

## Moen 2590

# Moen PosiTemp Rough-In Pressure Balancing Shower Valve with Stops (Model 2590) Instruction Manual

Model: 2590

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Moen PosiTemp Rough-In Pressure Balancing Shower Valve with Stops, Model 2590. This valve is engineered to provide consistent water temperature and is compatible with various Moen trim kits, offering both functionality and design flexibility.

## 2. KEY FEATURES

- **M-Pact Common Valve System:** Allows for future style upgrades of your faucet trim without replacing the valve plumbing.
- **PosiTemp Pressure-Balancing Control:** Maintains consistent water temperature in the shower, preventing sudden changes in water pressure.
- **1/2-inch IPS Connections:** Features 1/2-inch IPS (Iron Pipe Size) connections for both inlet and outlet, with PEX connection compatibility.
- **Quarter-Turn Stops:** Integrated stops allow for easy maintenance of the valve without needing to shut off the main water supply to the entire residence.
- **Durable Construction:** Constructed from brass for long-lasting performance.
- **Four Ports:** Designed with four ports for versatile plumbing configurations.

## 3. SETUP AND INSTALLATION

Installation of the Moen PosiTemp 2590 valve should be performed by a qualified professional or an experienced individual following all local plumbing codes. The M-Pact Common Valve System simplifies future trim changes, but initial installation requires careful attention to detail.

### 3.1. Pre-Installation Considerations

- Ensure all necessary tools and materials are available.
- Familiarize yourself with the valve's connection types: 1/2-inch IPS threaded connections are standard. PEX crimp ring compatibility is also available.
- Plan for an access panel on the opposite side of the wall for future maintenance, if possible.
- If installing a shower-only system, the unused bottom port (typically for a tub spout) must be plugged with a brass plug. Do not create a loop-back into the shower line.

### 3.2. Installation Steps (Overview)

1. **Shut off Water Supply:** Before beginning any work, ensure the main water supply to the installation area is completely shut off.
2. **Mount the Valve:** Securely mount the valve to the framing according to the provided rough-in dimensions. Ensure the 'UP' marking on the valve is correctly oriented.
3. **Connect Plumbing:** Connect the hot and cold water supply lines to the appropriate inlets and the shower/tub outlet lines. Use proper sealing techniques for threaded connections or crimping for PEX.
4. **Flush the System:** Before inserting the cartridge, temporarily turn on the water supply to flush any debris from the lines. This prevents damage to the cartridge.
5. **Install Cartridge:** Carefully insert the Moen 1222 PosiTemp cartridge into the valve body.
6. **Test for Leaks:** Restore water supply and thoroughly check all connections for leaks.
7. **Install Trim:** Once the rough-in is complete and tested, install the desired Moen PosiTemp trim kit (sold separately).



**Figure 1:** Moen PosiTemp 2590 Rough-In Pressure Balancing Shower Valve. This image displays the brass valve body with

its four connection ports and the cartridge housing.

# MOEN®

## Specifications

### DESCRIPTION

- Brass construction
- 1/2" CC, IPS, or PEX connections with 1/4 turn stops
- Pressure balancing, four port, cycle valve

### OPERATION

- Adjustable temperature limit stop to control maximum hot water temperature
- Pressure balancing mechanism maintain selected discharge temperature to  $\pm 3^{\circ}\text{F}$

### CARTRIDGE

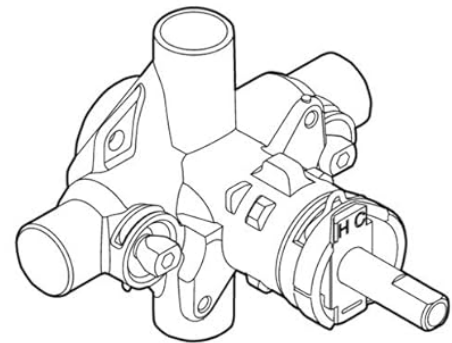
- 1222 cartridge design
- Nonmetallic/nonferrous and stainless steel materials
- Accommodates back to back installations

### STANDARDS

- Third party certified to meet ASME A112.18.1/CSA B125.1, ASSE 1016, and all applicable requirements referenced therein
- Moen's Posi-Temp® and Moentrol® valves with graphite composite spools combined with Moen's Eco-performance showerheads meet the performance requirements of pressure and temperature variation of ASSE1016 when tested as low as 1.5 gpm

### WARRANTY

- Lifetime limited warranty against leaks, drips and finish defects to the original consumer purchaser
- 5 year warranty if used in commercial installations



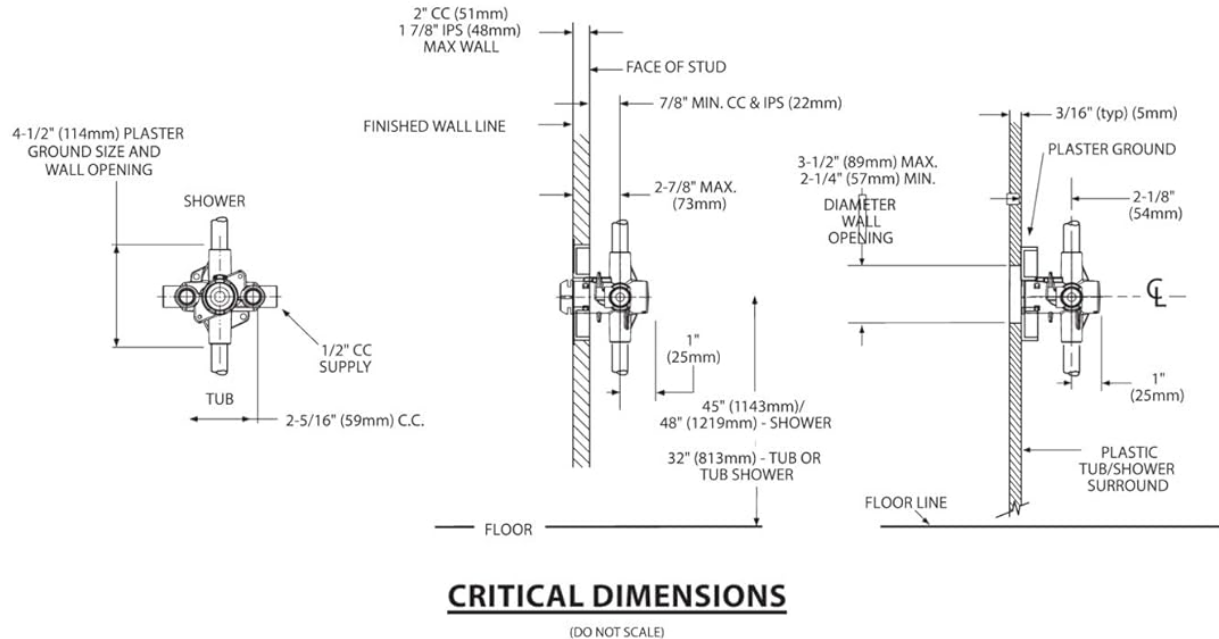
### POSI-TEMP® VALVE Pressure-Balancing Valve with 1/4 Turn Stops

#### Single Pack

Models: 2570 (CC), 2590 (IPS), 2580 (PEX)

#### Bulk Packed

Models: 62370 (CC), 62390 (IPS)  
(Bulk packed 12 per carton)



Rev. 6/18

FOR MORE INFORMATION CALL: 1-800-BUY-MOEN

[www.moen.com](http://www.moen.com)

**Figure 2:** Technical diagram illustrating the Moen PosiTemp 2590 valve's specifications, including connection types, dimensions, and rough-in requirements for both shower and tub/shower installations.

## 4. OPERATING INSTRUCTIONS

The Moen PosiTemp valve is designed for simple and reliable operation, providing a consistent water

temperature experience.

## 4.1. Temperature Control

The PosiTemp feature automatically adjusts the balance between hot and cold water to maintain your selected temperature, even if there are pressure fluctuations in your home's water supply. To adjust the temperature, rotate the handle on your Moen trim kit. The valve includes an adjustable temperature limit stop to control the maximum hot water temperature, which can be set during installation to prevent scalding.

## 4.2. Water Flow Control

Water flow is typically controlled by the same handle that adjusts temperature. Rotate the handle to turn the water on or off, and to increase or decrease flow, depending on your specific trim kit design.

# 5. MAINTENANCE

---

Regular maintenance ensures the longevity and optimal performance of your Moen PosiTemp valve.

## 5.1. Using the Quarter-Turn Stops

The built-in quarter-turn stops are a key feature for convenient maintenance. These stops allow you to shut off the water supply directly at the valve, isolating it from the main water lines. This is particularly useful for:

- Replacing the cartridge.
- Performing repairs on the valve or trim.
- Avoiding the need to shut off water to the entire house.

To operate the stops, use a flathead screwdriver to turn them a quarter-turn to the closed position. Ensure they are fully open for normal operation.

## 5.2. Cartridge Replacement

The Moen 1222 PosiTemp cartridge is a critical component. If you experience issues with temperature control or water flow, the cartridge may need to be replaced. Moen offers a Limited Lifetime Warranty on its products, and replacement cartridges are often available directly from Moen customer service.

# 6. TROUBLESHOOTING

---

If you encounter issues with your Moen PosiTemp valve, consider the following common solutions:

- **No Hot Water or Inconsistent Temperature:**
  - Check if the temperature limit stop is set correctly.
  - Ensure the quarter-turn stops are fully open.
  - The cartridge may need cleaning or replacement.
- **Low Water Flow:**
  - Verify that the quarter-turn stops are fully open.
  - Check for debris in the water lines or cartridge.
- **Leaks:**

- Inspect all plumbing connections for proper sealing.
- A faulty cartridge can sometimes cause internal leaks.

For persistent issues, it is recommended to contact Moen customer support or consult a professional plumber.

## 7. SPECIFICATIONS

Attribute	Specification
Brand	Moen
Model Number	2590
Material	Metal (Brass)
Exterior Finish	Brass
Inlet Connection Size	0.5 Inches
Inlet Connection Type	Threaded
Outlet Connection Size	0.5 Inches
Outlet Connection Type	Threaded
Number of Ports	4
Item Dimensions (L x W x H)	7 x 7 x 6 inches
Item Weight	1.76 pounds
Specification Met	ASSE
Included Components	Valve


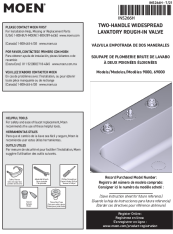
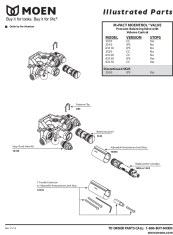



## 8. WARRANTY AND SUPPORT

### 8.1. Limited Lifetime Warranty

Moen products, including the PosiTemp 2590 valve, are backed by a Limited Lifetime Warranty against leaks, drips, and finish defects to the original consumer purchaser. This warranty ensures confidence in the quality and durability of your Moen product.

### 8.2. Customer Support

For warranty claims, technical assistance, or replacement parts, please contact Moen customer support. Refer to the official Moen website or product packaging for the most current contact information.

	<p><a href="#">Moen 26009 Engage Magnetix Shower Head and Posi-Temp Valve Installation and User Manuals</a></p> <p>Comprehensive user manuals and installation guides for the Moen 26009 Engage Magnetix Handheld Shower Head and Moen Posi-Temp Tub and Shower Valves. Includes product details, assembly instructions, installation schematics, troubleshooting tips, and warranty information.</p>
	<p><a href="#">Moen INS266H Two-Handle Widespread Lavatory Rough-In Valve Installation Guide</a></p> <p>Comprehensive installation instructions and parts list for the Moen INS266H Two-Handle Widespread Lavatory Rough-In Valve. Includes helpful tools, safety precautions, and warranty information, presented in an accessible HTML format.</p>
	<p><a href="#">Moen M-PACT MOENTROL Valve Installation Guide and Illustrated Parts</a></p> <p>Comprehensive installation guide and illustrated parts list for the Moen M-PACT MOENTROL Valve, featuring pressure-balancing and volume control. Includes step-by-step instructions, parts identification, and warranty information.</p>
	<p><a href="#">Moen Tub/Shower Valve Trim Installation Instructions and Troubleshooting Guide</a></p> <p>Comprehensive installation guide and troubleshooting manual for Moen single-handle tub/shower and shower-only valve trims (Model INS10717-2/18), including parts lists, step-by-step instructions, care, cleaning, and warranty information.</p>
	<p><a href="#">Moen ioDigital™ Thermostatic Shower Valve Model 3384 Installation Guide</a></p> <p>Installation and safety guide for the Moen ioDigital™ Thermostatic Shower Valve (Model 3384, S3384). Features include layout considerations, parts list, step-by-step instructions, and warranty information.</p>
	<p><a href="#">Moen ioDIGITAL Thermostatic Shower Valve Model 3384 Installation and Warranty Guide</a></p> <p>Comprehensive guide for installing and maintaining the Moen ioDIGITAL Thermostatic Shower Valve Model 3384 for T3420 Series. Includes detailed instructions, safety precautions, and warranty information.</p>