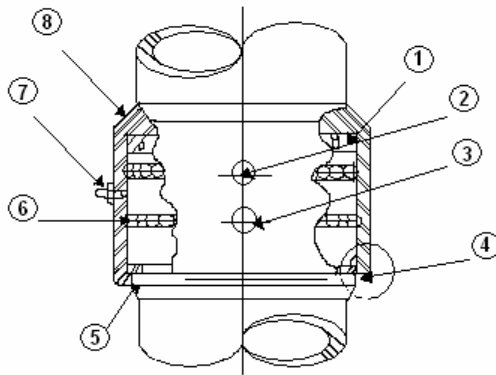


Technical Bulletin



Stang Industrial Products
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Technical Bulletin #: TB-17
Part #: N/A
Description: Swivel Joint Service Instructions
TB Description: For the repair & service of Stang swivels



Parts

1. Pressure Seal
2. Ball Retainer Plug
3. Retaining Ring (For Plug)
4. Dirt Seal
5. Inner Race
6. Steel Balls
7. Grease Zerk
8. Outer Race

Equipment needed

1. Retaining ring pliers (Truarc or equal: #1 internal rings on joints up to 4", and #3 for 6" joints and larger)
2. Sharp pointed tool (Example: alignment punch or ice pick).
3. Solvent to soften grease in ball races.
4. Cleaning material-rags.
5. Lubricant: All purpose grease, grade #2.
6. New Seals.

Maintenance

1. Lubricate swivel joint through grease zerk (7) after each 24 hours of accumulated use.

Caution: Excessive grease pressure can cause packing displacement and consequent leakage.

2. Inspect swivel joint at regular intervals for water leakage. If leakage is detected, replace packing as described in the repair procedure.

REPAIR

1. Disassembly:
 - A. With retaining ring pliers, remove the two retaining rings (3).
 - B. Insert sharp pointed tool into middle of the ball retainer plug (2) and lift at slight angle. The ball retainer plug has a metal plate on top with a small hole in the middle of the plate to aid in removal.
 - C. Rotate swivel joint to allow balls (6) to roll out of races. If grease is thick and heavy, balls may not fall free. Use solvent to clean. Balls will always roll out if races are clean. Parts will disassemble when all the balls have been removed, and the seals will be exposed. A flexible polyethylene rod or similar tool may be used to push balls from race.
2. Cleaning:
 - A. Remove old seals (1 & 4) and replace with new parts.
 - B. Thoroughly clean all parts and apply a thin coat of lubricant around the packing.

Reassembly

1. Replace pressure seal with new part if necessary. Lips must face away from ball grooves. Put small amount of grease on seal to ease reassembly.
2. Replace dirt seal. (Item 4)
3. Press the separate swivel joint races together and drop in the balls until the races are filled.
4. Replace the ball retainer plugs (2).
5. Replace retainer rings (3) with retaining ring pliers.
6. Lubricate the ball race area by using a small hand grease gun to force a small amount of the lubricant through grease zerk (7). Then rotate one portion of the 90° and regrease. Repeat 2 more times.
 - a. **Caution:** Do not over grease. Excessive grease pressure can cause leakage and/or difficult rotation.