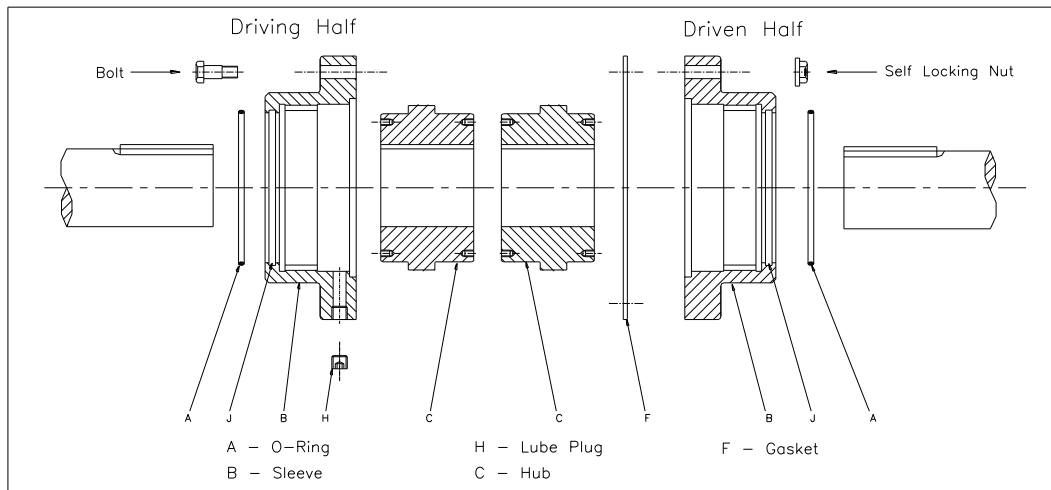




INSTALLATION & MAINTENANCE

ELIGN GEAR COUPLING

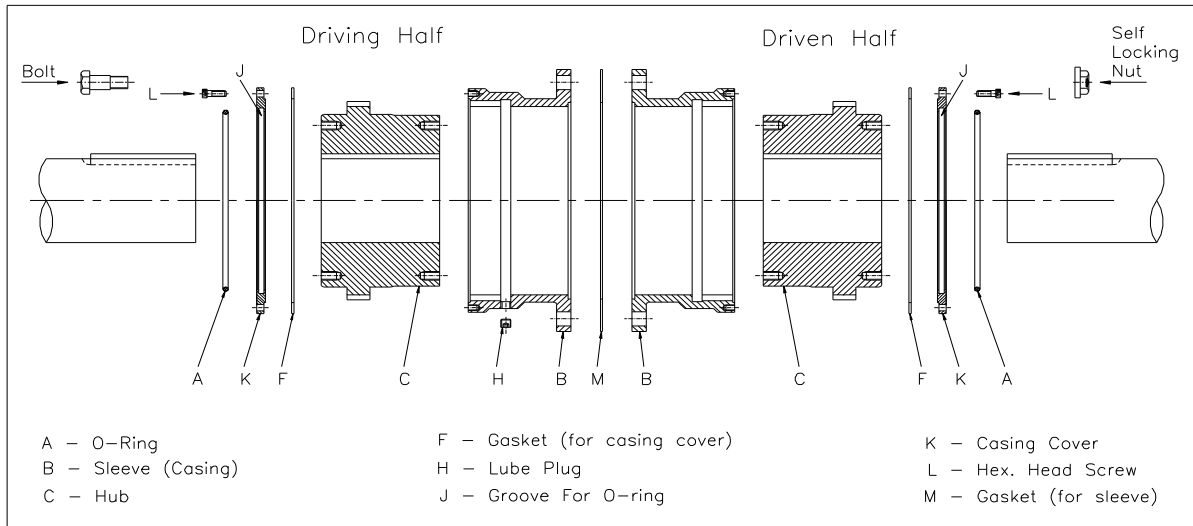
ELIGN GEAR COUPLING: 130 TO 17400



1. ASSEMBLING

- 1.1 Ensure all parts are clean.
- 1.2 Apply a light coat of grease to the O-Rings A and insert O-Rings into grooves J of sleeves B.
- 1.3 Place sleeves B over shaft ends. Care should be taken not to damage O-Rings A.
- 1.4 Install hubs C on their respective shafts with the longest hub end towards shaft end or towards machine bearing depending on the type (see page 3). If needed, uniformly heat hub C (max 120°C) to install them easily on the shaft, in this case, avoid any contact between the hub C and O-Ring A. Hub faces have to be flush with shaft end. In case of doubt, please consult us.
- 1.5 Install units to be connected in place and check the spacing N between hubs. See above tabulation or approved drawing for correct hub spacing N, according to coupling type. In case of doubt, pl. consult us.
- 1.6 Align the two shafts, check alignment using a precise tools & measuring instruments / align meter. Alignment precision depends on running speed (see page 3).
- 1.7 Coat hub & sleeve gearing with grease (see tabulation page 3) and slide sleeves B over hubs.
- 1.8 Insert gasket F and bolt sleeves together. Tighten bolts uniformly. See tabulation (page 2) for correct tightening torque (T Nm). Make sure that sleeve is freely sliding above hubs by axially displacing it to a value equal to N.
- 1.9 For the type ED, ES & ER remove both lube plugs H of one sleeve B and add grease in sufficient amount to overflow with lubricant holes in horizontal position. For the types ET & EV repeat this operation for the second sleeve. For quantity and quality of grease, see tabulation (page 3). Re-install the 2 plugs H. For type EV consult us.

ELIGN GEAR COUPLING: SUPER SERIES (25200 TO 110000)



1. ASSEMBLING

- 1.10 Ensure all parts are clean.
- 1.11 Apply a light coat of grease to the o-rings A and insert o-rings into grooves J of casing covers K.
- 1.12 Place casing covers K & gaskets F over shaft ends. Care should be taken not to damage o-rings A.
- 1.13 Install hubs C on their respective shafts with the longest hub end towards shaft end or towards machine bearing depending on the type (see page 2 & approved drawing of coupling). If needed, uniformly heat hub C (max 120°C) to install them easily on the shaft. In this case, avoid any contact between the hub C and o-ring A. Hub faces have to be flush with shaft end.
- 1.14 Coat hub & sleeve gearing with grease (see tabulation page 3) and slide sleeves B over hubs.
- 1.15 Install units to be connected in place and check the spacing N between hubs. See the tabulation (page 2) or approved drawing of coupling for correct hub spacing N, according to coupling type.
In case of doubt, pl. consult us.
- 1.16 Align the two shafts, check alignment using a precise tool & measuring instruments / align meter. Alignment precision depends on running speed (see page 3).
- 1.17 Join casing covers K & gaskets F to the sleeves B by fastening hex. Head screws L.
- 1.18 Insert gasket M and bolt sleeves together. Tighten bolts uniformly. See tabulation (page 2) for correct tightening torque (T Nm). Make sure that sleeve is freely sliding above hubs by axially displacing it to a value equal to N or as per approved drawing of coupling.
- 1.19 For the type ED & ER remove both lube plugs H of one sleeve B and add grease in sufficient amount to overflow with lubricant holes in horizontal position. For the types ET repeat this operation for the second sleeve. For quantity and quality of grease, see tabulation (page 3). Re-install the two plugs H.

2. MAINTENANCE

2.1 **Every 3,000 hours.**

Check that sleeves are freely moving axially: follow instructions as indicated in 1.8.

Fill up grease level: Proceed as mentioned under 1.9.

2.2 **Every 8,000 hours or every 2 years.**

2.2.1 Remove bolts and gasket F.

2.2.2 Control gearing and sealing.

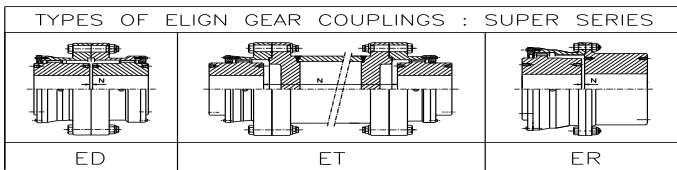
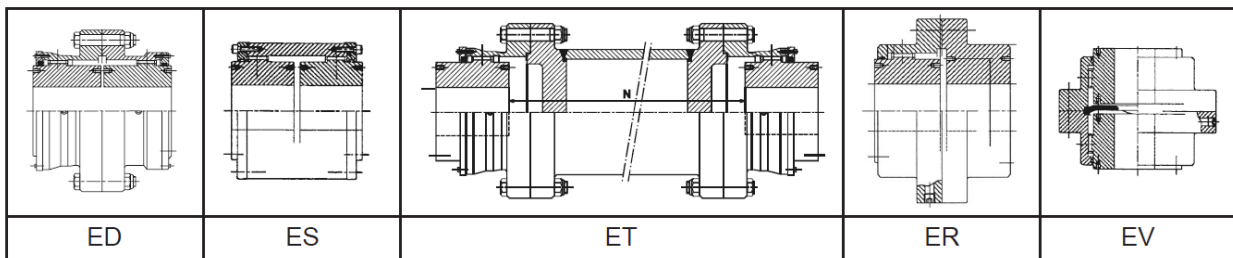
2.2.3 Control alignment.

Type	N (mm)			
	ED	ES	ER	EV
130	3	---	5	8
280	3	---	5	5
500	3	---	5	12.5
1000	5	---	6	11
1600	5	5	6	13
2200	6	6	6.5	14
3200	6	6	6.5	15
4500	8	8	8	17
6200	8	8	8	20
8400	8	8	8	27
11500	8	8	10	34
17400	10	10	13	28

Type	N (mm)	
	ED	ER
25200	15	12
29000	13	14.5
37000	20	16.5
45000	20	16.5
56000	13	---
75000	25	---
90000	25	---
110000	25	---

Type	ED, ET, ER EV		ED, ES, ET, ER, EV	
	Exposed Metric Bolts		Pipe Plug	
	Tightening Torque	Socket Size	Plug Size	Key Size
	T (Nm)	(mm)	(inch)	(mm)
130	33.5	10	1/8" BSP	5
280	66	12	1/8" BSP	5
500	112	14	1/8" BSP	5
1000	277	19	1/8" BSP	5
1600	277	19	1/8" BSP	5
2200	537	24	1/8" BSP	5
3200	537	24	1/8" BSP	5
4500	537	24	1/8" BSP	5
6200	537	24	1/8" BSP	5
8400	537	24	3/8" BSP	8
11500	795	30	3/8" BSP	8
17400	795	30	3/8" BSP	8

Type	ED, ET, ER			
	Exposed Metric Bolts		Pipe Plug	
	Tightening Torque	Socket Size	Plug Size	Key Size
	T (Nm)	(mm)	(inch)	(mm)
25200	1855	46	1/2" BSP	10
29000	1855	46	3/8" BSP	8
37000	3240	55	1/2" BSP	10
45000	3240	55	1/2" BSP	10
56000	1855	46	3/8" BSP	8
75000	3240	55	1/2" BSP	10
90000	3240	55	1/2" BSP	10
110000	3240	55	1/2" BSP	10



RECOMMENDED LUBRICANTS & QUANTITY

LUBRICANTS : GREASE:

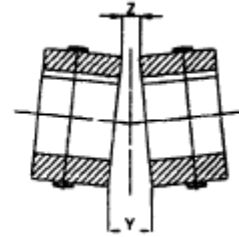
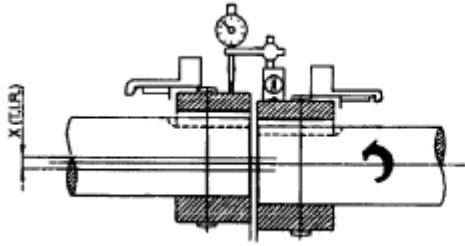
SERVOGEM EP-2 OF INDIAN OIL MAKE OR EQUI. GRADE.

HP LITHON EP-2 OF HINDUSTAN PETROLEUM MAKE OR EQUI. GRADE.

QUANTITY :

Type	QTY. (dm ³)				
	ED	ES	ET	ER	EV
130	0.047	---	2 x 0.025	0.025	2 x 0.021
280	0.074	---	2 x 0.037	0.037	2 x 0.037
500	0.131	---	2 x 0.065	0.065	2 x 0.057
1000	0.207	---	2 x 0.105	0.105	2 x 0.104
1600	0.362	0.362	2 x 0.180	0.180	2 x 0.164
2200	0.522	0.522	2 x 0.260	0.260	2 x 0.254
3200	0.796	0.796	2 x 0.400	0.400	2 x 0.387
4500	0.976	0.976	2 x 0.490	0.490	2 x 0.514
6200	1.513	1.513	2 x 0.760	0.760	2 x 0.741
8400	2.017	2.017	2 x 1.010	1.010	2 x 0.940
11500	2.429	2.429	2 x 1.210	1.210	2 x 1.120
17400	3.286	3.286	2 x 1.640	1.640	2 x 1.690

Type	QTY. (dm ³)		
	ED	ET	ER
25200	6.44	2 x 3.22	3.22
29000	7.60	2 x 3.80	3.80
37000	11.00	2 x 5.50	5.50
45000	12.00	2 x 6.00	6.00
56000	16.00	2 x 8.00	8.00
75000	18.00	2 x 9.00	9.00
90000	23.00	2 x 11.50	11.50
110000	25.00	2 x 12.50	12.50



Types ED, ES, ET, ER, EV	SPEED (rpm)									
	0-250		250-500		500-1000		1000-2000		2000-4000	
	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)
130 – 1000	0.25	0.25	0.25	0.25	0.25	0.25	0.15	0.20	0.08	0.10
1600 – 6200	0.50	0.60	0.50	0.60	0.25	0.35	0.15	0.20	0.08	0.10
8400 – 17400	0.90	1.00	0.50	0.75	0.25	0.35	0.15	0.20	---	---

Types ED, ET, ER	SPEED (rpm)							
	0-250		250-500		500-1000		1000-2000	
	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)	X max (mm)	(Y-Z) (mm)
25200 to 56000	0.90	1.00	0.50	0.75	0.25	0.35	0.15	0.20
75000 to 110000	1.50	1.50	1.00	1.00	0.50	0.50	---	---

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National Branches :

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