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> [American Standard M970654-0070A Pressure Balance Valve Cartridge for Flash - Instruction Manual](#)

## American Standard M970654-0070A

# American Standard M970654-0070A Pressure Balance Valve Cartridge for Flash - Instruction Manual

## INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the American Standard M970654-0070A Pressure Balance Valve Cartridge. This genuine American Standard part is designed to ensure the continued optimal performance of your Flash valve system. Adherence to these instructions will facilitate proper function and longevity of the product.



*Image: Official American Standard Genuine Part logo, indicating authenticity and quality.*

## SAFETY INFORMATION

Always observe the following safety precautions during installation and maintenance:

- **Turn off water supply:** Before beginning any work, ensure the main water supply to the fixture is completely shut off.

- **Wear protective gear:** Use appropriate personal protective equipment, such as safety glasses and gloves.
- **Professional assistance:** If you are unsure about any step, consult a qualified plumber.
- **Handle with care:** Components may have sharp edges or small parts.

## PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- American Standard M970654-0070A Pressure Balance Valve Cartridge
- Removal Ring (U-shaped plastic tool)
- Installation Guide (this document)



*Image: The American Standard M970654-0070A Pressure Balance Valve Cartridge, shown with the included U-shaped removal ring.*

## INSTALLATION INSTRUCTIONS

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This cartridge is suitable for both standard installation and Back-to-Back (BTB) solutions. Follow these steps carefully for proper installation:

### 1. Preparation

1. **Shut off water supply:** Locate the main water shut-off valve for your home or the specific fixture and turn it off completely.
2. **Drain lines:** Open the faucet to relieve any remaining water pressure and drain the lines.
3. **Remove existing trim:** Carefully remove the faucet handle, escutcheon, and any other decorative trim to expose the valve body.

## 2. Cartridge Removal (if replacing)

1. **Identify retaining clip:** Locate the retaining clip or nut that secures the old cartridge in place. Remove it.
2. **Use removal ring:** Insert the U-shaped removal ring (included with the new cartridge) into the slots on the old cartridge. This tool aids in gripping and extracting the cartridge.
3. **Extract cartridge:** Gently pull or twist the old cartridge out of the valve body. Some resistance may be encountered due to mineral deposits or O-ring friction.
4. **Clean valve body:** Thoroughly clean the inside of the valve body, removing any debris, mineral buildup, or old O-ring fragments.



Image: The valve cartridge shown with a metal retaining ring, which typically secures the cartridge within the valve body.

## 3. New Cartridge Installation

1. **Lubricate O-rings:** Apply a thin coat of plumber's silicone grease to the O-rings on the new cartridge to ensure a smooth insertion and proper seal.
2. **Align cartridge:** Carefully align the new cartridge with the valve body. Ensure the "UP" marking on the cartridge is facing upwards. The cartridge has specific keys or tabs that must align with grooves in the valve body.
3. **Insert cartridge:** Push the cartridge firmly into the valve body until it is fully seated. Do not force it.
4. **Secure cartridge:** Reinstall the retaining clip or nut that holds the cartridge in place. Ensure it is securely fastened.



Image: A side view of the valve cartridge, highlighting the "UP" orientation marking for correct installation.

## 4. Temperature Limit Stop Adjustment (if applicable)

Some models allow for adjustment of the maximum hot water temperature. Refer to your faucet's specific instructions for details on adjusting the temperature limit stop on the cartridge. This typically involves rotating a plastic ring on the cartridge stem.



*Image: The valve cartridge showing the temperature adjustment ring with numerical markings, allowing for control over maximum hot water output.*

## 5. Reassembly and Testing

1. **Reinstall trim:** Reattach the escutcheon, handle, and any other trim components.
2. **Restore water supply:** Slowly turn the main water supply back on.
3. **Check for leaks:** Inspect all connections for any signs of leaks.
4. **Test operation:** Operate the faucet handle to ensure proper water flow and temperature control.

## OPERATION

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The M970654-0070A is a pressure balance valve cartridge. Once installed, it automatically adjusts the hot and cold water pressure to maintain a consistent water temperature, preventing sudden temperature changes caused by pressure fluctuations in your plumbing system. The faucet handle controls both water flow and temperature, as determined by the cartridge's internal mechanism.

## MAINTENANCE

The pressure balance valve cartridge is designed for long-term reliability. Regular maintenance is generally not required for the cartridge itself. However, if you experience issues such as inconsistent water temperature, reduced flow, or difficulty operating the handle, the cartridge may need inspection or replacement.

- **Cleaning:** Periodically clean the faucet aerator to remove mineral deposits that can affect water flow.
- **Hard water areas:** In areas with hard water, mineral buildup can affect cartridge performance over time. If issues arise, consider inspecting and cleaning the cartridge or replacing it if necessary.

## TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
Inconsistent water temperature	Debris in cartridge, worn O-rings, faulty pressure balance mechanism.	Inspect and clean cartridge. If problem persists, replace cartridge. Ensure hot and cold water supply lines are fully open.
Reduced water flow	Clogged aerator, debris in cartridge, partially closed stop valves.	Clean faucet aerator. Check for debris in cartridge. Ensure hot and cold water supply stop valves are fully open.
Faucet leaks from handle area	Worn O-rings on cartridge, loose retaining nut/clip.	Ensure cartridge retaining clip/nut is secure. Replace cartridge if O-rings are damaged or worn.
Difficulty turning handle	Mineral buildup, worn cartridge.	Remove and clean cartridge. Lubricate O-rings. If stiff, replace cartridge.

If troubleshooting steps do not resolve the issue, contact American Standard customer support or a qualified plumber.

## SPECIFICATIONS

- **Model Number:** M970654-0070A
- **Brand:** American Standard
- **Material:** Brass, Metal
- **Item Dimensions (L x W x H):** 9 x 5 x 3 inches
- **Item Weight:** 4.6 ounces
- **Exterior Finish:** Painted
- **Inlet Connection Type:** Female Iron Pipe
- **Outlet Connection Type:** FNPT
- **Number of Ports:** 2
- **Outlet Connection Size:** 0.5 Inches

- **UPC:** 012611734182
- **Usage:** Inside
- **Included Components:** Installation Guide, Removal Ring

## WARRANTY AND SUPPORT

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**Warranty:** This American Standard M970654-0070A Pressure Balance Valve Cartridge comes with a 1-year Limited warranty from the date of purchase. This warranty covers manufacturing defects under normal use and service.

**Customer Support:** For technical assistance, warranty claims, or to purchase replacement parts, please visit the official American Standard website or contact their customer service department. Ensure you have your model number (M970654-0070A) and proof of purchase available when contacting support.

You can find more information and contact details on the [American Standard Store](#).

