Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

VEVOR NAP002

VEVOR Air Hydraulic Foot Pump User Manual

Model: NAP002

1. Introduction and Safety Information

This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your VEVOR Air Hydraulic Foot Pump. Please read and understand all instructions and safety warnings before using the product.

General Safety Warnings

- Always read, understand, and follow all safety precautions and operating instructions before using this pump.
- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Do not operate the pump if any connections are loose or if the internal relief valve has been tampered with. Excessive hydraulic pressure can cause personal injury.
- Do not exceed the rated operating pressure of 10,000 PSI.
- Always use hydraulic fluid that is specifically rated for the system. Do not use brake fluid or any other fluid.
- Before breaking any connections in the system, always relieve pressure by depressing the foot pedal.
- Before removing the pump from service, always relieve pressure.
- Shut off and disconnect the air supply before performing any maintenance or adjustments on the pump.



Figure 1: VEVOR Air Hydraulic Foot Pump with visible safety warning label. This label highlights critical safety instructions for operation and maintenance.

2. Package Contents

Carefully unpack all items and ensure all components are present and undamaged. If any items are missing or damaged, contact VEVOR customer support.

- 1 x Air Hydraulic Pump
- 1 x 2-meter (6.6 ft) Oil Hose
- 1 x Hydraulic Coupler
- 1 x Air Inlet Adapter
- 1 x Air Nozzle
- 1 x PTFE Tape
- 1 x User Manual (this document)



Figure 2: The VEVOR Air Hydraulic Foot Pump shown with its complete set of accessories, including the oil hose, hydraulic coupler, air inlet adapter, air nozzle, and PTFE tape.

3. Product Overview

The VEVOR Air Hydraulic Foot Pump is designed for single-acting ram applications in industrial and construction environments. It features a robust construction and a foot-actuated design for efficient operation.

Key Features:

- **Extended Oil Hose:** Equipped with a 2-meter (6.6 ft) oil hose for flexible and safer operation at a distance.
- **Secure Positioning:** Features bottom fixing screw holes to minimize movement and vibration during use, ensuring a stable and quieter working environment.
- **Pre-filled Hydraulic Oil:** The pump comes pre-filled with hydraulic oil, making it ready for immediate use upon unboxing.
- **Durable Construction:** Built with an aviation-grade aluminum pump core and a high-quality metal shell for resilience in demanding industrial applications. Includes an internal relief valve for component protection.

- **Versatile Application:** Suitable for various hydraulic tools such as rams, presses, and pullers, operating up to 10,000 PSI.



Figure 3: Overview of the VEVOR Air Hydraulic Foot Pump, highlighting the air inlet (1/4" NPT) and oil outlet (3/8" NPT). The image also illustrates common applications such as automobile repair, oil drilling platforms, frame machines, and hydraulic presses.



Figure 4: The pump features a 2-meter (6.6 ft) long oil pipe, enabling operation from a safer distance and providing greater flexibility.



Figure 5: The pump's oil tank has a capacity of 98 cubic inches (1.6 liters) and comes pre-filled with hydraulic oil for immediate use.



Figure 6: Detailed view of the pump's robust construction, including the aviation aluminum pump core, high-quality metal shell, and oil leakage prevention device, designed for industrial environments.

4. Setup

Follow these steps to set up your VEVOR Air Hydraulic Foot Pump for operation.

1. **Secure Placement:** Place the pump on a stable, level surface. Utilize the two bottom fixing screw holes to secure the pump, if desired, to minimize movement during operation.
2. **Connect Hydraulic Hose:** Connect the 2-meter oil hose to the oil outlet (NPT 3/8") of the pump. Ensure the connection is tight and secure, using PTFE tape if necessary to prevent leaks.
3. **Connect to Hydraulic Tool:** Attach the other end of the hydraulic hose, via the hydraulic coupler, to your single-acting hydraulic ram, press, or puller. Verify all hydraulic connections are secure.
4. **Connect Air Supply:** Connect your air compressor hose to the air inlet (NPT 1/4") of the pump using the provided air inlet adapter and air nozzle. Ensure the air pressure is within the specified range of 110 psi - 145 psi.
5. **Initial Check:** Before operation, double-check all connections for tightness and ensure there are no visible leaks.

Confirm that the air supply is off.



Figure 7: The bottom of the pump features fixing screw holes, allowing it to be securely mounted to a workbench or other stable surface for enhanced stability and reduced vibration during use.



Figure 8: The VEVOR Air Hydraulic Foot Pump set up in a workshop environment, demonstrating the connection of the hydraulic hose for operation.

5. Operating Instructions

Operate the VEVOR Air Hydraulic Foot Pump safely and efficiently by following these instructions.

1. **Engage Air Supply:** Turn on the air compressor and ensure the air supply to the pump is active.
2. **Apply Pressure:** To extend the hydraulic ram, gently step on the foot pedal. The pump will begin to build hydraulic pressure, extending the ram.
3. **Maintain Pressure:** Keep the foot pedal depressed to maintain pressure. Monitor the hydraulic tool and the task being performed.
4. **Release Pressure:** To retract the hydraulic ram and release pressure, lift your foot from the pedal. The pedal will rebound, and the internal relief valve will allow the hydraulic fluid to return to the reservoir.
5. **Complete Operation:** Once the task is complete, ensure all pressure is released from the system.
6. **Disconnect Air Supply:** Turn off and disconnect the air supply from the pump.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your VEVOR Air Hydraulic Foot Pump.

- **Fluid Level Check:** Periodically check the hydraulic fluid level. If replenishment is needed, use only hydraulic fluid specifically rated for this type of pump. Do not use brake fluid or other non-compatible fluids.
- **Cleanliness:** Keep the pump clean and free from dirt, dust, and debris. Wipe down the exterior with a clean, dry cloth.
- **Hose and Connection Inspection:** Regularly inspect the hydraulic hose and all connections for signs of wear, damage, or leaks. Replace any damaged components immediately.
- **Air Filter:** If your air supply system includes a filter, ensure it is clean and functioning correctly to prevent contaminants from entering the pump.
- **Storage:** When not in use, store the pump in a clean, dry environment, protected from extreme temperatures and direct sunlight. Ensure all pressure is released before storage.

7. Troubleshooting

This section addresses common issues you might encounter with your VEVOR Air Hydraulic Foot Pump.

Problem	Possible Cause	Solution
Pump does not build pressure.	Low air pressure; Air leak in connections; Low hydraulic fluid level; Internal pump issue.	Check air compressor pressure (110-145 psi); Inspect all air and hydraulic connections for leaks and tighten; Check hydraulic fluid level and refill if necessary; Contact VEVOR support if internal issue is suspected.
Hydraulic ram extends slowly or weakly.	Insufficient air pressure; Partial blockage in hydraulic line; Low hydraulic fluid.	Increase air pressure to recommended range; Inspect hydraulic hose for kinks or damage; Check and top up hydraulic fluid.
Hydraulic fluid leaks.	Loose connections; Damaged seals or hose.	Tighten all hydraulic connections, use PTFE tape if needed; Inspect hose and seals for damage and replace if necessary.
Foot pedal does not return to original position.	Obstruction; Spring mechanism issue.	Check for any physical obstructions preventing pedal return; Contact VEVOR support if spring mechanism is faulty.

8. Specifications

Detailed technical specifications for the VEVOR Air Hydraulic Foot Pump.

Feature	Specification
Model Number	NAP002
Maximum Output Pressure	10,000 psi (700 bar)

Feature	Specification
Input Air Pressure Range	110 psi - 145 psi
Air Inlet	NPT 1/4" (6.35 mm)
Oil Outlet	NPT 3/8" (0.95 cm)
Oil Tank Capacity	1.6 L (98 in^3)
Hydraulic Pump Flow (no load)	0.8 L/min
Hydraulic Pump Flow (load)	0.16 L/min
Product Dimensions (L x W x H)	262 x 136 x 186 mm (10.3 x 5.4 x 7.3 inches)
Product Weight	8.9 kg (19.6 lbs)
Material	Aluminum (pump core), High-quality Metal (shell)
Power Type	Air Powered

9. Warranty and Support

For warranty information and technical support, please refer to the official VEVOR website or contact their customer service directly.

Support and E-Warranty Certificate: https://www.vevor.com/support

© 2023 VEVOR. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0BYNZV54Z

More documents and user manuals: **https://manuals.plus/**