



BEARING SELECTION FACTORS

We recommend that testing be done in the actual operating environment to determine if a certain bearing unit is suitable for the application. Many variations can occur such as temperature, RPM, type of shafting, shock loads and support structures.

BALL BEARING UNITS

Note that all ball bearing units are pre-lubricated and made to ABEC-1 tolerances. The wide inner race locks securely to the shaft with set screws. A neoprene seal keeps contaminants out and allows use in wet or dry environments. Tolerates temperature range -30° to 200° F.

Load ratings for ball bearing units are based on the ball bearing insert in each unit. The dynamic load rating capacity (Lbs.) is the maximum constant radial load that a bearing can support for one million revolutions @ 33 1/3 RPM for 500 hours. Static load capacity (Lbs.) is the maximum static load (non-rotating shaft) that a bearing can support without causing permanent deformation.

Maximum speed ratings are based on light loads and reflective of bore sizes:

1/2"=6000 RPM, 5/8"=5000 RPM, 3/4"=4500 RPM, and 1"=3500 RPM

UHMW-PE AND BRONZE SLEEVE BEARING UNITS

Sleeve bearings do not have moving parts and assure a low friction, smooth motion between two solid surfaces. Load capacities are expressed as a "PV" factor. To identify the "PV" factor, multiply "P" (maximum pressure in PSI on the bearing surface) x "V" (maximum sliding velocity in Surface Feet Per Minute on the shaft). The PV factor should not exceed rated max PV.

To Calculate, use the following formula:

$P = \text{Bearing Load} / \text{Bearing Diameter} \times \text{Bearing Length}$

$V = \text{Shaft Diameter} \times \text{Shaft RPM} \times 0.262^*$

*0.262" is the constant used for sleeve bearings

BEARING "BEST MATCH" INTERCHANGE

	Lutco	Peer	POBCO	Randall
PBPS-BL-Series	SP4_FLMXYA###RR Series	FHSPRZ200 Series		
PBPS-BR-Series				EB-U_S##-HA Series
PBSS-UH-Series			BBU-SS Series	
F2PS-BL-Series	##PBR Series	FHSR200-4X700 Series		
F2PS-BR-Series				AN-U_-S##-FA Series
F2SS-UH-Series			FAU-SS Series	

Please note:

_ indicates a letter should be specified based on size and # indicates a number should be specified based on size

Bearing Selection:

Note after matching the bore size user should verify all critical dimensions as variations exist from manufacturer to manufacturer.

DISCLAIMER: Please note that dimensional differences may exist from manufacturer to manufacturer. While size may vary slightly, in no way does this effect form, fit or function. For exact product specification, please contact the factory at 1-888-525-3726.

WARRANTY: Clesco, a wholly owned subsidiary of the **Climax Metal Products Company**, warrants that all parts listed in this catalog meet the size and material specifications within. Any non-conforming product will be replaced or the purchased price refunded at the Company's option. The user is responsible for determining the suitability of a part for a particular application and performance. No employee of Clesco or its agents has the authority to represent these products for a particular application or use. Clesco's liability is limited to the price of the part and neither Clesco nor the seller's liability shall exceed the price of the part.