Installation Instructions for the 1150 LN Rotary Joint

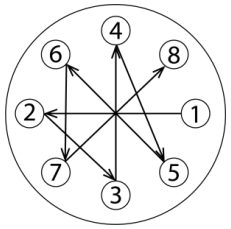
fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/lj-ln-ljx-rotary-joints/1150ln-install

Effective: December 2, 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)].



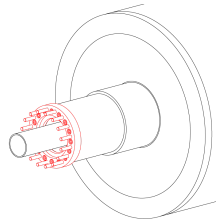
Tighten all fasteners in a star pattern. Certified drawings are available upon request. Dimensions are for reference only and subject to change.

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 does 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 from the roll. Install the journal flange using a new gasket.



⚠ Equipment must be cool and free of pressure.

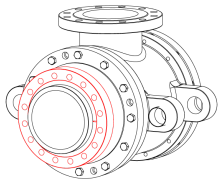
Step 2

Remove the head and flanged head (2 and 2A) from the rotary joint. Do not separate the two pieces. Remove the packing gland (10), cap screws (10A), and packing (35) from the rotary joint.

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

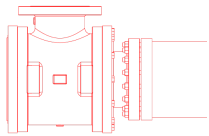
Step 3

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.



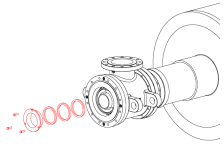
Step 4

Place metal gasket (8Q) into the journal flange. Lift the rotary joint up, slide over the horizontal pipe and into the journal flange. Secure to 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.



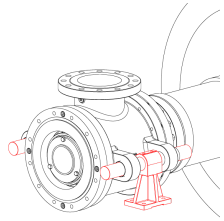
Step 5

Reinstall the packing and packing gland. Secure with the cap screws and safety wire provided.



Step 6

Use a suitable support to the mount the rotary joint. Make sure that the nipple assembly (4) is centered in both the assembly plate (31) and wear plate (16).

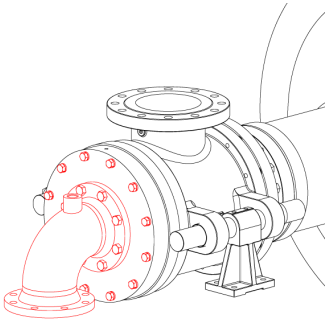


Important: The clearance around the nipple should be 1/4" +/- 0.06" (6.35 mm +/- 1.52 mm) around the entire circumference of the parts in each location.

Note: If necessary, loosen the supports and re-align the rotary joint. Shims may be required under the support stands.

Step 7

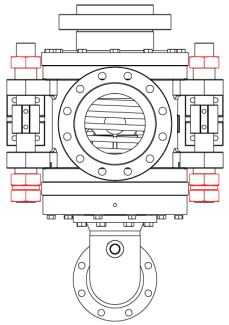
Reattach the head/flanged head assembly and gasket.



Step 8

Install a hex nut on each rod. There should be a space in between the lugs on the body and the hex nuts. Refer to the equipment drawing for the proper spacing. Install the remaining lock washers and hex nuts.

Important: There must be a space between the hex nuts and body lugs. As the seal ring wears, the rotary joint will move away from the roll.



Step 9

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

Important: Refer to Flexible Hose Installation.

Recommended Minimum Hose Lengths

Hose Diameter	Minimum Length
4"	28" (700 mm)
5"	30" (750 mm)
6"	33" (850 mm)
8"	36" (900 mm)

KADANT

IS-1150 LN

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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.

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