PPI / NARGAN	**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY** **DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**	شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهدشت (سهامی عام)
Contract No.: DPIC/98-12	**DOCUMENT TITLE:Coupling Drawing**	**POI: IFA** / **Rev.: D0**
	DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0086	**Sheet 1 of 4**

title shall be corrected (oil pump coupling DWG) and compressor coupling DWG shall be issued separately

Coupling Drawing

PURCHASER'S COMMENT/APPROVAL STATUS		Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)	
X	AN: Approved With Minor Comments (Fabrication may Proceed)	Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
3	NF: Approved With Comments (Fabrication not Proceed)	
4	RJ: Rejected	Item No. (Tag No.): PK-6101
5	NR: Not be Returned	
Date: 11.01.2022	Signature: A.AB	Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DWG-0086

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

KASRAVAND Engineering & Construction

PPI / NARGAN	**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY** **DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**	شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهدشت (سهامی عام)
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TABULATION OF REVISED PAGES

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
1	x				
2	x				
3	x				
4	x				
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Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
36					
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VENDOR

OIL PUMP COUPLING DATA SHEET

VENDOR DOC.: PG-S-1-22002
P & ID TAG NO.: CPL-1A/2A & P-2A/2B

NO.	BY	APP	DATE	DESCRIPTION
0	M	E	12/22/2021	FOR PURCHASING

APPLICABLE TO: ○ PROPOSAL ⊗ PURCHASE ○ AS-BUILT

FOR	DEHDASHT PETROCHEMICAL COMPANY	MFR	KASRAVAND
JOB No.		UNIT	P-PK6101-1A/B,2A/B
PURCHASE ORDER No.	N/A	MODEL No.	0
SITE	N/A	No. REQUIRED	4
SERVICE	LUBE OIL PUMP		
CLIENT SPECIFICATION	MYCOM STANDARD	VENDOR REF. DOC.	PG-S-1-22002

please specify

⊗ DRIVER TYPE: LUBE OIL PUMP — MANUFACTURER: MYCOM — MODEL: M80P-4PM
SERIAL NO. — TAG NO.: P-1A/2A & P-2A/2B
DRIVER UNIT: ELECTRICAL MOTOR — MANUFACTURER: TBA — MODEL: 256T
TAG NO.: PM-1A/2A & PM-2A/2B

please specify

☒ COUPLING: TYPE: DISK — ASSEMBLY DRAWING: REQUIRED
MANUFACTURER: TBD — MODEL: TBD — SIZE

please specify

NOTE: INFORMATION TO BE COMPLETED: ○ BY PURCHASER: ☐ BY COUPLING MANUFACTURER:

OPERATING CONDITIONS

⊗ POWER TRANSMITTED (HP): NORMAL 10 BHP — MODEL
⊗ SPEED (RPM): MINIMUM ALLOWABLE 1,450 — NORMAL 1,450 — MAXIMUM CONTINUOUS 1,450 — TRIP N/A
⊗ TORQUE (FT-LB): MAXIMUM CONTINUOUS 435 — MAXIMUM TRANSIENT
⊗ MINIMUM REQUIRED EXPERIENCE FACTOR, SF (2.1.1) 2.0 — ☒ ACTUAL SF 3.9
⊗ AMBIENT TEMPERATURE (F) MAXIMUM 120 — MINIMUM 48.8889
⊗ ENVIRONMENT (2.6.5) (2.1.6) ○ DUST ⊗ HYDROGEN SULFIDE ○

COUPLING DATA

⊗ SHAFT SEPARATION AT OPERATING TEMP. (IN. B.S.E.) 0.88" — THERMAL GROWTH (IN.) 0.0005 AT F
⊗ MOTOR ROTOR FLOAT (IN.) NONE ○ LIMITED END FLOAT (IN.) (2.2.3) ○ ELECTRICALLY INSULATED (2.1.12)
○ REQUIRED MISALIGNMENT CAPABILITY (2.1.2)
○ STEADY STATE: ANGULAR (DEG.) — PARALLEL OFFSET (IN.) — AXIAL (IN.)
○ TRANSIENT: ANGULAR (DEG.) — PARALLEL OFFSET (IN.) — AXIAL (IN.)
○ DYNAMIC BALANCE (2.5.2.1) ○ COMPONENT BALANCE & ASSEMBLY CHECK BALANCE (2.5.2.1) (2.5.2.3)
○ ASSEMBLY B ○ REPEATABILITY TEST AFTER ASSEMBLY BALANCE (2.5.2.5)
○ RESIDUAL UNBALANCE CHECK OF COMPONENTS (2.5.2.2)

please specify

☒ DESIGN RATING (HP/100 RPM) (2.1.1) 1.4 — ☒ MAXIMUM CONTINUOUS TORQUE (FT-LB) (5.2.5.6c)
☐ BOLTING TORQUE (FT-LB) (2.1.11.5) — ☐ LUBRICATED ☐ DRY
☒ MAXIMUM ALLOWABLE MISALIGNMENT (5.2.5.6a)
STEADY STATE: ANGULAR (DEG.) — PARALLEL OFFSET (IN.) — AXIAL (IN.)
TRANSIENT: ANGULAR (DEG.) — PARALLEL OFFSET (IN.) — AXIAL (IN.)
☐ TORSIONAL STIFNESS (x 10E6 LB-IN/RAD) — ☒ WR2 (LB-IN.2)

MATERIALS (2.6)

Please specify equivalent ASTM no.

	DRIVE END MATERIALS	DRIVEN END MATERIALS
HUB/FLANGE	1030/1040 CARBON STEEL	1030/1040 CARBON STEEL
SPACER	1030/1040 CARBON STEEL	1030/1040 CARBON STEEL
SLEEVE	1030/1040 CARBON STEEL	1030/1040 CARBON STEEL
FLEXIBLE-ELEMENT	AISI 301 FH STAINLESS STEEL	AISI 301 FH STAINLESS STEEL
BOLTS / NUTS	GR.5 / GR. 8	GR.5 / GR. 8

COUPLING HUB MACHINING

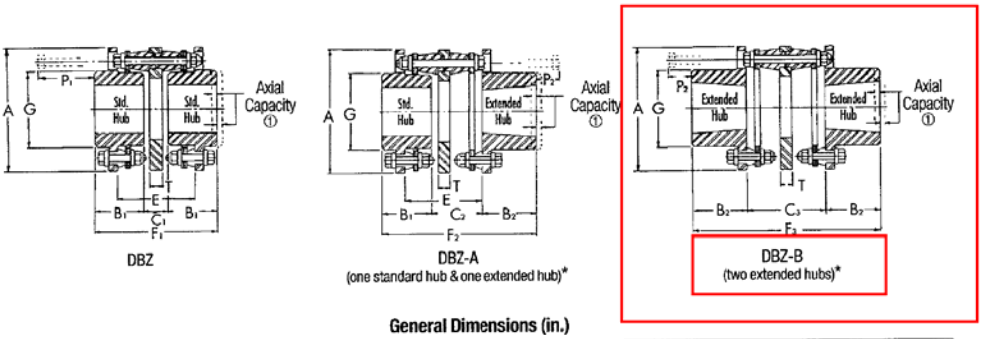
please clear this document no.

	DRIVE END	DRIVEN END
⊗ TYPE (INTEGRAL, CYLINDRICAL, TAPER((2.1.4)	CYLINDRICAL	CYLINDRICAL
⊗ KEYED OR HYDRAULICALLY FITTED (2.1.8.1)	KEYED	KEYED
○ TAPER (1 DEG I.A., 1/2 IN PER FT., 3/4 IN. PER F	REFR TO DOC NO. PG-S-1-22002	
☒ KEYWAY DIMENSIONS AND NUMBER (2.1.8.1)		
☒ NOMINAL BORE DIAMETER		
☒ INTERFERENCE FIT (IN.) MAX./MIN. (2.1.8.1)	PER DRAWING BY KOP-FLEX	PER DRAWING BY KOP-FLEX
⊗ PULLER HOLES	REQUIRED	REQUIRED
○ BALANCING HOLES (2.5.3)		

NOTES:
COUPLING MEETS AGMA CLASS 9 BALANCE AS MANUFACTURE STANDARD. TEST REPORT TO BE PROVIDED.

http://www.iprocessmart.com/techsmart/formulas.htm

CLOSE-COUPLED TYPES DBZ, DBZ-A, DBZ-B



General Dimensions (in.)

Cplg. Size	②⑤ Std. Hub Max. Bore	②⑤ Ext. Hub Max. Bore	A	B1	B2	C1	C2	C3	E	F1	F2	F3	G	P1	P2	T
50	0.63	0.63	2.00	0.88	0.88	0.32	0.84	1.36	1.34	2.08	2.60	3.12	1.00	1.25	0.78	0.19
62	0.75	0.75	2.44	1.09	1.09	0.38	1.05	1.72	1.72	2.56	3.23	3.90	1.19	1.56	1.06	0.25
75	0.88	0.88	2.69	1.13	1.13	0.37	1.06	1.75	1.75	2.61	3.30	3.99	1.44	1.56	1.06	0.25
101	1.13	1.16	3.22	1.38	1.38	0.69	1.39	2.08	2.06	3.45	4.15	4.84	1.69	1.69	1.00	0.31
126	1.38	1.38	3.84	1.50	1.63	0.96	1.70	2.45	2.44	3.96	4.82	5.69	2.06	2.00	1.13	0.41
163	1.88	1.88	4.56	1.69	1.88	0.95	1.70	2.45	2.44	4.33	5.27	6.21	2.75	1.81	0.88	0.41
201	2.13	2.25	5.34	1.94	2.13	0.96	1.96	2.96	2.94	4.84	6.02	7.20	3.28	2.31	1.13	0.56
226	2.38	2.63	6.06	2.38	2.63	1.22	2.53	3.84	3.81	5.98	7.53	9.08	3.78	2.69	1.13	0.66
263	2.88	3.00	7.00	2.75	3.00	1.31	2.81	4.31	4.31	6.81	8.56	10.31	4.44	3.00	1.25	0.75
301	3.13	3.50	8.00	3.13	3.44	1.50	3.19	4.88	4.88	7.74	9.75	11.76	5.06	3.56	1.56	0.84
351	3.63	4.00	9.38	3.69	4.06	1.80	3.86	5.92	5.88	9.18	11.61	14.04	5.81	4.50	2.06	1.06
401	4.13	4.50	10.69	4.18	4.63	1.94	4.32	6.70	6.69	10.32	13.13	15.94	6.63	5.13	2.31	1.19
451	4.63	4.75	12.13	4.75	5.25	2.16	4.72	7.28	7.25	11.66	17.78	14.72	7.38	5.44	2.38	1.34

Selection Table — Engineering Data

Cplg. Size	Max. Horsepower Per 100 RPM, Service Factor 1.0	1.5	2.0	③ Max. RPM Not Bal.	Balanced	Max Continuous Torque (lb.-in.)	Peak Overload Torque (lb.-in.)	④ Weight (lbs.) DBZ	DBZ-A	DBZ-B	④ WR² (lb.-in.²) DBZ	DBZ-A	DBZ-B	① Axial Capacity (in.)
50	0.23	0.15	0.12	6,000	9,000	145	220	0.7	0.7	0.7	0.3	0.3	0.3	±0.023
62	0.39	0.26	0.20	6,000	8,200	246	370	1.5	1.5	1.5	0.7	0.7	0.7	±0.028
75	0.56	0.37	0.28	6,000	7,800	353	530	1.9	1.9	1.9	1.5	1.5	1.5	±0.032
101	1.10	0.73	0.55	6,000	7,100	693	1,040	3.3	3.3	3.3	4.5	4.5	4.5	±0.038
126	2.00	1.30	1.00	5,500	6,500	1,260	1,900	5.5	5.6	5.7	9.9	10.1	10.1	±0.046
163	2.70	1.80	1.40	5,000	6,000	1,700	2,600	8.4	8.6	8.8	21.0	21.0	22.0	±0.057
201	4.80	3.20	2.40	4,600	5,500	3,020	4,500	14.4	14.4	15.4	53.0	53.0	54.0	±0.067
226	8.70	5.80	4.40	4,100	5,200	5,500	8,300	21.0	22.0	23.0	95.0	95.0	105.0	±0.076
263	13.70	9.10	6.90	3,700	4,800	8,600	12,900	33.0	34.0	35.0	199.0	209.0	209.0	±0.089
301	20.40	13.60	10.20	3,300	4,500	12,900	19,400	50.0	52.0	54.0	365.0	375.0	385.0	±0.102
351	35.90	23.90	18.00	2,900	4,100	22,600	33,900	83.0	87.0	90.0	916.0	936.0	965.0	±0.118
401	52.70	35.10	26.40	2,700	3,900	33,200	49,800	125.0	125.0	135.0	1,705.0	1,710.0	1,710.0	±0.136
451	68.90	45.90	34.50	2,600	3,600	43,400	65,100	170.0	180.0	180.0	3,168.0	3,170.0	3,270.0	±0.154