




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






<b>Contract No.: DPIC/98-12</b>	<b>DOCUMENT TITLE: Coupling Drawing</b>	<b>POI: IFA</b>	<b>Rev.: D0</b>
	<b>DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0086</b>	<b>Sheet 1 of 4</b>	

## Coupling Drawing

### PURCHASER'S COMMENT/APPROVAL STATUS

Purchaser: NARGAN						
1	AP: Approved (Released for Manufacturing)				Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1	
2	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: XX.XX.XX		Signature:				Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DWG-0086
						
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

DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



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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	

1 **APPLICABLE TO:**  PROPOSAL  PURCHASE  AS-BUILT

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

9 <input checked="" type="checkbox"/> DRIVER TYPE	LUBE OIL PUMP	MANUFACTURER	MYCOM	MODEL	M80P-4PM
10 SERIAL NO.		TAG NO.	P-1A/2A & P-2A/2B		
11 DRIVER UNIT	ELECTRICAL MOTOR	MANUFACTURER	TBA	MODEL	256T
12 SERIAL NO.		TAG NO.	PM-1A/2A & PM-2A/2B		

13 <input checked="" type="checkbox"/> COUPLING:	TYPE	DISK	ASSEMBLY DRAWING	REQUIRED
14 MANUFACTURER	TBD	MODEL	TBD	SIZE

16 NOTE: INFORMATION TO BE COMPLETED:  BY PURCHASER:  BY COUPLING MANUFACTURER:

17 <b>OPERATING CONDITIONS</b>							
18 <input checked="" type="checkbox"/> POWER TRANSMITTED (HP): NORMAL	10	BHP	MODEL				
19 <input checked="" type="checkbox"/> SPEED (RPM):	MINIMUM ALLOWABLE	1,450	NORMAL	1,450	MAXIMUM CONTINUOUS	1,450	TRIP
20 <input checked="" type="checkbox"/> TORQUE (FT-LB):	MAXIMUM CONTINUOUS	435			MAXIMUM TRANSIENT		
21 <input checked="" type="checkbox"/> MINIMUM REQUIRED EXPERIENCE FACTOR, SF (2.1.1)	2.0		<input checked="" type="checkbox"/> ACTUAL SF	3.9			
22 <input checked="" type="checkbox"/> AMBIENT TEMPERATURE (F) MAXIMUM	120		MINIMUM	48.8889			
23 <input checked="" type="checkbox"/> ENVIRONMENT (2.6.5) (2.1.6)	<input type="radio"/> DUST		<input checked="" type="checkbox"/> HYDROGEN SULFIDE	<input type="radio"/>			

25 <b>COUPLING DATA</b>							
26 <input checked="" type="checkbox"/> SHAFT SEPARATION AT OPERATING TEMP. (IN. B.S.E.)	0.88"	THERMAL GROWTH (IN.)	0.0005	AT		F	
27 <input checked="" type="checkbox"/> MOTOR ROTOR FLOAT (IN.)	NONE	<input type="radio"/> LIMITED END FLOAT (IN.)		(2.2.3)	<input type="radio"/> ELECTRICALLY INSULATED (2.1.12)		
28 <input type="radio"/> REQUIRED MISALIGNMENT CAPABILITY (2.1.2)							
29 <input type="radio"/> STEADY STATE:	ANGULAR (DEG.)		PARALLEL OFFSET (IN.)		AXIAL (IN.)		
30 <input type="radio"/> TRANSIENT:	ANGULAR (DEG.)		PARALLEL OFFSET (IN.)		AXIAL (IN.)		
31 <input type="radio"/> DYNAMIC BALANCE (2.5.2.1)	<input type="radio"/> COMPONENT BALANCE & ASSEMBLY CHECK BALANCE (2.5.2.1) (2.5.2.3)						
32 <input type="radio"/> ASSEMBLY BALANCE (2.5.2.4)	<input type="radio"/> REPEATABILITY TEST AFTER ASSEMBLY BALANCE (2.5.2.5)						
33 <input type="radio"/> RESIDUAL UNBALANCE CHECK OF COMPONENTS (2.5.2.2)							
34 <input checked="" type="checkbox"/> DESIGN RATING (HP/100 RPM) (2.1.1)	1.4	<input checked="" type="checkbox"/> MAXIMUM CONTINUOUS TORQUE (FT-LB) (5.2.5.6c)					
35 <input type="checkbox"/> BOLTING TORQUE (FT-LB) (2.1.11.5)		<input type="checkbox"/> LUBRICATED <input type="checkbox"/> DRY					
36 <input checked="" type="checkbox"/> MAXIMUM ALLOWABLE MISALIGNMENT (5.2.5.6a)							
37 STEADY STATE:	ANGULAR (DEG.)		PARALLEL OFFSET (IN.)		AXIAL (IN.)		
38 TRANSIENT:	ANGULAR (DEG.)		PARALLEL OFFSET (IN.)		AXIAL (IN.)		
39 <input type="checkbox"/> TORSIONAL STIFFNESS (x 10E6 LB-IN/RAD)			<input checked="" type="checkbox"/> WR2 (LB-IN.2)				

41 <b>MATERIALS (2.6)</b>			
42 DRIVE END MATERIALS		DRIVEN END MATERIALS	
43 HUB/FLANGE	1030/1040 CARBON STEEL		1030/1040 CARBON STEEL
44 SPACER	1030/1040 CARBON STEEL		1030/1040 CARBON STEEL
45 SLEEVE	1030/1040 CARBON STEEL		1030/1040 CARBON STEEL
46 FLEXIBLE-ELEMENT	AISI 301 FH STAINLESS STEEL		AISI 301 FH STAINLESS STEEL
47 BOLTS / NUTS	GR.5 / GR. 8		GR.5 / GR. 8

48 <b>COUPLING HUB MACHINING</b>			
49 <input checked="" type="checkbox"/> TYPE (INTEGRAL, CYLINDRICAL, TAPER (2.1.4) (2.1.8.1)) 50 <input checked="" type="checkbox"/> KEYED OR HYDRAULICALLY FITTED (2.1.8.1) 51 <input type="radio"/> TAPER (1 DEG I.A., 1/2 IN PER FT., 3/4 IN. PER FT.) 52 <input checked="" type="checkbox"/> KEYWAY DIMENSIONS AND NUMBER (2.1.8.1) 53 <input checked="" type="checkbox"/> NOMINAL BORE DIAMETER 54 <input checked="" type="checkbox"/> INTERFERENCE FIT (IN.) MAX./MIN. (2.1.8.1) 55 <input checked="" type="checkbox"/> PULLER HOLES 56 <input type="radio"/> BALANCING HOLES (2.5.3)	DRIVE END	DRIVEN END	
	<input checked="" type="checkbox"/> CYLINDRICAL	<input checked="" type="checkbox"/> CYLINDRICAL	
	<input checked="" type="checkbox"/> KEYPED	<input checked="" type="checkbox"/> KEYPED	
	<input checked="" type="checkbox"/> REFR TO DOC NO. PG-S-1-22002		
	<input checked="" type="checkbox"/> PER DRAWING BY KOP-FLEX	<input checked="" type="checkbox"/> PER DRAWING BY KOP-FLEX	
	<input checked="" type="checkbox"/> REQUIRED	<input checked="" type="checkbox"/> REQUIRED	

58 NOTES:  
59 COUPLING MEETS AGMA CLASS 9 BALANCE AS MANUFACTURE STANDARD. TEST REPORT TO BE PROVIDED.  
60  
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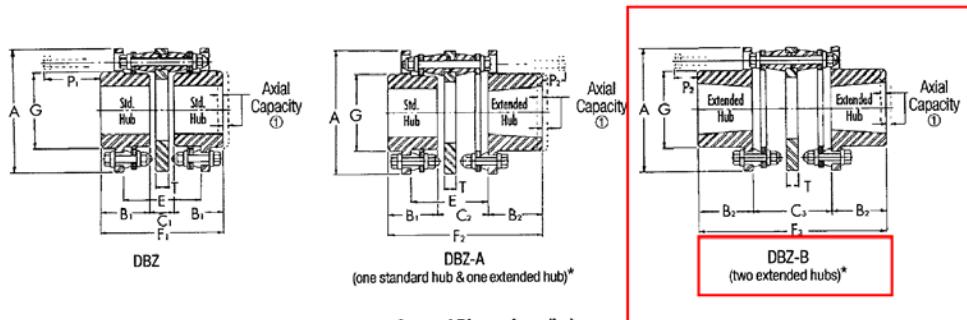
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<http://www.iprocessmart.com/techsmart/formulas.htm>

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



General Dimensions (in.)

Cplg. Size	Std. Hub Max. Bore	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			Max. RPM		Max Continuous Torque (lb.-in.)	Peak Overload Torque (lb.-in.)	Weight (lbs.)			WR <sup>2</sup> (lb.-in. <sup>2</sup> )			Axial Capacity (in.)
	Service Factor			Not Bal.	Balanced			DBZ	DBZ-A	DBZ-B	DBZ	DBZ-A	DBZ-B	
	1.0	1.5	2.0											
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	8,300	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	12,900	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