



RICE HYDRO, INC.

**MANUFACTURER'S OPERATING INSTRUCTIONS**

**HP-Series PNEUMATIC HYDROSTATIC TEST PUMPS**

**FOR WARRANTY REGISTRATION CONTACT DISCOUNT-EQUIPMENT**

**NOTE:**

Prior to testing any high pressure line, please check all connections, hoses and fittings to assure that they are properly tightened and in good working order. No frays, tears, or cuts. REQUIRED: Air compressor capable of 100 PSI, up to 75 CFM.

**CONNECTING THE PUMP:**

1. Connect the high pressure hose provided, and an inlet water supply hose, unit must be fed with a pressurized water source. Position the Test Pump within 8 feet of test environment.
2. Connect the air line from the compressor to the inlet fitting on the combination regulator/air filter.

**NOTE: AIR FILTER SHOULD BE DRAINED OF ANY WATER OR DIRT PARTICLES BEFORE, AND AFTER USE. Drain valve is located on the bottom of the filter body.**

3. Check the in-line strainer for dirt and debris. Clean as necessary.


**OPERATING THE PUMP:**

1. Turn on the water.
2. Open the bleeder valve on the test line to bleed off excess air. NOTE: this should be done several times during test cycle.
3. Start the compressor.
4. Once the compressor has reached operating pressure, open the outlet valve on the air compressor slowly, which will allow the air to flow to Test Pump.  
NOTE: this outlet valve, or "shut-off valve" may come standard on your compressor, however if it does not, a shut-off valve should be installed on your compressor for convenience & safety to the operator, prior to the testing process.
5. Set the inlet air pressure to 100 PSI. This will give maximum operating output pressure. To do this, adjust the air regulator, (a black knob located on the top of the inlet air filter assembly on the test pump). Pull up on the black knob and turn clockwise to increase pressure, or counter-clockwise to decrease pressure. Once the inlet air pressure is set, push down on the knob to lock it in place.
6. Start turning regulator clockwise, pressure will begin building as soon as air flows. When desired test pressure has been met, close the outlet Needlevalve to isolate test environment. To turn off pump while testing, turn regulator counter clockwise and decrease or stop air flow, or disconnect air compressor supply. If a pressure drop is indicated, check the following:
  - a. Output hose connection at pump.
  - b. Output hose connection at test line.
  - c. Leaking test line or air in the test environment.

If the pressure gauge remains constant, turn off compressor and monitor gauge for your prescribed test time. When test is complete, turn off water supply, open the high pressure bleeder valve located beside the outlet port connection on the unit. Bleed off the water pressure. Repeat the above steps for multiple lines. Be sure the air pressure gauge reads zero before disconnecting the air line from the pump.

**TEMPERATURE CAPABILITES - Air inlet side of pump can handle temperatures up to 140 degrees; hydraulic side of pump can handle up to 180 degrees.**

**CAUTION: Do not allow unit to sit with hydraulic side at or above 140 degrees for a length of time that would drive air side above the 140 degrees maximum.**

 **WARNING:** Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, operate and service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

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