



Industry Packing & Seal, Inc.

MECHANICAL PACKING and SEAL SPECIALIST

PACKING INSTALLATION INSTRUCTIONS

- 1: Remove all old packing. Examine the rings, this will indicate how the packing was installed. If the first rings are not compressed this indicates they were not seated in the bottom of the stuffing box properly.
Never just place a new ring of packing on top of old packing.
- 2: Clean stuffing box thoroughly of all debris, paint, rust etc.
- 3: Examine condition of Penstock and stuffing box for wear, erosion and eccentricity.
- 4: Install new packing ONE RING at a time!
- 5: Do not make the final cut on the packing until the packing is placed in to the stuffing box and the last 12 inches is left to install.
- 6: Cut packing with a skive cut so that the cut forms a (closed joint). It is not uncommon, to cut the packing 3-4" longer and work the packing in, so to eliminate any gaps in between the cuts.
- 7: Place FIRST RING and seat it all the way to bottom of the stuffing box. Checking to make sure the cut is completely closed at the same time.
- 8: Use the coupling to ensure an even distribution of pressure while seating the rings.
Taking measurements of the depth of the stuffing box before and after each ring is installed.
- 9: Install One Ring at a time. Never push packing with packing, seat each ring properly one at a time.
- 10: Place joints 90 degrees apart:
(Example: the number of rings up to 4 rings divided into 360).
Each ring is 90 degrees apart (12, 3, 6, 9 o'clock positions). Repeat this until the rest of the rings are installed.
- 11: In the case of deep stuffing boxes 5 rings or more and on a static joints. The first 2 to 3 rings should be seated one at a time as discussed, with the neck of the coupling, it should be in the stuffing box and tighten down until you feel a strong resistance tighten 2 or 3 turns more on the bolts.
- 12: Seat each remaining ring FIRMLY against the proceeding ring ONE at a time. Compress these rings as with the first rings.
- 13: The last ring when installed, replace coupling and tighten bolts they should be tightened until you can feel that the packing resisting. The neck of the coupling should be inside the stuffing box a minimum of 1/4". The Gland should be straight not cocked; it should be even all the way around.
- 14: When tighten the coupling use a star torqueing sequence. Final torque will depend on the condition of the Penstock many times starting torque is 60 foot pounds and ending torque is 100 foot pounds or more.
- 15: Make adjustments as necessary evenly all the way around.

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