



**CONTROL VALVE DATA SHEET FOR
GAS METERING PACKAGE**

Contract No.:

ARCP

F130AS

ENIN

DSVL

0002

V04

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**BODY
&
TRIM**

25	MFR	Model	Size & Type	VTA	VTA	4", Butterfly (Note 8)	
26	Body Style			Butterfly			
27	End Connect/In/Out			RTJ / Class 1500#			
28	Type/Opening			Flanged Type			
29	Body Material			Carbon Steel A216 WCB			
30	Flow Direction			Unidirectional			
31	Disc Material			A351 CF8M / hard Faced Finishing			
32	End Finishing			RTJ			
33	Seat Ring			Integral to the Body (Stellite HF) /			
34	Seat			ASTM A182 GR.F316 + Stellite Gr.6 /			
35	Leakage Class			In compliance with ANSI Class IV			
36	Shut-Off Classification			ANSI/FCI 70-2 and IEC 60534-4			
37	Stem Material			ASTM A 182 F51			
38	Yoke Type	Material		Bolted		ASTM A216Gr, WCB	
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 compliance with MSS SP68 and API 609 standards			
45	Max. valve travel			90° (Note 1)			
46	Max. valve Cv			VTA			

ACTUATOR

47	Actuator Type			Neumatic spring return diaphragm type				
48	Model			VTA				
49	Piston			Carbon Steel Piston with dynamic floating O ring seals				
50	Push Down To:			Clockwise to Close				
51	Supply:			Air				
52	To Actuator:	Min.	Normal	Max.	barg	4.5	8	9
53	Fail Position			Open				
54	Mounting			Manual Override				
55	Tubing			1/4 NPT, SS316				
56	Protection Type	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				



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

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APPENDIX-A
(Performance Curve)

FCV Performance Curve To be issued by manufacturer