Follow your company's safety procedures whenever working on Kadant Johnson products. Read all of the instructions before proceeding with the installation or repair.

Please refer to the Kadant Johnson assembly drawing for part identification. Assembly drawings are available on request from Kadant Johnson.

Lubricate all fasteners with anti-seize compound. Tighten all fasteners in a star pattern. Torque specifications are listed on the product assembly drawing and are available from Kadant Johnson.

NOTE: Do not use anti-seize or petroleum-based products on o-rings. Only lubricate the o-rings with the silicone lubricant supplied with the Kadant Johnson repair kit. Prior to handling lubricants, consult MSDS information.

**STEP 1.**
Remove all existing equipment from dryer journal. If the dryer has Kadant Johnson equipment on it, please follow the disassembly instructions for the type of equipment that is installed.

**STEP 2.**
Clean gasket surfaces on the inside and the outside of the journal. Chase and clean all threaded holes.

**STEP 3.**
Using gasket tack, position gasket (1) to flange on the insulating sleeve (2). Some insulating sleeves are installed using a spider flange that supports other equipment. If a spider flange is used, attach it to the insulating sleeve using two number 10-socket head cap screws before continuing.

**STEP 4.**
During this step, protect the o-ring end of the insulating sleeve from damage by leaving the plastic expanded mesh in place. From inside the dryer, pass the insulating sleeve (2) into the journal. Install hex head cap screws (3) and tighten “finger tight” so that the outside end of the insulating sleeve can still move.

**STEP 5.**
Insulating sleeves are sealed with two o-rings, one Teflon (hard) (4) and one Aflas (soft) (5). Lubricate the o-rings with silicon o-ring lubricant. Install the Teflon o-ring into the “V” shaped o-ring gland and Aflas o-ring into the square o-ring gland in the journal flange (6). See Figure 1.

**STEP 6.**
Using gasket tack, place gasket (7) onto face of journal flange. Position the journal flange (6) to the journal while passing the end of the insulating sleeve (2) into the o-rings. Align the bolt holes in the journal flange with the tapped holes in the end of the journal. Secure journal flange with socket head cap screws (7). IMPORTANT: After the journal flange is in place, tighten the hex head cap screws (3) used in Step 4.

The installation of the insulating sleeve is complete. The rest of the equipment can be installed following the installation instructions for it. Please contact Kadant Johnson if you have any questions.
TROUBLESHOOTING

The insulating sleeve is sealed in two locations. There is a gasket sealing the insulating sleeve flange to the internal dryer head. O-ring(s) in the journal adapter flange seal the end of insulating sleeve on the outboard end of the journal. The internal air gap between the insulating sleeve and the dryer journal is vented to atmosphere by a vent hole machined in the journal adapter flange.

If the gaskets or o-ring(s) fail, steam will leak out the vent hole. To determine if the leak is from the steam sleeve or the rotary joint, inspect the leak area to determine if the leak rotates with the journal or is stationary. A leak from the journal end area that rotates with the journal is a leak from the vent hole. If the leak does not rotate with the journal, it is from the rotary joint or the piping.

It is difficult to determine if the leak is from the o-ring seal or the internal flange gasket without disassembling the equipment. The journal adapter flange can be removed and the o-ring(s) replaced without entering the dryer. We recommend replacing the o-ring(s) first, since it can be done in a much shorter time. The o-ring surface on the end of the insulating sleeve and the o-ring gland(s) in the journal adapter flange need to be in good condition to ensure that the o-ring(s) will seal.

If the leak continues after the o-ring replacement, the internal insulating sleeve flange gasket needs to be replaced. The gasket replacement requires entering the dryer and removing all the internal equipment to access the insulating sleeve flange. The gasket surface on the insulating sleeve flange and dryer head need to be cleaned and inspected. These surfaces need to be in good condition to ensure the gasket seals properly. After the o-ring and gasket surfaces have been inspected, reassemble the insulating sleeve equipment using a new o-ring(s) and a new insulating sleeve flange gasket.

![Figure 1.](image-url)