

RICE HYDRO, INC.
MANUFACTURER'S OPERATING INSTRUCTIONS
DE & RP SERIES MODEL TEST PUMPS

FOR WARRANTY REGISTRATION CALL 800-245-4777.

CONNECTING THE PUMP:

1. Check oil level in engine, use 10W30. Unleaded gasoline.
2. Check oil level in the gear reduction, use (90W). Oil should be level with side drain plug.
3. Connect pressurized water source to the inlet of the pump. *It is recommended that the unit be pressure fed.* For suction or gravity feed locate water within 8 feet, you may need to prime the pump.
4. Connect the supplied high-pressure outlet hose to the pump and your test environment.

OPERATING THE PUMP:

1. Turn the outlet ballvalve to the open position, and start the engine. The engine RPM is preset at the factory, **DO NOT ADJUST.**
2. The pressure regulator has been preset for 300 PSI. ***To change this setting you must make this adjustment while the water is flowing freely, under no pressure.*** To adjust pressure, first loosen the locknut. Turn the T-handle clockwise to increase and counter-clockwise to decrease the pressure. Open and close ballvalve to check pressure setting and re-adjust as necessary. It is also recommended that you open and close the hosebib located under the gauge to bleed excess air from piping and ensure accurate pressure readings. Upon reaching desired pressure setting, tighten locknut.
3. With the ballvalve open begin building pressure in test environment. Bleeding air from hosebib under gauge at least once during this process. Once test pressure has been reached, **shut off engine and close ballvalve.** An inline checkvalve prevents water pressure from bleeding back into the pump.
4. Once the outlet ballvalve is closed and your test begins, you have now isolated the test pump from your test environment, any loss of pressure is due to leaks or trapped air in the line.

REMEMBER THESE CAUTIONS:

1. Check all fluid levels prior to operating pump.
2. Use a sound 3/4" or larger supply hose.
3. DO NOT run dry or pump chlorine through the unit.
4. Protect the pump from freezing, FLUSH with anti-freeze.

RECOMMENDED PERIODIC MAINTENANCE PROCEDURE

1. Change engine oil after the first 5 hours of operation thereafter every 25 hours of use or every season.
2. Change the gear oil after every 100 hours of use or every season.
3. **PISTON PUMPS ONLY** - Lubricate cam bearing with grease (wheel bearing grease) every 100 hours of operation or monthly. Use hand operated grease gun to prevent damage to the bearing seal. Grease fitting assembly is located behind the safety cover on the pump.