


Repair Instructions for the ELSXJ with ISSS Syphon

 fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/els-elsx-rotary-joints/repair-instructions-for-the-elsxj-with-iss-syphon

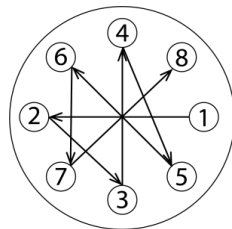
Effective: February 17, 2023



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.

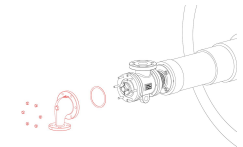
Safety

 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.

Step 1

Disconnect the piping and anti-rotation device. Remove the head.

 Equipment must be cool and free of pressure.

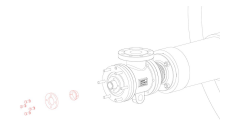


Step 2

Remove the pressure plate and split rings.

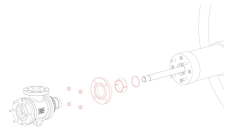
Important: Mark the end of the horizontal pipe where it passes through the pressure plate or measure and record the distance it is protruding out. Refer to either during installation.

Note: In some instances a horizontal pipe handling tool will be needed. Contact Kadant Johnson if one is needed.



Step 3

Loosen and remove the nipple flange and slide the rotary joint away from the journal. Remove the metal gasket (8Q) from the journal flange and discard. Remove the split wedges and nipple flange and save for reuse.



Step 4 - SERVICING THE JOINT

Remove the wedge plate and assembly plate by loosening the two cap screws (31A).



Step 5

Remove the front guide and assembly consisting of the nipple, spring shoulder, spring, and seal ring.



Note: The spring shoulder may be stuck on the nipple. Separate the two parts.

Note: ELS rotary joints that are 3 1/2" and larger, the front guide is contained in the assembly plate and is removed with it.

Step 6

Separate the wear plate from the body. Remove the back guide by removing the retaining ring.



Step 7

Discard the seal ring, gaskets, guides, and O-rings. Inspect and clean all gasket, O-ring, and sealing surfaces. Replace any damaged parts.

Step 8

Install a new back guide into the wear plate and secure with the retaining ring. Using a new gasket, install the wear plate on the body.



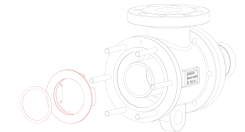
Step 9

Turn the rotary joint upright and install a new seal ring, with the concave side facing outward. Install the nipple into the body followed by the spring.



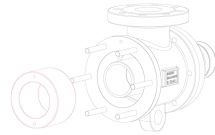
Step 10

Install a new O-ring into the spring shoulder. Install over the nipple by aligning the keys with the spring shoulder keyways.



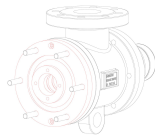
Step 11

Install the front guide over the nipple with the two pin holes facing outward.



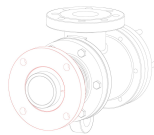
Step 12

Install a new O-ring into the assembly plate and two new O-rings into the wedge plate. Using two new gaskets, install the assembly plate and wedge plate while lining up the pins with the corresponding holes in the guide.



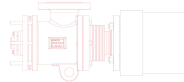
Step 13 - Reinstallation

Slide the nipple flange over the rotary joint nipple with the taper facing out. Place the split wedges into the recess of the nipple. Slide the nipple flange over the wedges.



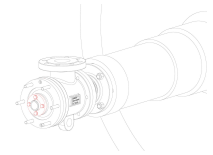
Step 14

Place metal gasket into the journal flange. Lift the rotary joint up, slide over the horizontal pipe and into the journal flange. Secure to studs with nuts. An even gap of 1/8" to 3/16" (3 to 5 mm) should remain in between the journal flange and nipple flange.



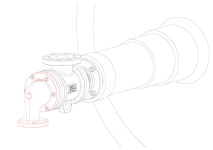
Step 15

Place the split rings into the wedge plate. Install the pressure plate over the split rings and hand tighten. Position the horizontal pipe as it was in step 2. Tighten cap screws evenly to 8 ft-lbs (11 Nm). Tap the pressure plate with a soft-faced hammer to seat the split wedges. Tighten cap screws evenly to 16 ft-lbs (22 Nm).



Step 16

Install the head using a new gasket. Reinstall the piping and anti-rotation device.



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The Kadant Johnson Warranty

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.

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