

**PROCESS DEVELOPMENT & CONTROL LLC**

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**REPACKING PROCEDURES FOR COMBUSTION VALVE SERIES 22,  
2" THRU 14"**

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REPACKING PROCEDURE

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## ENGINEERING INSTRUCTION BULLETIN

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TITLE: REPACKING PROCEDURES FOR PDC COMBUSTION VALVES SERIES 22  
2" THRU 14" VALVE SIZE

- 10.15.1. REMOVE PACKING NUT (ITEM #6) USING A COUNTER-CLOCKWISE ROTATION (SEE NOTE 1, BELOW). SLIDE PACKING NUT BACK TO GIVE ADEQUATE CLEARANCE.
- 10.15.2. REMOVE ALL RINGS OF PACKING (ITEM #5) WITH FLEXIBLE PACKING PICK (SEE NOTE 1, BELOW).
- 10.15.3. THOROUGHLY CLEAN OUT PACKING GLAND HOLE AND REMOVE ALL RESIDUE.
- 10.15.4. REPACK VALVE WITH NEW PACKING (ITEM #5) BY STAGGERING ALL RING ENDS 90 DEGREES APART. PACKING MATERIAL SHOULD NOT EXTEND INTO THE THREADED PORTION OF THE STUFFING BOX, (SEE NOTE 2, BELOW).
- 10.15.5. REPLACE PACKING NUT (ITEM #6) BY HAND TIGHTENING (CLOCKWISE). ONCE THE PACKING NUT IS HAND TIGHT, USE THE PACKING WRENCH TO TIGHTEN PACKING NUT AN ADDITIONAL  $\frac{1}{2}$  TURN. THIS ADDITIONAL  $\frac{1}{2}$  TURN PAST HAND TIGHT, SEATS THE RINGS OF PACKING (SEE NOTE 3, BELOW). **CAUTION: DO NOT OVER TIGHTEN PACKING NUT.**

### NOTES:

1. A SPECIAL PDC REPACKING TOOL KIT CONSISTING OF A PACKING NUT WRENCH AND A FLEXIBLE PICK IS AVAILABLE FROM THE FACTORY. EMPLOYMENT OF THIS KIT WILL GREATLY FACILITATE THE REPACKING PROCEDURE AND ITS PURCHASE IS RECOMMENDED.
2. EACH REPACKING SET CONSISTS OF EXTRA RINGS OF PACKING. HOWEVER IN MOST CASES, (5) FIVE RINGS OF PACKING SHOULD BE SUFFICIENT. (DO NOT USE MORE RINGS THAN WERE REMOVED).
3. IT MAY BE NECESSARY TO READJUST THE PACKING NUT WHEN THE SYSTEM IS STARTED UP. IF IT IS NECESSARY TO ADJUST THE PACKING NUT, TIGHTEN  $\frac{1}{4}$  TURN. OPERATE FOR 15 MINUTES. IF LEAKAGE PERSISTS AFTER 15 MINUTES CONTINUE TO TIGHTEN  $\frac{1}{4}$  TURN AND OPERATE FOR 15 MINUTES. (REPEAT THIS PROCESS UNTIL LEAKAGE STOPS). **CAUTION: DO NOT OVER TIGHTEN PACKING NUT.**

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