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### The ROP Shop 101351\_10

# The ROP Shop Check Valve Repair Kit User Manual

For Himore PW28/2.4B, PW24/2.3L Pressure Washer Pumps

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of The ROP Shop Check Valve Repair Kit. This kit is designed as a replacement for check valves in Himore PW28/2.4B and PW24/2.3L pressure washer pumps. Please read this manual thoroughly before attempting any repairs or maintenance to ensure safe and effective use.



Figure 1: The ROP Shop Check Valve Repair Kit, containing six individual check valves.

## PRODUCT OVERVIEW

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The check valve repair kit includes six replacement check valves. These components are crucial for maintaining proper water flow and pressure within your pressure washer pump. Regular inspection and timely replacement of worn check valves can prevent significant pressure loss and extend the life of your pump.

### Key Features:

- Direct replacement for Himore PW28/2.4B and PW24/2.3L pressure washer pumps.
- Includes six check valves for comprehensive repair.
- Designed to restore optimal pump performance.

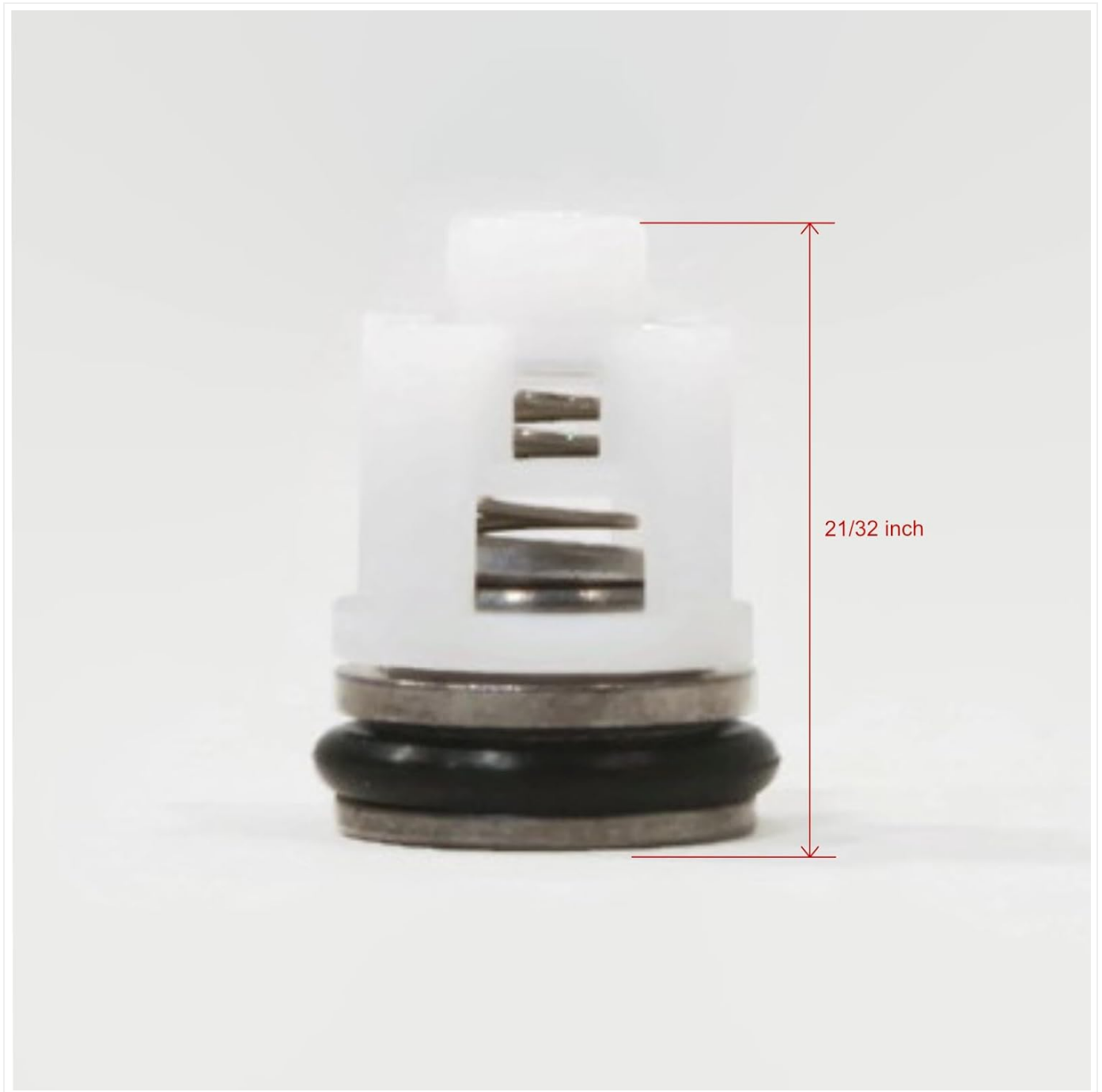


Figure 2: Side view of a single check valve, indicating a height of 21/32 inch.



Figure 3: Top view of a single check valve, indicating a diameter of 1/2 inch.

## SAFETY INFORMATION

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Always disconnect the pressure washer from its power source (electricity or fuel) and water supply before attempting any repair or maintenance. Release any residual pressure in the system. Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, to prevent injury. If you are unsure about any step, consult a qualified technician.

## SETUP AND INSTALLATION

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Replacing check valves requires careful attention to detail. The following steps outline the general procedure. Specific pump designs may vary, so refer to your pressure washer's original manual for detailed pump disassembly instructions.

### Tools Required:

- Appropriate Allen wrench (e.g., 6mm for some models)

- Pliers or hemostat (for removing broken pieces, if applicable)
- Lubricant spray (optional, for easier removal/installation)
- Clean rags

## Installation Steps:

1. **Preparation:** Ensure the pressure washer is turned off, unplugged (if electric), and disconnected from the water supply. Release all pressure from the system by squeezing the spray gun trigger.
2. **Access the Pump:** Depending on your pressure washer model, you may need to remove covers or tilt the unit to access the pump head. Some pumps can be accessed by removing 3 bolts with a 6mm Allen head.
3. **Disassemble Pump Head:** Carefully remove the pump head or the section containing the check valves. Be mindful of any seals or gaskets.
4. **Remove Old Check Valves:** Locate the old check valves. They may be broken or stuck. Use pliers or a hemostat to carefully extract them. Clean any debris from the valve seats.
5. **Install New Check Valves:** Insert the new check valves into their respective ports. Ensure they are oriented correctly (typically, the spring side faces inwards towards the pump's piston). Apply a small amount of lubricant if needed to aid insertion.
6. **Reassemble Pump:** Reassemble the pump head, ensuring all seals and gaskets are properly seated. Tighten all bolts securely, but do not overtighten.
7. **Test:** Reconnect the water supply and power. Slowly turn on the water and check for leaks before starting the pressure washer. Once water flows steadily, start the pressure washer and test its operation.



Figure 4: An angled view of a single check valve, showing its internal spring mechanism and rubber O-ring.

## OPERATING TIPS AFTER INSTALLATION

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After replacing the check valves, proper operation of your pressure washer is crucial for longevity. Always ensure a steady and adequate water supply to the pump. Running the pump dry can cause significant damage. Avoid prolonged bypass mode operation, where the pump circulates water internally without spraying, as this can lead to overheating.

## MAINTENANCE

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Regular maintenance helps ensure the optimal performance and lifespan of your pressure washer and its components, including the newly installed check valves.

### General Maintenance Practices:

- **Inspect Regularly:** Periodically inspect the check valves and surrounding pump components for signs of wear, cracks, or leaks.
- **Clean Debris:** Ensure no debris enters the pump, as this can damage the check valves and other internal parts. Use a water inlet filter if available.
- **Winterization:** In cold climates, properly winterize your pressure washer to prevent freezing, which can damage the pump and check valves. Use a pump saver solution.

## TROUBLESHOOTING

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If you experience issues after replacing the check valves, consult the following common troubleshooting tips:

Problem	Possible Cause	Solution
Low or No Pressure	Check valves installed incorrectly. Debris in check valves. Air in the pump. Worn seals/o-rings.	Re-check valve orientation. Disassemble and clean valves. Purge air by running water through pump before starting. Inspect and replace seals if necessary.
Water Leaking from Pump Head	Improperly seated seals/gaskets. Cracked pump housing (unlikely if only valves replaced). Loose bolts.	Ensure all seals are correctly positioned. Inspect pump housing for damage. Tighten pump head bolts.
Pump Pulsates or Surges	Air in the system. Inconsistent water supply. Partially blocked check valve.	Bleed air from the system. Ensure adequate water flow to the pump. Inspect and clean check valves.

## SPECIFICATIONS

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Attribute	Detail
Product Name	Check Valve Repair Kit
Brand	The ROP Shop

Attribute	Detail
Model Number	101351_10
Compatibility	Himore PW28/2.4B, PW24/2.3L Pressure Washer Pumps
Quantity	6 Check Valves
Material	Metal, Plastic, Rubber (as per components)
Approximate Dimensions (per valve)	Height: 21/32 inch, Diameter: 1/2 inch
Item Weight	0.01 Ounces (kit)

## WARRANTY AND SUPPORT

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For information regarding product warranty or technical support, please contact The ROP Shop directly. Refer to the packaging or the official brand website for the most current contact details and warranty policy.

**Manufacturer:** The ROP Shop

**UPC:** 193979065177

**Part Number:** 101351\_10

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This manual is for informational purposes only. Always exercise caution when performing repairs.