

CARE TAKEN DURING ASSEMBLY AND ALIGNING TOGETHER WITH CORRECT LUBRICATION AND MAINTENANCE WILL ENSURE SATISFACTORY LIFE FOR THE COUPLINGS

MOUNTING

Preassembly inspection

Prior to assembly ensure all parts are clean and free from foreign material and damage. Check individual measurement of relevant parts (e.g. hub, shaft fit / clearance etc) to maintain application requirement.

Fitting of hub on shaft

The seals must be assembled on the shaft prior to mounting of hubs. Lightly smear the seals with grease and remove lube plugs from each half.

Keyed fit assembly : adjust key as necessary. Dependant upon type of adjustment and to facilitate fitting, we recommend uniform heating of the hub to about 100°C to 120°C. Secure the seal.

Shrink fit on smooth shaft : with an interference of 1,2 to 1,6 %.

Degrease all contact surfaces and remove plugs from holes provided for hydraulic dismantling. Heat preferably in a furnace to 250°C assuming an ambient temperature of 20°C.

ALIGNMENT

Will be obtained by moving one of the machines to be coupled.

Align shafts within the misalignment limits given in table below.

For gap and angular alignment use a feeler gauge inserted between hub faces at four points, 90° apart, as shown in view below. For parallel alignment, use a straight edge, located over four external points on the hubs (as shown).

Note : - For more accurate alignment use a dial indicator.

- Each shaft must have its own thrust bearing, the coupling allowing for its free positioning.

Size	Installation limits					
	Parallel		Angular		Normal gap ± 10%	
	Max In.	Max mm.	Max In.	Max mm.	In.	mm.
2	.005	.12	.005	.12	.125	3
3	.005	.12	.005	.12	.125	3
4	.005	.12	.005	.12	.125	3
5	.005	.12	.005	.12	.125	3
6	.010	.25	.010	.25	.125	3
7	.010	.25	.010	.25	.125	3
8	.010	.25	.010	.25	.125	3
9	.012	.30	.012	.30	.125	3
10	.012	.30	.012	.30	.188	5
11	.012	.30	.012	.30	.188	5
12	.012	.30	.012	.30	.250	6
13	.012	.30	.012	.30	.250	6
14	.012	.30	.012	.30	.250	6

Parallel alignment

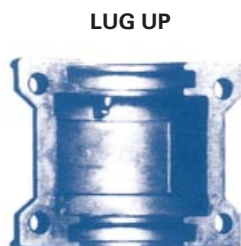
Gap, and regular alignment

ASSEMBLY

Before inserting grid, hand pack grooves and gap with lubricant (refer to tables overleaf for recommendations on type and quantity of lubricant). Fit grid over hubs and starting at one end, work coils of grid between the teeth. Seat with a soft mallet. If grids are supplied in more than one segment, install so that all cut ends extend in the same direction. Hand pack more lubricant around the assemble cover : see instructions overleaf.

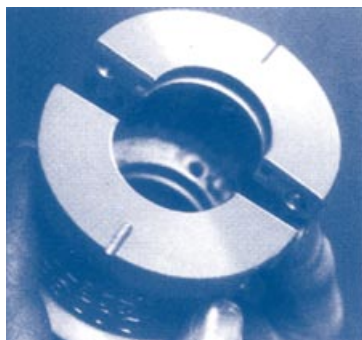
Position the two seals on the hub and align with the grooves in the half cover. Place gaskets on flanges of bottom half cover. Assemble cover with match marks on same side. Install fasteners in covers halves with nut end of bolt nearest lube plug (in this position, nuts are self retaining and do not require a wrench). Tighten per DG.H cover bolt tightening torque, as shown in table below (sizes 2-9 have nut locking flats in cover).

Note : coupling may be mounted on vertical or inclined shafts without modification, assemble half cover with anti-rotation lug and match mark on the upper side (see views).



LUG UP

ANTI-ROTATION LUG



COVER MATCH MARKS

COVER BOLT TIGHTENING TORQUE Nm				
SIZE DG	2-3-4	5-6-7-8-9	10-11	12-13-14
Nm	12	23	30	73

LUBRIFICATION

Insert lube connection. Pump in appropriate lubricant until it is forced out of the opposite lube hole. Then install lube plugs in holes.

Note : ALL LUBE PLUGS MUST BE INSTALLED BEFORE OPERATING COUPLING.

Table below lists lubricants, from several manufacturers, which will operate satisfactorily under average industrial conditions as long as the ambient temperature is within the limits of -18°C to -17°C. This table does not constitute a complete listing of acceptable lubricants and it is not meant to prohibit the use of lubricants with equivalent properties. Lubricants required for severe operating conditions should be referred to the factory or a lubrication manufacturer's representative for recommendations. Under average industrial conditions it is recommended that grid coupling lubricants meet the specifications listed below.

Coupling lubricant recommendation

- Dropping point : 149°C (300°F) or higher.
- Consistency : NLGI N° 2 with worked penetration value in the range of 250 to 300.
- Separation and resistance : low oil separation rate and high resistance to separation from centrifuging.
- Liquid constituent : possess good lubricating properties... Equivalent to a high quality well refined petroleum oil.
- Inactive : must not corrode steel or cause swelling or deterioration on neoprene.
- Clean : free from foreign inclusions.

SUGGESTED LUBRICANT	MANUFACTURERS	BP	ELF-ANTAR	ESSO	KLUBER	MOBIL	SHELL	TOTAL
	LUBRICANTS	LS EP2	EPEXELF2	BEACON EP2	COSTRAC AK 1502	MOBILUX EP2	CALITHIA EP2	MULTIS EP2

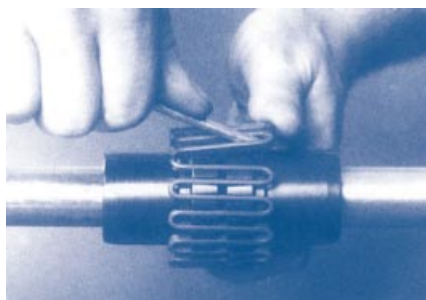
LUBRICATION WEIGHT	DG SIZE	2	3	4	5	6	7	8	9	10	11	12	13	14
	KG		0,03	0,03	0,06	0,06	0,09	0,11	0,17	0,25	0,43	0,51	0,74	0,91

Maintenance

Maintenance is recommended every 6 months to insure long life. Dismantle coupling and visually inspect all parts. Replace any worn parts. Hand pack coupling with lubricant.

Grid removal

When it is necessary to dismantle coupling, remove half covers. Beginning at a cut end of grid, carefully insert a screwdriver into loop. Using the teeth for leverage, gradually pry the grid up, alternating sides while working around the coupling.



GRID REMOVAL

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