



W. S. DARLEY & CO.

DARLEY INJECTION TYPE STUFFING BOX ADJUSTMENT AGE, YOKE STYLE

Only use Garlock style #926-AFP plastallic packing material. It is made of shredded composition lead foil, non-asbestos fibers, and a special bonding compound containing lubricant and graphite. W. S. Darley compresses this material into 5/8" dia. x 1" long pellets which are packed in a tube of 8 pellets. It is Darley part no. 3817104. (Note: For this style of injection packing, the packing pellets must be rolled between your fingers to make them fit the 1/2" diameter holes.)

It is important that the stuffing box is completely filled solid with packing and compressed firm during adjustment to prevent formation of voids and excessive leakage.

To pack the stuffing box when empty and assembled in the pump, remove the packing screw and yoke assembly. Insert pellet form packing into the packing plunger guide hole, and force into the packing chamber with a 7/16" diameter rod. Repeat this in the same packing plunger guide hole until packing starts coming out the packing plunger guide hole on the side opposite the hole the packing is being forced in through. Place enough packing in each plunger guide hole to fill it to the top of the hole. Replace the packing screw assembly and force the pellets into the gland by turning the two thumb knobs with equal force while turning the impeller shaft by hand until resistance to turning is felt when the stuffing box is almost full. Continue turning packing screws until a few flakes of packing are extruded out the opening between the impeller shaft and the stuffing box hole. The gland is now ready for pressure testing or pumping.

After priming the pump with water, start the pump and raise the discharge pressure to 50 psi. Tighten the packing screw while operating the pump at 50 psi for 5 minutes to dissipate packing pressure against the shaft and permit cooling water to flow between the shaft and stuffing box hole. Make sure that water actually does come through before operating pump at any higher pressure. The normal drip rate may vary between 5 and 60 drops per minute.

Operate the pump for 10 minutes at the highest normal operating pressure flowing sufficient water to prevent overheating. Do not run pump blocked tight. Lower discharge pressure to 50 psi. and repeat the packing screw tightening procedure outlined above.

The pump may now be operated for any time period required within its rated capacity. However, the drip rate should be monitored more frequently during the first few hours, and adjusted if necessary to achieve a stable flow rate. Several more adjustments may be required.

**IF FURTHER INFORMATION IS NEEDED, CALL W.S. DARLEY & CO.
AT CHIPPEWA FALLS, WI. AT 800-634-7812 or 715-726-2650**