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**REPACKING PROCEDURE FOR PDC BUTTERFLY VALVES WITH
TEFLON V-RING PACKING**

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ENGINEERING INSTRUCTION BULLETIN

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TITLE: REPACKING PROCEDURE FOR PDC BUTTERFLY VALVES WITH TEFLON V-RING PACKING

- 10.9.1 REMOVE PACKING NUT (ITEM 8) USING A COUNTER-CLOCKWISE ROTATION (SEE NOTE 1, BELOW). SLIDE PACKING NUT BACK TO GIVE ADEQUATE CLEARANCE.
- 10.9.2 REMOVE ALL RINGS OF PACKING (ITEMS 5, 6, & 7) WITH FLEXIBLE PACKING PICK (SEE NOTE 1 BELOW).
- 10.9.3 THOROUGHLY CLEAN OUT PACKING GLAND HOLE AND REMOVE ALL RESIDUE.
- 10.9.4 REPACK VALVE WITH NEW PACKING SET.
- INSERT THE MALE ADAPTER PACKING RING FIRST, WITH THE FLAT SIDE OF THE RING FACING THE PIPE LINE.
 - INSET THE VEE-RING PACKING RINGS SECOND, WITH THE OPEN SIDE OF THE RING FACING THE PIPE LINE
 - INSERT THE FEMALE ADAPTER LAST, WITH THE OPEN SIDE OF THE PACKING RING FACING THE PIPE LINE.
- 10.9.5 REPLACE PACKING NUT (ITEM 8) BY HAND TIGHTENING (CLOCKWISE). ONCE THE PACKING NUT IS HAND TIGHT, USE THE PACKING NUT WRENCH TO TIGHTEN PACKING NUT AN ADDITIONAL ½ TURN. THIS ADDITIONAL ½ TURN PAST HAND TIGHT SEATS THE RINGS OF PACKING (SEE NOTE 2 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. 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 ¼ TURN. OPERATE FOR 15 MINUTES. IF LEAKAGE PERSISTS AFTER 15 MINUTES CONTINUE TO TIGHTEN ¼ TURN AND OPERATE FOR 15 MINUTES (REPEAT THIS PROCESS UNTIL LEAKAGE STOPS). **CAUTION: DO NOT OVER TIGHTEN PACKING NUT.**
3. **SPECIAL CONDITION:** IN A VACUUM SERVICE (NEGATIVE PIPELINE PRESSURE TO ATMOSPHERE) THE PACKING STACKING ORDER SHALL BE REVERSED.

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1. VALVE BODY
2. DISC
3. SHAFT
4. INBOARD BUSHING
5. MALE ADAPTER (1 REQUIRED)
6. V-RING
 - Ø.50 SHAFT (3 REQUIRED)
 - Ø.75 SHAFT (4 REQUIRED)
 - Ø1.00 SHAFT (6 REQUIRED)
7. FEMALE ADAPTER (1 REQUIRED)
8. PACKING NUT
9. PIN

