV-0001A/B/C/D			4	
	2	Service			Sour Hydrocarbon / Gas				
	3	P & ID No.							
	4	Line No.	4"-GAS-500-00001-N33-PT 4"-GAS-500-00002-N33-PT 4"-GAS-500-00003-N33-PT 4"-GAS-500-00004-N33-PT						
	5	Line Size / Sch.	4" / 120						
	6	Area Classification (For Positioner)			ZONE 2, IIB, T3 E	ex ia, with ing	ess protection	n IP65	
	7	Process Fluid	Fluid Phase		Sour Hydrocarbo	Sour Hydrocarbon Ga			
	8	Fluid Property (Yes/No)	Corrosive	Erosive		YES		NO	
	9	Design Temperature			°C	-1~87			
	10	Design Pressure	bara	149.1					
		NORMA	Units	Min.	Nor.	Max.			
	11	Flow Rate for whole Pag	m3/h	33.9	340.9	378.6			
	12	Flow Rate for each control valve			m3/h	33.9	340.9	378.6	
	13	Inlet Pressure (Oper.)			bara	135.1	135.1	135.1	
	14	Outlet Pressure (Oper.) (Note 5)			bara	134.1	134.1	134.1	
PROCESS	15	Inlet Temperature (Oper.)			°C	62.0	62.0	62.0	
CONDITIONS	16	Gas Density			kg/m³	194.2	194.5	194.5	
	17	Viscosity @ Oper. Condition			сР	0.0226	0.0225	0.0220	
	<u>l</u>								



CONTROL VALVE DATA SHEET FOR GAS METERING PACKAGE

Contract No.:

ARCP

F130AS

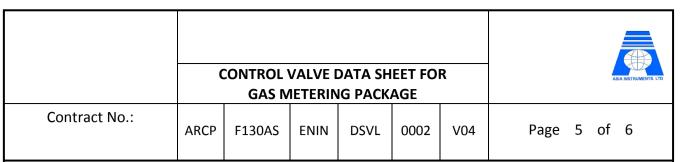
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V04

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	25	MFR	Model	Size & Type		VTA	VTA	\	4", But	terfly (Note 8
	26	Body Style				Butterfly				
вору	27	End Connect/In/Out			RTJ / Class 1500#					
	28	Type/Openin	g			Flanged Type				
	29	Body Materia	al			Carbon S	Carbon Steel A216 WCB			
	30	Flow Direction	on			Unidirectional				
	31	Disc Materia	l			A351 CF8M / hard Faced Finishing				
	32	End Finishing			RTJ					
	33	Seat Ring			Integral to the Body (Stellite HF) /					
	34	Seat				ASTM A1	ASTM A182 GR.F316 + Stellite Gr.6 /			
	35	Leakage Clas	S			In compli	In compliance with ANSI Class IV			
& TRIM	36	Shut-Off Clas	sification			ANSI/FCI	70-2 and IEC 6	50534-4		
	37	7 Stem Material				ASTM A 182 F51				
	38	Yoke Type		Material		Bolted			ASTM A	216Gr, WCB
4 4	39	Trim Type			Triple Eccentric Design					
	40	Packing:			Braided Graphite					
	41	Nut(s) & Bolt(s)			A-193-B7M / A194 Gr. 2HM (Note 9)					
	42	Gasket(s)			GASKET, RTJ, OCTG, ASTM A182 GR.F316L, 1500#, SMF, ASME B16.20,					
	43	Painting			In acc. with project painting procedure					
	44	Valve Design Std.			in compli	in compliance with MSS SP68 and API 609 standards				
	45	Max. valve travel			90° (Note 1)					
	46	Max. valve C	V			VTA				
	47	Actuator Typ	e			Neumatic spring return diaphragm type		type		
	48	Model			VTA					
	49	Piston			Carbon Steal Piston with dynamic floating O ring seals				ring seals	
	50	Push Down T	o:			Clockwise to Close				
	51	Supply:			Air					
	52	To Actuator:	Min.	Normal	Max.	barg	4.5		8	9
	53	Fail Position				Open				
ACTUATOR	54	Mounting			Manual Override					
	55	Tubing			1/4 NPT, SS316					
	56	Protection Ty	ype	e Enclosure Protection			EEx ia		IP 65	
	57	Cable Entry			ISO M20					
	58	Lubrication			Lithium Grease (not furnished w/actuator)					
	59	Certificate			IP Cert. ,					
	60	Painting			MFR Standard					



		1		1		
	61	Positioner Type		Electro Pneumatic/ HART Communicating		
	62	MFR/Model		VTA		
	63	Input Signal		4 to 20 mA dc		
E/P	C4	Accessories Action		n. 1 off Air filter reducer in SS complete with pressure gauge		
POSITIONER	64			Compression Fittings in SS316L		
	65			Direct		
	66	Auto – Manual Switch		NO		
	67	Certification		ATEX, IP Cert		
	68	MFR	Model	VTA	VTA	
AIR SET	69			4.5 ~ 9.0 barg		
	70			1/4 NPT, SS316		
	71	Hydro. Pressure		YES, ASME B16.34		
	72	Leakage		YES, ANSI/FCI 70.2		
TESTS	73	Performance		YES		
	74	Material Test Certificate(s	5)	YES, UNE-EN 10204 3.1		

Note:

- 1) MECHANICAL POSITION INDICATOR SHOWING ACTUATOR/VALVE FULL STROKE.
- 2) FOR MORE DETAILS REGARDS PRESSURE DROP PLEASE REFER TO CONTROL VALVES SIZING.
- 3) CONSIDERED SAFETY FACTOR OF 1.4.
- 4) NON METALLIC MATERIAL SHALL BE COMPATIBLE WITH H2S AND SOUR SERVICE CONDITION.
- 5) FOR MORE DETAILS PLEASE CHECK CONTROL VALVE SIZING
- 6) WETTED PARTS MATERIALS SHALL MEET THE REQUIREMENTS OF NACE MR 0175/ISO 15156 (SSC REGION3) AND ALL CARBON STEEL MATERIAL SHALL BE HIC TESTED EXCEPT CASTING MATERIALS AND FORGING WITH S<0.025% WT. CA FOR 1500# MATERIALS IS 3.2 mm BASED ON PROJECT PMS.
- 7) ALL FLANGES SHALL BE ACCORDING TO ASME B16.5 WITH FOLLOWING ROUGHNESS:
 - 1500#: SMOOTH FINISH ROUGHNESS:63 MIN AARH FOR RTJ
- 8) THIS SIZE IS SELECTED DUE TO MANUFACTURER RECOMMENDATION FOR BETTER PERFORMANCE BASED ON CALCULATION OUTPUTS AND MORE TRAVEL ANGLE AT THIS SIZE. PERFORMANCE CURVE IS INDICATED IN APPENDIX A (SEE NEXT PAGE).
- 9) CARBON STEEL, ZINC PLATED (MIN. 25 MIC.) + BICHROMATE TREATED.

	CONTROL VALVE DATA SHEET	
	APPENDIX-A	
	(Performance Curve)	
FCV Pe	rformance Curve To be issued by manuf	acturer