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FUZHUI G3/4

FUZHUI G3/4 3-Way Thermostatic Mixing Valve Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your FUZHUI G3/4 3-Way Thermostatic Mixing Valve. This device is designed to ensure a stable water temperature for domestic hot water systems and floor heating, featuring an anti-scalding safety mechanism.

The valve is constructed from brass electroplated with nickel and ABS components, ensuring durability and reliable performance. It is suitable for various washing areas including bathrooms, toilets, and kitchens.



Image 1.1: The FUZHUI G3/4 Thermostatic Mixing Valve in a typical application setting, demonstrating its use with a faucet.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and safety of the thermostatic mixing valve. It is recommended that installation be performed by a qualified plumber in accordance with local plumbing codes and regulations.

2.1 Pre-Installation Checks

- Ensure all necessary tools and fittings are available.
- Verify that the water supply lines (hot and cold) are accessible and can be shut off.
- Inspect the valve for any visible damage before installation.

2.2 Installation Steps

1. **Shut off Water Supply:** Turn off the main water supply to the area where the valve will be installed.
2. **Drain Lines:** Open nearby faucets to drain any remaining water from the pipes.
3. **Connect Cold Water Inlet:** Identify the cold water inlet port on the valve (typically marked with blue or 'C') and connect the cold water supply line.
4. **Connect Hot Water Inlet:** Identify the hot water inlet port on the valve (typically marked with red or

'H') and connect the hot water supply line.

5. **Connect Mixed Water Outlet:** Connect the mixed water outlet port to the fixture or distribution system.
6. **Secure Connections:** Ensure all connections are tight and leak-free. Use appropriate sealing materials (e.g., PTFE tape) on threaded connections.
7. **Restore Water Supply:** Slowly turn on the main water supply and check for leaks.



Image 2.1: Detailed view of the valve's ports and temperature control knob, indicating flow direction and temperature range.

3. OPERATING INSTRUCTIONS

The FUZHUI G3/4 Thermostatic Mixing Valve is designed for precise temperature control, ensuring a consistent water temperature output between 35°C and 60°C.

3.1 Temperature Adjustment

- The valve features a rotary knob on top for temperature adjustment.
- Rotate the knob to select the desired mixed water temperature within the operational range of 35°C to 60°C.
- The valve will automatically mix hot and cold water to maintain the set temperature, even with fluctuations in incoming water pressure or temperature.

3.2 Anti-Scalding Safety Feature

This valve includes a built-in safety device. In the event of a cold water supply failure, the valve will automatically shut off the hot water supply to prevent scalding, enhancing user safety.



Image 3.1: The temperature adjustment dial on the thermostatic mixing valve, showing settings from 'Min' to 'Max 6'.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your thermostatic mixing valve.

- **Cleaning:** Periodically clean the exterior of the valve with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish.

- **Inspection:** Annually inspect the valve and connections for any signs of leaks, corrosion, or wear.
- **Filter Cleaning (if applicable):** If your system includes inline filters, check and clean them as per their respective instructions to prevent debris from affecting valve operation.
- **Professional Check:** Consider having a qualified plumber inspect the valve every few years to ensure proper calibration and function, especially in hard water areas where mineral buildup might occur.

5. TROUBLESHOOTING

If you encounter issues with your thermostatic mixing valve, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Inconsistent water temperature	Fluctuating water pressure; debris in valve; incorrect calibration.	Check water pressure regulators; clean any inline filters; consult a plumber for recalibration.
No hot water / Only cold water	Hot water supply failure; valve stuck.	Check hot water heater and supply; if cold water supply failed, the anti-scalding feature may have activated.
No cold water / Only hot water	Cold water supply failure; valve stuck.	Check cold water supply; if cold water supply failed, the anti-scalding feature should have activated to shut off hot water. If hot water is still flowing, the valve may be faulty.
Reduced water flow	Debris in valve or pipes; partially closed shut-off valves.	Check and clean inline filters; ensure all shut-off valves are fully open.
Leaks around connections	Loose connections; damaged seals.	Tighten connections; replace seals or O-rings if damaged.

6. SPECIFICATIONS

Detailed technical specifications for the FUZHUI G3/4 Thermostatic Mixing Valve:

Feature	Detail
Item Type	Thermostatic Mixing Valve
Material	Brass Electroplated, ABS
Color	Silver, Black
Thread Type	Outer Wire (G3/4)
Temperature Range	35°C to 60°C
Safety Feature	Automatic hot water shut-off upon cold water failure (Anti-Scalding)
Manufacturer	FUZHUI

Feature	Detail
Item Weight	1.03 pounds
Package Dimensions	4.72 x 3.15 x 1.97 inches
Model Number	FUZHUI3qxecud79k-11



Image 6.1: Close-up of the G3/4 threaded connection at the bottom of the valve.

7. WARRANTY INFORMATION

Specific warranty details for the FUZHUI G3/4 Thermostatic Mixing Valve are not provided in the product information. Please refer to the retailer or manufacturer's official website for current warranty terms and conditions.

8. CUSTOMER SUPPORT

For technical assistance, installation queries, or troubleshooting beyond this manual, please contact FUZHUI customer support through their official channels. Contact information can typically be found on the product packaging or the manufacturer's website.