VEVOR YOILP-HG0012A

VEVOR Rotary Hand Crank Barrel Pump User Manual

Model: YOILP-HG0012A

1. Introduction

This manual provides essential information for the safe and efficient operation of your VEVOR Rotary Hand Crank Barrel Pump, Model YOILP-HG0012A. This pump is designed for the rapid conveyance of various liquids from 5 to 55-gallon barrels. Please read this manual thoroughly before assembly, operation, or maintenance to ensure proper use and to prevent damage or injury.

1.1 Package Contents

- 1 x Barrel Pump
- 1 x Hose
- 1 x Clamp
- 1 x PTFE Tape

2. Safety Information

Always observe the following safety precautions to reduce the risk of injury or damage to the pump.

- Read and understand all instructions before operating the pump.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, when handling liquids.
- Ensure the barrel is stable and securely positioned before beginning liquid transfer.
- Do not use this pump with highly flammable liquids such as diesel, kerosene, engine oil, or petrol. This pump is intended for water, alcohol, antifreeze, DEF, and certain corrosive liquids.
- Do not exceed the pump's maximum flow rate or pressure.
- Keep children and unauthorized personnel away from the operating area.
- Inspect the pump and all accessories for damage before each use. Do not operate if any components are damaged.
- Ensure proper ventilation when transferring liquids, especially those with fumes.

3. Product Components

The VEVOR Rotary Hand Crank Barrel Pump consists of several key components designed for efficient liquid transfer.



Figure 3.1: Full view of the VEVOR Rotary Hand Crank Barrel Pump. This image displays the complete pump assembly, including the main pump body, hand crank, and suction tube.



Figure 3.2: Material composition of key pump components. The pump body, handle, and suction tube are constructed from high-strength PP Plastic, ensuring durability and resistance to impact.

Key Parts:

- **Pump Body:** The central mechanism housing the rotary components.
- **Hand Crank:** Ergonomically designed for manual rotation to operate the pump.
- **Suction Tube:** A three-piece assembly that extends into the barrel to draw liquid.
- **Outlet Spout:** Where the transferred liquid exits the pump.
- **Hose:** Connects to the outlet spout for directing liquid flow.
- **Clamp:** Secures the hose to the outlet spout.
- **PTFE Tape:** Used for sealing threaded connections to prevent leaks.

4. Setup

Follow these steps to assemble and prepare your barrel pump for use.

4.1 Suction Tube Assembly

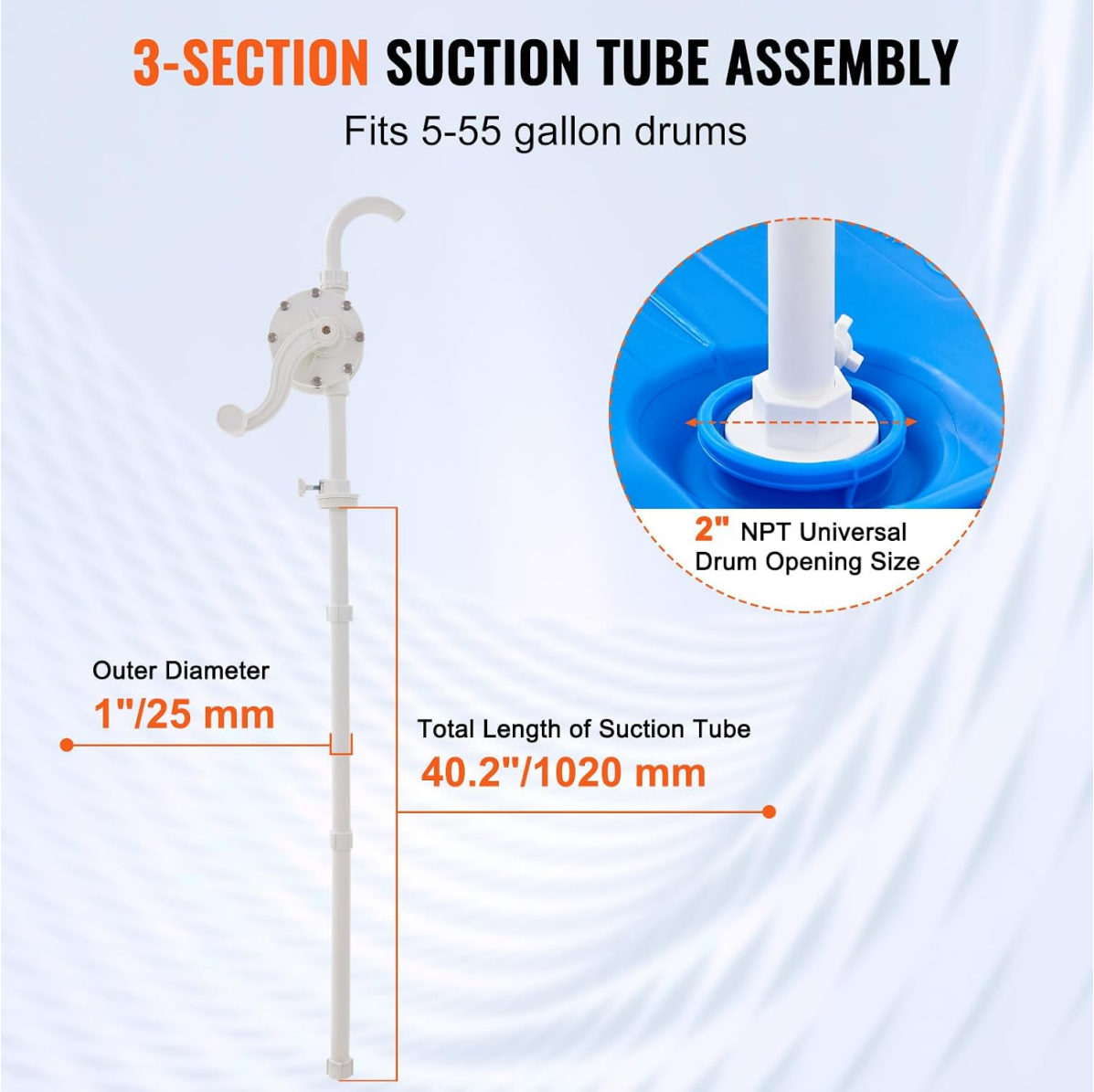


Figure 4.1: Illustration of the 3-section suction tube assembly. The tube has an outer diameter of 1 inch (25 mm) and a total length of 40.2 inches (1020 mm), designed to fit 5-55 gallon drums with a 2" NPT universal drum opening.

1. Unpack all components and verify against the package contents list.
2. Assemble the three sections of the suction tube by screwing them together. Ensure connections are tight.
3. Apply PTFE tape to the threads of the pump body where it connects to the suction tube to ensure an airtight seal.
4. Screw the assembled suction tube into the bottom of the pump body.

4.2 Attaching to Barrel and Hose Connection



Figure 4.2: The VEVOR Barrel Pump securely installed on a blue barrel, ready for operation. The hose is attached to the outlet spout with a clamp.



Figure 4.3: The complete accessory kit, including the hose for liquid transfer, a clamp for secure attachment, and PTFE tape for sealing connections.

1. Insert the suction tube into the barrel opening. The pump features a 2" NPT universal thread for secure attachment to standard barrel openings.
2. Screw the pump assembly firmly into the barrel bung.
3. Attach the provided hose to the pump's outlet spout.
4. Secure the hose connection with the supplied clamp, ensuring it is tightened to prevent leaks during operation.

5. Operating Instructions

This section details the proper procedure for operating your VEVOR barrel pump.

5.1 Liquid Compatibility

- **Compatible Liquids:** Water, alcohol, antifreeze, DEF (Diesel Exhaust Fluid), and certain corrosive liquids.
- **Incompatible Liquids:** Diesel, kerosene, engine oil, petrol. Using the pump with these liquids may cause damage to the pump or create a safety hazard.

5.2 Transferring Liquids



Figure 5.1: A person demonstrating the use of the VEVOR barrel pump to transfer liquid from a barrel into a watering can, highlighting the 6.5 GPM quick transfer capability.



Figure 5.2: A detailed view of the rotary hand crank, featuring an ergonomic handle design for a non-slip and easy grip, making operation simple and effortless.

1. Ensure the barrel is on a stable, level surface.
2. Place the free end of the hose into the receiving container. Ensure the container is large enough to hold the transferred liquid.
3. Begin rotating the hand crank in a clockwise direction. Consistent rotation will initiate and maintain liquid flow.
4. The pump is designed for a flow rate of approximately 6.5 gallons per minute (GPM).
5. Continue cranking until the desired amount of liquid has been transferred or the barrel is empty.
6. Once transfer is complete, stop cranking and remove the hose from the receiving container. Allow any residual liquid to drain.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your pump.

6.1 Cleaning

- After each use, especially when transferring corrosive liquids, flush the pump with clean water to remove any residue.

- Disassemble the suction tube and hose if necessary for thorough cleaning.
- Wipe down the exterior of the pump with a damp cloth.

6.2 Storage

- Store the pump in a clean, dry place, away from direct sunlight and extreme temperatures.
- Ensure all liquid has been drained from the pump before storage to prevent freezing or residue buildup.
- If storing for an extended period, consider disassembling the pump for easier storage and inspection.

6.3 Inspection

- Periodically inspect the pump, hose, and connections for signs of wear, cracks, or damage.
- Replace any worn or damaged parts immediately to prevent leaks or operational failure.

7. Troubleshooting

This section addresses common issues you might encounter and provides potential solutions.

Problem	Possible Cause	Solution
No liquid flow or very slow flow	• Suction tube not fully submerged • Air leak in connections • Pump not primed • Obstruction in suction tube or hose	• Ensure suction tube reaches liquid level • Check all connections for tightness; reapply PTFE tape if needed • Rotate crank vigorously to prime the pump • Inspect and clear any blockages
Leaks from connections	• Loose connections • Damaged PTFE tape or seals • Cracked hose	• Tighten all threaded connections and hose clamp • Replace PTFE tape or inspect seals for damage • Replace damaged hose
Crank is difficult to turn	• Internal obstruction • Pump components are dry or stiff	• Disassemble and inspect for foreign objects • Flush pump with water or a compatible lubricant (if applicable and safe for liquid being pumped)

8. Specifications

Detailed technical specifications for the VEVOR Rotary Hand Crank Barrel Pump.



Figure 8.1: Visual representation of the product dimensions and a summary of key specifications and included accessories.

Feature	Detail
Model Number	YOILP-HG0012A
Extraction Method	Hand-Operated Rotary Mechanism
Maximum Flow Rate	6.5 Gallons Per Minute (GPM)
Compatible Barrel Sizes	5 to 55 Gallons
Material	High-Strength Polypropylene (PP) Plastic
Suction Tube Outer Diameter	1 inch (25 mm)
Total Suction Tube Length	40.2 inches (1020 mm)
Barrel Connection Thread	2" NPT Universal Thread
Product Dimensions (L x W x H)	129.03 x 23.11 x 23.11 cm (50.8 x 9.1 x 9.1 inches)
Item Weight	1.5 kg (3.3 lbs)

Feature	Detail
Included Accessories	Hose, Clamp, PTFE Tape

9. Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please contact VEVOR customer service through their official channels. Please have your product model number (YOILP-HG0012A) and purchase details available when contacting support.