

INSTALLATION INSTRUCTIONS FLEX-A-SEAL CARTRIDGE SEALS

PREPARATION:

- (1) DISASSEMBLE THE PUMP AS FAR AS NECESSARY SO THAT THE STUFFING BOX, GLAND, SEAL, AND OR PACKING CAN BE REMOVED.
- (2) WIPE THE SHAFT OR SLEEVE CLEAN AND CHECK DIAMETER TO BE SURE IT IS WITHIN TOLERANCE (USUALLY $\pm \frac{.000}{.002}$) THE SURFACE FINISH SHOULD BE 63 RMS MAX.
- (3) BE SURE THAT IF A SHAFT SLEEVE IS USED, IT IS GASKETED AND LEAK TIGHT.
- (4) TO AVOID DAMAGE TO THE CARTRIDGE SLEEVE PACKING, THE PUMP SLEEVE ENDS OR SHAFT SHOULDER MUST HAVE AT LEAST A 1/32 CHAMFER OR BREAK. ALL SHARP EDGES AND BURRS MUST BE REMOVED.
- (5) CHECK SHAFT END PLAY (USUALLY NOT TO EXCEED .005), AND SHAFT RUNOUT (USUALLY NOT TO EXCEED .002 TIR) WHICH MUST BE WITHIN PUMP MANUFACTURER'S LIMITS.
- (6) CAREFULLY CLEAN AND INSPECT BORE AND STUFFING BOX FACE, CHECK BORE DIMENSIONALLY AND MAKE SURE STUFFING BOX FACE IS SMOOTH AND FLAT TO GIVE A GOOD SEALING SURFACE FOR THE GLAND GASKET.
- (7) VERIFY STUFFING BOX FACE PERPENDICULARITY TO THE SHAFT OR SLEEVE.
- (8) THE CARTRIDGE SEAL ASSEMBLIES ARE SUPPLIED WITH A ROTARY SEAL RING ASSEMBLY, STATIONARY SEAT AND GLAND, MOUNTED ON A SLEEVE AND USING CLIPS FOR CENTERING AND AXIAL SETTING OF THE COMPONENTS. IF THE CARTRIDGE SEAL ASSEMBLY IS DISASSEMBLED FOR ANY REASON, BE SURE THE SEAL FACES ARE CLEAN AND FREE OF DUST WHEN REASSEMBLED. ANY SCRATCHES OR NICKS ON THE SEAL FACES MAY CAUSE LEAKAGE.

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