Repair Instructions for the 9500 CorrPro® Rotary Joint - 12 mm with Rotating Syphon

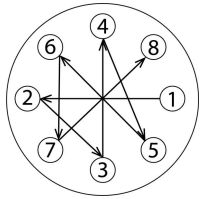
fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/corrpro-rotary-joint/repair-instructions-for-the-9500-corrpro-rotary-joint-12-mm-with-rotating-syphon

Effective: April 1, 2022

Introduction

Read all of the instructions before proceeding.

Refer to Kadant Johnson assembly drawing for part identification and to drawing A37640 for torque specifications. For easy identification, parts used in individual steps are often accompanied with their position in the assembly drawing [e.g. gasket (8B)]. Tighten all fasteners in a star pattern. Certified drawings are available upon request. Dimensions are for reference only and subject to change.



Safety

⚠ This safety symbol alerts you to risk of death or injury if the instructions are not followed. In all steps, death or injury may result if the machine is not de-energized, depressurized, cooled, and stopped. Death or injury may occur if the product is operated with a fluid type or at a pressure, temperature, or speed that do not meet its specifications. Death or injury may occur if heavy parts and pinch hazards are not handled properly. Follow your company's safety procedures.

Tools

Assorted Combination Wrenches
Assorted Sockets

30 to 250 lbs Torque Wrench

O-ring Pick

Step 1

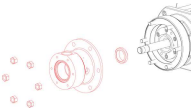
Disconnect the piping. Remove the head.

⚠ Equipment must be cool and free of pressure.

⚠ Use caution when disengaging the head from the horizontal pipe.

Step 2

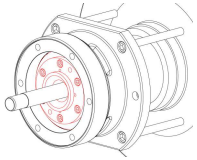
Remove the body and seal ring.



⚠ Spring force present during removal.

Step 3

Inspect the wear plate. If it is damaged, replace using a new gasket and/or O-ring(s).



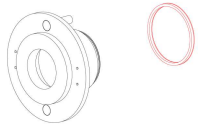
Step 4

Place the body in a press and compress the nipple enough to remove the retaining ring. Release the press and separate the nipple from the body.

⚠ Spring force present during removal.

Step 5

Remove the energized seal from the nipple. Clean and inspect the body, springs, and nipple for damage. Replace if damaged.



Step 6

Install a new energized seal on the nipple. Place the body into the press and install the springs. Using silicone lubricant, lubricate the energized seal and the bore of the body. Press the nipple into the body aligning the pins with the appropriate holes in the body. Install the retaining ring and release the press.

Important: Install the energized seal with the cup or "U" shape facing away from the nipple.

Important: Ensure the that the lip of the energized seal has not folded over by viewing from the back side of the body. If damaged, replace with a new energized seal.

Step 7 - Two-piece head

Remove the pipe adapter (5) from the head and clean the gasket surface. Install a new preassembled pipe adapter using a new gasket.

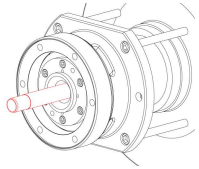
Step 8 - One-piece head

Remove the lip seal (13) and bushing (9) from the head. Heat the head using a torch in and around the area where the bushing will be inserted. Once the area has reached approximately 400 °F (205 °C), press the new bushing into place. Press the lip seal into place with the Teflon seal facing away from the head.

⚠ Parts are extremely hot.

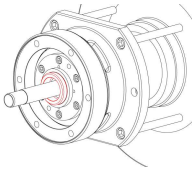
Step 9

If the horizontal pipe was removed, insert it into the journal according to the machine manufacturer's instructions.



Step 10

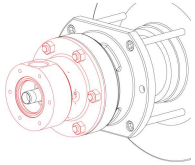
Place three equally spaced drops of seal ring installation fluid on the conical side of the seal ring. Install the seal ring.



Important: Make sure the seal ring is centered and does not fall off the wear plate.

Step 11

Install the body assembly to the bracket and secure with the provided fasteners (1A).



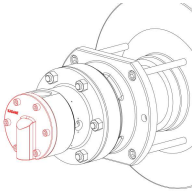
Important: Check the seal ring wear/set-up dimension indicator to ensure proper set-up.

⚠ Pinch hazard during installation.

⚠ Spring force present during installation.

Step 12

In order to make installing the head easier, stretch the lip on the lip seal by using a smooth handled tool. Lubricate the seal and install the head using a new gasket.



R-9500CorrPro-12mm-Rotating-1

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Kadant Johnson products are built to a high standard of quality. Performance is what you desire: that is what we provide. Kadant Johnson products are warranted against defects in materials and workmanship for a period of one year after the date of shipment. It is expressly understood and agreed that the limit of Kadant Johnson's liability shall, at Kadant Johnson's sole option, be the repair or resupply of a like quantity of non-defective product.

Kadant Johnson rotary joints and accessories could be subject to European Pressure Equipment Directive 2014/68/EU (PED). Modifications or changes to rotary joints and/or accessories are only permitted upon approval of Kadant Johnson. Only genuine Kadant parts and original accessories will ensure the safety of these assemblies. The use of other than original parts voids the warranty and will lead to forfeiture of the declaration of conformity and will invalidate any liability for damages cause thereby.