







**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY**  
**DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**



<b>Contract No.: DPIC/98-12</b>	<b>DOCUMENT TITLE: Oil Pump Data Sheet</b>	<b>POI: IFA</b>	<b>Rev.: D0</b>
	<b>DOCUMENT No: DPIC9812-000-VD-1002-ME-DS-0079</b>	<b>Sheet 1 of 4</b>	

## Oil Pump Data Sheet

PURCHASER'S COMMENT/APPROVAL STATUS						Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)					Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
<input checked="" type="checkbox"/>	AN: Approved With Minor Comments (Fabrication may Proceed)					
3	NF: Approved With Comments (Fabrication not Proceed)					
4	RJ: Rejected					Item No. (Tag No.): PK-6101
5	NR: Not be Returned					
Date:	<input type="text" value="11.01.2022"/>	Signature:	<input type="text" value="A.AB"/>			Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DS-0079
						
D0	02-Jan-22	IFA	M.R	M.M	A.V	
<b>REV.</b>	<b>DATE ISSUE</b>	<b>Purpose of Issue</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>	

 	<b>DEHDASHT PETROCHEMICAL INDUSTRY COMPANY</b>  <b>DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT</b>		
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DEHDASHT PETROCHEMICAL INDUSTRY COMPANY

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Contract No.

Pump curves to be added.

DOCUMENT TITLE: Oil Pump Data Sheet

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# VENDOR

VENDOR Document No.: S-1-01502

NO	BY	APP	DATE	DESCRIPTION
0	M	E	12/16/202	For Quotation/ Approval

## OIL PUMP DATA SHEET P-PK6101-1A/B,2A/B

FOR **DEHDASHT PETROCHEMICAL COMPANY**  
 PROJECT **HDPE** ITEM: **P-PK6101-1A/B,2A/B**  
 P.O No. **N/A**  
 SITE **Iran**  
 SERVICE **PROPYLENE REFRIGERATION PACKAGE**

MFR **KASRAVAND** shall be specified  
 UNIT TAG No. **PK6101**  
 SERIAL No. **4**  
 No. REQUIRED **4**  
 MODEL No. **M80P-4PM**

### GENERAL

1 NO. MOTOR DRIVES***	2	OTHER DRIVE TYPE***	
2 PUMP TAG NO'S***	P-PK6101-1A/B,2A/B	PUMP TAG NO'S***	
3 MOTOR TAG NO'S***	PM-1A/2A & PM-2 shall be specified	DRIVER TAG NO'S***	GEAR ITEM NO'S***
4 MOTOR PROVIDED BY*	TBA	DRIVER PROVIDED BY*	GEAR PROVIDED BY*
5 MOTOR MOUNTED BY*	TBA	DRIVER MOUNTED BY*	GEAR MOUNTED BY*
6 MOTOR DATA SHEET *	TBA	DRIVER DATA SHEET NO.*	GEAR DATA SHEET NO.*

### OPERATING CONDITIONS\*

### LIQUID\*

9 CAPACITY @ PT	63.4 (GPM):	240.0 lpm	TYPE OR NAME OF LIQUID	LUBE OIL WITH HYDROCARBON GAS	
10 @ MAXIMUM VISCOSITY	190 cp	@ MIN. VISCOSITY	9.5 cp	PUMPING TEMPERATURE	°F: °C
11 DISCHARGE PRESSURE	PSIG: BarG			NORMAL	157.0 69.4 MAX 167 75 MIN 70 21.111
12 MAXIMUM	420 29.0	NORMAL	360 24.828	SPECIFIC GRAVITY	0.95 MAXIMUM MINIMUM
13 SUCTION PRESSURE	PSIG: BarG			SPECIFIC HEAT	0.52 (Btu/lb-ft) 2.1771 (kJ/kg °C)
14 MAXIMUM	345.0 23.8	NORMAL	300.0 20.69	VISCOSITY (Cp)	14.25 NORMAL 190 MAX. 9.5 MIN.
15 DIFFERENTIAL PRESSURE	PSIG: BarG			CORROSIVE/EROSIVE AGENTS***	
	1.0 5.2	NORMAL:	shall be specified	CHLORIDE CONCENTRATION (PPM)***	

pump eff. to be specified.

rated capacity is more than 40% higher than normal capacity. Please clarify.

### PERFORMANCE\*\*

### SITE AND UTILITY DATA\*\*

21 RATED CAPACITY	(GPM):	89.82827	340.0 lpm	DR	X OUTDOOR
22 NPSH REQUIRED	(FT.):	N/A	m	EATED	UNDER ROOF
23 RATED SPEED (RPM):		1,500		ELECTRICAL AREA CLASS	1 GROUP C & D DIV DIV 2
24 DISPLACEMENT	(GPM):	89.82827	340.0 lpm	WINTERIZATION REQD	X TROPICALIZATION REQD
25 VOLUMETRIC EFFICIENCY (%)				SITE DATA	
26 MECHANICAL EFFICIENCY (%)				AMBIENT TEMPS: MIN / MAX	51.8 11 / 87.8 31.0 °F °C
27 BPower @ MAXIMUM VISCOSITY		6.66 hp 5.0 kw		UNUSUAL CONDITIONS	
28 BPower @ RELIEF VALVE SETTING		9.92 hp 7.4 kw		DUST FUMES SALT ATMOSPHERE	
29 MAXIMUM ALLOWABLE SPEED (RPM)				X OTHER	TROPICAL, SALINE MARINE, HIGH HUMIDITY
30 MINIMUM ALLOWABLE SPEED (RPM)				UTILITY CONDITIONS	400

### CONSTRUCTION\*\*

### ELECTRICITY

	SIZE	ANSI RATING	FACING	POSITION	DRIVERS	HEATING	CONTROL	SHUTDOWN
32 CONNECTIONS								
33 SUCTION	4"	-	JIS STD	SIDE	460			
34 DISCHARGE	4"	-	JIS STD	SIDE	50			
35 GLAND FLUSH					3			
36 DRAINS					COOLING WATER N/A	INLET	RETURN	DESIGN MAX Δ
37 VENTS					TEMP °F		MAX	
38 JACKET					ESS. (PSIG):		MIN	
40 PUMP TYPE:					SOURCE			
41 INTRN'L GEAR		TWIN-SCREW	VANE		INSTRUMENT AIR	N/A	MAX	MIN
42 EXTRN'L GEAR	X	3-SCREW	PROGRESSING CAVITY		PRESSURE (PSIG)			
43 GEAR TYPE	N/A				APPLICABLE SPECIFICATIONS***:			
44 SPUR		HELICAL			API 676 POSITIVE DISPLACEMENT PUMPS - ROTARY YES			
45 OTHER					GOVERNING SPECIFICATION (IF DIFFERENT)			

suction and discharge line are 3" based on PID.

REMARKS:



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Sheet 4 of 4

# VENDOR

VENDOR Document No.: S-1-01502			
NO.	BY	APP	DATE
0	M	E	12/16/2021
DESCRIPTION			
For Quotation/ Approval			

**OIL PUMP DATA SHEET**

FOR	DEHDASHT PETROCHEMICAL COMPANY		MFR	KASRAVAND <span style="border: 1px solid red; padding: 2px;">shall be specified</span>
PROJECT	HDPE	ITEM: P-1A/2A & P-2A/2B	UNIT TAG No.	P-1A/2A & P-2A/2B &
P.O No.	N/A		SERIAL No.	
SITE	Iran		No. REQUIRED	4
SERVICE	PROPYLENE REFRIGERATION PACKAGE		MODEL No.	M80P-4PM

CONSTRUCTION (CONTINUED)**			
2	CASING		
3	MAX. ALLOWABLE PRESSURE:	400 PSIG	27.6 barG
4	HYDROSTATIC TEST PRESSURE:	520 PSIG	35.9 barG
5	STEAM JACKET PRESSURE:	PSIG	barG
6	ROTOR MOUNT	BTWN. BEARINGS	OVERHUNG
7	TIMING GEARS	YES	NO X
8	BEARING TYPE:	RADIAL	SLEEVE THRUST SLEEVE
9	LUBRICATION TYPE:	CONSTANT LEVEL OILERS	
10	X PUMPED FLUID	RING OIL	OIL MIST
11	EXTERNAL	OIL FLOOD	GREASE
12	LUBRICANT TYPE	SELF LUBRICATED	
13	MECHANICAL SEALS	<span style="border: 1px solid red; padding: 2px;">shall be specified</span>	
14	MANUFACTURER AND MODEL	<span style="border: 1px solid red; padding: 2px;">shall be specified</span>	
15	MANUFACTURER CODE		
16	API 610 SEAL FLUSH PLAN	N/A	
17	API 610 SEAL CODE		
18	PACKING: N/A	LANTERN RING	
19	MFR. AND TYPE	NO. OF RINGS	
20	DRIVE MECHANISM		
21	X DIRECT-COUPLED	V-BELT	GEAR
22	COUPLING MANUFACTURER		
23	DRIVERS <span style="border: 1px solid red; padding: 2px;">shall be specified</span>		
24	MOTOR:		
25	MANUFACTURER	<span style="border: 1px solid red; padding: 2px;">TO BE DETERMINED</span> <span style="border: 1px solid yellow; padding: 2px;">?</span>	
26	TYPE	TEFC	
27	FRAME NO.	256T	
28	CONSTANT SPEED	1,500	
29	VARIABLE SPEED	N/A 400	
30	HP kW	7.5 Kw	22.4 RPM 1,500
31	VOLTS	460	PHASE 3
32	HERTZ	50	SERVICE FACTOR 1.15
33	ENCLOSURE	TEFC	TEFC
34	STEAM TURBINE		
35	OTHER (SEE SEPARATE DATA SHEETS)		
36	OTHER PURCHASER REQUIREMENTS*		
37	NAMEPLATE UNITS	U.S. CUSTOMARY X	SI X
38	RELIEF VALVES BY PUMP MFRG	INTERNAL X	EXTRNL.
39	PIPING FOR SEAL FLUSH FURNISHED BY:	PUMP VENDOR OTHERS PER P&ID	
40	PIPING FOR COOLING/HEATING FURNISHED BY:	PUMP VENDOR OTHERS N/A	
41	PROVIDE TECHNICAL DATA MANUAL		

MATERIALS**			
CASING	CAST IRON		
STATOR	N/A		
END PLATES	CAST IRON		
ROTOR (S)	DUCTILE IRON		
VANES	N/A		
SHAFT	PART OF ROTOR		
SLEEVE (S)			
GLAND (S)			
BEARING HOUSING	CAST IRON		
TIMING GEARS	N/A		
SPECIAL MATERIAL TESTS (2.9.1.3)			
LOW AMBIENT TEMP. MATERIALS TESTS (2.9.5)			
QA INSPECTION AND TEST * & ***			
X	COMPLIANCE WITH INSPECTORS CHECK LIST		
	CERTIFICATION OF MATERIALS	Required per MFR.'s StD	
	FINAL ASSEMBLY CLEARANCES		
	SURFACE AND SUBSURFACE EXAMINATIONS		
	RADIOGRAPHY		
	ULTRASONIC		
	MAGNETIC PARTICLE		
	LIQUID PENETRANT		
X	CLEANLINESS PRIOR TO FINAL ASSEMBLY		
	HARDNESS OF PARTS, WELDS & HEAT AFFECTED ZONES		
	FURNISH PROCEDURES FOR OPTIONAL TESTS		
TESTS	REQ'D	WIT	OBS
HYDROSTATIC	MFR STD		
MECHANICAL RUN	MFR STD		
PERFORMANCE	MFR STD		
NPSH	---		
PREPARATION FOR SHIPMENT*			
DOMESTIC	EXPORT X	EXPORT BOXING REQ'D	
OUTDOOR STORAGE MORE THAN 6 MONTHS		X	
WEIGHTS (LBS)**			
PUMP	615	BASE N/A	GEAR N/A DRIVER 490
BASEPLATE*			
BY PUMP MANUFACTURER	BY KAS	SUITABLE FOR EPOXY GROUT	
EXTENDED FOR			
SUBSOLE PLATES BY PUMP MANUFACTURER			
DRAIN-RIM	DRAIN-PAN		

please specify detail material ASTM no.

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