

## Cash Acme 23255-0150

# Cash Acme FVMX-5C Temperature and Pressure Relief Valve User Manual

Model: 23255-0150

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## 1. INTRODUCTION

The Cash Acme FVMX-5C Temperature and Pressure Relief Valve (Model 23255-0150) is engineered to provide essential safety for domestic and commercial hot water heaters and heating devices. This valve is part of the FVX Series, designed for high capacity protection. It operates automatically, resetting after either temperature or pressure relief events. This manual provides comprehensive instructions for proper installation, operation, and maintenance to ensure safe and efficient performance of your relief valve.



Figure 1: Cash Acme FVMX-5C Temperature and Pressure Relief Valve, Model 23255-0150. This image shows the brass body of the valve with its inlet and outlet connections.

## 2. IMPORTANT SAFETY INFORMATION

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Please read and understand all safety warnings and instructions before installing or operating this valve. Failure to follow these instructions could result in property damage, serious injury, or death.

- **Professional Installation Recommended:** Installation should be performed by a qualified plumber or authorized service technician in accordance with local codes and ordinances.
- **Hot Water Hazard:** This valve handles hot water. Exercise extreme caution to prevent scalding.
- **Discharge Pipe:** A discharge pipe must be connected to the valve outlet and routed to a safe discharge point. The discharge pipe must be full-sized, unreduced, and free of obstructions. Do not cap or plug the discharge pipe.
- **Regular Testing:** The relief valve must be manually operated at least once a year to ensure it is free and clear of internal corrosion and deposits. Follow the testing procedure outlined in the Maintenance section.
- **Proper Sizing:** Ensure the valve is correctly sized for the hot water heater or heating device it protects. Refer to the device's specifications and local codes.
- **Lead-Free Construction:** This valve is lead-free, suitable for potable water applications.

## 3. PRODUCT FEATURES

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The Cash Acme FVMX-5C valve incorporates several key features for reliable performance:

- Designed for commercial and domestic hot water heating applications.
- Features a female inlet for connection.
- Fully automatic operation, resetting after either temperature or pressure relief.
- Element length: 4 inches.
- Lead-free construction for safe potable water use.

## 4. PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- 1 x Cash Acme FVMX-5C Temperature and Pressure Relief Valve (Model 23255-0150)

*Note: Additional plumbing components, such as a discharge pipe, are not included and must be sourced separately.*

## 5. SETUP AND INSTALLATION

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Installation must comply with all applicable local codes and the latest edition of the Uniform Plumbing Code (UPC) or International Plumbing Code (IPC). It is strongly recommended that installation be performed by a licensed professional.

### 5.1 Installation Steps

1. **Turn Off Power and Water:** Before starting, turn off the power supply to the water heater and shut off the main water supply to the building.
2. **Drain Water Heater:** Partially drain the water heater to reduce pressure and water level below the T&P valve opening.
3. **Locate T&P Opening:** Identify the designated opening for the T&P relief valve on the hot water heater. This is typically located on the top or side of the tank.
4. **Apply Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male threads of the FVMX-5C valve.
5. **Install Valve:** Thread the valve into the designated opening on the water heater. Tighten securely with a

wrench, ensuring the valve is oriented so the discharge outlet faces downwards or towards the intended discharge pipe route. Do not overtighten.

- 6. Connect Discharge Pipe:** Attach a full-sized discharge pipe to the valve's outlet. The discharge pipe must be made of a material approved for hot water, such as copper, CPVC, or galvanized steel. It must be routed to a safe discharge point, such as a floor drain, indirect waste receptor, or outdoors, ensuring it terminates with an air gap and is not subject to freezing. The pipe must have no valves, obstructions, or reductions in size.
- 7. Refill Water Heater:** Once the valve and discharge pipe are installed, close the water heater drain valve, open the hot water faucet in a nearby sink to allow air to escape, and slowly open the main water supply valve to refill the water heater.
- 8. Restore Power:** After the water heater is full and all air is purged, close the hot water faucet and restore power to the water heater.
- 9. Check for Leaks:** Carefully inspect all connections for leaks.

## 6. OPERATING INSTRUCTIONS

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The Cash Acme FVMX-5C Temperature and Pressure Relief Valve is designed for automatic operation. It will open to relieve excessive temperature or pressure within the hot water system, preventing dangerous conditions. Once the temperature or pressure returns to a safe level, the valve will automatically reset and close. No manual intervention is required for its primary safety function. However, regular manual testing is crucial to ensure its operational integrity (see Maintenance section).

## 7. MAINTENANCE

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Regular maintenance is essential to ensure the continued safe and effective operation of your relief valve.

### 7.1 Annual Manual Testing

It is critical to manually operate the relief valve at least once a year to ensure it is free from internal corrosion, deposits, and to verify the waterway is clear. This test should be performed by a qualified individual.

- 1. Prepare for Discharge:** Ensure the discharge pipe is properly routed to a safe location where hot water can be safely discharged without causing harm or damage.
- 2. Lift Lever:** Carefully lift the test lever on the valve. Hold it open for a few seconds to allow water to flow through the discharge pipe.
- 3. Release Lever:** Release the lever slowly. The valve should snap shut firmly.
- 4. Observe:** Observe the discharge pipe for any continuous dripping or leakage after the lever is released. If the valve continues to drip or leak, it may indicate a faulty valve or sediment buildup, and replacement may be necessary.

**WARNING:** If no water flows from the discharge pipe when the lever is lifted, or if the valve does not snap shut, the valve is likely faulty and must be replaced immediately. Do not attempt to repair a faulty relief valve.

### 7.2 Inspection

Periodically inspect the valve and discharge pipe for any signs of corrosion, damage, or blockage. Ensure the discharge pipe remains unobstructed and properly routed.

## 8. TROUBLESHOOTING

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This section addresses common issues you might encounter with your FVMX-5C relief valve.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Valve drips or leaks continuously from discharge pipe.	<ul style="list-style-type: none"> <li>• Sediment or debris on valve seat.</li> <li>• High water pressure.</li> <li>• Faulty valve.</li> </ul>	<ul style="list-style-type: none"> <li>• Perform manual test (Section 7.1) to flush debris.</li> <li>• Check water pressure; install a pressure reducing valve if pressure exceeds system limits.</li> <li>• Replace the valve if dripping persists after flushing.</li> </ul>
No water discharges during manual test.	<ul style="list-style-type: none"> <li>• Valve is seized due to corrosion or deposits.</li> <li>• Discharge pipe is blocked.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>IMMEDIATELY REPLACE THE VALVE.</b> This indicates a severe safety hazard.</li> <li>• Inspect discharge pipe for blockages.</li> </ul>
Valve frequently discharges.	<ul style="list-style-type: none"> <li>• Water heater temperature set too high.</li> <li>• Excessive water pressure.</li> <li>• Thermal expansion in closed system.</li> </ul>	<ul style="list-style-type: none"> <li>• Lower water heater thermostat setting.</li> <li>• Install a pressure reducing valve or thermal expansion tank if necessary. Consult a plumber.</li> </ul>

If you are unable to resolve an issue, contact a qualified plumber or Cash Acme customer support.

## 9. SPECIFICATIONS

Specification	Detail
Model Number	23255-0150
Brand	Cash Acme
Material	Lead-Free Brass
Inlet Connection Type	Female
Outlet Connection Type	Male
Outlet Connection Size	0.75 Inches
Number of Ports	2
Element Length	4 inches
Product Dimensions (L x W x H)	2.5 x 2 x 11.26 inches
Item Weight	6.47 pounds
Exterior Finish	Stainless Steel (element)
Specification Met	CSA, ULC
UPC	697285232556

## 10. WARRANTY INFORMATION

Cash Acme products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the FVMX-5C Temperature and Pressure Relief Valve, please refer to the official warranty statement provided with your product packaging or visit the official Cash Acme website. Warranty coverage typically includes defects in materials and workmanship under normal use and service.

## 11. CUSTOMER SUPPORT

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If you have any questions regarding the installation, operation, or maintenance of your Cash Acme FVMX-5C valve, or require technical assistance, please contact Cash Acme customer support.

- **Website:** Visit the official [Cash Acme website](#) for product information, FAQs, and contact details.
- **Contact:** Refer to the contact section on the Cash Acme website for phone numbers or email support.