

Installation Instructions for Anti-Rotation Rod

IS-Anti-Rotation Rod-3
Effective | October 2015
Replaces | IS-Anti-Rotation Rod-2

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.

The anti-rotation rod performs two functions: (1) To prevent the rotary joint from turning off the center of rotation due to torque. (2) To minimize stress on the flexible hoses due to rotary joint rotation.

A properly sized anti-rotation rod needs to be placed into the lug hole of the rotary joint (see Table 1). For rotary joints that operate above 200 psi (13 bar), a solid rod, rather than a pipe, should be used. Please refer to the rotary joint drawing for anti-rotation rod size requirements or contact Kadant Johnson.

The lug hole should be in good condition and not worn. If the lug hole is worn, the rotary joint body (or head) should be replaced. In some rotary joint models a repair kit is available from Kadant Johnson to repair a worn lug hole. **NOTE:** Kadant Johnson does not recommend the use of an all thread rod for an anti-rotation rod. All thread rods will act like a file and damage the lug hole.

The anti-rotation rod should be installed between two rotary joints (see Figure 1). If the anti-rotation rod is passed through three or more rotary joints, one of the rotary joints may leak because the anti-rotation rod will restrict the rotary joint's ability to move away from the machine to compensate for seal ring wear.

When attaching the anti-rotation rod to a single rotary joint, it must be fastened securely to the lug hole and allowed to float along a rigid frame so that it prevents rotation and allows the rotary joint to move away from the machine (see Figure 2). If the machine temporarily operates in reverse, mill a slot into the bracket to prevent rotary joint rotation during reverse operation (see Figure 3). The anti-rotation rod should be oriented to the right on rotary joints that turn clockwise and oriented to the left on rotary joints that turn counterclockwise.

After the anti-rotation rod is installed, secure it into position using cotter pins with a hole drilled through the rod towards the outside of each lug hole or use removable shaft collars.

Joint Size	Model Number	Schedule 80 Pipe Size	Rod Diameter
3/4"	2200	1/8"	10 mm
1"	2300	1/8"	10 mm
1-1/4"	2400	1/4"	12 mm
1-1/2"	2500	1/4"	12 mm
2"	2550	3/8"	17 mm
2-1/2"	2600	1/2"	20 mm
3"	2700 (Old Style)	1/2"	20 mm
3"	2700 (New Style)	3/4"	25 mm
3-1/2"	2750	3/4"	25 mm
4"	2800 (Old Style)	1"	33 mm
4"	2800 (New Style)	1-1/4"	43 mm
5"	2950 (Old Style)	1"	33 mm
5"	2950 (New Style)	1-1/2"	49 mm

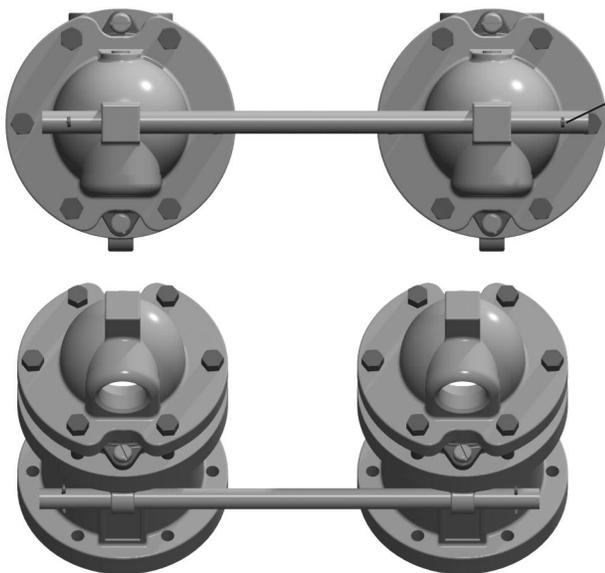


Figure 1

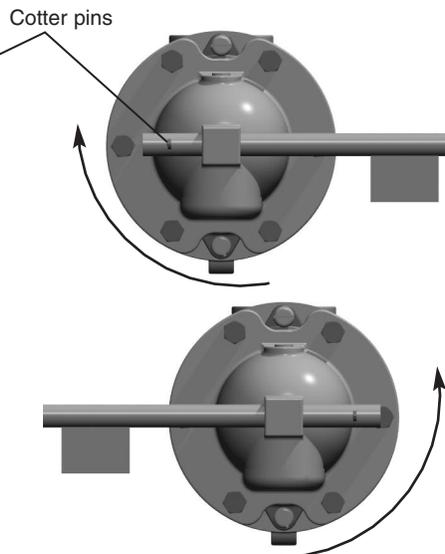


Figure 2

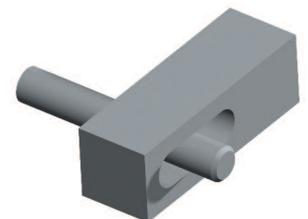


Figure 3

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.

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