

Mad Dog Phase 2 Project



INSTRUMENT DATASHEET

Pressure Regulator

M2-PCV -43400201

Z01	As Built (No Change)	DHP	2021-08-13	DJK	YHJ	
C01	Issued for Purchase	DE	2018-01-10	RS	DR/SK	
B01	Issued for Bid	DE	2017-10-12	LG	DR/SK	
A01	Issued for IDC	DE	2017-09-27	LG	DR	
Rev	Description	By	Date	Chkd	Appr	Client Endorser

	Sector Code: 20	System Code: 43
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Document Number & Revision		M2-PCV -43400201-SP	
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		GM004-IC-DAT-241-03660	Z01

Uncontrolled when printed or stored locally

GENERAL	1	Tag Number			M2-PCV -43400201				
	2	Service			CD DRUM TO LP FLR HDR				
	3	P&ID Number	Equipment Number		GM004-PR-PID-010-00133-00		NBD-434002		
	4	Line Number			3"-PJ-4340019-A01F				
	5	Line Material			PLAIN CARBON STEEL (ANSI B36.19 & B36.10)				
	6	Line Size	Line Schedule		3 in		XS		
	7	Insulation	Thickness						
PROCESS CONDITIONS	8	Process Fluid	Phase	State	Flashed Gas		Single Phase	Gas/Vapor	
	9				Units	Maximum	Normal	Minimum	
	10	Flow Rate			Sft ³ /min	43.76	36.5	9.14	
	11	Inlet Temperature			°F	117	117	117	
	12	Inlet Pressure			psi-g	9.97	9.98	10	
	13	Vapour Pressure			psi-a				
	14	Density / Specific Gravity							
	15	Viscosity			cP	0.00947	0.00947	0.00947	
	16	Delta P Available			psi				
	17	Cv	Cs	Cg	4.44 / 6.5 Open			250	
	18	Valve:	Fl*	Km*	0.91		0.83		
	19	Max. Shutoff Delta P			150		psi		
	20	Delta P Allowable	Sizing Delta P		4.97 psi		4.97 psi		
	21	Molecular Mass	Relative Density		41.19		1.422		
	22	Quality %	% Solids						
	23	Critical Pressure			psi-g				
	24	Compressibility	Sp Heat Ratio Cp / Cv		0.981		1.136		
	25	Trace Elements							
	BODY / TRIM	26	Valve Type			Back pressure Control			
		27	Body Size	Port Size		1 in		in	
		28	Number of Ports	Guiding		One		Stem	
		29	End Conn.	Size	Type	Rating	1 in	Flanged	150 # RF ANSI
		30	Body Material			CF8M SST			
		31	Packing Material			N/A			
		32	Seal Input						
33		Trim Form			Trim #2 316 SS				
34		Trim Material			316 SS				
35		Seat Material			TFE				
36		Required Seat Tightness			ANSI IV (standard)				
37		Max. Allowable Sound Level dBA			85 dBA				
38		NACE Compliance			MR-0175				
ACTUATOR / PILOT		39	Type: Reducing / Relief	Self / Pilot Operated		Relief		Self	
	40	Upstream / Downstream Regulation	Pilot Model Number*		Upstream				
	41	Supply to Pilot							
	42	Self Cont.	Ext. Conn.		Yes				
	43	Diaphragm Material			302 SS				
	44	Diaphragm Rating			psi-g				
	45	Housing Vent Connection			Screwed				
	46	Spring Range*	Spring Material		6-14 psi-g		SS (Green)		
	47	Set Point	Actuator Model Number*		10 psi-g				
	48	Failure Action (Open / Closed)			Close				
	49	Tubing Diamter & Material	Tube Fitting Type & Material				2507		
OPTIONS	50	Regulator	Supply Gauge						
	51	Internal Relief	Filter						
PURCHASE	52	Manufacturer*			FISHER				
	53	Model*			MR98H				
	54	Purchase Order Number			241IC017				

Notes: See notes



* information supplied by manufacturer unless already specified

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1. All components shall be tagged with SS engraved tag
2. ALL PNEUMATIC VENT PORTS SHALL INCLUDE A DUST EXCLUDER.
3. Bolting, nuts, gaskets, per GM004-PI-SPE-010-00081 Piping Material Specifications
4. Paint System -CS uninsulated per GPO-EN-SPE-06602
5. The rated Cv values not to exceed 10.2
6. Weight Aprox. 35 #;s
7. Valve Cv = 6.5

8. Spring Case max pressure: 125 PSIG, Case is vented.

				INSTRUMENT SPECIFICATION Pressure Regulator		 	
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