

Special Application Conditions

Abrasion

All moving parts (bearings, by their nature, allow parts to move) are affected by solid abrasives. It is impossible to predict the longevity of any specific product, including an EDT bearing, in a solid abrasive environment because there are so many unknown factors involved. Take, for example, salt. It is both hard and soft, smooth and rough-edged, and different colors. Typically, bearing seals are called upon to combat abrasives, but even the best bearing seals are a compromise because bearings need to allow parts to move against each other and in so doing, the seal is not tight. The best option for extending bearing life in abrasives is to cover up the bearing.

For this, EDT developed the Bearing Glove[®] (see Fig 20-1) that completely encapsulates the bearing and housing with a sealed plate on the bottom and a sealed cover on the top. This device is very effective, and is even more effective if it is filled with grease. The stationary grease captured by the Glove[®] cover is nearly 100% effective. Any bearing mounted inside the Glove[®] does not require lubrication for the life of the product. Like all EDT products, the Glove[®] is designed to accommodate all other industry standard designs.

The Glove[®] is designed to mate with 2-bolt flange housings. Since the diagonal distance across the bolt holes of a 4-bolt flange are the same as a 2-bolt flange, a 2-bolt Glove[®] can be used to retrofit 4-bolt locations. An optional stainless angle allows 2-bolt flange housings to be mounted upright, like pillow blocks, so the 2-bolt Glove[®] can also retrofit for pillow blocks (see Fig 20-2). With the Glove[®], three styles of bearings can accommodate complete exclusion of solid contaminants.

