

Rothenberger 60250

Rothenberger TP 25 Manual Pressure Test Pump User Manual

Model: 60250



1. INTRODUCTION

This manual provides instructions for the safe and effective operation, setup, maintenance, and troubleshooting of the Rothenberger TP 25 Manual Pressure Test Pump. The TP 25 is designed for quick compression testing and leak testing of smaller pipe systems and containers in plumbing and heating installations. It is capable of performing accurate pressure tests up to 25 bar (360 PSI).

The pump features a corrosion-resistant steel tank with DURAMANT coating for enhanced durability. Its efficient power pump provides controlled pressure buildup with a 16 ml/stroke capacity, ensuring consistent test results. High-quality precision valves are integrated to maintain stable pressure without fluctuations, contributing to dependable testing accuracy.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury and damage to the equipment:

- Read and understand all instructions before operating the pump.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the system being tested is depressurized before connecting or disconnecting the pump.
- Do not exceed the maximum operating pressure of 25 bar (360 PSI).
- Use only clean water or approved test fluids. Do not use corrosive or flammable liquids.
- Inspect the pump, hose, and connections for damage before each use. Do not use damaged equipment.
- Keep children and unauthorized personnel away from the work area.
- Secure all connections tightly to prevent leaks during testing.

3. PRODUCT COMPONENTS

The Rothenberger TP 25 Manual Pressure Test Pump consists of the following main components:

- **Pump Body:** The main unit housing the tank and pumping mechanism.
- **Operating Lever:** Used to manually build pressure within the system.
- **Pressure Gauge:** Displays the current pressure in bar and PSI.
- **Hose Connection:** Point for attaching the test hose to the pump.
- **Test Hose:** Connects the pump to the system under test.
- **Valves:** Control the flow of fluid and pressure release.
- **Water Tank:** 7-liter capacity reservoir for test fluid.



Figure 1: Overall view of the Rothenberger TP 25 Manual Pressure Test Pump, showing the red tank, grey pump mechanism, black operating handle, and connected test hose.



Figure 2: Close-up view of the pump's control panel, highlighting the pressure gauge and adjustment knobs.



Figure 3: Detailed view of the test hose connector, showing its threaded design for secure attachment.

4. SETUP

- 1. Unpack and Inspect:** Carefully remove the pump from its packaging. Inspect all components for any signs of damage. Do not proceed if any part is damaged.
- 2. Position the Pump:** Place the pump on a stable, level surface near the system to be tested.
- 3. Fill the Tank:** Open the tank lid and fill the 7-liter reservoir with the appropriate test fluid (e.g., clean water, glycol solution). Ensure the fluid level is sufficient for the test.
- 4. Connect the Test Hose:** Securely attach one end of the test hose to the pump's hose connection. Connect the other end of the test hose to the system or pipe network that requires pressure testing. Ensure all connections are tight to prevent leaks.
- 5. Purge Air (Optional but Recommended):** If testing a water system, it is advisable to purge air from the system by allowing water to flow through until no air bubbles are visible before sealing the system for pressure testing.

5. OPERATING INSTRUCTIONS

Follow these steps to perform a pressure test:

1. **Ensure System Readiness:** Verify that the system to be tested is properly sealed and ready for pressure application.
2. **Open Pump Valve:** Ensure the valve on the pump that connects to the test hose is open.
3. **Build Pressure:** Operate the pump lever by moving it up and down. This action will draw fluid from the tank and push it into the connected system, gradually building pressure.
4. **Monitor Pressure:** Continuously observe the pressure gauge. Pump until the desired test pressure (up to a maximum of 25 bar / 360 PSI) is reached.
5. **Isolate Pressure:** Once the target pressure is achieved, close the valve on the pump to isolate the system and maintain the pressure.
6. **Observe for Leaks:** Allow the system to remain under pressure for a specified period (e.g., 30 minutes, 1 hour, or as required by local codes). Monitor the pressure gauge for any drop in pressure, which indicates a leak. Visually inspect all connections and components of the system for signs of fluid leakage.
7. **Release Pressure:** After the test is complete, slowly open the pressure release valve on the pump to gradually reduce the pressure in the system.
8. **Disconnect:** Once the pressure has returned to zero, disconnect the test hose from the system and the pump.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Rothenberger TP 25 pump:

- **Drain After Use:** Always drain any remaining test fluid from the tank after each use.
- **Clean the Pump:** Clean the pump body and hose with a damp cloth. Avoid using harsh chemicals that could damage the DURAMANT coating or other components.
- **Inspect Hose and Connections:** Regularly check the test hose for cracks, kinks, or wear. Ensure all connectors are clean and free of debris.
- **Lubrication:** Periodically check moving parts for smooth operation. Consult a qualified technician for any lubrication requirements.
- **Storage:** Store the pump in a clean, dry place, away from extreme temperatures and direct sunlight.
- **Gauge Calibration:** If you suspect the pressure gauge is inaccurate, have it calibrated by a certified professional.

7. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
No pressure buildup	Low fluid level in tank Valves not closed properly Air in the system Loose connections Pump malfunction	Refill tank Ensure all valves are closed Purge air from the system Tighten all connections Contact customer support

Problem	Possible Cause	Solution
Pressure drops quickly	Leak in the system being tested Leak in pump connections or hose Faulty pump valve	Inspect system for leaks and repair Check and tighten pump/hose connections; replace hose if damaged Contact customer support
Inaccurate gauge reading	Gauge requires calibration Damaged gauge	Have gauge calibrated by a professional Replace the pressure gauge

8. SPECIFICATIONS

- **Brand:** Rothenberger
- **Model Number:** 60250
- **Material:** Alloy Steel
- **Color:** Black/Silver/Red
- **Product Dimensions:** 15.35" L x 6.69" W (39 cm Length)
- **Item Weight:** 0.6 Kilograms (1.32 pounds)
- **Maximum Pressure:** 25 Bars (360 PSI)
- **Tank Capacity:** 7 Liters
- **Power Pump Capacity:** 16 ml/stroke

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Rothenberger website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.