



The Right Connection®

Portable Hydrostatic Pneumatic Test Pump

Procedure Manual



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Dixon Portable Pneumatic Hydrostatic Test Pump (PTP)

Specifications

- Haskel model 4B-14-D3 Air over hydraulic pump
- pump made of aluminum with hard coated aluminum plunger
- 1500 PSI output pressure at 100 PSI inlet air pressure
- 5.5 GPM fill rate (at 60 PSI inlet water pressure)
- Air Chief ¼" Industrial Series plug quick connect air connection
- quick connect garden hose coupler for water supply line
- ½" x 15' intermediate hose with brass Straight-Thru quick couplers both ends
- ½" brass Straight-Thru plug on pressure outlet
- 0 – 2000 PSI center mount liquid filled pressure gauge
- Test caps, test plugs and pressure relief valves are available; consult your current Dixon Price List (DPL) for part numbers and pricing.

Recommendations

- Use a Coalescing Filter. Oil or air tool lubricant will damage the seals of the pump *very quickly*. The coalescing filter, installed in front of the supplied modular air filter / regulator, will prevent oils from entering the air dome of the pump. Coalescing filters are available from Dixon Valve & Coupling Company. Consult your current Dixon Price List (DPL) for part numbers and pricing.
- Use a 5 to 10 micron Water Filter. Particulate matter, present in all water supplies, will damage the check valves and hydraulic seals *very quickly*. These filters (cartridge type) can be purchased from W.W. Grainger or from other plumbing supply centers.

Safety Precautions

- When used indoors, the pressure relief valve on the pump must be connected to a drain or water collection tank.
- This pump is designed to test of rubber hose. Dixon does not recommend the use of this pump for any other application.
- Adequate steps should be taken to protect property and personnel in the event of a failure during a test. These steps should include, but are not limited to the following:
 1. Only trained personnel should conduct hydrostatic testing.
 2. Use of safety glasses or shields for personnel conducting test and witnessing test.
 3. All personnel should be perpendicular to the test sample and at least 15 feet away.
 4. Place test sample in a protective enclosure.
 5. Restrain both ends of the test sample to prevent hose from whipping in case of a failure.
 6. If testing is done outside of a protective enclosure, restrict the movement of the couplings by the use of sandbags or other means.
 7. Use only water as a test fluid.
- All incidental connections, intermediate hose and piping should be rated at 2000 PSI minimum.
- Before removing or adjusting any part of the pumping system or test sample, the following precautions should be exercised:
 1. Shut off pump air supply.
 2. Shut off pump water supply.
 3. Release pressure inside the test sample.