

# ultimate washer

## MANUFACTURER'S OPERATING INSTRUCTIONS EL-SERIES MODEL TEST PUMPS

### CONNECTING THE PUMP:

1. Connect power cord on motor to standard wall outlet, with the switch in the off position. Extension cord: when needed, a 12 gauge 3 wire, **max 25 foot length**, plugged into a 20amp breaker is required.
2. Connect **CLEAN** pressurized water source 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 ball valve to the open position, start the motor.
2. The pressure regulator has been preset at factory. **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/knob** clockwise to increase and counter-clockwise to decrease the pressure. Place a ball valve or similar open and close valve at the end of the outlet hose, open and close ball valve to check pressure setting and re-adjust as necessary. It is also recommended that you open and close the RICE bleed valve to remove excess air from piping and ensure accurate pressure readings. Once desired setting is reached, **IT IS VERY IMPORTANT THAT YOU RE-TIGHTEN THE LOCK/JAM NUT**, do not leave adjustment handle free to move or vibrate out of setting. If unloader valve handle does fall out see attached diagram to replace parts correctly. **CAUTION: IT IS VERY COMMON TO REPLACE POPPET/BUTTON BACKWARDS, THE LONGER LEG WITH STEEL BALL FACES AWAY FROM THE SPRING.** With the ball valve open begin building pressure in test environment. Bleed air thru RICE bleed valve at least once during this process. Once test pressure has been reached, **shut off motor and close ball valve.**
3. Once the outlet ball valve 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. Power source must be 115V, and extension cord at least 12 gauge.
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. **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. Plunger pumps use non-detergent 30wt oil.