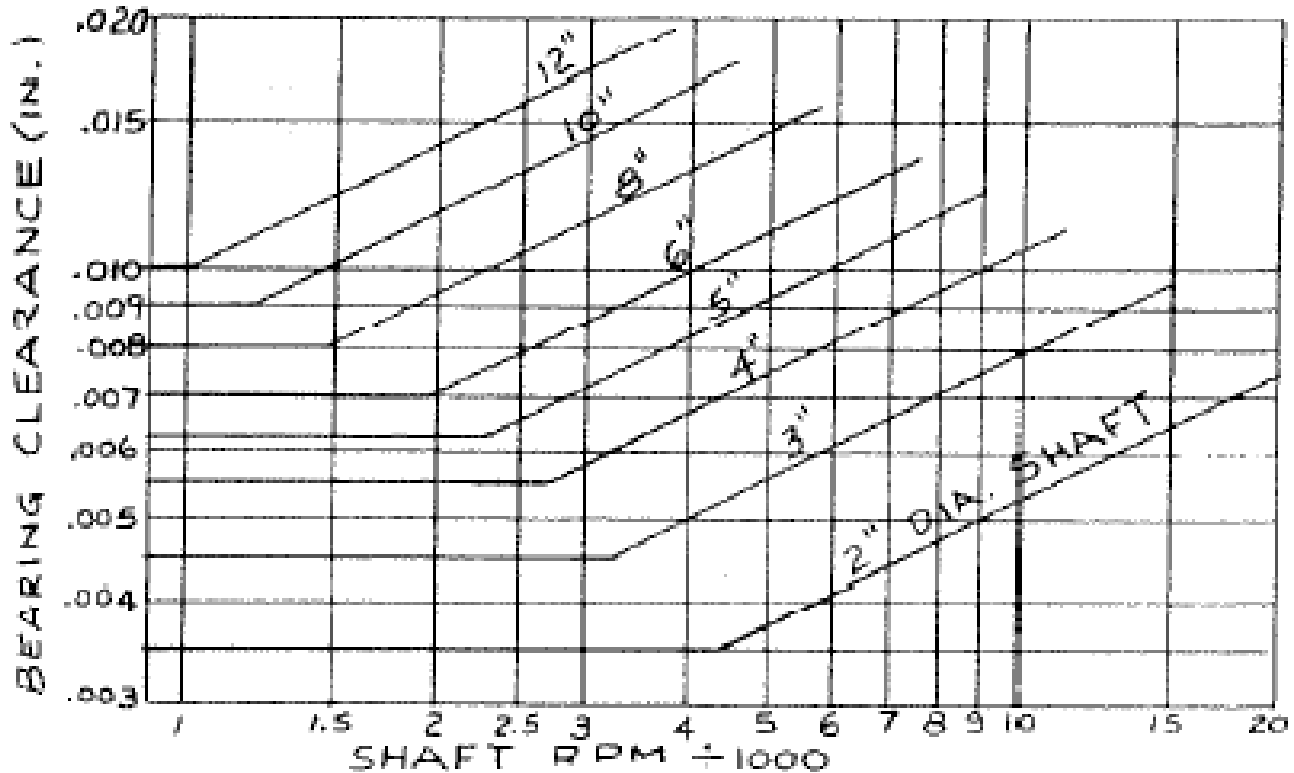


Shaft Bearing Clearances for Radial Hydrodynamic Bearings – A General Guideline

High Speed Gear units use sleeve type bearings which must operate with a specific clearance over the shaft. This clearance is calculated to allow for proper flow of oil through the bearing with consideration for the shaft speed and load.

Measurement of bearing clearance is easily performed by lifting the uncoupled shaft to the top of the bearing and measuring the distance to travel with an indicator. Measure as close to the bearing as possible.



These values are based on 150 SSU @ 100°F oil with inlet temperature of 110°F to 120°F at 20 psig pressure. The above clearances are for standard bearings under normal operating conditions. Consult Artec for sizes and speeds not shown and special conditions. Tolerance +/- 0.001" for 2"-6" diameters shafts +/- 0.015" for over 6" diameter shafts.



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**Shaft Bearing
Clearances for Radial
Hydrodynamic Bearings**
Type: Tech. Doc.
Order:

Date: 29-May-10

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