

7000G

GAS LIFT-OFF SEAL

Dwg. I-4770-A

Date: 09/24/19

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 bearings. Replace if necessary.

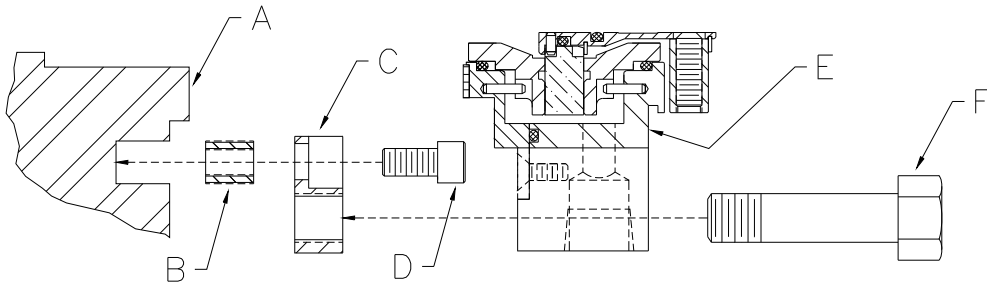
INSTALLING SEAL

1. Lubricate shaft or sleeve. Minimize usage to what is necessary for installation. Excess lubrication may propagate into and damage seal while seal is unpressurized.
2. Insert seal into stuffing box with barrier fluid ports facing desired location.
3. Loosely thread gland bolts into back plate. **IMPORTANT:** Do not tighten gland bolts at this time. Also, do not remove any setting clips at this time.
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 any time, as long as the setting clips are in place and the seal set screws are loosened while the shaft is being moved.
7. Tighten gland bolts evenly.
8. Tighten set screws in collar.
9. Remove setting clips and cap screws.
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 purge barrier gas system.
13. Connect PPC Gas Control Unit to seal gland. Adjust the pressure to the recommended pressure. **Note:** When adjusting pressure, always adjust up to desired setting. If adjusting from higher to lower pressure, allow pressure to fall below desired setting and then adjust up to final setting. Maintain barrier gas pressure at all times, even when pump is not running. If PPC gas control unit is not used, individual components can be used. Gas control system should include shut-off valve, regulator, and pressure gauge, flow indicator and filter. (See diagram on next page)
14. Run pump according to normal start up and operating procedures.

15. **This step is only for those requiring an adapter kit. A kit will be used only when the bolt circle is too small. Adapter kit 1 for 0.500”-13 NC studs. Adapter kit 2 for 0.375”-NC studs. Adapter kit 3 for 0.625”-11 NC studs.**

- I) Remove existing studs from stuffing box.
- II) Screw threaded insert (B) supplied into stuffing box stud holes (A). Set adapter (C) in place using cap head screws (D) provided.
- III) Make sure to check alignment of adapters before bolting gland (E) to insure proper installation. The .375”-16 NC bolt (F) is not included.

WHEN USING THE ADAPTER KIT
DO NOT OVER TORQUE GLAND BOLTS TO ADAPTER
(MAXIMUM OF 20 Ft. Lbs.)



PRESSURE CONTROL UNIT ASSEMBLY FOR AIR OR GAS

