

PROCESS DEVELOPMENT & CONTROL LLC

1075 MONTOUR WEST INDUSTRIAL PARK
CORAOPOLIS, PENNSYLVANIA 15108
PHONE (724) 695-3440 ♦ FAX (724) 695-8635

**ADJUSTMENT & MAINTENANCE NOTES FOR PACKING GLANDS WITH
OPTIONAL "LIVE LOADED" BELLEVILLE SPRING STUFFING BOXES. ALL SIZES.**

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ENGINEERING INSTRUCTION BULLETIN

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TITLE: ADJUSTMENT & MAINTENANCE NOTES FOR PACKING GLANDS WITH **OPTIONAL** "LIVE LOADED" BELLEVILLE SPRING STUFFING BOXES. ALL VALVE SIZES

- 10.25.1 PACKING GLANDS LEAVE THE FACTORY SET TO MAINTAIN PROPER GLAND SEALING AND CORRECT SHAFT TORQUE FOR OPERATION, BUT MAY REQUIRE SOME ADJUSTING AFTER PIPE LINE PRESSURE IS UP TO NORMAL (SEE NOTE 1, BELOW). IF POSSIBLE, STROKE THE VALVE A COUPLE OF TIMES BEFORE FINAL SETTING OF PACKING GLAND NUTS.
- 10.25.2 WHEN NECESSARY, VALVE REPACKING PROCEDURES SHOULD BE OBTAINED AND FOLLOWED PER MANUFACTURERS RECOMMENDATIONS. **ONCE YOU ENSURE THAT PRESSURE HAS BEEN REMOVED FROM THE VALVE PIPELINE**, REMOVE THE PACKING GLAND NUTS AND RAISE THE PACKING GLAND TUBE AND FOLLOWER FOR ACCESS TO PACKING RINGS. BE SURE TO COLLECT PACKING NUTS, FOLLOWER PIECES AND ALL BELLEVILLE SPRING WASHERS FOR REINSTALLATION THE SAME WAY AS REMOVED.
- 10.25.3 THOROUGHLY CLEAN OUT PACKING GLAND HOLE AND REMOVE ALL RESIDUES.
- 10.25.4 REPACK VALVE PER VALVE MANUFACTURERS REPACKING PROCEDURE. REMEMBER PACKING RINGS WITH END CUTS MUST BE STAGGERED 90 DEGREES APART AND ANY STACKING ORDER MUST BE FOLLOWED FOR PROPER PACKING PERFORMANCE. IT MAY BE ADVANTAGEOUS TO TAMP EACH RING OR LAST FEW WITH THE FOLLOWER TUBE TO OPTIMIZE PROPER SEATING POSITION. (SEE NOTE 2, BELOW).
- 10.25.5 RESEAT THE PACKING FOLLOWER TUBE AND REPLACE THE PLATE, SPRING WASHERS (STACK WASHERS SO THAT EACH WASHER OPPOSES THE OTHER) AND NUTS. USE **ALL PARTS** AND INSTALL EXACTLY AS CONFIGURED BEFORE REMOVAL. IF PARTS ARE LOST, OBTAIN EXACT COMPONENTS FROM MANUFACTURER. HAND-TIGHTEN EVENLY EACH STACK UNTIL YOU CANNOT USE YOUR HAND ANYMORE TO SEAT THE PACKING. (SEE NOTE 1, BELOW). **CAUTION: DO NOT OVER-TIGHTEN PACKING GLAND STACK.**

NOTES:

1. IT MAY BE NECESSARY TO READJUST THE PACKING COMPRESSIVE LOAD WHEN THE SYSTEM IS STARTED UP. IF IT IS NECESSARY TO ADJUST THE LOADING, TIGHTEN EACH NUT 1 TO 2 FULL TURNS ON EACH STACK EVENLY WITH WRENCH. OPERATE FOR 15 MINUTES. IF LEAKAGE PERSISTS AFTER 15 MINUTES CONTINUE TO TIGHTEN 1 TO 2 TURNS AND OPERATE FOR 15 MINUTES. (REPEAT THIS PROCESS UNTIL LEAKAGE STOPS). **CAUTION:** SPRING SET STACKS CAN BE TIGHTENED TO BE COMPLETELY COMPRESSED, BUT OVER-TIGHTENING MAY CAUSE THE SHAFT TO BE PROHIBITED FROM TURNING WHEN ACTUATED. **MINIMUM TIGHTENING SHOULD BE USED** TO OBTAIN SEALING OF THE GLAND, BUT PERMIT PROPER SHAFT TURNING TORQUE.
2. MOST REPACKING SETS CONSISTS OF (5) FIVE RINGS (SOME 1 OR 2 MORE); SOME SETS ARE ALL THE SAME TYPE OF RING MATERIAL AND SOME HAVE (2) TWO END RINGS AND (3) THREE OR MORE MIDDLE RINGS. DO NOT USE MORE RINGS THAN WERE ORIGINALLY FACTORY SUPPLIED.

