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Security Descriptor:

Z01 As Built (No Change)

C01 Issued for Purchase

Description

B01 Issued for Bid

A01 Issued for IDC

Rev

Project Internal

Mad Dog Phase 2 Project





INSTRUMENT DATASHEET

Pressure Regulator

M2-PCV -64150001

parts.

DHP

DE

DE

DE

Ву

m		
	ļ	
DJK	YHJ	
RS	DR/SK	
LG	DR/SK	
LG	DR	
Chkd	Appr	Client Endorser

Sector Code: 20 System Code: 64

2021-08-13

2018-01-10

2017-10-12

2017-09-27

Date

Document Number & Revision M2-PCV -64150001-SP

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Project Document Number Rev.:
GM004-IC-DAT-241-03667 Z01

Uncontrolled when printed or stored locally

	1 4	Tan Niveshau				MO DOV C44	E0004				
	1	Tag Number				M2-PCV -64150001					
	2	Service		I = .		SAFETY SHOWER AND EYEWASH - PROD MOD					
GENERAL	3	P&ID Number		Equipmen	t Number	GM004-PR-PID-010-00638-00 Safety Shower Eyewa			wer Eyewash Station		
	4	Line Number				2"-WP-6415001-K01BM					
		Line Material				316 S.S.					
	6	Line Size		Line Schedule		2	in	80S			
	7	Insulation		Thickness							
	8	Process Fluid Phase		State		Water	Single Ph				
	9					Units	Maximum	Normal			
	10	Flow Rate				AUS gal/min	20	20	20		
	11	Inlet Temperatur	re			°F	100	75	40		
		Inlet Pressure				psi-g	120	120	120		
	-	Vapour Pressur				psi-a	0.9492	0.9492	0.9492		
PROCESS	_	Density / Specif	ic Gravity			lb/ft³	62.4	63.1	64		
CONDITIONS		Viscosity				сР	0.68	0.91	1.53		
		Delta P Available	e			45		psi			
	17	Cv		Cs	Cg	7.7 (Cv Req 3)	Wide op		00		
	-	Valve:		FI*	Km*	0.94		0.88			
		Max. Shutoff De				120		psi			
				Sizing Delta P				45	psi		
	-	Molecular Mass		Relative Density				1			
		Quality %		% Solids							
	_	Critical Pressure	9	T		3208		psi-g			
		Compressibility		Sp Heat Ratio Cp / Cv		0					
	_	Trace Elements									
		Valve Type				Pressure Reduction					
	27	Body Size Port				2 in		1.142 in			
	-	Number of Ports		Guiding	1	One	1	Stem			
	-		Size	Туре	Rating	2 in	Flanged	1	50# RF ANSI		
	30	Body Material				316 SS					
BODY / TRIM		Packing Materia	1			N/A					
BODY / TRIM	32	Seal Input	1								
BODY / TRIM	32 33	Seal Input Trim Form	ıl			Cv 18.1 Trim #	3				
BODY / TRIM	32 33 34	Seal Input Trim Form Trim Material	al			Cv 18.1 Trim #	3				
BODY / TRIM	32 33 34 35	Seal Input Trim Form Trim Material Seat Material				Cv 18.1 Trim # 316 SS TFE					
BODY / TRIM	32 33 34 35 36	Seal Input Trim Form Trim Material Seat Material Required Seat 1	Fightness			Cv 18.1 Trim # 316 SS TFE ANSI IV (stand					
BODY / TRIM	32 33 34 35 36 37	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 5	Fightness Sound Level dE	3A		Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA					
BODY / TRIM	32 33 34 35 36 37 38	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 5 NACE Complian	Fightness Sound Level dE			Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175		lo-ir.			
BODY / TRIM	32 33 34 35 36 37 38 39	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing	Fightness Sound Level dE nce / Relief	Self / Pilot	•	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing		Self			
BODY / TRIM	32 33 34 35 36 37 38 39 40	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow	Fightness Sound Level dE nce / Relief	Self / Pilot	Operated ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175		Self			
BODY / TRIM	32 33 34 35 36 37 38 39 40 41	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot	Fightness Sound Level dE nce / Relief	Self / Pilot lation Pil	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream		Self			
	32 33 34 35 36 37 38 39 40 41 42	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont.	Fightness Sound Level dE Ince / Relief /nstream Regu	Self / Pilot	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes		Self			
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate	Fightness Sound Level dEnce / Relief /nstream Regu	Self / Pilot lation Pil	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream					
	32 33 34 35 36 37 38 39 40 41 42 43 44	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate	Fightness Sound Level dEnce / Relief /nstream Regu erial ng	Self / Pilot lation Pil	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE		Self psi-g			
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C	Fightness Sound Level dEnce / Relief /nstream Regu erial ng	Self / Pilot lation Pil Ext. Conn.	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed	ard)	psi-g	obt Oray)		
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range*	Fightness Sound Level dEnce / Relief /nstream Regu erial ng	Self / Pilot lation Pil Ext. Conn.	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120	psi-g		ght Gray)		
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 5 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn.	ot Model Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75	ard)	psi-g	ght Gray)		
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 5 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (0	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M	terial	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120	psi-g	psi-g	ight Gray)		
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (C Tubing Diamter	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M	terial dodel Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75	psi-g	psi-g	ght Gray)		
ACTUATOR /	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (C Tubing Diamter Regulator	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M Tube Fittin Supply Ga	terial dodel Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75	psi-g	psi-g	ght Gray)		
ACTUATOR / PILOT	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (C Tubing Diamter Regulator Internal Relief	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M	terial dodel Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75 Close	psi-g	psi-g	ght Gray)		
ACTUATOR / PILOT	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Seal Input Trim Form Trim Material Seat Material Required Seat T Max. Allowable S NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (C Tubing Diamter Regulator Internal Relief Manufacturer*	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M Tube Fittin Supply Ga	terial dodel Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75 Close FISHER	psi-g	psi-g	ght Gray)		
ACTUATOR / PILOT	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Seal Input Trim Form Trim Material Seat Material Required Seat 1 Max. Allowable 3 NACE Complian Type: Reducing Upstream / Dow Supply to Pilot Self Cont. Diaphragm Mate Diaphragm Rati Housing Vent C Spring Range* Set Point Failure Action (C Tubing Diamter Regulator Internal Relief	Fightness Sound Level dEnce / Relief /nstream Regu erial ng onnection Deen / Closed) & Material	Self / Pilot lation Pil Ext. Conn. Spring Ma Actuator M Tube Fittin Supply Ga	terial dodel Number*	Cv 18.1 Trim # 316 SS TFE ANSI IV (stand 85 dBA MR-0175 Reducing Downstream Yes PTFE Screwed 60-120 75 Close	psi-g	psi-g	ght Gray)		

Notes: See notes

* information supplied by manufacturer unless already specified

	mornation cappined by management amount of amo									
						INSTRUMEN	IT DATSHEET		bp	
Z01	2021-08-13	DHP	DJK	YHJ	As Built (No Change)	INOTROMENT DATORIES				
C01	2018-01-10	DE	RS	DR/SK	Issued for Purchase	Pressure Regulator				
B01	2017-10-12	DE	LG	DR/SK	Issued for Bid			LINGOS		
A01	2017-09-27	DE	LG	DR	Issued for IDC			Sheet 2	of 3	
No.	Date	Ву	Chkd	Appr	Description	Code: 9208	Dwg. No.: GM004-	-IC-DAT-241-03667	Rev.: Z01	

Tag Number: M2-PCV -64150001

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				bp
Z01	DHP	2021-08-13	As Built (No Change)					MAL
C01	DE	2018-01-10	Issued for Purchase				- 2	***
B01	DE	2017-10-12	Issued for Bid			LIRGOS		
A01	DE	2017-09-27	Issued for IDC	_		Sheet 3	of	3
No.	Ву	Date	Revision	Code: 9208 Dwg. No.: GM004-IC-DAT-241-03667				Rev.: Z01