Disassembly and Repair of Type 9750 and 9800 PTX™ Pad Mounted Rotary Joint

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.

Allow equipment to cool and disconnect piping. Please consult Kadant Johnson if you have any questions.

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.

REMOVING THE END CAP ASSEMBLY (3, 3A, and 4) FOR REPAIR.

STEP 1.
Remove bolts (8), elbow (7), and gasket (9), if equipped. Remove nuts (1C) and head (1). Remove o-ring (26) and discard. Clean o-ring groove and gasket surface on the head. If equipped, clean gasket surfaces on the elbow. Replace elbow or head if o-ring groove or gasket surfaces are steam cut or otherwise damaged.

STEP 2.
Prevent the seal ring (6) from falling out of position during this step. Remove four socket head cap screws (3C) and remove end cap assembly (3, 3A, and 4) while holding on to the seal ring. The end cap assembly is now ready to be serviced. Please follow the instructions outlined in Repair Bulletin No. R-PTX End Cap Bench Repair.

INSTALLING THE END CAP ASSEMBLY.

STEP 3.
Inspect the wear plate (16) surface where the seal ring (6) rides. It should be smooth, not steam cut or scored. If required, replace wear plate using a new gasket (8A).

STEP 4.
Position a new seal ring (6) into the recess of the wear plate (16) and hold it in position.

STEP 5.
Slide end cap assembly (3, 3A, and 4) back into bracket (10) positioning it against the seal ring (6). Secure into position using four socket head caps screws (3C). Tighten the screws evenly.

NOTE: The end flange (3) will not rest against the bracket (10) until the socket head cap screws (3C) are tightened. As the caps screws are tightened the springs will compress, loading the seal ring (6). Double check the seal ring alignment. Check the “X” dimension. It should be 0.5” (13 mm) +/- 0.25” (6 mm). See Figure 1 on back page. Adjust bracket if the seal ring alignment or “X” dimension is not to specifications.

STEP 6.
Lubricate the o-ring (26) with silicon o-ring lubricant and position it into the o-ring groove in the head (1). Install the head, making sure the o-ring stays in position while sliding the head over the studs (1B). Secure with nuts (1C).

STEP 7.
Install elbow (7) and gasket (9) and secure with bolts (8), if equipped. Attach the flexible hoses and piping to the rotary joint. The rotary joint is now ready for service.

NOTE: If bracket (10) is moved out of position, review installation instructions to relocate the bracket.

Dimensions are for reference only and subject to change. Certified drawings are available on request. Please refer to Kadant Johnson Drawing Number A37640 for torque specifications.
DETERMINING SEAL RING WEAR ("X" DIMENSION)

9750 PTX “X” dimension will increase to 0.94” when seal ring requires replacement.

9800 PTX “X” dimension will increase to 1.0” when seal ring requires replacement.