

Cohlumbongon

	*						Schlum	berger		
		Su	pplier Name:	Schlumberger						
		Purchase	Order Title:	Glycol Regeneration Package						
	Equ	ıipment Taç	Number(s):	ZZZ-323000						
Sup	plier (Internal) De	ocument No:	P-AH023-01Z-	IE-520-0008	}				
	•			Project Docun						
·				se Order Number SDRL Code Seq. No Sht No						
		GM004	- 24	1ML002	- C13	- 0	0092			
DOC	UMEN	NT TITLE:	I	nstrument D	ata Shee	t Pressu	ıre Regi	ulator		
			DOC	JMENT REVIEW	STATUS					
CODE:			1	2	3		4	5		
NAME:			SH Choi							
SIGNAT	URE:		SH Choi							
DATE:			2020-07-03							
Review Le	<u>gend</u>			•	•	'				
CODE 1 Document is accepted as Final. Supplier Company.				r shall proceed with manu	ufacture. Any chanç	ges to the docum	nent shall requir	re resubmission to		
Signifies general acceptance of b that the comments are incorporat for final acceptance.										
CODE	CODE 3		note of the reasons for	d by Company to be non-compliant and/or unfit for purpose. Such documents shall be reviewed as for rejection and revise them accordingly. The revised document(s) shall then be resubmitted.						
CODE	CODE 4 documents given		Code 4 status may be	nany approval is not required and the documents will be incorporated into the EDMS "as is". Individual Is status may be required to be included in a data manual, which will be subject to a collective review and Impany approval. No further action required at time of submission.						
Code 5 Document has been		n cancelled or voided	and does not need to be	e progressed furthe	r. No further acti	on required at t	ime of submission			
Comments Summary										
				Issue Record	ļ		Ι	т —		
Z01	Z01	7/1/2020		As Built		R. Sankar	Hari S.	Ayu		
04	04	4/15/2019		Issued for Review	d for Review		Hari S.	A. Sitton		
03	03	1/19/2019		Issued for Review		R. Sankar	Hari S.	J.Collett		
02	02	3/24/2018		Issued for Review		R. Sankar	Hari S.	J.Collett		
01	01	7/17/2017		Issued for Review		Hari.S	R. Sankar	J.Collett		
Company Rev No	Supp Rev	Date		Reason for Issue		Prepared	Checked	Approved		
			The document of	consists of this front s	sheet plus 6 page	es.				



SUPPLIER DOCUMENT FRONT SHEET Mad Dog Phase 2 Project

Schlumberger

No.	Tag No.		ltem					
1	M2-PCV -32301	901	Pressure Regulators					
2	M2-PCV -32301		Pressure Regulators					
701	1. 101-20	As Built	I R. Sankar I	Hari S	Avu			
Z 01	1-Jul-20 12-Apr-19	As Built Issued for Review	R. Sankar Ram Sankar	Hari S. Hari.S	Ayu J.Collett			
Z01 04 03	1-Jul-20 12-Apr-19 19-Jan-19	As Built Issued for Review Issued for Review	R. Sankar Ram Sankar Ram Sankar	Hari S. Hari.S Hari.S	J.Collett			
04	12-Apr-19	Issued for Review	Ram Sankar	Hari.S	J.Collett J.Collett			
04 03 02 01	12-Apr-19 19-Jan-19	Issued for Review Issued for Review	Ram Sankar Ram Sankar	Hari.S Hari.S	J.Collett J.Collett J.Collett			
04 03 02	12-Apr-19 19-Jan-19 24-Mar-18	Issued for Review Issued for Review Issued for Review	Ram Sankar Ram Sankar Ram Sankar	Hari.S Hari.S Hari.S	Ayu J.Collett J.Collett J.Collett Approved			
04 03 02 01 Company	12-Apr-19 19-Jan-19 24-Mar-18 17-Jul-17	Issued for Review Issued for Review Issued for Review Issued for Review Reason for Issue	Ram Sankar Ram Sankar Ram Sankar Ram Sankar	Hari.S Hari.S Hari.S Hari.S	J.Collett J.Collett J.Collett			
04 03 02 01 Company	12-Apr-19 19-Jan-19 24-Mar-18 17-Jul-17	Issued for Review Issued for Review Issued for Review Issued for Review	Ram Sankar Ram Sankar Ram Sankar Ram Sankar	Hari.S Hari.S Hari.S Hari.S	J.Collett J.Collett J.Collett			
04 03 02 01 Company	12-Apr-19 19-Jan-19 24-Mar-18 17-Jul-17	Issued for Review Issued for Review Issued for Review Issued for Review Reason for Issue	Ram Sankar Ram Sankar Ram Sankar Ram Sankar	Hari.S Hari.S Hari.S Hari.S	J.Collett J.Collett J.Collett			

						_						_
	1 Tag Number							M2-PCV -32301901				
			2 Service					UTILITY AIR TO OVERHEAD CONDENSER PUMP				
GE	GENERAL			P&ID Number Equipment Number					002-C01-00015-0	04 PBE-32	3019	
	GENERAL			Number	=			1"-AU-32308		•		
			4 Line Number 5 Line Material					316 S.S. / 31				
		6 Line Size Line Schedule						1	in	80\$		
				lation		Thickness		ľ		1555		
			+	cess Flui	d Phase		tate	I Itility Air	Single F	Phase	Gas/Vap	oor
			_	ess riui	u Phase	31	late	Utility Air				
		9						Units	Maximum	Norn		Minimum
			Flov					Sft³/min	13.66	12.42		76
		1		t Tempera				°F	120	120		20
				t Pressur				psi-g	135	135	13	35
		13	3 Vap	our Press	sure			psi-a				
PF	ROCESS	14	1 Den	sity / Spe	ecific Gravity							
CC	ONDITIONS	15	Visc	osity				сР	0.0204	0.0204	0.	0204
		16	3 Delt	a P Avail	able			85	•	psi		
			7 Cv			Cs	Cg	0.045/0.149/0	0.164 -	•	 -	
		_	3 Valv	.e.		FI*	Km*	_			+	
				. Shutoff	Delta P	1	TKIII	200		psi		
		_	_	a P Allow		Sizing Delt	to D	200 85 psi		85		
		_							psi	00	ps	SI
1		_	_	ecular Ma	ass	Relative D	ensity	28.95		\perp		
			2 Qua			% Solids		<u> </u>		-		
1		_		cal Press				532.7		psi-g		
1			_	npressibil		Sp Heat R	atio Cp / Cv	0.9993		1.422		
<u> </u>		2	Trac	e Eleme	nts							
		26	Valv	е Туре				Pressure Re	duction (Note	9)		
1				y Size		Port Size		1	in	0.631	in	
1				ber of P	orts	Guiding		One		Stem		
1		_		Conn.	Size	Type	Rating	1 in	Flanged		150# RF	ANSI
1		_		y Materia		1.760	1	CF8M SST	į. iarigot		1.55/110	
D/	ODY / TRIM			king Mate				PTFE				
	ואוואו ווקטע		_		on lai			+				
1				I Input				N/A				
			+	Form	1			N/A				
				Materia				316 SST				
1		_		t Materia				316 SST				
		_	_		at Tightness			ANSI IV (standard)				
		37	/ Max	. Allowab	le Sound Level	dBA						
		38	NAC	CE Comp	liance			Note-7				
		_			ing / Relief	Self / Pilot	Operated	Reducing		Self		
		_					•			N/A		
Ī			Upstream / Downstream Regulation Pilot Model Number					N/A		1, ,		
			Supply to Pilot Ext. Conn.					Yes No				
۸٥	CTUATOR /		Self Cont. Ext. Conn. Diaphragm Material					FKM		INO		
										!		
	LOT			hragm F				215		psi		
			Housing Vent Connection					Screwed				
			Spring Range* Spring Material					25 to 75	psi		-coated s	teel
		47						50	psig	1E3990	27142	
		48	Fail	ure Actio	n (Open / Closed	d)		Close				
					ter & Material		g Type & Material		N/A	N/A		
		_	_	Regulator Supply Gauge				N/A		N/A		
OF	PTIONS	5	_	rnal Relie	ef	Filter	<u> </u>	N/A		N/A		
ľ	110110	52				1		†		P 4// 1		
								FISHER				
	53 Manufacturer*								1474400			
PU	JRCHASE	_	54 Model* 55 Purchase Order Number					M95H-3063-4471100				
<u> </u>		5	Puro	cnase Or	der Number			4511745993				
* : £ -	armatian	الحمثام	au	oufoot	runloco olas ad	anacific -						
-					r unless already	specified						
	Z01 1-Jul-20 Ram Hari.S Ayu As Built INSTI						UMENT DATS	HEET				
	12-Apr-19				Issued fo	r Review		_				
	22-Nov-18	Ram	Hari.S	J.C	Issued fo	r Review	Pre	Pressure Regulator				
03	02 24-Mar-18 F											
	24-Mar-18	Ram	Hari.S	J.C	issued to	i Keview		Sheet 1 of 1				
02	24-Mar-18 17-Jul-17		Hari.S Hari.S			r Review			s	heet 1	of	1
02			Hari.S		Issued fo		Code: 9208	B Dwa. N	s o.: GM004-24			

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Tag Number: M2-PCV -32301901
1. A 316 SS tag inscribed with tag number shall be securely attached to each instrument and Instrument tag plate details shall be as per Clause no. 18 of "GPO-EN-SPE-30353 - B02" for tag plate details. 2. Comply with GM004-IC-SPE-051-00001-005 & GPO-EN-SPE-30353 - B02 3. All pneumatic vent ports shall include a dust excluder. 4. Bolting, nuts & gaskets as per GM004-PI-SPE-010-00081 Piping Material Specifications 5. Design of Pressure Regulators shall confirm to ANSI/ISA-75 & the piping specification GM004-PI-SPE-010-00081 6. Paint System -SS uninsulated per GPO-EN-SPE-0602 7. Material shall confirm to Nace MR0175-2002 8. Design Temperature: 200 °F & Design Pressure: 200 psig 9. Diaphragm spring actuated with plug type trim
N/A-Not Applicable

	1	Tag Numb	205			M2 DCV 22	201002				
	2	Service)ei			M2-PCV -32301902 BLANKET GAS TO GLYCOL REBOILER					
GENERAL	3	P&ID Num	her	Equipment Nu	ımher	1		1			
GENERAL	4	Line Numb		Equipment No	illipei	GM004-241ML002-C01-00015-008					
	5	Line Mater				2"-GF-3230844-A03F					
	-	Line Size	IIai	Line Schedule		Carbon Steel 2" 160					
	6 Line Size Line Schedule 7 Insulation Thickness							100			
	8	Process F	luid Phase	State		LP fuel Gas	Single Pl	hase Gas	s/Vapor		
	9	1 100000 1	idia i iidoo	Totalo		Units	Maximum	Normal	Minimum		
	10	Flow Rate	<u> </u>			Sft³/h	19006	17279	5184		
	11	Inlet Temp				°F	140	140	140		
	12	Inlet Press				psi-g	110	110	110		
	13	Vapour Pro	essure			psi-a					
PROCESS	14	Density / S	Specific Gravity								
CONDITIONS	15	Viscosity				сР	0.011	0.011	0.011		
	16	Delta P Av	/ailable			98	•	psi	•		
	17	Cv		Cs	Cg	1.172/3.907/4	.297 -	<u> </u>			
	18	Valve:		FI*	Km*	-	·	-			
	19	Max. Shut		•		150		psi			
	20	Delta P All		Sizing Delta F		98	psi	98	psi		
	21	Molecular	Mass	Relative Dens	ity	26.37					
	-	Quality %		% Solids		-		<u>-</u>			
	23	Critical Pre		lo. 11 - 15 - 1	0: / 0	1366.1		psi-g			
		Compress		Sp Heat Ratio	Cp / Cv	0.968		1.1874			
						Duo	location (A)	0)			
		Valve Type		In. (0)		Pressure Red	luction (Note-				
	27 28	Body Size Number of		Port Size		2 One	in	1.142 Stem	in		
	29	End Conn		Guiding	Rating	2 in	Flanged		# RF ANSI		
	30	Body Mate		Туре	Raung	CF8M SST	Flanged	300	# KF ANSI		
BODY / TRIM	31	Packing M				PTFE					
BOD17 HAIW	32	Seal Input				N/A					
	33	Trim Form				N/A					
	34	Trim Mate				316 SST					
	-	Seat Mate				316 SST					
	36	Required S	Seat Tightness			ANSI IV (standard)					
	$\overline{}$		vable Sound Level	dBA		-					
	38	NACE Cor	mpliance			Note-7					
	39	Type: Red	lucing / Relief	Self / Pilot Op	erated	Reducing		Self			
	40	-	/ Downstream Reg	ulation Pilot N	1odel Number*						
	41	Supply to		1		N/A					
	42	Self Cont.		Ext. Conn.		Yes		No			
ACTUATOR /	43	Diaphragn				Neoprene (CF	₹)				
PILOT	44	Diaphragn				300		psi			
	-		ent Connection	la		Screwed		ъ .			
	-	Spring Ra	nge ⁻	Spring Materia		5 to 80	psi	Powder-coat			
	47	Set Point	tion (Open / Closed	Actuator Mode	ei Number*	12 Class	psig	ERCA04290	AU		
	-		tion (Open / Closed amter & Material	/	ype & Material	Close N/A	N/A	N/A			
<u> </u>	50	Regulator		Supply Gauge		N/A N/A	W/A	N/A N/A			
OPTIONS	51	Internal Re		Filter	•	N/A		N/A			
	52	ancinal ix	0.101	1		! "'		1.7/1			
	53	Manufactu	ırer*			FISHER					
PURCHASE	54	Model*	· - -			M95H-3063-4073000					
	-	Purchase	Order Number			4511745993					
* information suppli	ed by	y manufactu	urer unless already	specified							
Z01 1-Jul-20 Ra	201 1-Jul-20 Ram Hari.S Ayu As Built INSTI					UMENT DATSH	HEET				
04 12-Apr-19 Ra	am H	lari.S J.C	Issued fo			STRUMENT DATSHEET					
03 22-Nov-18 Ra			Issued fo	r Review	Pre	Pressure Regulator					
02 24-Mar-18 Ra											
					l _e		eet 1	of 1			
No. Date E	sy (Chkd Appr	Descr	ιρτιοπ	Code: 9208	שטן א J טwg. Nc) GIVIUU4-241	wiLUU∠-U73-00	0092 Rev.: Z01		

Tag Number: M2-PCV -32301902
1. A 316 SS tag inscribed with tag number shall be securely attached to each instrument and Instrument tag plate details shall be as per Clause no. 18 of "GPO-EN-SPE-30353 - B02" for tag plate details. 2. Comply with GM004-IC-SPE-051-00001-005 & GPO-EN-SPE-30353 - B02 3. All pneumatic vent ports shall include a dust excluder. 4. Bolting, nuts & gaskets as per GM004-PI-SPE-010-00081 Piping Material Specifications 5. Design of Pressure Regulators shall confirm to ANSI/ISA-75 & the piping specification GM004-PI-SPE-010-00081 6. Paint System -SS uninsulated per GPO-EN-SPE-06602 7. Material shall confirm to Nace MR0175-2002 8. Design Temperature: 200 °F & Design Pressure: 150 Psig 9. Diaphragm spring actuated with plug type trim
N/A-Not Applicable