



UET Mixers Inc.
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XCEL Series of Turbine Mixers

Bulletin 02-800
11/19/11
Supersedes 6/2/98

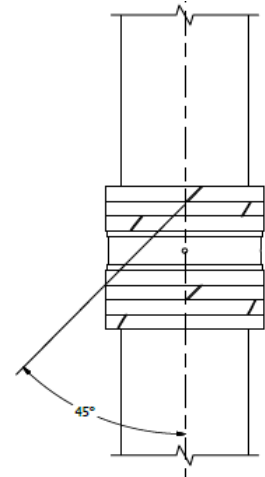
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Installation of Stuffing Box

****PLEASE READ BEFORE BEGINNING INSTALLATION!!**

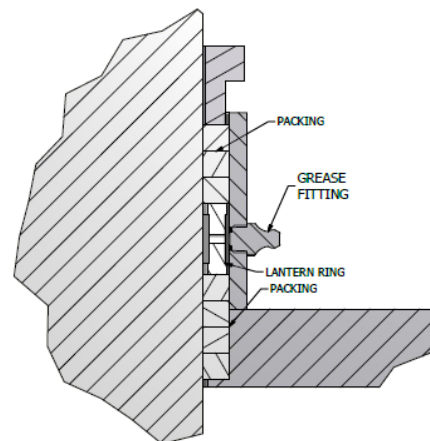
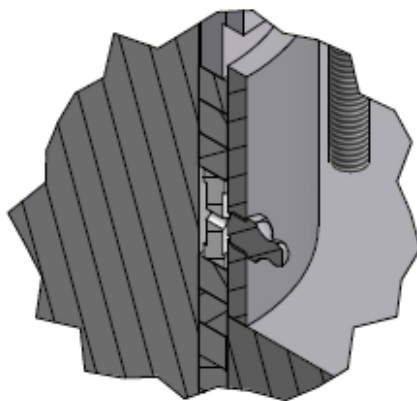
1. Instructions (see diagrams on page 2)

- A. Packing rings should be cut to fit circumference of shaft in consecutive rings. -DO NOT wind the packing around the shaft in lieu of rings. In applications where process is under low pressure conditions, rings may be cut with straight ends, but in high pressure or vacuum conditions, rings should be cut with 45 degree angle beveled ends. (see figure below). Each ring should fit snugly, with no gap between itself and shaft, but with ends butting. In special applications, UET will provide spacers to aid in packing.



- B. Each ring must be properly greased on top and bottom before insertion. Insert each ring individually, making sure to tamp ring in place to insure proper seating. On average, four rings are inserted below the lantern ring, **IMPORTANT:** Securely tamping each ring in place is a necessity so that the bottom rings do not loosen. Stagger end joints at 90 and 120 degrees. After installation of the recommended number of rings (alternate with spacers, if recommended), drop the lantern ring in place.

IMPORTANT: CHECK TO BE SURE THAT THE LOWER FLANGE OF THE LANTERN RING LIES JUST BELOW THE GREASE FITTING. FUTURE APPLICATIONS OF GREASE DEPEND ON PROPER SEATING OF THE LANTERN RING AND PACKING.





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- C. Tamp rings into place firmly and tighten follower gland onto rings without crushing packing. Three rings are the usual recommended number.
- D. Unplug the relief port and fill lantern ring with grease gun. Port is located on the stuffing box side opposite the grease fitting. A Teflon tape or similar sealant should be used to re-plug the port after filling.
- E. Additional grease should be applied before tightening the follower finger tight. After operating mixer for 5-10 minutes at atmospheric pressure, tighten follower bolts $\frac{1}{2}$ turn. **FOLLOWER MUST BE TIGHTENED GRADUALLY WITH HALF TURNS EVENLY DISTRIBUTED ABOUT THE STUFFING BOX SO RINGS WILL BE COMPRESSED EVENLY.**
- F. If required, gradually pressurize vessel while mixer is in operation to the optimum operating pressure, tightening follower bolts evenly $\frac{1}{2}$ turn as pressure is built up. Allow 5 minutes between turns. Sealing should take place in one or two or more full turns of the bolts, depending on hardness of packing.

2. Diagrams:

