



- 1) BOLT
- 2) GASKET
- 3) NUT
- 4) SLEEVE
- 5) O-RING
- 6) OIL PLUG
- 7) HUB

### High Torque Ratings

RGD & RGS Series Gear coupling; torque capacity exceeds the competition, and it allows smaller coupling size of increased service factor.

### Large Bore Capacity

RGD & RGS Series Gear couplings can accommodate large shaft diameters for given particular size of coupling compared to the competition, in most instances. That means you can buy a smaller less expensive coupling and still get the proper rating for the equipment.

### Interchangeability

Complete half coupling assemblies are interchangeable with any other half gear coupling with exposed bolt flange manufactured to AGMA standard. Replacement half couplings provide additional hub strength and lower gear mesh loads.

### High Misalignment Capacity

RGD & RGS Gear couplings are designed to accommodate a static misalignment of 1½° per gear mesh. The recommended operating misalignment is limited to 3/4° per gear mesh. Axial moment of connected shafts is also accommodated in these couplings.

### Lubrication System

Special Grease (RSG) properties are designed/developed to resist separation of Base oil & thickener due to centrifugal forces encountered in Gear coupling. This benefits for the application -

- Significantly extended relubrication intervals
- Reduced maintenance cost
- Superior lubrication
- Increased coupling life

The location & size lubrication holes in the sleeve ensures that adequate grease is available at the gear mesh, where it is needed must fully moulded seals positively lubricant and seal interior against foreign matter.

### SERVICE FACTOR - S.F.

Torque Variation	Electric motor gas or steam turbine	Steam engine or water Turbine	Gas or oil Recip. Engine
<b>Consultant Torque</b> E.g. centrifugal pumps and compressors, light fans and light duty agitators	1	1.25	3
<b>Slight Fluctuations</b> E.g. screw compressors & pumps, liquid ring compressors, medium duty mixer & fans	1.5	2	3
<b>Substantial Fluctuations</b> E.g. reciprocating pumps, heavy duty mixer & fans	2	2.5	4

### SELECTION:

1. Select appropriate service factor S.F. 2. Calculate coupling Torque T (kNm)

$$T = \frac{9.55 \times P \times S.F.}{N}$$

Where P = Drive rated power (kW)

N = Speed (rev./Min)

- 3. Select Coupling With the same or higher torque.
- 4. Check hub bore capacity.
- 5. Check allowable speed.