

Mad Dog Phase 2 Project



INSTRUMENT DATASHEET

Pressure Regulator

M2-PCV -64150001

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: 64
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Document Number & Revision	M2-PCV -64150001-SP	
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	GM004-IC-DAT-241-03667	Z01

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GENERAL	1	Tag Number			M2-PCV -64150001										
	2	Service			SAFETY SHOWER AND EYEWASH - PROD MOD										
	3	P&ID Number		Equipment Number		GM004-PR-PID-010-00638-00		Safety Shower Eyewash Station							
	4	Line Number			2"-WP-6415001-K01BM										
	5	Line Material			316 S.S.										
	6	Line Size		Line Schedule		2 in		80S							
	7	Insulation		Thickness											
PROCESS CONDITIONS	8	Process Fluid	Phase		State		Water		Single Phase		Liquid				
	9						Units		Maximum		Normal		Minimum		
	10	Flow Rate					AUS gal/min		20		20		20		
	11	Inlet Temperature					°F		100		75		40		
	12	Inlet Pressure					psi-g		120		120		120		
	13	Vapour Pressure					psi-a		0.9492		0.9492		0.9492		
	14	Density / Specific Gravity					lb/ft³		62.4		63.1		64		
	15	Viscosity					cP		0.68		0.91		1.53		
	16	Delta P Available					45				psi				
	17	Cv		Cs		Cg		7.7 (Cv Req 3)		Wide op Cv=18.1		700			
	18	Valve:		Fl*		Km*		0.94				0.88			
	19	Max. Shutoff Delta P					120				psi				
	20	Delta P Allowable		Sizing Delta P							45		psi		
	21	Molecular Mass		Relative Density							1				
	22	Quality %		% Solids											
	23	Critical Pressure					3208				psi-g				
	24	Compressibility		Sp Heat Ratio Cp / Cv							0				
	25	Trace Elements													
BODY / TRIM	26	Valve Type					Pressure Reduction								
	27	Body Size		Port Size			2 in				1.142 in				
	28	Number of Ports		Guiding			One				Stem				
	29	End Conn.	Size	Type	Rating	2 in		Flanged				150# RF ANSI			
	30	Body Material					316 SS								
	31	Packing Material					N/A								
	32	Seal Input													
	33	Trim Form					Cv 18.1 Trim #3								
	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			Reducing				Self				
	40	Upstream / Downstream Regulation			Pilot Model Number*		Downstream								
	41	Supply to Pilot													
	42	Self Cont.		Ext. Conn.			Yes								
	43	Diaphragm Material					PTFE								
	44	Diaphragm Rating												psi-g	
	45	Housing Vent Connection					Screwed								
	46	Spring Range*		Spring Material			60-120		psi-g		316 SS (Light Gray)				
	47	Set Point		Actuator Model Number*			75		psi-g						
	48	Failure Action (Open / Closed)					Close								
	49	Tubing Diamter & Material		Tube Fitting Type & Material											
OPTIONS	50	Regulator		Supply Gauge											
	51	Internal Relief		Filter											
PURCHASE	52	Manufacturer*					FISHER								
	53	Model*					MR95H								
	54	Purchase Order Number					241IC017								



Notes: See notes

* information supplied by manufacturer unless already specified

Z01	2021-08-13	DHP	DJK	YHJ	As Built (No Change)	INSTRUMENT DATASHEET Pressure Regulator	 	Sheet 2 of 3
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No.	Date	By	Chkd	Appr	Description	Code: 9208	Dwg. No.: GM004-IC-DAT-241-03667	Rev.: Z01

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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 -SS uninsulated per GPO-EN-SPE-06602
5. Weight 55#s, 14" Face to Face, 14.78" high
6. Max inlet & outlet pressure is 215 PSIG

				INSTRUMENT SPECIFICATION Pressure Regulator		 	
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