

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