Installation Instructions for Type 9800CF-PTX™ Rotary Joints

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

The 9800 PTX Joint is shipped partially assembled. Disassemble joint, inventory and stage parts prior to installation.

**STEP 1.**
Remove all existing equipment down to a bare journal. Clean all gasket surfaces. Chase and clean all threaded holes. If necessary, remove bearing cover. Note: Some installations may not require removing the bearing cover, please consult Kadant Johnson if you have any questions.

**STEP 2.** (See Figure 2)
The joints are supported by a ring bracket or a ring bracket and bearing cover supplied as individual parts.

1. **With ring bracket only.** Perform Step 3 first. Then install ring bracket (20). Secure into position using hex head cap screw (20C).

2. **With ring bracket and bearing cover supplied as individual parts.** Make sure the bearing cover is clean and free of debris. Apply sealer to the appropriate area of the machine’s bearing housing. Slide the bearing cover over the journal and secure into position with the proper size bolts. Then perform Step 3. Install ring bracket (20) onto bearing cover and secure into position using hex head cap screws (20C).

**STEP 3.**
If an insulating sleeve is required, install it during this step following the instructions that came with the insulation sleeve.

**STEP 4.** (See Figure 2)
Place gasket (8B) and journal flange (5) onto journal. Secure into position using socket head cap screws (5A). Tighten flange screws evenly in a star pattern. In some cases it is necessary to install a filler flange also. If required, do so in the above manner.

**STEP 5.** (See Figure 1)
Place gasket (8A) and wear plate (16) onto journal flange. Secure into position using socket head cap screws (16A). Tighten wear plate screws evenly in a star pattern using the proper torque.
**STEP 6.**
Clean the spherical face of the wear plate (16), the flat face of the nipple (4), and the mating surfaces of the seal ring (6). These sealing surfaces must be free of debris, oil or other contaminates. Place studs (1B) into the bracket (20) holes. Place seal ring (6) with its spherical face into the mating surface of the wear plate (16). While holding the seal ring in position, install the end cap/nipple assembly (3, 3A, & 4) onto the ring bracket (20) and secure into position with four socket head cap screws (3C). As the socket head cap screws are tightened, spring force will be applied to the seal ring and the X dimension will be created. The X dimension is 13mm ± 6mm. When used with CARB bearings, contact Kadant Johnson for the proper X dimension. Make sure seal ring (6) is centered on the nipple (4). Please consult Kadant Johnson if the X dimension is incorrect or if the seal ring is not centered properly.

**STEP 7.**
Place o-ring (26) into the groove of the body (1) and slight the body over the studs (1B) onto the end cap/nipple assembly (3, 3A, & 4). Secure body (1) into position with nuts (1C) and tighten nuts evenly in a star pattern using the proper torque.

**STEP 8.**
Place gasket (8) onto head (2). Install head onto body (1) and secure into position with head bolts (2A) and tighten to the proper torque. The Kadant Johnson rotary joint is now ready to accept piping.

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.

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 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.