

## EQUIPMENT DATA SHEET (INCL PREDICTED PERFORMANCE CURVE)

CLIENT : Air Products Manufacturing LLC

PROJECT NAME/NO. : WEP Renewables

CLIENT PO NO : 4505605360

HMD DOCUMENT NO : HMD-4505605360-C04-01

CLIENT DOCUMENT NO :

HMD PUMP NO : 839916 A/B

EQUIPMENT TAG NO : 18-P-250 A/B

2	06/09/2022	ISSUE FOR REVIEW	ARM	AFS	NW
1	30/05/2022	ISSUE FOR REVIEW	JLW	AFS	NW
0	04/03/2022	ISSUE FOR REVIEW	AFS	AFS	NW
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

**NOTE:** 



### **RESOLUTION SHEET**

Comment Number	Document Name: EQUI		Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	(Date Closed:)
1	Vendor to confirm that the Magnetic Material is in compliance to Table I.1 of API 685	Confirm. Noted, closed	1	Closed (06/09/2022)
2	DESIGN FOR FULL CURVE TORQUE REQUIREMENTS (9.1.3.7c)  TORQUE REQ'D FOR FULL CURVE (120% BEP), (9.1.3.7c)  REQUIRED/ACTUAL SERVICE FACTOR (9.1.3.8)  SUBMIT MAG-COUPLING TORQUE VS TEMP. CURVE  SUBMIT SPEED VS TORQUE CURVE (9.1.3.10)  YES  YES	Noted and updated. Noted, closed	1	Closed (06/09/2022)
3	53 HER12 60 80% 54 MINIMUM STARTING VOLTAGE 80% 55 INSULATION CLASS Specify Details F 56 FULL LOAD AMPS 57 LOCKED MOTOR AMPS 58 START CONDITION OPEN VALVE (FULLY-LOADED)	Noted and updated. Noted, closed	1	Closed (06/09/2022)



# WORLD ENERGY PARAMOUNT World Energy Renewables Project Paramount, California

MECHANICAL EQUIPMENT DATASHEET

Document Number: A8KM-18-088-540132-A

Rev. 2, 06-Sep-2022

EN203076-FLUOR-GD1-00034



#### **WORLD ENERGY RENEWABLES PROJECT**

## MECHANICAL EQUIPMENT DATA SHEET FOR 18-P-250A/B ACID GAS STRIPPER BOTTOMS PUMPS

Document No. A8KM-18-088-540132-A

Fluor Project No: A8KM

REV	DATE	DESCRIPTION	PAGES	ORIG	CHK'D	APPV'D	CLIENT
0	4-Mar-2022	Issue for Review	8	AFS	AFS	NW	
1	30-May-2022	Issue for Review	7	JLW	AFS	NW	
2	6-Sep-2022	Issue for Review	7	ARM	AFS	NW	

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					1				85, Secon			ın		o.: 4-616-P		
												S	heet	2 <b>of</b>	8	REV
1		orld Ene														
2	SERVICE: A			Bottoms	•		_		rld Energy					nount, CA		
3	NO. REQ'D :	2 x 100%	% (Note 2	1) PUMI	P SIZE :	3	x 1.5	x 6	Т	YPE:	MAGNE	ETIC DRIVEN	NO. ST	TAGES :	1	
4	MANUFACTU	IRER:	Sundyne	HMD Ko	ntro				N	/ODEL	: GS	P Frame 1	SERIA	AL NO.:	839916 A/B	
5	APPLICABLE T	0 :	(	PURC	HASE				<u>-</u>							
6	INFORMATION B	ELOW TO	O BE CO	MPLETED	): Ов	Y PURCHAS	SER	BY S	SUPPLIER		О ву	/ EITHER				
7				IQUID C	HARACTE	RISTICS						)PERATING	G CONDI	TIONS - CO	ONTINUED	
8	LIQUID TYPE C	R NAME:		Ac	id Gas Stri	pper Botton	าร		NOTE		SERVICE	•		C	CONTINUOUS	
9			UNITS	S MA	XIMUM	NORMA	\L	RATE	D .	E: Max, n, &	*IF INTER	MITTENT NO	D. OF STA	RTS / DAY		
10	VAPOR PR	ESSURE:	psi (a	)				108.6		ated	PUMPS O	PERATE IN:				
11	SPECIFIC (	GRAVITY:	- '					0.90	value	s refer	TEMPERA	ATURE - VAF	OR PRES	S. CURVE		
12		IC HEAT:	BTU/lbm	°F				1.045	only	to the		ON DUE TO		_	Note 2.2	
13		SCOSITY:	cP					0.16	pro	perty ted		DUE TO: (6	`	·		
14				FRATING	CONDITI	ONS (6.1.2	1	00	113	tcu		CENTRATIO	,	(6 10 1 11)	1,239 ppmw	
15					IAXIMUM	RATED	<del>'</del>	NORMAL	MININ	ALIM		E CONCENT		_	.,200 рр	
16		NPSHa D		W W		C.L. IMPELLI	=R - 3			//OIVI		LATE SIZE (I	,	,		
17		MPING TE		°F	380.0	327.0	( - 3	327.0	340			LATE SIZE (I LATE SIZE D		′ _		
18				ıpm	000.0	151.0		137.3	54.	9		LATE SIZE D		_		
19	DISCHARGE			sig		157.8		107.3	04.			LAR HARDN		(ppiii).		
20		N PRESSI	′ <del> </del> —-		199.1	100.4								(h_ft-°E\		
20	DIFFERENTIA			osig	133.1	57.4						. CONDUCTI . EXPANSIO		/in/°F		
21		ENTIAL H		psi ft		147.1								/in/ F RISTICS: (6.	1 3 3)	
	DIFFER		SH <sub>A</sub> :	ft		16.7		'valudaa v	equired 3' n		POLTIVIER	KIZATION CF	IARACTE	(131103. (0.	1.3.3)	
23	LIVDDA	ULIC POV	, ·	HP		5.06		xciuues re	equireu o n	naryını						
24	ПТОКА	OLIC POV	VER.	пР		8	CITE	· AND LIT	ILITY DAT	- A						
25	LOCATION:						SIIE	ANDUI			R: IF APPL	ICABI E				
26	OUTDO	OD		UNHEA	TED				COOLING	WAIE	K: IF APPL		RETURI	NI	MECH. DES	ICN .
27	MOUNTED AT:	JUK	GRADE	UNHEA		ROPICALIZA	TION	DEO'D	TEMP		°F	INLET 80		MAX	150	IGN
28		- 4 01 4 00		<b>.</b>	_			KEQD		יחר			120 35			
29	ELECTRICAL ARE					ON CLASSIF			PRESSU		psig	45		MIN	120	
30	CLASS: I		ROUP:	B,C,D	DIVIS		2		SOURC			DIDE 00110	Cooling		-0.40	
31	ZONE:		GROUP:		IEM	IP. CLASS	1,	3C	COOLIN	IG WA	TER CHLO	RIDE CONC	ENTRATIC	)N:	<840	ppmw
	SITE DATA:	,		<b>.</b>	D. A. D. O. M. E.	TED 4					<b>5 14 1 1 1 1 1 1 1 1 1 1</b>	21/4				
33	ELEVATION (MSL	·	69	ft	BAROME	_	4.7		INSTRUME			N/A	psig	MIN:	N/A psig	
34	RANGE OF AMBII			MAX	35	/ 10		-	NITROGE	N:	MAX:		psig	MIN:	psig	J
35	RELATIVE HUMID		/ MAX		AVG	/ 54	4	%				550				
36	UNUSUAL COND								STEAM			DRIVE	-RS	HEATING		
37	UTILITY CONDITI								TEMP		F MAX					
38	ELECTRICITY:	DRIVE		HEATING			strume				MIN					
39	VOLTAGE	460		120		20	24V		PRESS.	ps	sig MAX					
40	PHASE	3		1		1					MIN					
41	HERTZ	60		60	6	60										
42	<u> </u>								<u> </u>							
43	0.4.6	_	(4)		(4)			NOT						41 - 61 - 1		
44	2.1 2 x 100% pu		(1) opera	iting & on	e (1) spare.	Pump is siz	ed to	keep the	pumped flu	ııd at ti	ne inlet of t	tne control v	alve abov	e tne fluid v	apor	
45	pressure + 2	•														
46	2.2 Corrosive co	•	ns disso	ved in wa	ter (ppmw)	:										
47	CO2 = 1.6 pp															
48	H2S = 1,239															
49	NH3 = 8,584															
50	2.3 Pump center	rline is as	sumed to	be 3'-0" a	bove grad	e and 27" ab	ove to	op of foun	dation. Pur	np Su	oplier shall	adjust the I	NPSHa bas	sed on the a	ctual pump	
51	centerline el					minimum N	PSH n	nargin of 3	3 ft or 10%,	which	ever is hig	her, is requi	red at 110	% of Rated t	flow.	
52	2.4 Pump Contr	ol Method	: Flow co	ontrol valv	e.											
53	2.5 Motor shall	be rated f	or Class	1, Div 2, G	r B,C,D and	d Temperatu	re Co	de T3C.								
54	2.6 Pump suppo	orts shall	meet des	ign load re	equirement	s per Projec	t Spe	c. A8KM-F	PP-000-4000	)2-A, S	tructural D	ata for Mec	hanical Ec	uipment, ar	ıd	
55	A8KM-PP-00	0-20001-4	A, Plant S	ite Data S	heet.											
56																
57																
58																
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Note: This Data Sheet has been modified from that in

	Contract:	A8KM
	Item No:	18-P-250A/B
Ī	Revision:	2 Date: 6-Sep-22
Ī	Unit:	SWSPlus Unit
Ī	Doc. No.:	A8KM-18-088-540132-A
Ī	Inquiry No.:	4-616-PO-2

						Annex R of API 685, Second Edition.						
								DMANOE	Sheet	3 <b>of</b>	8	
	_		(0) 1/5	2			EKFO	RMANCE				
PROPOSAL CURVE N	_	K	(2H/50-	2	RPM	3480		ROTOR CHAMBER TEMP RISE C	OPERATING:			
As Tested Curve No								AT RATED CONDITIONS				°F
IMPELLER DIA.: RA		6.3	MA		MI		in	AT MAXIMUM PUMP FLOW				°F
HYDRAULIC EFFICIEN	ICY AT	RATED	POINT:			55	%					
HYSTRERESIS & MEC	HANIC	AL LOSS	SES:				HP					
RATED POWER:	11	1.4	HF	PEFFIC	IENCY:	45.3	%	SOUND LEVELS (AT 3 FT)				
RATED CURVE BEP F	FLOW (a	at rated i	mpeller	dia.)		179	gpm	MAX ALLOWABLE SOUND PR	RESSURE LEVE	EL	85	dB
MIN. FLOW THE	RMAL :	3.52	gpr	n ST	ABLE :	16.38	gpm	ESTIMATED MAX SOUND PRE	ESSURE LEVE	L	68	dB
PREFERRED OPERA	TING RI	EGION: (	(6.1.11)	125	5.30 to	214.80	gpm	SYST	TEM DESCRI	PTION		
ALLOWABLE OPERA	TING RE	EGION:		16	.38 to	233	gpm	SUCTION VESSEL:			CLOSED	
MAX. HEAD @ RATE				169	ft	PUMP LOCATION:		BELO\	W LIQUID LEVEL			
MAX. POWER @ RAT				13.4	HP	SUCTION VESSEL ON LEVEL CO	NTROL?		YE	S		
PERCENT RISE TO SI	HUTOFF	F:				14.89	%	PRESSURE SENSOR ON SUCTION	ON VESSEL?		N	0
ORIFICE USED TO ST	EEPEN	CURVE	OR GIV	/E CONT.	RISE	NO		SUCTION VESSEL PRESSURE M	AINTAINED BY	Y LIQUID LE	VEL PLUS:	
NPSH3 at RATED FLO						7.87	ft	FLUID VAPOR PRESSURE			,	
	NPSH3 at RATED FLOW : CL PUMP TO U/S BASEPLATE:					1.39	ft	IF FLUID LEVEL OR TANK PRESS	SURE DROPS	TOO I OW	WILL	
NPSH MARGIN at RA			8.83	ft	SYSTEM AUTOMATICALLY			YE	S			
SPECIFIC SPEED: (6.	gpm,rpm		1044	11	WILL THE PUMP RUN DRY IN NO			N				
•	96111,16111	·				ZI NIZIE OFERA	OIV:	- N				
	SUCTION SPECIFIC SPEED LIMIT: SUCTION SPECIFIC SPEED: qr					9,000		REMARKS:				
SUCTION SPECIFIC S	OFEED:			gpm,rpm	,ıt	8950	ONET	STRUCTION				
API PUMP TYPE:	OH2	ום.	2004 00	API 610 D	Opfinitions <sup>1</sup>	C	II CNO	CASING MOUNTING:	ENTERLINE			
ALIFUNIFIIFE.	UHZ	[D	uo <del>c</del> u UN	ALIUIUL	/GIIIIIIIU/I18]			CASING MOONTING:				
NOZZI E CONNECTIO	NO. (C. 4	4.5\						` '		GLE VOLU	16	
NOZZLE CONNECTIO				ATING		CITION		ROTATION: (VIEWED FROM COUPLING END)  CASE PRESSURE RATING:				
SIZ		FACING	K	ATING	PC	OSITION				. 0		۰.
SUCTION 3		RF		300		END		MAWP: (6.2.2)		sig @	390	°F
DISCHARGE 1.5		RF	010	300		ТОР		HYDROTEST: 8		sig @	100.4	°F
					DLT LENGT	Н		TYPE BOLTING USED ON PU	,			
PRESSURE CASING A					·			AUXILIARY CIRCULATION PIPIN	G PLAN			
1	NO.	SIZE	TYPE	FACING	RATING	POSITIO	ON	PIPING FORM:				
		1										
PURGE/FLUSH OUT	-	-	-	-	-	-		PIPING MATERIAL:				
PURGE/FLUSH OUT DRAIN	- 1	- 3/4	- BW	- RF	- 300LB	- SIDE		PIPING MATERIAL: PIPING ASSEMBLY:				
DRAIN	1	- 3/4 -	BW -	- RF -	300LB	SIDE		_				
DRAIN VENT	- 1 - 1	- 3/4 - 1	BW -	- RF	300LB - 300LB	SIDE -		PIPING ASSEMBLY:				
DRAIN VENT PRESSURE SENSOR	-	-	-	-	-	-		PIPING ASSEMBLY:	NTS:	N	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR	-	-	-	-	-	-		PIPING ASSEMBLY:  IF FLANGED:	ITS:	N	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE	-	-	-	-	-	-		PIPING ASSEMBLY:  IF FLANGED:  COOLING WATER REQUIREMEN	NTS:	N	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL	-	-	-	-	-	-		PIPING ASSEMBLY: IF FLANGED: COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN	ITS:	N	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL	1 - 1	- 1 - -	- BW - -	- RF - -	300LB - -	SIDE		PIPING ASSEMBLY:  IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM:	ITS:	N	OT APPLICABLE	<b>!</b>
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL	1 - 1 - - - 1	- 1 - - - 3/4	BW BW	- RF - -	300LB - -	SIDE		PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL:	ITS:	N	OT APPLICABLE	•
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN	1 - 1 1 1 REQUI	- 1 - - 3/4	- BW - - - BW	RF - - - RF	300LB - -	SIDE SIDE	ES.	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY:	ITS:	N gpm	OT APPLICABLE	: :
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT	1 - 1 1 - 1 REQUI	- 1 3/4  RED (6.3	BW BW 3.3.5):	RF	300LB 300LB	SIDE SIDE - YE	ES O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED:		gpm	OT APPLICABLE	:
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIO	1 - 1 1 - 1 REQUI	- 1 1 3/4 SECON LE THRC	BW BW 3.3.5):	RF	300LB 300LB	SIDE SIDE YE	ES O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET		gpm	OT APPLICABLE	:
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIO ROTOR CAVITY DR DRAIN VALVE SUPI	1 - 1 1 TREQUI	- 1 3/4 SECON LE THROSY:	BW BW 3.3.5):	RF	300LB 300LB	SIDE  - SIDE  - SIDE  YE NO N/A	ES O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER		gpm gpm gpm		
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIO ROTOR CAVITY DR DRAIN VALVE SUPP	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- 1 3/4  IRED (6.: SECON LE THRC 3Y: Y:	BW BW 3.3.5):	RF RF CASING ND DRAIN	300LB 300LB	SIDE  SIDE  YE NO N/A	ES O VA SER	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS:		gpm gpm gpm	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS	TO SECOND	1 3/4  IRED (6.3  SECON LE THRO BY: Y: CONDAF	BW BW 3.3.5): DARY (OUGH 2)	RF RF  CASING ND DRAIN	300LB 300LB	SIDE  SIDE  YE NO N/A PURCHAS	ES O VA SER	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM	gp	gpm gpm gpm N		
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS SPECIAL FITTINGS	TO SEC	IRED (6.: SECON E THRO SY: CONDAF	BW  - BW  3.3.5): DARY (DUGH 2)  RY CAS ONING	RF RF CASING ND DRAIN ING: (6.3.3.2):	300LB 300LB	SIDE  - SIDE  - SIDE  YE NO N/A PURCHAS	ES O //A SER O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS:	gp	gpm gpm gpm		
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPI VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  YE NO N/A NO NO	ES O //A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING	gp	gpm gpm gpm N		
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS SPECIAL FITTINGS	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  - SIDE  YE NO N/A PURCHAS	ES O //A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMEN COOLING WATER PIPING PLAN PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR:	gp	gpm gpm gpm N	OT APPLICABLE	
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPI VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  YE NO N/A NO NO	ES O //A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE	gp M/	gpm gpm gpm <b>N</b> om ATERIAL:	OT APPLICABLE  CLOSED	<u> </u>
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPI VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  YE NO N/A NO NO	ES O //A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF	gp M/ R RINGS REQU	gpm gpm gpm NOM ATERIAL:	OT APPLICABLE  CLOSED  YES	: :
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPI VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  YE NO N/A NO NO	ES O //A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF	gp M/ R RINGS REQU NGS REQUIRE	gpm gpm gpm NOM ATERIAL:	CLOSED YES YES	E
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPI VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI	TREQUIDED BY TO SEC FOR THE EADS R	IRED (6.3 SECON LE THROUGH Y: CONDAFRANSITI	BW  - BW  3.3.5): DARY ( DUGH 2  RY CAS ONING ED (6.3.3	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3):	300LB 300LB	SIDE  - SIDE  YE NO N/A NO NO	ES O /A SER O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF RENEWABLE CASE WEAR RINT COMPONENT BALANCE TO IS	gp M/ R RINGS REQU NGS REQUIRE	gpm gpm gpm NOM ATERIAL:	OT APPLICABLE  CLOSED  YES	E
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI MACHINED AND ST	TREQUIDED BY TO SECUED BY TO SE	IRED (6.3 SECON LE THROSY: Y: CONDAFRANSITI REQUIRE D) CONNE	BW  BW  BW  3.3.5): DARY ( DUGH 2  RY CAS ONING D (6.3.6) ECTION	RF	300LB 300LB	SIDE  SIDE  YE  NO  N/A  NO  NO  NO	ES O VA SER O O O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF RENEWABLE CASE WEAR RINT COMPONENT BALANCE TO IS	gp M/ R RINGS REQU NGS REQUIRE SO 1940 G1.0	gpm gpm gpm NOT ATERIAL:	CLOSED YES YES	E
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI MACHINED AND ST	TREQUIDED BY TO SECUED BY TO SE	IRED (6.3 SECON LE THROSY: Y: CONDAFRANSITI REQUIRE D) CONNE	BW  BW  BW  3.3.5): DARY ( DUGH 2  RY CAS ONING D (6.3.6) ECTION	RF	300LB 300LB	SIDE  SIDE  YE  NO  N/A  NO  NO  NO	ES O VA SER O O O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF RENEWABLE CASE WEAR RINT COMPONENT BALANCE TO IS	gp M/ R RINGS REQU NGS REQUIRE SO 1940 G1.0	gpm gpm gpm NOT ATERIAL:	CLOSED YES YES	E
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN  GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI MACHINED AND ST	TREQUIDED BY TO SEC FOR THE EADS RECORDED	IRED (6.3 SECON LE THROSY: CONDAFRANSITI REQUIRED CONNE	BW  BW  BW  3.3.5): DARY (DUGH 2  RY CAS ONING ECTION	- RF RF RF  CASING ND DRAIN  ING: (6.3.3.2): 3.11.3): S (6.3.3.7)	300LB 300LB - 300LB	SIDE  SIDE  YE  NO  N/A  NO  NO  NO	ES O VA SER O O O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF RENEWABLE CASE WEAR RINT COMPONENT BALANCE TO IS	gp M/ R RINGS REQU NGS REQUIRE SO 1940 G1.0	gpm gpm gpm NOT ATERIAL:	CLOSED YES YES	E
DRAIN VENT PRESSURE SENSOR TEMP SENSOR WARM-UP LINE EXTERNAL 2ND DRAIN GUSSET SUPPORT DRAIN CONNECTIC ROTOR CAVITY DR DRAIN VALVE SUPP VENT VALVE SUPP NO THREAD CONS SPECIAL FITTINGS CYLINDRICAL THRI MACHINED AND ST	TREQUIDED BY TO SECUED BY TO SE	1 3/4 IRED (6.3 SECON LE THRC BY: CONDAFRANSITIREQUIRED CONNE	BW  BW  BW  BW  BW  BRY CAS  COUGH 2  BY  CAS  COUGH 2  COUGH 2  BY  CAS  COUGH 2  BY  COUGH 2  BY  COUGH 2  BY  COUGH 2  BY  COUGH 2  BY	RF - RF - RF CASING ND DRAIN ING: (6.3.3.2): 3.11.3): S (6.3.3.7) have flanging to ASN	300LB 300LB	SIDE  SIDE  SIDE  YE  NO  N/A  NO  NO  finish of 1	ES O VA SER O O O O	PIPING ASSEMBLY: IF FLANGED:  COOLING WATER REQUIREMENT COOLING WATER PIPING PLANT PIPING FORM: PIPING MATERIAL: PIPING ASSEMBLY: IF FLANGED: FOR: JACKET HEAT EXCHANGER TOTAL COOLING WATER HEATING REQUIREMENTS: HEATING MEDIUM HEATING PIPING  ROTOR: IMPELLER TYPE RENEWABLE IMPELLER WEAF RENEWABLE CASE WEAR RINT COMPONENT BALANCE TO IS	gp M/ R RINGS REQU NGS REQUIRE SO 1940 G1.0	gpm gpm gpm NOT ATERIAL:	CLOSED YES YES	E

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Note: This Data Sheet has been modified from that in Annex R of API 685. Second Edition.

I	Contract:	A8KM			
I	Item No:	18-P-2	250A/B		
I	Revision:	2	Date:	6-Sep-22	2
I	Unit:	SWSP	lus Unit		
I	Doc. No.:	A8KM	-18-088-540	0132-A	
I	Inquiry No.:	4-616-	-PO-2		
ı	Shoot	1 of	Q		DE

				Annex R of API	685, Second Ed	ition.	Sheet 4	of 8	F	REV
1			-	CONSTRUC	TION (CONT'D)					
2		MATERIA	L (6.10.1.1)			MAGNETIC DRIV	EN PUMP SPE	ECIFIC (9.1)		
3	APPENDIX H CLASS:		S-8: CS / 316 SS	3	DRIVER TYPE	MOTOR	GEA	AR NO		
4	MINIMUM DESIGN M	ETAL TEMP (6.10	.4.1) p	osig @ <mark>32</mark> °l	CLOSE COUPLE	ED DESIGN APPROVI	ED (9.1.1.2):			
5	IMPACT TEST SPECI	IFICATION			DESIGN FOR RE	EMOVAL OF DRIVE E	ND WITHOUT [	DISTURBING THE		
6	REDUCED HARDNES	SS MATERIALS RE	EQ'D (6.10.1.11)	YES	PRESSURE	E CASING OR DRIVE	₹ (9.1.1.4):	YES		
7	APPLICABLE HARDN	IESS STANDARD	(6.10.1.11)	MR0103	DESIGN CONTA	AINMENT SHELL FOR	VACUUM (6.2.4	4):		
8	COPPER IN CONTAC	CT W/ PROCESS F	LUIDS	NOT ALLOWED	CONTAINMEN	NT SHELL VACUUM [	ESIGN:	psig		
9	CASING & COVER:	Carbon Steel (A	ASTM A216 WCB)		MAGNETIC COL	JPLING TYPE:		SYNCHRO	NOUS	
10	IMPELLER:	316L Stainless	Steel (ASTM A744 0	CF3M)	MAGNETS:		OUTER	INNE	₹	
11	SHAFT:	316L Stainless	Steel (BS EN 10088	-3 1.4404)	MAGNETIC MAT	ΓERIAL	Samarium Co	balt (fully encaps	ulated)	
12	WEAR RINGS:	316L Stainless	Steel Hard Faced		MOUNTING MET	THOD	Bonded	Bonded/P	otted	
13	CONTAINMENT SHE	LL/STATOR LINE	R: 316L Stainless	Steel / Alloy C 276	TEMP. LIMIT	°F	500	500		
14	INNER MAG SHEATH	I/ROTOR LINER:	316L Stainless Stee	el - Ceramic Potted	HERMETIC. SEA	ALED	No	Yes		
15	BEARING SLEEVE:		Silicon Carbide	•	NO. OF MAGNE	TS	Proprietary	/ Propriet	ary	
16	BEARING BRUSHING	3:	Silicon Carbide	)	PROTECTION C	OF OUTER MAG RING	` '			
17	STATOR HOUSING/F	RAME:			STARTING REQ	UIREMENT:		ACROSS-THE-LII	NE	
18	INSPECTION CLASS		LEVEL 2			IG (DECOUPLING)		53.1	ft-lb	
19			IGN CODE REFE	-		REQ'D ON STARTING	` ,	3.47	ft-lb	
20	THESE REFERENCE					AT RATED (+5%), (9	,	17.26	ft-lb	
21	SOURCE OF MATE	ERIAL PROPERTI	ES	ASTM		JLL CURVE TORQUE		( /	/ES	
22					TORQUE REQ'D	FOR FULL CURVE (	120% BEP), (9.1	1.3.7c) 2	0.28 ft-lb	
23	CASTING FACTORS		,			UAL SERVICE FACT	` ′		3.1	2
24			ND REPAIRS			OUPLING TORQUE V			/ES	
25	ALTERNATE WELDING		ANDARDS		SUBMIT SPEED	VS TORQUE CURVE	, ,		/ES	
26	WELDER QUALIFICA	ATION				BEARINGS ANI		_ , ,		
27	WELD PROCEDURE					BEARING (TYPE / N	UMBER): See No		requirements	
28	MP OR LP EXAM OF				RADIAL	BALL	1	6209		
29	POST WELD HEAT T				THRUST	BALL	1	6209		
30	POST WELD HEAT T				LUBRICATION N			OIL BATH		
31	ALTERNATE STD/ACC	EPT CRITERIA AF	PPLIES		OIL VISC. ISO G		VG	68		
32				l		/EL OILER (9.1.4.2.1)				
33	INSPECTION	METHOD	CASTINGS	FABRICATIONS	PREFERENCI			Note 5.2		
34	RADIOGRAPH				HOUSING VENT			Required		
35	ULTRASONIC					FOR REQUIRED (9.1.	4.2.2)			
36	MAG PARTICLE				BEARING HOUS	SING END SEALS		Inpro or Equal		
37	LIQ PENETRATE				00110111101111	SHAFT COUPLI		,		
38	VISUAL			10, 0	COUPLING MAN			ohn Crane	5.540	
39	MOTOR REQUIRE	MENTS APPLIC			MODEL	Metastream TSKS		PACER LENGTH		
40	MANUFACTURER:			LDOR	RATING (POWE			ERVICE FACTOR		
41	FRAME OR MODEL:		2	56 T		ANCED TO ISO 1940	-1G6.3 (9.1.5.2.)	3)	G2.5	
42	ORIENTATION:			HORIZONTAL		ISO 14691 (9.1.5.2.9)	5044)	ANGLE	45.4	
43	NAMEDIATE DOME	D	5	45		ARD STANDARD (9.1.	,	ANSI B		
44	NAMEPLATE POWER	T.	HP	15 1.15		ZARD ASSESSMENT	•	1.∪.∠.11.5)	N/A YES	
45 46	SERVICE FACTOR			1.15 3480	SPARK RESIS	STANT MATERIAL (9.	-	`	IEO	
46	NOMINAL RPM RATED LOAD RPM			3400	ADIDAGEDIATI	BASEF E NUMBER (9.1.5.3.3	PLATE (9.1.5.3	1		
47 48	VARIABLE SPEED R	EOLIIRED		NO		NSTRUCTION (9.1.5.3.3)		FULL TOP DEC	KING	
	SOURCE OF VARIAE			NO	BASEPLATE DR	•	3.1.1).	DRAIN RIN		
49 50	OCURCE OF VARIAB	SEE OF LED			MOUNTING:	W WINCOL (1.3.1)		EPOXY GROU		
50	VOLTAGE			460		ONSTRUCTION (9.1.5	(3 13)	NOT REQUIR		
52	PHASE			3		SIGN (9.1.5.3.14):		NOTINEQUIN		
53	HERTZ			60		NLESS SPACER PLAT	F UNDER ALL	FOUIP FFFT (0.1	5.3.6):	
53 54	MINIMUM STARTING	S VOLTAGE		80%	I NOVIDE STAIN	TELOG OF AGENTEAT	L ONDEN ALL	LQOII . I LEI (3.1.	.0.0.0).	
55 55	INSULATION CLASS			F	OTHER	Furnish two (2) diagor	nally opposed are	ounding provisions	Note 6.3	
56	FULL LOAD AMPS			17	CITICIX	SEPARATE MOT			11010 0.0	2
57	LOCKED MOTOR AM	/IPS		114	APPLICABLE SF		ENCLOSUR			2
58	START CONDITION	<del>-</del>	OPEN VAI VE	FULLY-LOADED)	INCLUDE: SPAC		VIB. SENSO			
59	I II II I JONESTION				LUBRICATION:		521100			
60						R BEARING (TYPE / N	UMBER):	1		
61					RADIAL		1			
62					THRUST		i		i	

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Note: This Data Sheet has been modified from that in

Contract:	A8KM
Item No:	18-P-250A/B
Revision:	2 Date: 6-Sep-22
Unit:	SWSPlus Unit
Doc. No.:	A8KM-18-088-540132-A
Inquiry No.:	4-616-PO-2
01	

		Annex R of API	685, Second E	dition.		<u> </u>	4-616-PO-2	<u>'</u>	
			·			heet 5			
1	CANNED MOTOR PUMP	• • • • • • • • • • • • • • • • • • • •	1		ARATION FO	OR SHIPME			
2	MOTOR WINDING INSULATION CLASS (9.2.2.8		TYPE OF SHIP	-	1):		EXP		
3	SOLID OR LIQUID HEAT TRANS. MEDIA ALLOV		EXPORT BO	XING		Ti	imber Box (C	ertified Wood)	
4	DESIGN MOTOR FOR FREQUENT STARTS (9.3	2.2.9)							
5	STARTS PER		N2 PURGE [	DURING SH	IPPING (9.2.8	.4)			
6	IMPACT ON LIFE:		OUTDOOR STORAGE MORE THAN 6 MONTHS YES						
7	DESIGN MOTOR FOR (9.2.2.9):		PURGE DURING STORAGE (9.2.8.4)						
8	UL, FM, ATEX OR EQUIVALENT REQUIRED (9.	2.2.10)	DETAILS OF LIFTING DEVICES						
9	CERTIFICATION OF IEEE 252 TEST REQUIRED	0 (5.2.7.1)	SP	osal)					
10	DESIGN STATOR LINE FOR VACUUM (6.2.4)		START - UP					YES	
11	STATOR LINER VACUUM DESIGN:	psig	NORMAL MA	AINTANANC	E			YES	
12	DECONTAMINATION CONNECTION ON STATE	PR (9.2.2.11)	SPARE ASS	EMBLY:					
13	SECONDARY CONTROL /	CONTAINMENT	OTHER:						
14	NFPA RATING:				WE	IGHTS	b		
15	HEALTH: FLAMMABILITY:	INSTABILITY:	ITEM NO.	PUMP	DRIVER	GEAR	BASE	TOTAL	
16			18-P-250A	265	677	44	820	1806	
17	USE ANNEX B HAZARD BASED PROCEDURE		18-P-250B	265	677	44	820	1806	
	HAZARD STATEMENT	HAZARD							
19	RISK PHRASE	GROUP							
20									
	REQUIRED MEASURE:			OTHER	R PURCHAS	FR REQUI	REMENTS		
22			COORDINATIO					YES	
	SECONDARY CONTROL (3.67)		CASTING REP			` '	D (6 10 2 5)	Note 5.1	
	MAX LEAKAGE ON PRIMARY FAILURE:	gpm					, ,	11010 0.1	
25		Y-RUN MECHANICAL SEAL	MAX RELAT			INOLOBE (O		YES	
	DEVICE MANUFACTURER:	Proprietary Information	OPERATION					ILO	
	MATERIAL:	Proprietary Information	MAX DIAM. I				-	YES	
						0 2 4 4)		123	
	ELASTOMERS:	Proprietary Information	CONNECTION		•	,	EACEC		
	MANUFACTURER CODE:	Proprietary Information	DEMONSTRAT				FACES	NONE	
30					NDOR SHOF	,		NONE	
	SECONDARY CONTAINMENT (3.65)		DYNAMIC BAL		J	•	)	YES	
32	SECONDARY SEAL:		INSTALLATION		•	•		YES	
33	DESIGN PRESSURE:		INCLUDE PLO			RAS (6.8.3.2		YES	
34	INSTRUMENTATIO	·	CONNECTION				PAI	NTED	
35	DETECT OPER. OUTSIDE ACCEPT. RANGE OF	R DECOUPLE (7.4.2.1)	SUBMIT EST. S					REQUIRED	
36	METHOD:		MATERIAL CEI	RTIFICATIO	N REQUIRED	(6.10.1.7)			
37	LOCATION:		CASING					YES	
38	IF LOCAL PROVIDED BY:		IMPELLER					YES	
39	USE FOR:		SHAFT					YES	
40	MONITOR LEAKAGE INTO SECOND CASING:	YES	OTHER:	All wette	ed pressure o	containing co	omponents a	nd wear rings	
41	METHOD:	PRESSURE	VENDOR SUBI	MIT TEST PI	ROCEDURES	3 (8.3.1.1)		YES	
42	SENSOR BY:	SUPPLIER	ADDITIONAL D	ATA REQUI	IRING 20 YEA	RS RETENT	ION (8.2.1.1G	5)	
43	TYPE:	TRANSMITTER							
44	USE FOR:	ALARM		SURF	ACE PREPA	RATION A	ND PAINT		
45	MONITOR VIBRATION:	NOT REQUIRED	MANUFACTUR	RER'S STAN	DARD		YES		
46	METHOD:					MFR STD	per A8KM-PF	<mark>2-000-500520-A</mark>	
47	PROVISION REQUIRED:		PUMP:						
48	SENSOR BY:		PUMP SURF	ACE PREPA	ARATION	Per A	\8KM-PP-000	-500520-A	
49	IF FULL TIME, USE FOR:		PRIMER		MFR std i	n compliance	e or exceed I	SO 12944-C4	
50	MONITOR TEMPERATURE OF:	NOT REQUIRED	FINISH COA	·Τ			Same as ab		
51	METHOD:		BASEPLATE:						
52	SENSOR BY:		BASEPLATE	SURFACE	PREPARATION	ON Per A	48KM-PP-000	-500520-A	
53	TYPE:		PRIMER				e or exceed Is	SO 12944-C4	
54	USE FOR:		FINISH COA	T.				out compatible	
55		Ni	OTES	•			יופ ניייין		
56	5.1 Minor defects of a surface nature in the p			no wall thick	noce and lea	e than 10 in <sup>2</sup>	in total area	may bo	
57	repaired without Buyer's approval	ressure casting (amounting to les	55 triair 20 % Of th	ie wan tilick	arcaa ariu les	o uidii IV III	iii totai area)	may be	
5 <i>1</i> 58	5.2 Bearing housing oilers shall be Trico 8-o	constant-level sight food Vand	or to provide etc	ndard 3/4" N	JPS hulleave	level asuas			
	5.3 Deleted	constant-level signt leed. vend	or to provide sta	iiuaiu 3/4 l	ar o bullseye	ievei gauge.			
59	J.J Deleteu								

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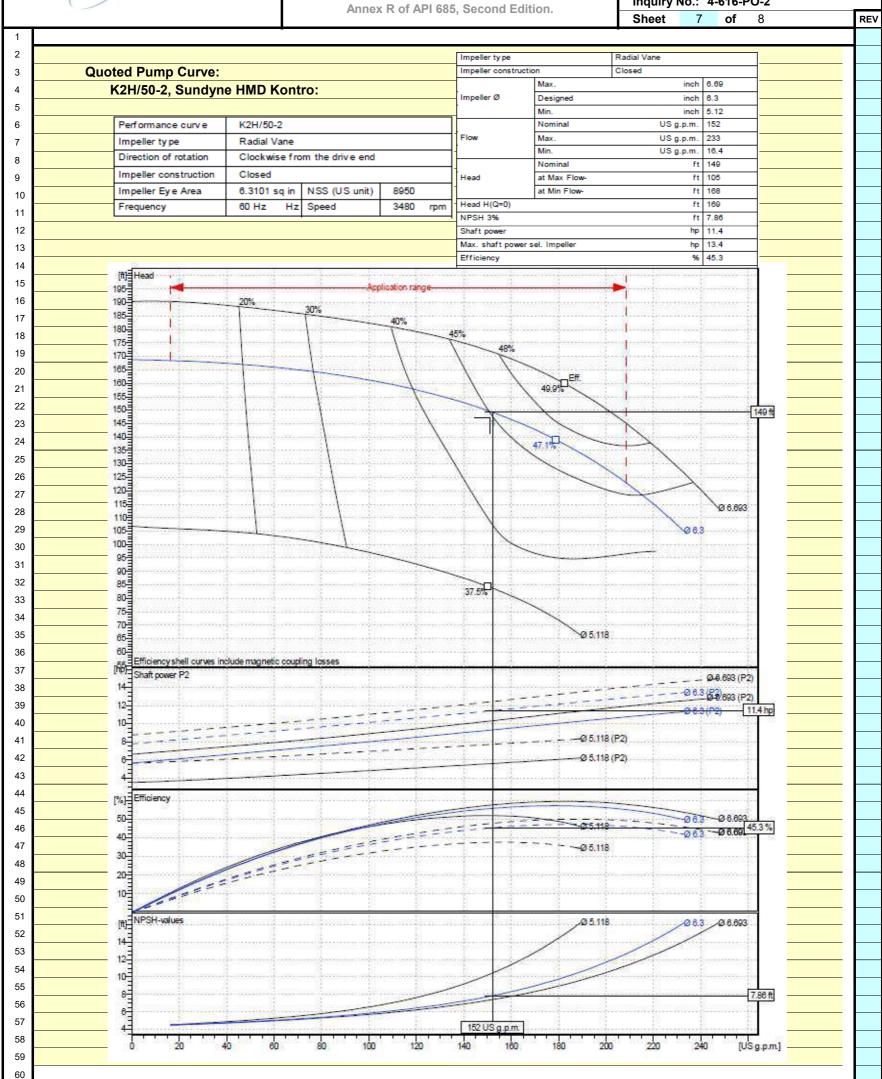
Note: This Data Sheet has been modified from that in Annex R of API 685, Second Edition.

Contract:	A8KM						
Item No:	18-P-250A/B						
Revision:	2 Date: 6-Sep-22						
Unit:	SWSPlus Unit						
Doc. No.:	A8KM-18-088-540132-A						
Inquiry No.:	4-616-PO-2						

						Sneet 6 or	o RE	ΕV
1		INSPECTION AND	D TESTING	ì		TESTING (8.3)		
2	GENERA	L (8.1)				HARDNESS TEST REQUIRED (8.2.3.2)	NON-WITNESS	
3	DAYS IN	ADVANCE NOTIFICATION OF WITN	NESSED OR	OBSERVE	D	FOR		
4	TESTS	AND INSPECTIONS			N/A	METHOD		
5	NOTIFICA	ATION OF SUCCESSFUL PRELIMIN	ARY SHOP	-		COMPONENTS TO BE TESTED		
6	PERFO	PRMANCE TEST (8.1.1.3)				IMPACT TEST - TO	NOT REQUIRED	
7		NSPECTION CHECKLIST (8.1.6)				HYDROSTATIC TEST (8.3.2)	NON-WITNESS	-
8		(0				· '	NON-WITHEOU	_
	SHUD IN	SPECTION (8.2)				WETTING AGENT INCLUDED (8.3.2.7) PERFORMANCE TEST (8.3.3)	NON-WITNESS	_
		` ,	(C 10 1 E) (O 1	2 1 2)		TEST DATA POINTS		_
10		NAL SUBSURFACE EXAMINATION (		2.1.3)			PER 8.3.3.3	_
11	PART		XAM			PERFORMANCE CURVE & DATA APPROVAL PRIOR		
12	PART		XAM			TO SHIPMENT (8.3.3.3.5)	REQUIRED	_
13	PART		XAM			TEST W/ NPSHA LIMITED TO 110% SITE NPSHA	NO	
14	PART	E.	XAM			RUN UNTIL TEMP STABILIZATION ACHIEVED	YES	
15						1 HR. MECH RUN TEST (8.3.4.2.2)	NON-WITNESS	
16		FING REQUIRED (8.2.1.4)			UIRED	THRUST BEARING LOAD TEST (8.3.4.3)		
17			lease refer t	o Inspectio	n Test Plan	NPSH3 TEST (8.3.4.4.1)	NO	
18	INSPECT	ION REQUIRED FOR CASTINGS (8.	.2.2.1)			COMPLETE UNIT TEST (8.3.4.5)		
19	MAG P	ARTICLE			NO	SOUND LEVEL TEST (8.3.4.6) FOR INFORMATION ONLY	NON-WITNESS	
20	LIQUID	PENTRANT			YES	AUXILIARY EQUIPMENT TEST (8.3.4.7)		
21	RADIO	GRAPHY			NO	SECONDARY CONTROL SYSTEM HYDRO	NON-WITNESS	
22	ULTRA	SONIC			NO	SECONDARY CONTAINMENT / CONTROL SYSTEM		
23	INSPECT	ION REQUIRED FOR CONNECTION	WELDS (6.	10.3.4.5)		INSTRUMENT TEST (8.3.4.9)		
24	MAG P	ARTICLE			NO	STATIC TORQUE TEST (9.1.6.1)		
25	LIQUID	PENTRANT			YES	RUN UNTIL OIL TEMPERATURE STABILIZED (9.1.6.3)		
26	RADIO	GRAPHY			NO	RESIDUAL UNBALANCE TEST (J.4.1.2)		
27	ULTRA	SONIC			NO	OTHER:		
28				-				
29	CLEANLI	NESS PRIOR TO FINAL ASSEMBLY	(8.2.3.1)		NON-WIT			
30			,	-				
31								
32								
33					NO	DTES		
	6.1 PMI o	f alloy pressure containment parts.	including p	ines & valv		ed per Project Specification A8KM-PP-000-500512-A Positive I	Material	_
35		fication (PMI).	, <b>.</b>					_
36		• • • • • • • • • • • • • • • • • • • •	viliaries shal	II he tested	hydrostatica	Ily with liquid at a minimum 1.5 times the maximum allowable	working	
37	press		Killaries silai	ii be testeu	nyurostatica	my with riquid at a minimum 1.5 times the maximum anowable	Working	
	-		hick stool w	ith at loast	(1) 0/16" dian	neter hole provided. If two (2) are provided, they shall be 9/16	" dia	
							uia.	_
39						they shall be threaded with one (1) 1/2" - 13 hole, or		
40		r two (2), or four (4), 1/2" - 13 holes				accordate shall be energy succeed		
41	-	plate shall be constructed with top	-					
42		plate shall be rigid constructed to a requires oversized terminal box.	accommoda	ILE Z X AIIOV	wabie Nozzie	Loads & Moments in API 685, 2nd Edition.		
	6.6 Delete	<u> </u>						
			uirod for the	ما طعمات ۱	\ magnatic de	rain plug in housing to class required		
45	o./ An ES	single piece signt glass is requ	uired for the	on arain. A	- magnetic dr	rain plug in housing is also required.		
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Note: This Data Sheet has been modified from that in Annex R of API 685. Second Edition.



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