

RICE HYDRO, INC.  
MANUFACTURER'S OPERATING INSTRUCTIONS  
ST-312, SHORE - THING

**FOR WARRANTY REGISTRATION CALL: 1-800-245-4777**

**REMEMBER THESE CAUTIONS**

1. Check all fluid levels prior to operating pump.
2. Use a sound 3/8" or larger outlet hose rated for at least 2000 psi.
3. DO NOT run dry or pump chlorine thru unit, if water or chlorinated water has been ran thru the unit, you must immediately flush system with anti-freeze to neutralize chlorine and prevent rust or corrosion damage.
4. Protect the pump from freezing, FLUSH with anti-freeze.

**BEFORE USING ST-312:**

1. Check oil level in engine, use 10W30. Unleaded gasoline.
2. Visually inspect components and all aspects of unit; loose fittings, hoses for rips or tears, gauge set on zero, and overall operating condition.

**OPERATING THE PUMP:**

1. Fill the tank with fluid (designed for use with biodegradable anti-freeze).
2. Connect the high pressure outlet hose provided, to the outlet port on unit located down line from pressure gauge.
3. Connect hose to shoring ram or device.
4. Start the engine.
5. Turn off the **Bleed** ballvalve that is located to the right of the gauge, closing the system from running in bypass, allowing pressure to build.
6. Control handle with black knob on valve; push handle forward to engage valve and pressure will begin to build. Handle will lock forward and continue to build pressure up to around 600 PSI. This is a valve with a detent-pin, after 600 PSI you will need to manually hold the handle forward allowing pressure to continue to build. This is a built in safety feature, to prevent damage from over pressurizing, or personal injury. Valve is set to a maximum of 1200 PSI, at which time the unit will kick into bypass and fluid will be recirculated back to reservoir tank.
7. Once desired pressure is met, pull control handle back into neutral position, there is an inline one-way checkvalve to prevent pressure from bleeding off or back into the unit. Close or disconnect hose from shoring device. At this time open bleedvalve and relieve fluid in hose still under pressure back into reservoir tank.
8. Repeat steps as necessary; remember when shutting down the unit or when moving hose between devices to open bleedvalve and relieve pressure from hose. Not doing so will stop you from being able to get the hose quick release to actually disconnect.

**RECOMMENDED PERIODIC MAINTENANCE PROCEDURE**

Change engine oil after the first 5 hours of operation thereafter every 80 hours of use or every season.