

Introduction

The following instructions apply to Models B1C, B1D, B1E and B1F backstops, Sizes 10, 20 and 60. These backstops are sold only as accessories for new or existing Falk™ drives. Do not use for any other application without written approval from Rexnord Industries, LLC.

The backstop is designed to operate during overrunning within a speed range of 400 to 1800 rpm and for creep drives between 100 and 400 rpm no more than one hour per month. For continuous speeds less than 400 rpm or greater than 1800 rpm, refer application to the Factory. The backstop can operate successfully on slope mounted applications up to a maximum shaft axis tilt of ± 6 from horizontal; refer to the Factory for other mountings.

To prevent damage to backstops due to incorrect motor shaft rotation at start up, couplings are NOT assembled when drives are furnished with backstops. After completing the electrical connection, check motor and drive shaft rotations. Then complete alignment and assembly of coupling.

WARNING: DO NOT use Falk™ pawl type backstops in tandem. Refer to Factory all applications involving the need for two or more backstops in one system.

DO NOT use backstops for systems that are designed for the handling of people such as elevators, manlifts, ski tows and ski lifts.

DO NOT use the backstop as a substitute for a brake. The backstop and normal associated equipment (shaft, pulleys, etc.) involve moving parts, therefore consult local, state, OSHA and ANSI safety codes for proper guarding of rotating members and possible pinch points.

If backstop slippage occurs, DO NOT operate. install a new backstop before resuming operation.

Installation

1. Lock out power source and remove external load from system.
2. Clean the backstop bore and the shaft on which the backstop will be mounted. Remove and clean shaft key and set aside.

CAUTION: Refer to direction of rotation arrow on backstop. Before installation make certain that the direction of rotation is correct. Check backstop size on nameplate and make certain it is correct.

3. Slide backstop onto shaft and torque arm pin. The backstop must slip fit onto shaft. DO NOT hammer backstop on shaft. Allow clearance between backstop anchor lug and torque arm pin, Figure 1. Allow clearance at torque arm pin for the extreme float limits of the shaft, Figure 2. Install key after aligning keyways.
4. Install spring pin or other locking device to hold backstop onto torque arm pin.
5. Check free and locked rotation of backstop. If satisfactory, stake key to through hardened shaft, Figure 3, or use an anaerobic thread sealant such as Loctite AVV if shaft is carburized.

Figure 1

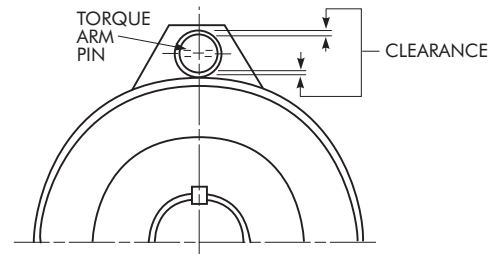


Figure 2

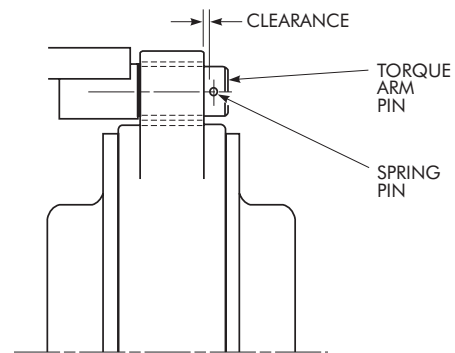
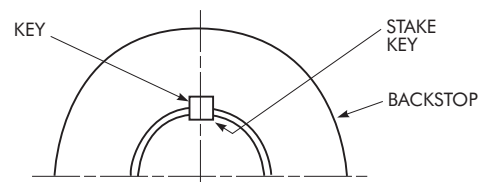


Figure 3



Maintenance

Only Type B1F backstops are furnished with grease-purged seals which minimize the entry of taconite and other abrasive dusts into the backstop. Unless specifically ordered otherwise, Type B1F back stops are furnished with NLG1 #2 bearing grease in the seal housing cavities.

WARNING: DO NOT fill cavities with grease if application is in the food or drug industry, where grease could contaminate the product.

Every six months, purge contaminated grease from the grease-purged seals using fresh NLGI #2 bearing grease. There are two lube fittings, located on either side of the backstop, one for each seal. For each lube fitting perform the following procedure. WITH A HAND GREASE GUN ONLY, slowly pump grease into the fitting until fresh grease flows from the seal area. Wipe off purged excess grease. Be sure to perform this procedure for each lube fitting.

Service & Removal

WARNING: *DO NOT attempt to service or remove backstop before locking out power source and removing load.*

Backstops must not be dismantled or repaired. Backstops are non-serviceable components. Replace damaged backstops with a new Factory tested backstop.

Remove backstop by applying axial force to the hub of the backstop only.

Warranty; Limit Of Liability

WARRANTY — Rexnord Industries (the “Company”) warrants that, for a period of three years from the date of shipment, the product described herein will deliver successfully its rated output as indicated on the nameplate, provided, it is properly installed and maintained, correctly lubricated, and operated in the environment and within the limits of speed, torque or other load conditions for which it was sold. Such product is expressly not warranted against failure or unsatisfactory operation resulting from dynamic vibrations imposed upon it by the drive system in which it is installed unless the nature of such vibrations has been fully defined and expressly accepted in writing by the Company as a condition of operation.