Installation Instructions for the 2000 LN Rotary Joint

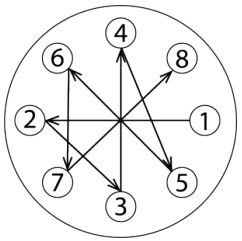
fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/2000ln-install

Effective: February 10, 2024

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.

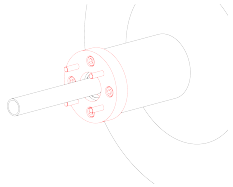


Safety

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

Remove the existing equipment. If installing a new journal flange, install with a new gasket.



Equipment must be cool and free of pressure.

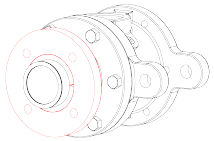
Step 2

Remove the head (2), packing gland (10), locknut (30), and packing (35) from the rotary joint.

Important: Check that the horizontal pipe is straight and true to prevent excess wear and breakage.

Step 3

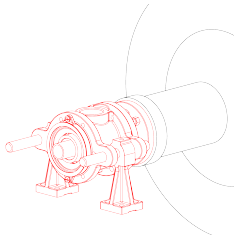
Slide the nipple flange (5) over the rotary joint nipple (4) with the taper facing out. Place the split wedges (55) into the recess of the nipple. Slide the nipple flange over the wedges.



Note: If the rotary joint has a threaded nipple connection, thread it into the journal flange and tighten.

Step 4

Place a metal gasket (8Q) into the journal flange. Lift the rotary joint up and slide the nipple into the journal flange while engaging the support rods with the holes in the body lugs. Secure the nipple flange (5) to the studs with hex nuts. An even gap of 1/8" to 3/16" (3 to 5 mm) should remain in between the journal flange and nipple flange.

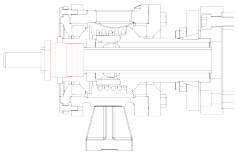


Important: The clearance between the wear plate/body and nipple should be even around the entire nipple. Refer to drawing A20366 depending on the size rotary joint used in your application.

Note: When rod support stands are used, install the rods after the rotary joint is secured to the roll.

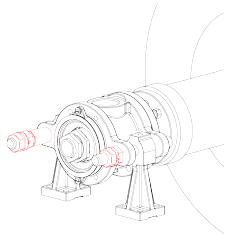
Step 5

Reinstall the packing, packing gland, and locknut. Apply approximately 30 ft-lbs (41 Nm) of torque to the packing gland and tighten the locknut.



Step 6

The LN rotary joint uses hex nuts installed on the support rods as seal wear indicators. Install a hex nut on each rod so there is a space between the hex nut and lug on the body (1). Install lock washer and a second hex nut to each rod and tighten in place. Refer to the rotary joint drawing for the correct spacing.



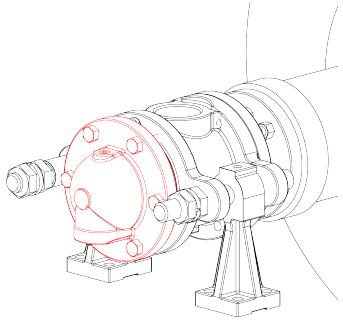
Important: Do not lock the rotary joint in place on the supports.

Note: In some applications, a retaining plate is used on the support rods. There should be a space in between the head and retaining plate to allow for seal wear.

Note: As the seal ring wears the rotary joint will move away from the roll. When the rotary joint reaches the hex nuts the seal ring is worn.

Step 7

Reattach the head (2) and gasket (8).



Step 8

Connect piping to rotary joint using Kadant Johnson flexible metal hose.

Recommended Minimum Hose Lengths	
Hose Size	Minimum Length
1/4"	8" (200 mm)
3/8"	10" (250 mm)
1/2"	10" (250 mm)
3/4"	12" (300 mm)
1"	15" (380 mm)
1-1/4"	18" (450 mm)
1-1/2"	18" (450 mm)
2"	21" (530 mm)
2-1/2"	22" (560 mm)
3"	24" (610 mm)

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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

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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.