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Regun Regunmvrwq63xfu

Regun DN20 Thermostatic Water Mixing Valve Instruction Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Regun DN20 Thermostatic Water Mixing Valve. This valve is designed to regulate water temperature for domestic water heaters or floor heating systems, ensuring a stable water flow and preventing scalding. Please read these instructions carefully before installation and use.

2. Product Overview and Features

The Regun DN20 Thermostatic Water Mixing Valve is a three-way brass valve engineered for precise temperature control in various plumbing applications. Its robust construction and intelligent design ensure reliable performance.

Key Features:

- **Temperature Range:** Provides a stable mixed water temperature between 35 and 60 degrees Celsius.
- **Anti-Scald Safety:** Features an integrated safety device that automatically cuts off hot water supply if the cold water fails, preventing scalding.
- **High Stability:** Maintains a consistent water flow and temperature despite variations in incoming water temperature and pressure.
- **Versatile Application:** Suitable for domestic hot water systems and small underfloor heating circuits, with or without hot water circulation (HWC).
- **Material:** Constructed from durable brass for longevity and corrosion resistance.



Figure 2.1: General view of the Regun DN20 Thermostatic Water Mixing Valve.



Figure 2.2: Labeled diagram showing hot water inlet, cold water inlet, constant temperature water outlet, water flow direction, and protective cover for temperature adjustment.



Figure 2.3: Diagram illustrating the hot water inlet, cold water inlet, and warm water outlet, along with typical temperature ranges for each.

3. Safety Information

Adherence to safety guidelines is crucial during installation and operation to prevent injury or damage to the product and property.

- Always ensure the main water supply is turned off before attempting any installation, maintenance, or repair work.
- Consult a qualified plumber if you are unsure about any installation procedures or local plumbing codes.
- Wear appropriate personal protective equipment, such as gloves and eye protection, during installation.
- The valve's integrated safety mechanism is designed to prevent scalding by shutting off hot water if cold water supply fails. Do not tamper with this feature.
- Ensure all connections are secure and leak-free after installation.

4. Setup and Installation

Proper installation is essential for the optimal performance and safety of your thermostatic mixing valve.

Installation Steps:

1. **Prepare the Installation Area:** Turn off the main water supply. Drain the water lines to relieve pressure.
2. **Identify Connections:** The valve has three ports: a hot water inlet, a cold water inlet, and a mixed water outlet. Refer to Figure 2.2 for port identification. The valve features DN20 external threads.
3. **Connect Water Lines:** Connect the hot water supply to the designated hot water inlet, the cold water supply to the cold water inlet, and the mixed water line to the constant temperature water outlet. Ensure all connections are tight and sealed using appropriate plumbing tape or sealant.
4. **Mount the Valve:** Secure the valve in a suitable position, ensuring it is easily accessible for future adjustments

or maintenance.

5. **Check for Leaks:** Slowly turn on the main water supply and carefully inspect all connections for any signs of leaks. Tighten connections as necessary.



Figure 4.1: Example of the thermostatic mixing valve installed within a plumbing system.

Model Variations:

Please note that new and old models of the valve may be shipped randomly. Both types offer the same functionality and performance. Refer to Figure 4.2 for visual differences.



Figure 4.2: Comparison showing the front and back views of both new and old models of the valve.

5. Operating Instructions

The thermostatic mixing valve allows you to set a desired mixed water temperature within its operating range.

Temperature Adjustment:

1. The valve's temperature range is typically between 35°C and 60°C.
2. To adjust the temperature, first remove the protective cover located on the top of the valve.
3. Once the cover is removed, you will see an adjustment knob. Turn this knob to increase or decrease the desired mixed water temperature.
4. After setting the desired temperature, replace the protective cover.



Figure 5.1: Close-up view of the valve, showing the adjustment knob for temperature control.

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Video 5.1: Demonstration of removing the protective cover and adjusting the temperature knob on the thermostatic mixing valve.

6. Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your thermostatic mixing valve.

- **Periodic Inspection:** Regularly check all connections for any signs of leaks or corrosion. Address any issues promptly.
- **Cleaning:** Clean the external surfaces of the valve with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the finish.
- **Temperature Check:** Periodically verify that the mixed water temperature is consistent with your desired setting. If significant deviations occur, recalibration or inspection may be required.
- **Sediment Build-up:** In areas with hard water, sediment build-up can affect valve performance. If you notice reduced flow or inconsistent temperature, consult a professional for cleaning or descaling.

7. Troubleshooting

If you encounter issues with your thermostatic mixing valve, refer to the following common problems and their potential solutions.

Problem	Possible Cause	Solution
No hot water or water is too cold.	Hot water supply off, valve set too low, cold water pressure too high.	Check hot water supply, adjust valve temperature setting, ensure balanced water pressure.
Water is too hot.	Valve set too high, cold water supply off or restricted.	Adjust valve temperature setting, check cold water supply and pressure.
Inconsistent water temperature.	Unbalanced water pressure, sediment build-up, faulty thermostatic element.	Check and balance water pressure, clean valve, contact professional for inspection.
Leaks from connections.	Loose connections, damaged seals or threads.	Tighten connections, replace seals or use appropriate thread sealant.

8. Specifications

Specification	Detail
Brand	Regun
Model Number	Regunmvrwq63xfu
Material	Brass
External Finish	Brass
Connection Size	DN20 (20 mm)
Thread Type	Male External Thread
Number of Ports	3
Temperature Range	35 - 60 °C
Dimensions (L x W x H)	10 x 10 x 10 millimeters (approximate)
Compliance Standards	ASME B16.5, EN 1074, ASTM B62, EN 12164
Country of Origin	China



Figure 8.1: Detailed dimensions of the Regun DN20 Thermostatic Water Mixing Valve.

9. Warranty and Support

For warranty information, technical assistance, or to report any issues with your Regun DN20 Thermostatic Water Mixing Valve, please contact your original retailer or the manufacturer directly. Keep your proof of purchase for warranty claims.

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