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## KML Poly-Guard IP69K Seal Kit Through Shaft (Open Cap) Installation Instructions (Fits KML Stand-Out Bearing Style Housings Only.)

- 1. Insure that the shaft is properly dressed with all sharp edges and imperfections smoothed and flush.
- 2. Lightly grease the OD of shaft with Mobil FM222 food grade lubricant or compatible equivalent.
- 3. Install one of the FKM v-rings (brown) onto the shaft end with the beveled leading edge facing the conveyor frame or machine bulkhead. Push the v-ring approximately 1-1/2" on to the shaft. Place a small amount of Mobil FM222 food grade lubricant onto the contact lip of the v-ring (the surface facing away from the conveyor frame or machine bulkhead that contacts the back seal).
- 4. Install the double-lip back seal into the counterbore in the back face of the bearing housing with the stainless steel garter spring facing the bearing. Apply a small amount of Mobil FM222 food grade lubricant to the area between the seal lips where they will contact the shaft.
- 5. Slide the bearing housing assembly onto shaft, engaging the v-ring and move the bearing assembly into final mounting position. Check to verify that the v-ring is in contact with the face of the back seal. Bolt the bearing housing securely into position. Tighten the shaft set screws to the recommended torque specifications for the applicable bearing size (440C torque specifications found on page 170 in KML NA117 Master Catalog).
- 6. Apply a small amount of Mobil FM222 food grade lubricant to the area between the seal lips in the open cap where they will contact the shaft. KML recommends using food grade silicone sealant to mount the front cap. Place a small bead into the cap mounting counterbore groove for 270° of application diameter leaving 90° adjacent to the 6 o'clock cap mounting position free from sealant. This downward facing area will facilitate any moisture or condensation to evaporate from the cap. Mount the cap with removal lug in the 12 o'clock position by engaging the bottom half of the cap into the mounting groove. Set the cap by striking the corner at the removal lug position with a rubber mallet or dead blow hammer. Check to make sure cap is secured along the entire circumference of the mounting groove.
- 7. Install the remaining FKM v-ring (brown) onto the shaft end with the beveled leading edge facing away from the bearing housing. Place a small amount of Mobil FM222 food grade lubricant onto the contact lip of the v-ring (the lip that will contact the face of the open cap). Press the v-ring on to the shaft until it contacts the seal cavity in the front cap.
- 8. Installation of the Poly-Guard IP69K seal kit is now complete. KML Corrosion Resistant bearings are filled with enough food grade lubricant from the factory for initial operating conditions. Do not overlubricate the bearings. Over lubrication can cause the bearings to over heat and/or dislodge the seals and cap destroying the hermetically sealed bearing enclosure.

Following this installation procedure will duplicate the IP69K water ingress results achieved by KML Bearing USA in our extensive product development and testing program. The IP69K test is the most difficult water ingress test procedure acknowledged as a global standard. Following this installation procedure will insure extended bearing operating life, reduce maintenance activities and improve equipment productivity.

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Form: 0219-02 - KML PolyGuard OC Install