PACKING RINGS

Installation, Operation & Maintenance Instructions

1. Description

5. Cut Rings

By carefully following these installation instructions, you defined be to packing rings using proper mandrel size or John Cr. maximum performance from your John Crane Packings. This World I remoute (preferred cut 45°). reliable performance and a long service life.

2. Prepare the Equipment

Guillotine Cutter

1)Shut off all valve lines leading to and from equipment, including pressurized flush if any. Bleed off equipment pressure. Butt cut

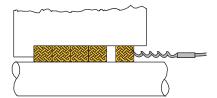


Do not use system pressure to blow out (remove) packing rings.



2)Remove all old packing rings and the lantern ring by using the proper size packing removal hook.

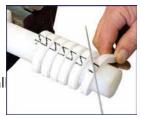




Diagonal cut



Draw two parallel lines on the packing, then individual



3)Check the shaft/sleeve for nicks and score marks; repair or replace as a 45° angle. necessary. Clean stuffing box bore if required.

6. Method of Installation

1. Begin by installing the first ring with ring joint at approximatel "1 o'clock position". Seat ring firmly against bottom of stuffing using a split bushing and gland follower.

3. Select the Correct Packing Cross Section

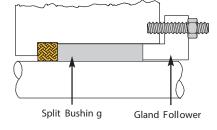
$$\frac{A-B}{2}$$
 = Cross section

A = Box diameter

lantern ring height.

B = Shaft/sleeve diameter





4. Determine the Required Amount of Rings

= # of rings (round to nearest whole number) Cross section



Split Bushing If lantern ring is used, subtract one (1) to two (2) rings depending on the



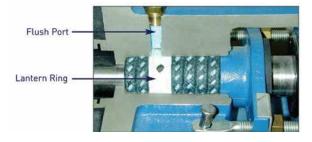
RITE PAK

PACKING RINGS

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2. Repeat procedure as previously described in number 1 above and install remaining pac/ rings. Ring joints should \(\) staggered 180° apart for a (2) ring set, 120° for a three $\overline{(3)}$ ring set, and 90° for a four (4) or more ring set.

3. If lantern ring is used, be sure it is properly aligned with ring port.



4. Seat final ring firmly with wrench. Loosen gland nu and finger tighten.

5. At minimum, gland follower lead-in should b approximately 1/8" to 3/ The remaining exposed portion of gland follower should at least equal the cross section of packing used, allowing for future gland adjustments.

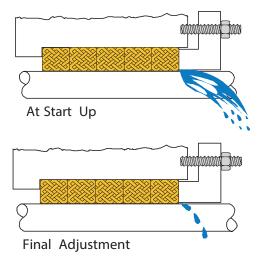




6. Rotate shaft by hand to ensure shaft is not binding.



7. Allow liberal leakage at start up. Slowly adjust leakage flow to ar acceptable level by tightening gland nuts slowly and evenly. Fin adjustments should be made by rotating gland nuts one (1) flat at a time.



- 8. Packing may run warm during break-in period, a day or two.
- 9. Do not adjust the packing unless necessary.
- 10If uncontrolled excessive leakage occurs or gland follower bottoms out, repack the pump.

















