

Caleffi 1 SWEAT THERMO

Caleffi 1" Sweat Thermo Mixing Valve with Checks: Instruction Manual

Model: 1 SWEAT THERMO

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Caleffi 1" Sweat Thermo Mixing Valve with Checks. Please read these instructions carefully before installation and retain them for future reference. This valve is designed to provide tempered water by mixing hot and cold water supplies, featuring integrated checks and a temperature gauge for precise control.

SAFETY INFORMATION

- Installation must be performed by a qualified professional in accordance with local plumbing codes and regulations.
- Ensure all water supplies are turned off before beginning installation.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Do not exceed the maximum operating pressure or temperature specified for this valve.
- This product contains brass, which may contain lead. Wash hands thoroughly after handling.

PRODUCT OVERVIEW

The Caleffi 1" Sweat Thermo Mixing Valve is constructed from low-lead brass and includes integrated check valves to prevent cross-flow. It is equipped with an adapter and a temperature gauge for monitoring the mixed water temperature. The valve's primary function is to deliver a constant, safe mixed water temperature at the outlet, protecting against scalding.



Figure 1: Caleffi 1" Sweat Thermo Mixing Valve. This image shows the brass valve body, the black temperature adjustment knob on top, the sweat connections on the sides, and the integrated temperature gauge at the bottom.

SPECIFICATIONS

Feature	Detail
Brand	Caleffi
Model Number	1 SWEAT THERMO
Material	Low Lead Brass
Inlet Connection Size	1 Inch
Inlet Connection Type	Sweat
Outlet Connection Type	NPT
Number of Ports	2
Item Weight	4 Pounds
UPC	642415171335

SETUP AND INSTALLATION

- Preparation:** Turn off the main water supply. Drain the hot and cold water lines. Ensure the installation area is clean and accessible.
- Orientation:** Install the mixing valve with the hot water inlet (marked with a red dot or 'H') connected to the hot water supply and the cold water inlet (marked with a blue dot or 'C') connected to the cold

water supply. The mixed water outlet should be connected to the fixture or distribution system.

- 3. **Connections:** This valve features 1-inch sweat connections. Solder the valve into the plumbing system using appropriate soldering techniques. Ensure a watertight seal without overheating the valve body. The integrated check valves prevent backflow.
- 4. **Temperature Gauge:** The valve includes an integrated temperature gauge. Ensure it is securely attached and visible for monitoring the mixed water temperature.
- 5. **System Flush:** After installation, slowly turn on the main water supply. Flush the system to remove any debris or air. Check all connections for leaks.

OPERATING INSTRUCTIONS

The Caleffi Thermo Mixing Valve is designed for automatic temperature regulation. Once installed, the valve will maintain a consistent mixed water temperature based on its setting.

- **Temperature Adjustment:** The black knob on top of the valve allows for temperature adjustment. Rotate the knob to increase or decrease the desired mixed water temperature. Settings typically range from 'MIN' to 'MAX' or numerical values (e.g., 1 to 7).
- **Monitoring:** Use the integrated temperature gauge to verify the actual mixed water temperature. Adjust the knob as needed to achieve the desired output temperature.
- **Initial Setup:** During initial setup, it is recommended to use a thermometer to verify the mixed water temperature at a tap downstream from the valve to ensure accurate calibration.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your mixing valve.

- **Annual Inspection:** Annually inspect the valve for any signs of leaks, corrosion, or damage.
- **Temperature Verification:** Periodically check the mixed water temperature using the integrated gauge and an external thermometer to ensure the valve is maintaining the set temperature accurately.
- **Cleaning:** If water quality issues are present (e.g., hard water), mineral deposits may accumulate. Consult a qualified plumber for professional cleaning or servicing if performance degrades.
- **Check Valve Function:** The integrated check valves are designed to prevent backflow. If backflow is suspected, consult a professional for inspection and repair.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inconsistent mixed water temperature	Fluctuating hot/cold supply pressure; mineral buildup; valve malfunction.	Check supply pressures. If persistent, consult a plumber for cleaning or replacement.
No hot or cold water flow	Supply valves closed; blockage in lines; check valve stuck.	Ensure supply valves are open. Inspect lines for blockages. Consult a plumber.
Water too hot or too cold	Incorrect temperature setting; valve calibration issue; insufficient hot/cold supply.	Adjust the temperature knob. Verify supply temperatures. Consult a plumber if issue persists.

Leaks at connections	Improperly soldered joints; damaged seals.	Turn off water supply and repair connections. Consult a plumber if necessary.
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WARRANTY INFORMATION

Specific warranty details for Caleffi products are typically provided with the product packaging or can be found on the official Caleffi website. Please refer to the documentation included with your purchase for the most accurate and up-to-date warranty terms and conditions. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT


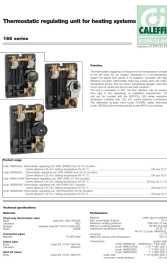
For technical assistance, replacement parts, or further inquiries, please contact Caleffi customer support. Visit the official Caleffi website for contact information, FAQs, and additional resources.

Website: www.caleffi.com

When contacting support, please have your product model number (1 SWEAT THERMO) and UPC (642415171335) available.

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Related Documents - 1 SWEAT THERMO

	<p>Zurn NR3XL Water Pressure Reducing Valve with Integral By-Pass Check Valve and Strainer</p> <p>Detailed specifications and installation guide for the Zurn NR3XL, a water pressure reducing valve designed for potable water lines. Features include an integral strainer, by-pass check valve, and low lead cast bronze body. Suitable for residential and commercial applications.</p>
	<p>Caleffi 166 Series Thermostatic Regulating Unit for Heating Systems Technical Specifications & Installation</p> <p>Detailed information on the Caleffi 166 series thermostatic regulating unit for heating systems, including functions, product range, technical specifications, dimensions, operating principles, installation, and accessories. Features high-efficiency circulators and precise temperature control for radiant floor panels and radiators.</p>



[Danfoss EcoTM Smart Thermostatic Radiator Valve Installation and Operation Guide](#)

Comprehensive guide to installing, operating, and troubleshooting the Danfoss EcoTM smart thermostatic radiator valve, including app integration, scheduling, and technical specifications for efficient home heating.



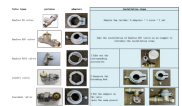
[Caleffi DYNAMICAL® Dynamic Thermostatic Radiator Valves 230-237 Series - Technical Specification](#)

Detailed technical specifications, operating principles, and application guide for Caleffi DYNAMICAL® series 230-237 dynamic thermostatic radiator valves, offering automatic balancing and pressure independence for efficient heating systems.



[Phylrich 1/2 Mini Thermostatic Valve Installation and Maintenance Guide](#)

Comprehensive installation, maintenance, and operation guide for Phylrich 1/2 Mini Thermostatic Valve models (1-115, 1-116, 1-138, 1-117, 1-132), featuring volume control and diverter options.



[TRV Valve Adapters Installation Guide: Compatibility and Fitting Instructions](#)

A comprehensive guide for installing Thermostatic Radiator Valve (TRV) adapters. Covers compatibility with Danfoss RA, RAV, RAVL, Caleffi, Giacomini, and M28 valves, along with step-by-step fitting instructions.