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Moen M-CORE Mixing Shower Valve U232CIS Instruction Manual

Model: U232CIS

INTRODUCTION

The Moen M-CORE Universal Valve System is engineered for efficient installation and enhanced showering functionality. This integrated mixing and transfer valve is designed to provide precise temperature control and volume adjustment, adapting to various shower configurations. It supports installations with either two or three showering devices, offering flexibility in design and use for both new construction and remodeling projects.

KEY FEATURES

- **Integrated Transfer Valve:** Controls 2 or 3 showering devices for versatile shower experiences.
- **Time-Saving Installation:** Features an integrated mounting bracket for direct and flat valve securement to a brace.
- **Pressure-Balancing Capabilities:** M-CORE valves with 3-Series trim are designed to maintain consistent water temperature by controlling fluctuations in water pressure.
- **Volume Control:** Allows adjustment of water flow for personalized showering.
- **Universal Valve System:** Accommodates any of the 2-, 3-, or 4-Series trims, offering design flexibility even after valve installation.
- **Durable Construction:** Made from brass for long-lasting performance.

PREPARATION

Recommended Tools

- Phillips Screwdriver
- Adjustable Pliers
- Needle Nose Pliers
- Adjustable Wrench
- PEX Tube Cutter
- Copper Tube Cutter

- Crimping Tool
- Thread Seal Tape
- Plumber's Putty
- Tape Measure
- Thermometer
- Torch
- Safety Glasses

Additional Materials (May Need to Purchase)

- 1/2" PEX Couplings
- 1/2" Copper Slip Couplings
- Crimp Rings
- PEX Plug
- PEX and Copper Tubing
- Lead-Free Solder Kit

Safety Precautions

Before starting any plumbing project, ensure the home's main water supply is shut off. If you are unsure of the main shut-off location, contact your local water company for assistance. After shutting off the main water supply, turn on a faucet at the lowest point in the home to drain the water lines.

Access Panel

For remodel projects, locate the plumbing access panel, typically behind the valve. If no access panel exists, an opening will need to be created.

INSTALLATION

Valve Placement

The center of the shower valve should be positioned 45-48 inches from the shower floor. The 'UP' symbol on the valve must be facing upwards during installation.





Image: Moen M-CORE Mixing Shower Valve with green plaster guard. This image shows the brass valve body with the green plaster guard attached, indicating the 'UP' direction and the surface flush with finished wall.

Determining Wall Thickness

Measure the wall thickness to determine if it is a thick wall (more than 1/4 inch) or a thin wall (less than 1/4 inch). This affects the trim installation.

Integrated Transfer Valve Setup

The M-CORE valve supports two or three showering devices. If installing three devices, remove the cartridge nut from the transfer valve and pull out the old cartridge. Then, remove the dust cover, clip, and limiter from the cartridge. Reinstall the cartridge and nut, hand-tightening and then snugging with a wrench.

If installing two showering devices, **do not** remove the limiter and clip from the cartridge. Cap the unused outlet (marked '3' on the

valve). Attach the primary shower device plumbing to outlet '1' and the secondary device plumbing to outlet '2'.



Image: Close-up of the Moen M-CORE valve showing the cartridge and its components.

Attaching the Valve to Existing PEX Tubing

Once the valve is in the proper position, measure the distance from the cold and hot water inlet elbows to the valve opening. Cut appropriate lengths of 1/2-inch PEX tubing. Slide a 1/2-inch crimp ring onto each end of the new hot and cold tubes. Attach each tube to its respective water supply line. Then, attach the valve to the new hot and cold inlets. Crimp each end of the PEX connections. Secure both valves to the cross members from the front of the wall for added support using the integrated mounting bracket.



Image: Moen M-CORE valve being secured to the wall using the integrated mounting bracket for flat installation.

Flushing the System and Checking for Leaks

M-CORE valves come pre-installed with a flush plug. Turn on the main water supply and let the water run from the shower outlets for 15 seconds to remove any debris. Pressurize the system and check for any leaks. Then, turn the water off.

Installing the M-CORE 3-Series Cartridge

First, remove the flush plug nut and pull out the flush plug by hand. Push the adapter and pressure balance plug out of the installation sleeve. Rotate the adapter 180 degrees and reattach it to the puck. Reinstall the pressure balancing puck assembly into the provided installation sleeve. Align the tab on the check adapter with the hole inside the valve body. Using the provided installation sleeve, install the adapter and pressure balancing puck assembly. Thread on the cartridge nut included with the trim kit, hand-tighten, then snug with a wrench.



Image: Diagram showing the cartridges for M-CORE Series mixing valves, which are included with the trim.

Installing and Setting Adjustable Temperature Limit Stop

The M-CORE valve includes an adjustable temperature limit stop to meet applicable temperature code requirements. To test the temperature, hold the lever handle in the 6 o'clock position, then lift and turn the handle clockwise until it stops. Turn on the water supply. If the desired water temperature has been met, no further adjustments are needed. If the water temperature exceeds 120 degrees Fahrenheit, you must reset the temperature limit stop. To reset, turn the handle to lower the water temperature to 120 degrees Fahrenheit. Close the water and remove the handle. Remove the temperature limit stop ring, located on the outer rim of the cartridge stem. Turn the limit stop ring clockwise until the tab on the ring lines up with the corresponding tab on the cartridge. Reinsert the limit stop at the desired hot position.

Installing 3-Series Trim

Install the decorative sleeve onto the mixing control valve. Using the four included screws, attach the mounting plate and snap ring to the valve. Once the snap ring is centered on the sleeve, secure it to the valve using the four included screws. Remove the dust cover. Snap the escutcheon plate onto the mounting plate. Using the included screw, attach the top of the escutcheon to the mounting plate. To add the transfer valve handle, ensure the notch on the cartridge stem is facing down. Slide the adapter into the handle and start the set screw. Install it onto the cartridge stem with the handle pointing down. Finish by tightening the set screw. To add the mixing valve handle, start the set screw, then place the handle on the cartridge stem. Finish tightening the set screw.



Moen received the highest numerical score in the proprietary Lifestory Research 2025 America's Most Trusted® Faucet study. Study results are based on the experiences and perceptions of people surveyed. Your experiences may vary. Visit www.lifestoryresearch.com.

Image: Diagram illustrating the M-CORE Universal Valve System and various trim options for 2-Series, 3-Series, and 4-Series, showing volume control and temperature settings.

OFFICIAL PRODUCT VIDEOS

Moen M-CORE Features

Video: This video highlights the key features and benefits of the Moen M-CORE valve system, including its simplified installation, design flexibility, and enhanced showering experience. It demonstrates how the system allows for easier temperature limit setting and offers more choices for consumers in terms of style and functionality.

M-CORE by Moen Installation

Video: A detailed guided installation video for the Moen M-CORE valve with integrated transfer valve and 3-Series trim. It covers preparation, site setup, valve installation to PEX tubing, flushing the system, checking for leaks, cartridge installation, temperature limit stop adjustment, and trim installation. Note: This is an advanced project, and professional plumber assistance is recommended.

SPECIFICATIONS

| Attribute | Value |
|---------------------------|-----------------------|
| Material | Brass |
| Brand | Moen |
| Item Dimensions L x W x H | 3 x 4.88 x 7.5 inches |
| Exterior Finish | Brass |
| Inlet Connection Type | CC/IPS |
| Outlet Connection Type | CC/IPS |
| Number of Ports | 3 |
| Specification Met | ASSE 1016, ASSE 1070 |
| Manufacturer | Moen Incorporated |
| UPC | 026508319604 |
| Connector Type | Compression |
| Thread Size | 1/2 inch |
| Thread Type | IPS |
| Valve Type | Ceramic Disc |
| Item Weight | 3 Pounds |
| Model Number | U232CIS |

WARRANTY

This Moen M-CORE Mixing Shower Valve is backed by Moen's Limited Lifetime Warranty. For full details and terms, please refer to the warranty documentation included with your product or visit the official Moen website.

SUPPORT

For further assistance, detailed instructions, or troubleshooting, please refer to the printed instruction sheets provided with your product. You may also contact Moen Consumer Services directly:

1-800-BUY-MOEN