RICE HYDRO, INC.

MANUFACTURER'S OPERATING INSTRUCTIONS

TR-SERIES MODEL TEST PUMPS

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

REMEMBER THESE CAUTIONS:

1. **Electric Models** - Power source must meet voltage, phase, hertz and amperage requirements of electric motor, as stated on label. If an extension cord is used, requires at least 12 gauge 3 wire with maximum of 25 foot length.
2. Check all fluid levels prior to operating pump.
3. Use a sound 3/4" or larger supply hose.
4. DO NOT run dry or pump chlorine through the unit.
5. Protect the pump from freezing, FLUSH with anti-freeze.

CONNECTING THE PUMP:

1. Check oil level of engine as well as the oil level of pump thru sight glass, use 10W30 non-detergent as needed. **Electric Models** - With motor switch in the off position, connect power cord of motor to a standard wall outlet. Extension cord: when needed, requires a 12 gauge 3 wire, maximum 25 foot length plugged into a 20 or larger amp breaker, depending on individual motor requirements.
2. Connect **CLEAN** pressurized water source (minimum 3/4") to the inlet of the pump. It is recommended that the unit be pressure fed. For gravity feed locate water within 8 feet and above level of unit, and then prime the pump.
3. Connect high pressure outlet hose to the pump and your test environment.

OPERATING THE PUMP:

1. Turn the outlet ballvalve to the open position, begin water flow and start the engine. The engine RPM is preset at the factory, **DO NOT ADJUST!**
2. The pressure regulator has been preset at the factory. ***To change this setting you must make this adjustment while the water is flowing freely, and under NO pressure.*** To adjust the pressure, first loosen the locknut. Turn the T-handle/Knob clockwise to increase and counter-clockwise to decrease the pressure. Place a ballvalve or similar open and close valve at the end of the outlet hose, open and close this valve multiple times as needed, 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 gauge readings. Upon reaching desired pressure setting, tighten locknut and prepare to begin test.
3. With the ballvalve open begin building pressure in the test environment. Be sure to bleed the air from hosebib under gauge at least once during this process. Once test pressure has been reached, **close the ballvalve and shut-off engine.**
4. Once the outlet ballvalve is closed and your test begins, you have now isolated the test pump from the test environment, any loss of pressure is due to leaks or trapped air being compressed in the test environment.

RECOMMENDED PERIODIC MAINTENANCE PROCEDURE

1. Plunger pump - Change oil in the pump body after first 50 hours of use, and every 250 hours thereafter. Change oil in the engine after first 5 hours of use, and every 80 hours thereafter.