

Gearflex

Installation and lubrication instructions



RENOLD
Superior Coupling Technology

Installation

- 1 Inspect and clean all parts.
- 2 Apply a light coat of selected lubricant to gear teeth, coat 'O' rings and hub seal diameters.
- 3 Check 'O' rings are in Ring Gear grooves and place Ring Gears over shafts with flanges at shaft ends.
- 4 Coat shafts with anti-galling compound.
- 5 Inserts keys in keyways and check to assure a snug side-to-side fit.
- 6 Heat Hubs in oil or oven to approximately 140°C (300°F), do not exceed 176°C (350°F).
- 7 Slide Hubs onto shafts to correct positions with long bosses at shaft ends for 'Normal Instalation', and allow to cool. Alternatively, either one or both Hubs may be reversed in order to increase the Distance Between Shaft Ensd (DBSE) if required. (Clearance fits are used for light duty applications only and should have set screws, tightened firmly.
- 8 Align equipment using a straight edge and feeler gauge, dial indicator or laser etc. Alignment and shaft gap must be within the limits shown in the table and should be the best economically possible.
- 9 Coat coupling gear teeth with selected lubricant.
- 10 Pull Sleeve Ring Gears over the Hubs, engaging the gear teeth.
- 11 Draw the flanges together, aligning bolt holes. Insert bolts with lock washers and nuts and tighten to the torque shown in the table.
- 12 Position coupling with two grease nipples horizontally, remove one and pump lubricant into the other until discharged from opposite.
- 13 Recheck tightness of all bolts etc.

Install a coupling card

Warning

Rotating equipment must be provided with a suitable guard before operating or injury may result. Check applicable regulations.

Lubrication¹

Grease lubrication is recommended for standard applications. For low speed applications (less than 100rpm) Oil is recommended.

Gear couplings should be checked and relubricated at least every six months. Severe environmemnts or conditions may require shorter intervals. Consult Renold for recommendations.

Lubricants

Normal Speed Range

Mobilgrease HP 222
 Mobilgrease HP 322 Special
 Mobilgrease FM 102 [*For use where incidental contact with food may occur*]
 Mobilgrease EAL 102 [*For use where Biodegradable and non toxic products are required*]
 Mobiltemp SHC 460 Special

High Torque/Misalignment

Mobilux EP 111
 Mobilith SHC 1500

High Temperature Applications

Mobiltemp SHC 460 Special
 Mobilith SHC 1500

Low Speed Applications

Mobilux EP 023
 Mobilith SHC 007
 Mobilgear OGL 007

Note

¹ Some oil leakage will be experienced for oil lubricated products with a through keyway. Please contact Renold for mitigation methods if required.

Coupling Size	Max Offset mm	Hub Gap mm	Bolt Torque Nm
GF10	1.2	3	12
GF15	1.5	3	42
GF20	2.0	3	100
GF25	2.3	5	200
GF30	3.0	5	200
GF35	3.5	6	340
GF40	4.0	6	340
GF45	4.5	8	340
GF50	5.3	8	340
GF55	6.0	8	340
GF60	6.5	8	340
GF70	7.8	8	340

