

INSTALLATION INSTRUCTIONS
7000 GAS BARRIER SEAL

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

IMPORTANT: Do not put oil or any other foreign material into seal.

1. Insert seal into stuffing box with gas port facing desired location.
2. Loosely thread gland bolts into back plate. **IMPORTANT:** Do not tighten gland bolts at this time.
3. Lubricate shaft or sleeve.
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 moved.
7. Tighten gland bolts evenly.
8. Push by hand on the drive collar of the seal, not the gland, so that the setting clips are bottomed out.
9. Tighten set screws in drive collar.
10. Remove setting clips and cap screws.
11. Turn shaft by hand to make sure there is no rubbing between rotating and stationary parts.
12. Make all necessary pump connections and alignments.
13. Purge barrier gas system.
14. Connect PPC Gas Control Unit to seal gland. Adjust pressure to 20-30 PSI above stuffing box 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. During normal operation, flow indicator will not register any flow unless seal has failed. If PPC gas control unit is not used, individual components can be used. Gas control system should include shut-off valve, regulator, pressure gauge, flow indicator and filter. (see diagram below)
15. Run pump according to normal operating procedures.

TYPICAL ARRANGEMENT

