

## Pressurseal® Models

- All iron or cast 316 stainless steel construction
- Cast iron bearing frame
- Hydraulic models have SAE 22-4 splined pump and motor shaft with coupling
- Double mechanical seal  
Viton - Ceramic - Stainless Steel  
Severe duty available
- **Pump may be run dry without affecting seal**
- *For most efficient output, pump should operate at approximately 3600 RPM*
- Pump and expansion tank are factory assembled and ready for installation
- Seal chamber, hose and expansion tank system are filled with 50%/50% glycol/water solution and pressurized air at Scot factory
- Expansion tank body is made of clear Lucite and allows complete visibility of Pressurseal® fluid level
- Includes ½" liquid fill plug, air valve and pressure gauge
- Expansion tank has mounting holes in each flange and includes 6-ft reinforced flexible hose for remote installation

The Pressurseal® pump kit will give trouble-free performance day in and day out; no matter what fluid you are pumping. This workhorse is designed for the toughest jobs, and all you have to do is follow the simple operating instructions and watch it work.

Mount Pressurseal® tank so that it is *higher than the highest part of the pump itself*. If the chamber is below the pump, liquid may siphon back into the pressure chamber.

Mount the pump so that vibration is minimal. The pump is designed to withstand abuse, but like any precision machine, the less the abuse, the longer its life.

There are two things to watch while the pump is working, (1) the pressure gauge and (2) the liquid level. To understand why, here is a short explanation of how this superior pump works:

The liquid (ethylene glycol or standard good grade antifreeze) in the seal chamber and Pressurseal® tank (which you can see rising to a height of about five inches above the bottom of the Lucite tube) is under pressure. This liquid must always be at higher pressure than the liquid being pumped. It is this liquid (under pressure) in the seal chamber that is lubricating the face of the pump seal.

The presence of liquid lubricating the pump seal in the seal chamber is the reason you can run the pump dry; it is always lubricated from within by the pressurized liquid.

The pump will be delivered filled and pressurized with the gauge reading between 100 and 125 PSI. It is important that you *check the pressure gauge at regular intervals* to be sure the pressure does not fall below 100 PSI. Optimum working pressure is 125 PSI.

It is also important to *check the level of fluid*. The liquid will not extrude through the seals very quickly. Only a molecule thickness of liquid is required to lubricate the seal. Rapid loss of fluid should never occur. If it does, it may indicate a broken seal or loose-fitting seal chamber. When the liquid level decreases to two inches above the bottom of the Lucite tube, it is time to refill.

*When a refill is necessary follow these steps:*

Depressurize pressure chamber by releasing air from the air valve on the top of the Pressurseal® tank. Remove ½" fill plug at top of the seal tank and fill with 50% water. Liquid level should be about five inches above the Lucite tube (to fill line). Replace the fill plug and repressurize slowly.

If you follow these instructions, the pump will give you the long service life and high performance you expect.