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COVER SHEET

Customer PO No.	]
Sales Order No.	
Pump Type	
Type of Document	Pump DataSheet
Sent Via	E-Mail
Nikkiso Document No.	NIK-PMD-453551-PDS-002
Customer Document No.	N/A
Document Title	3- MP-100 Pump datasheet

Customer Name	

Choose an item.	Click or tap to enter a date.	Choose an item.	Choose an item.	Choose an item.
Choose an item.	Click or tap to enter a date.	Choose an item.	Choose an item.	Choose an item.
Choose an item.	Click or tap to enter a date.	Choose an item.	Choose an item.	Choose an item.
Choose an item.	Click or tap to enter a date.	Choose an item.	Choose an item.	Choose an item.
NC-Initial Submittal	12/2/2022	A-Approval	Moises Parra	Hany Harara
Rev.	Date	Issued for	Checked By	Approved By

NIKKISO Ref #: NIK-PMD-453551-FORM-CS-001

Category	3	RECIPROCATING PUMP DATA SHEET		Revision	NC
Customer			S.O. No.		Item # 2
Cust P.O.		Date Ordered		Date Scheduled	06/23/23
Date Issued		Prepared By	MP	Approved By	HH
Serial No.		Through		Quantity	2

15320- ☒ -1 (Imperial) ☐ -2 (Metric)

NAMEPLATE DATA		Date	
System No	R10740-001	RPM	525
Serial No	SEE ABOVE	Type	3- MP-100
Assy PN	R10765-007	Fluid	LH2
Drive	R10735-003	Flow	31.7 GPM
Cold End	65300-5	NPSPR	10 PSIG
Mtr Power	150 HP	MWP	7250 PSIG
Volts	460	Phase	3 Hz 60 Ratio 2.0 : 1

NAMEPLATE DATA (Metric)		Date	
System No	R10740-001	RPM	525
Serial No	SEE ABOVE	Type	3- MP-100
Assy PN	R10765-007	Fluid	LH2
Drive	R10735-003	Flow	120.0 LPM
Cold End	65300-5	NPSPR	0.7 BarG
Mtr Power	111.9 kW	MWP	499.9 BarG
Volts	460	Phase	3 Hz 60 Ratio 2.0 : 1

PUMP SPECIFICATION		No. of Cylinders	3
Size	1.97 in X 2.25 in = 20.574 in3		
	50 mm X 57 mm = 337.15 cm3		
Vol Eff (%)	80	Max Press	7250 PSIG
Mech Eff (%)	90	Hrs/Day	8
Duty	CONTINUOUS	Max RPM	550
HPs	186.1 HP	138.8 kW	Mtr Power 150 HP 111.9 kW

LUBE	
Type	
Grease	Oil Tag Req'd ☒ Yes
Oil	XXXXX Lube Spec. 15W-50 MOBIL 1
-Splash	Press: Min/Max 60/100 PSI
-Pressure	XXXXX Temp: Min/Max 60/120 F
CLEAN ☒ STD EDM-PR-007 ☐ LO2 EDM-PR-018	

1. STANDARD CERTIFICATE OF FUNCTIONAL TEST
2. FUNCTIONAL TEST IN LN2
3. OIL PRESSURE SWITCH TO BE SET AT 60 PSI ON DECREASING PRESSURE.
4. PUMP FLOW RATE: 432 Kg/hr. LIQUID DENSITY: NOT LESS THAN 60 Kg/m3
5. CUSTOMER TO PROVIDE HELIUM (GHe) PURGE AT INTERMEDIATE.

TEST REQUIRED	
☒ Yes ☐ No	
Spec. No	ETP-022/116
Customer Witness	
☐ Yes ☒ No	

H.P. RELIEF VALVE	
Setting	7800 PSIG
LOX 48719-	
Std 48888-	
Other	Flow Safe

MOTOR SPECIFICATIONS				
☐ CLOSE-COUPLED	☐ GEARED	☒ BELTED	☐ HYDRAULIC	☐ VFD
Power:	150 HP	111.9 kW	Speed:	1200
Voltage:	460	Amps:	170	S.F.:
Insulation:	F	Design:	B	Code:
Frame Size:	447T	Purge:	NO	IP:
Phase:	3	Freq:	60	Enclosure:
				TEFC
				CLASS 1, DIV 2, GROUP A,B,C,D
				Spec. Dwg:
				08020-443

QTY OF MANUALS	
Pump/Control Panel Manual:	IOM MP-100
Thru Sales:	0
With Pumps:	2