VEVOR B072MZFC5Q

VEVOR Hydraulic Pressure Test Pump Instruction Manual

Model: B072MZFC5Q
Brand: VEVOR

1. Product Overview

The VEVOR Hydraulic Pressure Test Pump is a self-contained, portable, manual pump designed for accurate and safe pressure testing of pipelines, pressure containers, irrigation systems, and firemen's equipment. It features a robust steel container and a double valve system for precise measurements.

- **Testing and Pressure Range:** 0-50 bar (0-726 PSI)
- **Connecting Inch:** R 1/2" BSP
- **Container Volume:** 12 L (3.2 Gallon)
- **Material:** Firm steel container with low temperature resistance.
- **Valve System:** Double valve system for accurate and safe measurements.
- **Portability:** Self-contained, portable, low volume, manual operation.

Figure 1.1: Front view of the VEVOR Hydraulic Pressure Test Pump, showing the pump handle, pressure gauge, and red steel tank.

2. Safety Instructions

Read and understand all safety warnings and instructions before operating this product. Failure to follow these instructions may result in property damage or personal injury.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all connections are secure and leak-free before applying pressure.
- Do not exceed the maximum rated pressure of the pump (50 bar / 726 PSI) or the system being tested.
- Use only clean water or approved testing fluid in the pump's tank.
- Keep hands and clothing clear of moving parts during operation.
- Release pressure slowly and carefully after testing.
- Store the pump in a clean, dry place away from extreme temperatures.
- **WARNING:** This product can expose you to chemicals including Pb (Lead), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

3. Components List

Familiarize yourself with the main components of your hydraulic pressure test pump:

1. **Pump Handle:** Used to manually generate pressure. Features an anti-skid rubber handle.
2. **Pressure Gauge:** Displays the current pressure in bar and PSI.
3. **Steel Tank:** 12L (3.2 Gallon) capacity for holding testing fluid. Constructed from firm steel for durability and low temperature resistance.
4. **High-Pressure Hose:** Connects the pump to the system under test.
5. **Inlet Valve (V1):** Controls the flow of fluid from the tank into the pump cylinder.
6. **Outlet Valve (V2):** Controls the flow of pressurized fluid to the system and releases pressure.
7. **Connecting Nipple:** R 1/2" BSP thread for connecting the high-pressure hose.

Figure 3.1: Side view of the pump, highlighting the handle, gauge, and valves.

Figure 3.2: Detail of the two copper valves (Inlet and Outlet) for precise control.

Figure 3.3: View into the 12L steel tank, showing the heavy wall construction and fluid intake.

4. Setup Instructions

Before operating the pump, ensure proper setup:

1. **Placement:** Place the pump on a stable, level surface.
2. **Fill Tank:** Fill the 12L steel tank with clean water or the appropriate testing fluid. Ensure the fluid level is sufficient for the test.
3. **Connect Hose:** Connect one end of the high-pressure hose to the pump's outlet (usually marked V2 or similar). Ensure a tight, leak-free connection.
4. **Connect to System:** Connect the other end of the high-pressure hose to the system or pipeline you intend to test. Use appropriate adapters if necessary. Ensure all connections in the system under test are secure.
5. **Open Valves:** Ensure both the inlet valve (V1) and outlet valve (V2) on the pump are in the open position (typically counter-clockwise).

Figure 4.1: Detail showing the high-pressure hose connected to the pump's outlet.

5. Operating Instructions

Follow these steps to perform a pressure test:

1. **Prime the Pump:** With both valves (V1 and V2) open, slowly operate the pump handle a few times to draw fluid from the tank and expel any air from the pump and hose. You should see fluid flowing into the system being tested.
2. **Close Outlet Valve:** Once the system is filled with fluid and air is purged, close the outlet valve (V2) by turning it clockwise.
3. **Build Pressure:** Begin operating the pump handle steadily. Observe the pressure gauge as the pressure in the system increases. Pump until the desired test pressure is reached.
4. **Monitor Pressure:** Once the desired pressure is achieved, stop pumping. Close the inlet valve (V1) by turning it clockwise to isolate the pump from the system. Monitor the pressure gauge for any drops, which may indicate a leak in the system.
5. **Release Pressure:** After the test is complete, slowly open the outlet valve (V2) by turning it counter-clockwise to release the pressure from the system.

6. **Drain System:** Disconnect the hose from the system and drain any remaining fluid.

Figure 5.1: Detail of the pressure gauge, showing readings in MPa, PSI, and Bar.

6. Maintenance

Proper maintenance ensures the longevity and reliable operation of your pump:

- **Cleaning:** After each use, drain all fluid from the tank and pump. Rinse with clean water to remove any residue.
- **Lubrication:** Periodically lubricate moving parts, such as the pump piston and handle pivot points, with a suitable lubricant.
- **Inspection:** Regularly inspect the high-pressure hose for cracks, wear, or damage. Check all connections for tightness.
- **Storage:** Store the pump in a dry, protected environment. Ensure the tank is empty and clean before storage.
- **Seal Replacement:** If the pump fails to build pressure or leaks are observed from the pump mechanism, the internal seals may need replacement. Consult a qualified technician or VEVOR support.

7. Troubleshooting

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not build pressure.	Valves (V1 or V2) are open. Air in the system/pump. Worn or damaged seals. Insufficient fluid in tank.	Ensure both valves are closed when building pressure. Prime the pump thoroughly to remove air. Inspect and replace seals if necessary. Refill the tank with testing fluid.
Fluid leaks from connections.	Loose connections. Damaged hose or fittings.	Tighten all connections. Inspect hose and fittings; replace if damaged.
Pressure drops quickly after pumping stops.	Leak in the system being tested. Leak in the pump or hose. Inlet valve (V1) not fully closed.	Inspect the system for leaks. Check pump and hose connections/seals. Ensure V1 is fully closed after reaching desired pressure.

8. Specifications

Key technical specifications for the VEVOR Hydraulic Pressure Test Pump:

Feature	Detail
Brand	VEVOR
Model	B072MZFC5Q
Material	Stainless Steel (Pump components), Steel (Tank)
Item Dimensions (L x W x H)	20 x 7.5 x 12 inches
Item Weight	16 Pounds
Thread Type	BSP (R 1/2")
Pressure Range	0-50 bar / 0-726 PSI
Container Volume	12 L / 3.2 Gallon

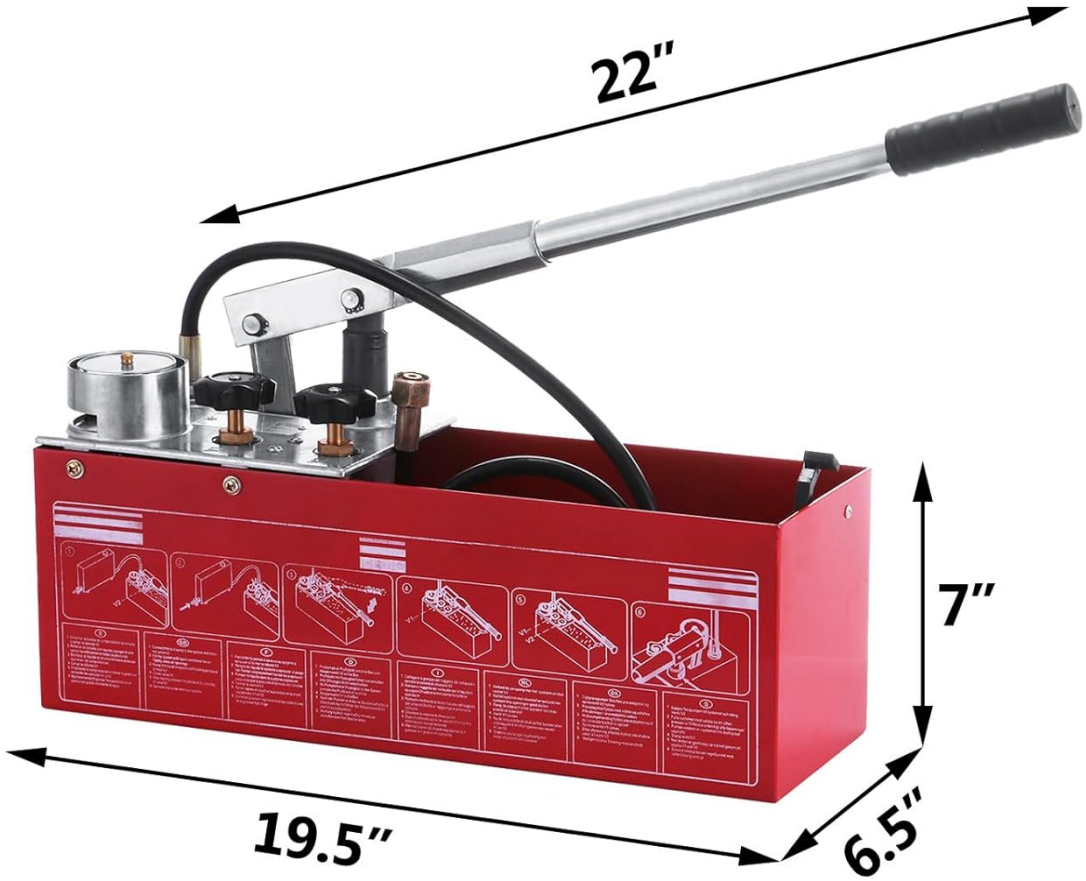

Figure 8.1: Dimensional drawing of the pump, showing overall length, width, and height.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact VEVOR customer service. Refer to your purchase documentation for specific warranty terms and contact details.
You can typically find support information on the official VEVOR website or through your retailer.