



Installation - All Motors

Pump to Motor Coupling

Assemble coupling with non-toxic FDA approved waterproof grease such as Mobile FM102, Texaco CYGNUS2661, or approved equivalent. This prevents abrasives from entering the spline area and prolongs spline life.

Shaft Height and Free End Play

TABLE 28

| Motor | Normal Shaft Height | Dimension Shaft Height | Free End Play | |
|-------------|---------------------|----------------------------|---------------|---------|
| | | | Min. | Max. |
| 4" | 38.1 mm | $\frac{38.30}{38.05}$ mm | .25 mm | 1.14 mm |
| 6" | 73.0 mm | $\frac{73.02}{72.88}$ mm | .75 mm | 1.25 mm |
| 8" Type 1 | 101.5 mm | $\frac{101.60}{101.35}$ mm | .20 mm | .81 mm |
| 8" Type 2.1 | 101.5 mm | $\frac{101.60}{101.35}$ mm | .75 mm | 2.03 mm |

If the height, measured from the pump-mounting surface of the motor, is low and/or end play exceeds the limit, the motor thrust bearing is possibly damaged, and should be replaced.

Diaphragm Position Measurement

TABLE 28A Measure from Diaphragm Cover to Diaphragm via hole at base of motor

| Size | Motor Type | Diaphragm Measurement | |
|------|---|-----------------------|------|
| | | Min | Max |
| 4" | Super Stainless | n/a | n/a |
| 4" | High Thrust, Cast Thrust Housing | 14mm | 18mm |
| 4" | High Thrust, Straight (Clad) Thrust Housing | 8mm | 12mm |
| 6" | Straight Thrust Housing | 31mm | 38mm |
| 6" | Tapered Thrust Housing | 57mm | 61mm |
| 6" | Hi Temp 50C and 90C | 46mm | 48mm |
| 6" | Straight (Clad) Thrust Housing | 17mm | 21mm |
| 8" | Type 1, Straight Thrust Housing | 33mm | 43mm |
| 8" | Type 2 and 2.1, Tapered Thrust Housing | 32mm | 38mm |
| 8" | Hi Temp 75C | 33mm | 43mm |