

1101

SINGLE CARTRIDGE SEAL

INSTALLATION INSTRUCTIONS

PREPARE PUMP

1. Clean and inspect pump parts.
2. Replace shaft or shaft sleeve if worn in secondary sealing areas under o-rings.
3. Check for good starting bevel and remove all burrs that would cut secondary seal o-rings or cause misalignment.
4. Check shaft run out (to be within .001" TIR per inch of shaft dia.), shaft end play (not to exceed .005"), stuffing box face alignment (must be square to shaft within .003" TIR and have good sealing surface, 125 RMS min.), and condition of the pump bearings. Replace if necessary.

INSTALLING SEAL

1. Lubricate shaft or sleeve.
2. Insert seal into stuffing box with barrier fluid ports facing desired location.
IMPORTANT: Push on the **seal collar only**, not the gland, so that the setting buttons are bottomed out.
3. Loosely thread gland bolts into back plate. **IMPORTANT:** Do not tighten gland bolts now.
NOTE: For larger pumps with heavy back plates, install the seal on the shaft or sleeve, then slip on the back plate and loosely thread the gland bolts.
4. Install and bolt back plate to pump frame.
5. Install and tighten impeller.
6. Make all necessary impeller adjustments as required. The impeller can be reset at anytime, as long as the setting buttons are in place and the seal set screws are loosened while the shaft is being moved.
7. Tighten the gland bolts evenly.
8. Tighten the set screws in the collar.
9. There are no setting clips or spacers to remove. The seal has self-centering, pre-set buttons.
10. Turn shaft by hand to make sure there is no rubbing between rotating and stationary parts.
11. Make all necessary pump connections and alignments.
12. Clean out flush lines and hook up appropriate tangential flush port depending on shaft rotation. Plug other flush port. (Connect flush in the direction of shaft rotation. If the shaft rotation is clockwise, then connect flush line to the port marked with clockwise arrow).
13. Run pump according to normal start up and operating procedures.

