DODGE® Type K Flange, Wide Slot Take-Up, Top Angle Take-Up Bearings and B-1 Units

These instructions must be read thoroughly before installation or operation.

WARNING: To ensure that drive is not unexpectedly started, turn off and lock out or tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

INSTALLATION INSTRUCTIONS

1. Clean bore of bearing. Lubricate with light oil or antiseize compound.
3. Flange Expansion Bearings: Bolt outer housing to support. Loosen assembly bolts in outer housing a little as top half of flange mounting bolts so inner unit is free to align. Expansion-type outer housing should be located so inner unit can move freely in either direction. Outer housing shims provide a proper fit and must not be removed. Flange Non-Expansion Bearings: Loosen housing assembly bolts in outer housing as little as top half mounting housing bolts so inner unit is free to align in outer housing. Outer housing shims provide a proper fit and must not be removed.
4. Turn shaft several times or run with assembly bolts loose to allow inner units to align.
5. Retighten housing assembly bolts per Table 2.
6. Tighten setscrews to the torque values shown on Table 1.
7. The effort required to turn the shaft should be the same before and after bolting bearings to the support.

REPLACING A UNIT

1. Match mark housing halves for flange units before disassembly. When reassembling make sure match marks match.
2. Fit each unit to its outer housing before putting on shaft.
3. Add or remove shims between housing halves as required to obtain “snug” fit of unit in outer housing with cap bolts drawn down securely.
4. Check fit by prying against lubrication stud in unit through the lubrication hole in housing cap with a screwdriver or small pinch bar depending upon the size of the pillow blocks.
5. The “snug” fit becomes a matter of judgement. A “loose or sloppy” fit may allow a unit mount to move in its outer housing thus wearing the mating surfaces. Too “tight” a fit will not allow the unit to move and compensate for misalignment and for shaft deflection caused by belt pull and dead weight.
6. Install bearings per steps 1 to 4 above.

LUBRICATION GUIDELINE

Storage or Special Shutdown — If exposed to wet or dusty conditions or to corrosive vapors, extra protection is necessary. Add grease until it shows at the seals, rotate the bearing to dislubricate grease; cover the bearing. After storage or idle period, add a little fresh grease before running.

High Speed Operation — In the higher speed ranges too much grease will cause overheating. The amount of grease that the bearing seems noisy, usually indicates too little grease. High temperature with no grease showing at the seals, accompanied by excessive leakage of grease indicates too much grease. High temperature with no grease showing at the seals, particularly if the bearing seems noisy, usually indicates too little grease. Normal temperature and a slight showing of grease at the seals indicate proper lubrication.

LUBRICATION GUIDE

Read Preceding Paragraphs Before Establishing Lubrication Schedule.

Kind of Grease—Many ordinary cup greases will disintegrate at speeds far below those at which DODGE bearings will operate successfully if proper grease is used. DODGE bearing have been lubricated at the factory with an NLGI #2 lithium complex base grease. Relubricate with lithium complex-base grease or a grease which is compatible with the original lubricant and suitable for roller bearing service. In unusual or doubtful cases the recommendation of a reputable grease manufacturer should be secured.

Special Operating Conditions—Refer acid, chemical, extreme or other special operating conditions to Baldor Electric.