



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



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

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 Item No. (Tag No.): PK-6101
2	AN: Approved With Minor Comments (Fabrication may Proceed)	
3	NF: Approved With Comments (Fabrication not Proceed)	
4	RJ: Rejected	
5	NR: Not be Returned	

Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DS-0079



Date:	XX.XX.XX	Signature:			
D0	02-Jan-22	IFA	M.R	M.M	A.V
REV.	DATE ISSUE	Purpose of Issue	PREPARED	CHECKED	APPROVED

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT		
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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		MFR	KASRAVAND
PROJECT	HDPE	ITEM: P-PK6101-1A/B,2A/B	UNIT TAG No.	PK6101
P.O No.	N/A		SERIAL No.	
SITE	Iran		No. REQUIRED	4
SERVICE	PROPYLENE REFRIGERATION PACKAGE		MODEL No.	M80P-4PM

GENERAL

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

OPERATING CONDITIONS*

LIQUID*

8				
9	CAPACITY @ PT	63.4 (GPM):	240.0	lpm
10	@ MAXIMUM VISCOSITY	190 cp	@ MIN. VISCOSITY	9.5 cp
11	DISCHARGE PRESSURE	PSIG: BarG		
12	MAXIMUM	420	29.0	NORMAL 360 24.828
13	SUCTION PRESSURE	PSIG: BarG		
14	MAXIMUM	345.0	23.8	NORMAL 300.0 20.69
15	DIFFERENTIAL PRESSURE	PSIG: BarG		
16	MAXIMUM	75.0	5.2	NORMAL; 55.0 3.7931
17	NPSH AVAILABLE	(FT.):		
18	HYDRAULIC HP			
19				
20				
21				

TYPE OR NAME OF LIQUID	LUBE OIL WITH HYDROCARBON GAS			
PUMPING TEMPERATURE	°F:	°C		
NORMAL	157.0	69.4	MAX	167 75 MIN 70 21.111
SPECIFIC GRAVITY	0.95		MAXIMUM	
SPECIFIC HEAT	0.52	(Btu/lb-ft)	2.1771	(kJ/kg °C)
VISCOSITY (Cp)	14.25	NORMAL	190	MAX. 9.5 MIN.
CORROSIVE/EROSIVE AGENTS***				
CHLORIDE CONCENTRATION (PPM)***				
H ₂ S CONCENTRATION (PPM)***				
LIQUID --- TOXIC --- FLAMMABLE				

PERFORMANCE**

SITE AND UTILITY DATA***

21	RATED CAPACITY	(GPM):	89.82827	340.0	lpm
22	NPSH REQUIRED	(FT.):	N/A	m	
23	RATED SPEED (RPM):		1,500		
24	DISPLACEMENT	(GPM):	89.82827	340.0	lpm
25	VOLUMETRIC EFFICIENCY (%)				
26	MECHANICAL EFFICIENCY (%)				
27	BPower @ MAXIMUM VISCOSITY		6.66	hp	5.0 kw
28	BPower @ RELIEF VALVE SETTING		9.92	hp	7.4 kw
29	MAXIMUM ALLOWABLE SPEED (RPM)				
30	MINIMUM ALLOWABLE SPEED (RPM)				

LOCATION:	INDOOR	<input checked="" type="checkbox"/>	OUTDOOR	
HEATED	<input checked="" type="checkbox"/>	UNHEATED		UNDER ROOF
ELECTRICAL AREA CLASS	1	GROUP	C & D	DIV DIV 2
WINTERIZATION REQD		<input checked="" type="checkbox"/>	TROPICALIZATION REQD	
SITE DATA				
AMBIENT TEMPS: MIN / MAX	51.8	11	/	87.8 31.0 °F °C
UNUSUAL CONDITIONS				
<input checked="" type="checkbox"/>	DUST	<input type="checkbox"/>	FUMES	<input type="checkbox"/>
<input checked="" type="checkbox"/>	OTHER	TROPICAL, SALINE MARINE, HIGH HUMIDITY		
UTILITY CONDITIONS				

CONSTRUCTION**

ELECTRICITY	DRIVERS	HEATING	CONTROL	SHUTDOWN
VOLTAGE	460			
HERTZ	50			
PHASE	3			
COOLING WATER	N/A	INLET	RETURN	DESIGN MAX Δ
TEMP °F			MAX	
PRESS. (PSIG):			MIN	
SOURCE				
INSTRUMENT AIR	N/A		MAX	MIN
PRESSURE (PSIG)				

	SIZE	ANSI RATING	FACING	POSITION
CONNECTIONS				
SUCTION	4"	-	JIS STD	SIDE
DISCHARGE	4"	-	JIS STD	SIDE
GLAND FLUSH				
DRAINS				
VENTS				
JACKET				
PUMP TYPE:				
INTRN'L GEAR	TWIN-SCREW	VANE		
EXTRN'L GEAR	<input checked="" type="checkbox"/>	3-SCREW	PROGRESSING CAVITY	
GEAR TYPE	N/A			
SPUR		HELICAL		
OTHER				

APPLICABLE SPECIFICATIONS*:**

API 676 POSITIVE DISPLACEMENT PUMPS - ROTARY	YES
GOVERNING SPECIFICATION (IF DIFFERENT)	

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
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

1	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	
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			
14	MANUFACTURER AND MODEL			
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			
24	MOTOR:			
25	MANUFACTURER	TO BE DETERMINED		
26	TYPE	TEFC		
27	FRAME NO.	256T		
28	CONSTANT SPEED	1,500		
29	VARIABLE SPEED	N/A		
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:			
40	PUMP VENDOR	OTHERS	PER P&ID	
41	PIPING FOR COOLING/HEATING FURNISHED BY:	N/A		
42	PUMP VENDOR	OTHERS		
43	PROVIDE TECHNICAL DATA MANUAL			
44	REMARKS			
45				
46				
47				
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49				
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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		

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