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Falk steelflex installation manual

This is the Original Document in English Language Sizes 1020-1170 Figure 1 - Steelflex T10 & T20 coupling range 1. General Information 1.1. Falk Steelflex Couplings are designed to provide a mechanical connection between the rotating shafts of mechanical equipment, using a grid spring to accommodate inherent misalignment while transmitting the power and torque between the connected shaft. jasija 1.2. These instructions are intended to help you to install and maintain your Falk Steelflex coupling. Please read these instructions prior to installing the coupling, and prior to maintenance of the coupling and connected equipment. here Keep these instructions near the coupling installation and available for review by maintenance personnel. For special engineered couplings, Rexnord may provide an engineering drawing containing installation instructions that take precedence over this document. 1.3. Rexnord Industries, LLC owns the copyright of this material. These Installation and Maintenance instructions may not be reproduced in whole or in part for competitive purposes. 1.4. Symbol descriptions: Danger of injury to persons. Damages on the machine possible. Pointing to important items.



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Damages on the machine possible. Pointing to important items. Hints concerning explosion protection. yizuno Rexnord Industries, LLC, 5555 S. Moorland Rd., New Berlin, WI 53151-7953 Telephone: 262-796-4060 Fax: 262-796-4064 e-mail: info@rexnord.com web: www.rexnord.com Installation and Maintenance Instructions Type T10 Type T20 Supersedes manuals 428-110, 112, 110 - 04/2005 • Falk Steelflex Type T10 & T20 (Page 1 of 9) Type T10 Sizes 1150-1260 428-111 02/2012 ® How to Use This Manual This manual provides detailed instructions on maintenance, lubrication, installation, and parts identification. Use the table of contents below to locate required information. Table of Contents Introduction . . . .
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FALK

Steelflex® Couplings • Installation and Maintenance

Type T10 • Sizes 1150-1260 & 150-260 (Page 1 of 6)

How To Use This Manual

This manual provides detailed instructions on maintenance, lubrication, installation, and parts identification. Use the table of contents below to locate required information.

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CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS MANUAL FOR OPTIMUM PERFORMANCE AND TROUBLE FREE SERVICE.

INTRODUCTION

This manual applies to Sizes 1150T thru 1260T and 150T thru 260T Falk Steelflex Tapered Grid Couplings. Unless otherwise stated, information for Sizes 1020T thru 1140T applies to Sizes 150T thru 260T respectively, e.g. 1150T = 150T, 1260T = 260T, etc. These couplings are designed to operate in either the horizontal or vertical position without modification.

The performance and life of the couplings depend largely upon how you install and service them. Carefully follow the instructions in this manual for optimum performance and trouble free service.

CAUTION: *Consult applicable local and national safety codes for proper guarding of rotating members. Observe all safety rules when installing or servicing couplings.*

WARNING: *Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing couplings.*

LUBE FITTINGS

Cover halves have $^{1}/_{8}$ NPT lube holes. Use a standard grease gun and lube fitting as instructed on Page 4.

LIMITED END FLOAT

When electric motors, generators, engines, compressors and other machines are fitted with sleeve or straight roller bearings, limited axial end float kits are recommended for protecting the bearings. Falk Steelflex couplings are easily modified to limit end float, refer to Manual 428-820 for instructions.

LUBRICATION

Adequate lubrication is essential for satisfactory operation. Page 2 provides a list of typical lubricants and specifications for general purpose and long term greases. Because of its superior lubricating characteristics and low centrifuge properties, Falk Long Term Grease (LTG) is highly recommended.

The use of general purpose grease requires re-lubrication of the coupling at least annually.

TYPE T10 STEELFLEX COUPLING

Long Term Grease (LTG)

The high centrifugal forces encountered in couplings separate the base oil and thickener of general purpose greases. Heavy thickener, which has no lubrication qualities, accumulates in the grid-groove area of Steelflex couplings resulting in premature hub or grid failure unless periodic lubrication cycles are maintained.

Falk Long Term Grease (LTG) was developed specifically for couplings. It resists separation of the oil and thickener. The consistency of Falk LTG changes with operating conditions. As manufactured it is an NLGI #1/2 grade. Working of the lubricant under actual service conditions causes it to become semifluid while the grease near the seals will set to a heavier grade, helping to prevent leakage.

LTG is highly resistant to separation, easily out performing all other lubricants tested. The resistance to separation allows the lubricant to be used for relatively long periods of time.

Steelflex couplings initially lubricated with LTG will not require re-lubrication until the connected equipment is stopped for servicing. If a coupling leaks grease, is exposed to extreme temperatures, excessive moisture, or experiences frequent reversals, more frequent lubrication may be required.

Although LTG grease is compatible with most other coupling greases, the mixing of greases may dilute the benefits of LTG.

USDA Approval

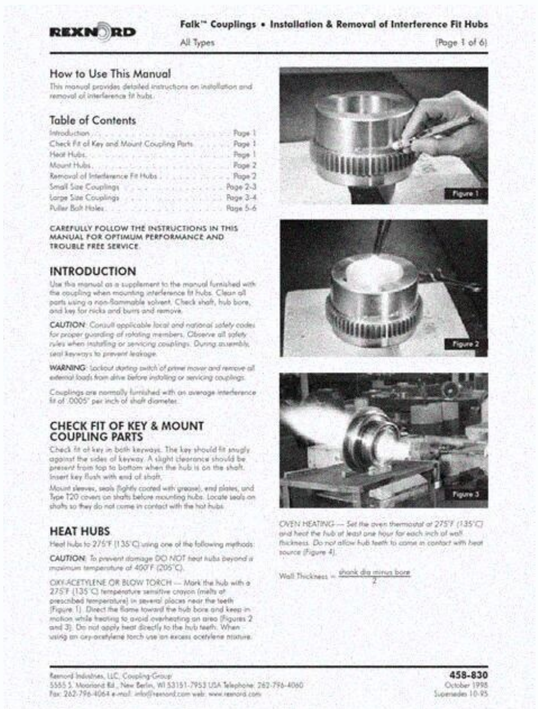
LTG has the United States Department of Agriculture Food Safety & Inspection Service approval for applications where there is no possibility of contact with edible products. (H-2 ratings).

CAUTION: *Do not use LTG in bearings.*

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Please read these instructions prior to installing the coupling, and prior to maintenance of the coupling and connected equipment. Keep these instructions near the coupling installation and available for review by maintenance personnel. For special engineered couplings, Rexnord may provide an engineering drawing containing installation instructions that take precedence over this document. 1.3. Rexnord Industries, LLC owns the copyright of this material. These Installation and Maintenance instructions may not be reproduced in whole or in part for competitive purposes. 1.4. Symbol descriptions: Danger of injury to persons. Damages on the machine possible. Pointing to important items. Hints concerning explosion protection. Rexnord Industries, LLC, 5555 S. Moorland Rd., New Berlin, WI 53151-7953 Telephone: 262-796-4060 Fax: 262-796-4064 e-mail: info@rexnord.com web: www.rexnord.com Installation and Maintenance Instructions Type T10 Type T20 Supersedes manuals 428-110, 112, 110 - 04/2005 • Falk Steelflex Type T10 & T20 (Page 1 of 9) Type T10 Sizes 1150-1260 428-111 02/2012 ® How to Use This Manual This manual provides detailed instructions on maintenance, lubrication, installation, and parts identification.
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REXNORD

Falk™ Couplings • Installation & Removal of Interference Fit Hubs

All Types (Page 1 of 6)

How to Use This Manual

This manual provides detailed instructions on installation and removal of interference fit hubs.

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CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS MANUAL FOR OPTIMUM PERFORMANCE AND TROUBLE FREE SERVICE.

INTRODUCTION

Use this manual as a supplement to the manual furnished with the coupling when mounting interference fit hubs. Clean all parts using a non-flammable solvent. Check shaft, hub bore, and key for nicks and burrs and remove.

CAUTION: *Consult applicable local and national safety codes for proper guarding of rotating members. Observe all safety rules when installing or servicing couplings. During assembly, seal keyways to prevent leakage.*

WARNING: *Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing couplings.*

Couplings are normally furnished with an average interference fit of .0005" per inch of shaft diameter.

CHECK FIT OF KEY & MOUNT COUPLING PARTS

Check fit of key in both keyways. The key should fit snugly against the sides of keyway. A slight clearance should be present from top to bottom when the hub is on the shaft. Insert key flush with end of shaft.

Mount sleeves, seals (lightly coated with grease), end plates, and Type T20 covers on shafts before mounting hubs. Locate seals on shafts so they do not come in contact with the hot hubs.

HEAT HUBS

Heat hubs to 275°F (135°C) using one of the following methods:

CAUTION: *To prevent damage DO NOT heat hubs beyond a maximum temperature of 400°F (205°C).*

OXY-ACETYLENE OR BLOW TORCH — Mark the hub with a 275°F (135°C) temperature sensitive crayon (melts at prescribed temperature) in several places near the teeth (Figure 1). Direct the flame toward the hub bore and keep in motion while heating to avoid overheating an area (Figures 2 and 3). Do not apply heat directly to the hub teeth. When using an oxy-acetylene torch use an excess acetylene mixture.

Figure 1

Figure 2

Figure 3

OVEN HEATING — Set the oven thermostat at 275°F (135°C) and heat the hub at least one hour for each inch of wall thickness. Do not allow hub teeth to come in contact with heat source (Figure 4).

Wall Thickness = $\frac{\text{shank dia minus bore}}{2}$

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. Page 6 Parts Identification & Parts Interchangeability . . . . . Page 7 CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS MANUAL FOR OPTIMUM PERFORMANCE AND TROUBLE FREE SERVICE. INTRODUCTION This manual applies to Sizes 1020T thru 1140T and 20T thru 140T35 standard Falk Steelflex Spacer Couplings. Unless otherwise stated, information for Sizes 1020T thru 1140T applies to Sizes 20T thru 140T respectively, e.g. 1020T = 20T, 1100T = 100T, etc. For couplings furnished with special features, refer to assembly drawing furnished with coupling for proper assembly arrangement and any additional installation or maintenance requirements. The Spacer Assembly permits installation (or removal, as shown on Page 5) without disturbing connected equipment.
These couplings are designed to operate in either the horizontal or vertical position without modification. However, for vertical applications, the cover match mark shown on Page 4 must be up. Current couplings are supplied with one set of metric cover fasteners. Older couplings may have inch cover fasteners. The performance and life of the couplings depend largely upon how you install and service them.
WARNING: Consult applicable local and national safety codes for proper guarding of rotating members. Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing couplings. Observe all safety rules when installing or servicing couplings.
WARNING: Mixing grid coupling components from different manufacturers may cause premature failure and personal or property damage from flying debris. LUBE FITTINGS Cover halves have 1 / NPT lube holes. Use a standard grease 8 gun and lube fitting as instructed on Page 5.
LIMITED END FLOAT When electric motors, generators, and other machines are fitted with sleeve or straight roller bearings, limited axial end float kits are recommended for protecting the bearings. Falk Steelflex couplings are easily modified to limit end float; refer to Manual 428-820 for instructions. LUBRICATION Adequate lubrication is essential for satisfactory operation. Rexnord Industries, LLC, Coupling Group 5555 S. Moorland Rd., New Berlin, WI 53151-7953 USA Telephone : 262-796-4060 Fax: 262-796-4064 e-mail: info@rexnord.com web: www.rexnord.com ® Falk™ Steelflex Spacer Couplings Type T35 Sizes 1020-1140 & 20-140 • Because of its superior lubricating characteristics and low centrifuge properties, Falk Long Term Grease (LTG) is highly recommended. Sizes 1020T to 1090T35 are furnished with a pre-measured amount of LTG grease for each coupling. The grease can be ordered for larger size couplings. The use of general purpose grease requires re-lubrication of the coupling at least every six months. If coupling leaks grease, is exposed to extreme temperatures, excessive moisture, experiences frequent reversals or axial movements; more frequent lubrication may be required.
Long Term Grease (LTG) The high centrifugal forces encountered in couplings separate the base oil and thickener of general purpose greases. Heavy thickener, which has no lubrication qualities, accumulates in the grid-groove area of Steelflex couplings resulting in premature hub or grid failure unless periodic lubrication cycles are maintained. Falk Long Term Grease (LTG) was developed specifically for couplings. It resists separation of the oil and thickener. The consistency of Falk LTG changes with operating conditions. As manufactured, it is an NLG1 # ½ grade. Working of the lubricant under actual service conditions causes it to become semifluid while the grease near the seals will set to a heavier grade, helping to prevent leakage.
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Min. Pump = 20°F (–7°C) MINIMUM BASE OIL VISCOSITY — 3300SSU (715cST) @ 100°F (38°C) THICKENER — Lithium & soap/polymer. Installation & Maintenance • (Page 1 of 7) Supersedes 4-99 428-312 April 2005