1450

Pressure Testing Pump

OPERATOR'S MANUAL

- Pour français voire page 7
- Para ver el castellano vea la paginá 13

⚠ WARNING!

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in extensive property damage and/or serious personal injury.

RIDGID®

Table of Contents

RIDGID

1450
Pressure Testing Pump

1450 Pressure Testing Pump	
Record Serial Number below and retain product serial number which is located on nameplate.	
Serial No.	

General Safety Information

WARNING! Read and understand all instructions. Know the location and functions of all controls before using pump. Learn the applications and limitations of all controls before using pump. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SAVE THESE INSTRUCTIONS!

Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Keep bystanders, children, and visitors away while operating the pump.** Distractions can cause you to lose control.
- **Keep floors dry and free of slippery materials.** Such preventative measures reduce the risk of injury.

Personal Safety

- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- **Do not over-reach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

Tool Use and Care

- **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- **Store idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.
- **Keep handles dry and clean; free from oil and grease.** Allows for better control of the tool.

Specific Safety Information

The Operator's Manual contains specific safety information and instructions for your protection against serious injuries including:

- Eye injuries - being blinded by fluid.

Read and follow safety labels on machine!
Know the location and functions of all controls before using this tool.

Tool Safety

1. **Do not pressurize pump above the rated system pressure.** Do not operate above 725 psi (50 bar) and 120℉ (50℃).
2. Pressurize only recommended fluids.
3. Never attempt to grasp a leaky hose under pressure with your hands. The force of the escaping fluid could cause injury.
4. A leaking hose should be replaced and never repaired.
5. Check for damaged parts before using the pump. DO NOT use if the hose or any other part is damaged or broken.
6. Learn the applications and limitations as well as the specific potential hazards associated with this pump. As this pump was designed for specific applications, we strongly recommend that it NOT be modified and/or used for any application other than for which it was intended.
7. When servicing, use only identical replacement parts. Have damaged parts repaired or replaced by an authorized service center.

SAVE THESE INSTRUCTIONS!

Description, Technical Information, Standard Equipment and Accessories

Description

The RIDGID Model 1450 pressure testing pump is designed to pressure test all types of fluid systems for leaks including heating, compressed air, oil, fire sprinkler, and small bore pipeline systems. The Model 1450 uses a variable lever-arm design and automatic pressure holding valves to enable the user to easily pressurize the system.

NOTE! Test pressures can be achieved very easily with the Model 1450. Use caution when pressurizing the system by watching the pump's pressure gauge closely. Pressurizing systems above the pump's rated pressure of 50 Bar/725 psi can cause damage to the pump's components.

Specifications

Type: .....Ridgid No. 1450

L/W/H .....28/8.5/9.5 inches

Weight .....14 lbs.

Max. Pressure .....50 Bar/725 psi

Piston Vol .....2.3 in^3

Outlet Hose
Connection .....$^1/_2$″ BSPP or $^1/_2$″ NPT

Reservoir Capacity .....3.6 gallons

Liquid .....Water
Oil
Ethylene Glycol

Max. Temp. .....120℉ (50℃)

Operating the 1450 Pressure Testing Pump

1. Completely fill piping system with liquid.
2. Ensure pump has sufficient liquid in reservoir to cover inlet suction hose. *(Figure 1)*
3. Close pressure relief valve. *(Figure 2)*

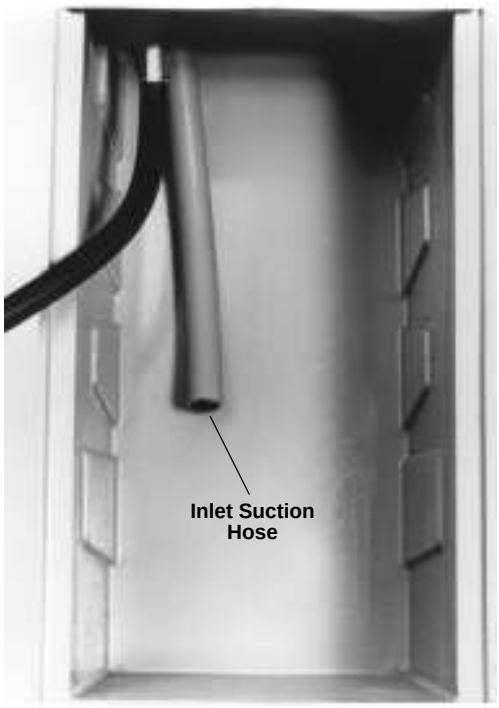

Figure 1

Figure 2

4. Connect outlet hose to piping system.

5. Remove locking pin from handle to permit pumping. *(Figure 3)*

Figure 3

6. Pump liquid into system until desired pressure is reached. Allow unit to stabilize for 15-30 seconds. Pump additional liquid into system until desired pressure is reached.

NOTE! Maximum rated pressure for the Model 1450 is 50 Bar/725 psi. The Model 1450 was designed with a unique feature to prevent damage to expensive components in the event of over-pressurizing. The nylon tube under the cover plate serves as a pressure release and will typically be the first component to fail if overpressurized. *(Figure 7)*

7. If system has no leaks the pressure (shown on gauge) will not drop during test period.
8. Pressure is released by opening the pressure relief valve.

Hints for Operation

1. Use long pump handle strokes for high volume, low pressure pumping. *(Figure 4)*

Figure 4

2. Use short pump handle strokes for low volume, high pressure pumping. *(Figure 5)*

Figure 5

Maintenance

Ensure reservoir and pump system is always kept clean. The inlet hose is supplied with a filter to prevent dirt from entering the pump. If filter becomes clogged, filter can easily be removed from hose and flushed clean with water. *(Figure 6)*

Figure 6

Valving System

Figure 7 details the components of the Model 1450 Test Pump.

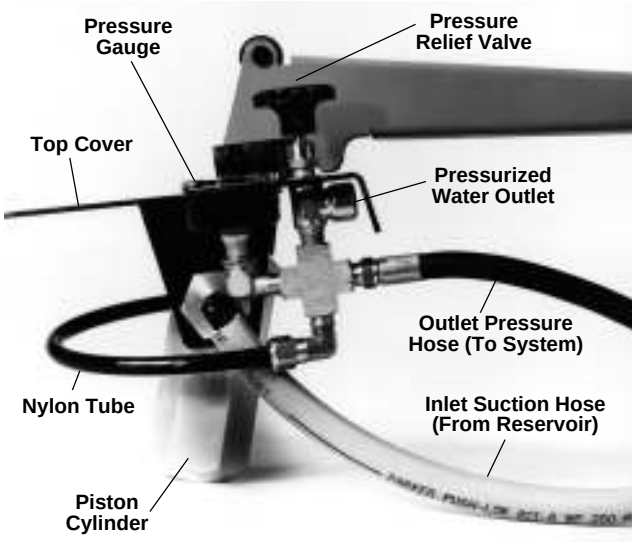

Figure 7