

Standard NYLA-K optional sealing arrangements

Standard NYLAPLATE-K specially compounded NYLON seals have a useful temperature range of -65°F. to $+300^{\circ}\text{F.}$ and can withstand temperatures up to 350°F. for intermittent service. The slinger adds protection against contamination, and can shield against radiant heat. Special sealing arrangements are available for higher temperatures, and "free-running" or special contamination resistance.

Special optional sealing arrangements

Suffix-MKFF indicates modified NYLAPLATE-K seals and slingers both sides. This provides a sealed, "free-running" bearing with heat shield protection. It is satisfactory for temperatures from -65°F. to $+300^{\circ}\text{F.}$ Prepacked with standard lubricant (see pages 2-3). If special grease prepack is required, advise factory.

The factory *must* be consulted regarding availability of any of these optional sealing configurations.

Examples for ordering:

1. Bearing Insert MB-25-1 $\frac{7}{16}$ -MKFF
2. Mounted Unit C-25-1 $\frac{7}{16}$ -MKFF

High temperature ball bearing inserts and housed units

NYLA-K mounted ball bearings and MB-25, MB-35 and ER series inserts are available for high temperature applications up to 450°F. The "TFF" package provides the following features.

1. Extra Internal Diametral Clearance (DC) based on a 200°F. temperature differential between inner and outer races, compensates for the inner race expanding at a faster rate than the outer race and will avoid preloading of the bearings.
2. Steel Retainer (Cage)—2-piece welded construction.
3. High Temperature Lubrication—prelubricated with a No. 2 consistency bentone-base grease with petroleum oil. When operated near upper limit, (400°F. to 450°F.) daily relubrication is required.
4. Teflon Seals withstand temperatures to 450°F. but could give off toxic fumes above 450°F.
5. Steel Slingers are mounted outboard of the Teflon seals with an interference fit with the O.D. of the inner ring.

Examples for ordering:

1. Bearing Insert MB-25-1 $\frac{7}{16}$ -TFF
2. Mounted Unit C-25-1 $\frac{7}{16}$ -TFF

Free running applications and applications above 450°F.

Sealing options such as -FF (slingers only) for "free running" applications and/or temperatures over 450°F. where contamination is not severe. The slinger acts as a labyrinth seal. High temperature bearings require a greater amount of diametral clearance (DC) and a higher temperature lubricant. Consult MB Engineering Department for recommendations. Consult your MB bearing source for price and availability of any special features.

Examples for ordering:

1. Bearing Insert MB-25-1 $\frac{7}{16}$ -FF
2. Mounted Unit C-25-1 $\frac{7}{16}$ -FF

Other applications considerations:

1. Fixed/Float Positions, where the bearing at one end of the shaft is fixed and the other "floats," are required when linear thermal expansion of the shaft occurs. Contact MB Engineering Department for mounting suggestions.
2. Catalog Load Ratings will not apply for applications above 300°F. , and must be reduced due to lower material hardness at higher temperatures.

