

ESBE VTA 323 KF 22 Mm

ESBE VTA 323 KF 22 Mm Thermostatic Mixing Valve Instruction Manual

Model: VTA 323 KF 22 Mm | Brand: ESBE

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ESBE VTA 323 KF 22 Mm Thermostatic Mixing Valve. Please read these instructions carefully before installation and retain them for future reference.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation must be performed by a qualified professional in accordance with local regulations and standards.
- Ensure the main water supply is turned off before commencing any installation or maintenance work.
- Do not modify the valve or its components. Use only genuine ESBE spare parts.
- Protect the valve from freezing temperatures.
- Always wear appropriate personal protective equipment (PPE) during installation and maintenance.

3. PRODUCT OVERVIEW

The ESBE VTA 323 KF 22 Mm is a thermostatic mixing valve designed for domestic hot water applications. It ensures a constant and safe mixed water temperature at the outlet, protecting against scalding and optimizing energy consumption.



Figure 1: ESBE VTA 323 KF 22 Mm Thermostatic Mixing Valve. This image displays the brass body of the valve with a dark grey plastic top housing. The ESBE logo is visible on the front, along with red and blue arrows indicating hot and cold water inlets and a mixed water outlet.

3.1 Key Components

- **Valve Body:** Brass construction for durability.
- **Thermostatic Element:** Automatically adjusts the mixing ratio of hot and cold water.
- **Inlets:** Clearly marked for hot (red) and cold (blue) water.
- **Outlet:** For mixed water supply.
- **Adjustment Knob/Cap:** For setting the desired mixed water temperature (under the dark grey cap).

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the ESBE VTA 323 KF 22 Mm valve:

1. **Preparation:** Turn off the main water supply. Drain the system to relieve pressure.
2. **Positioning:** Install the valve in an easily accessible location for future maintenance. Ensure the flow direction arrows on the valve body match the system's water flow. The hot water inlet is typically marked with red, and the cold water inlet with blue.
3. **Connections:** Connect the hot water supply to the designated hot inlet, and the cold water supply to the cold inlet. Connect the mixed water outlet to the distribution system. Use appropriate sealing materials (e.g., PTFE tape or hemp) on threaded connections to prevent leaks. The 22 mm connections are designed for standard plumbing.
4. **Leak Check:** Once all connections are secure, slowly open the main water supply and check for any leaks. Tighten connections as necessary.
5. **Initial Temperature Setting:** Refer to the "Operating Instructions" section to set the desired mixed water temperature.

5. OPERATING INSTRUCTIONS

The ESBE VTA 323 KF 22 Mm valve is largely automatic once the desired temperature is set. The primary operation involves setting and, if necessary, adjusting the mixed water temperature.

1. **Accessing Adjustment:** The temperature adjustment mechanism is typically located under the dark grey protective cap on top of the valve. Carefully remove this cap.
2. **Setting Temperature:** Rotate the adjustment knob (or screw) to increase or decrease the mixed water temperature. Turn towards the 'hot' indicator (often red) to increase temperature, and towards the 'cold' indicator (often blue) to decrease it.
3. **Verification:** Use a thermometer to verify the mixed water temperature at a tap downstream from the valve. Adjust as needed until the desired safe temperature (e.g., 38-45°C for domestic use) is achieved.
4. **Securing Setting:** Once the desired temperature is set, replace the protective cap.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ESBE VTA 323 KF 22 Mm valve.

- **Annual Inspection:** Annually inspect the valve for any signs of leaks, corrosion, or damage.
- **Temperature Check:** Periodically verify the mixed water temperature with a thermometer to ensure it remains at the desired setting. Recalibrate if necessary.
- **Cleaning:** In areas with hard water, mineral deposits may accumulate. If the valve's performance degrades (e.g., inconsistent temperature), it may require cleaning. This typically involves disassembling the valve, cleaning the internal components (especially the thermostatic element) with a suitable descaling solution, and reassembling it. This procedure should ideally be performed by a qualified technician.
- **Spare Parts:** If any components need replacement, use only genuine ESBE spare parts.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inconsistent mixed water temperature	Fluctuating inlet pressures; clogged thermostatic element; sediment buildup.	Check system pressures. Clean or descale the thermostatic element. Inspect for sediment.

Problem	Possible Cause	Solution
No hot water or only cold water	Hot water supply failure; valve stuck in cold position; severe blockage.	Verify hot water supply. Inspect and clean the valve internals.
No cold water or only hot water	Cold water supply failure; valve stuck in hot position; severe blockage.	Verify cold water supply. Inspect and clean the valve internals.
Water leakage from valve	Loose connections; damaged seals/gaskets; cracked valve body.	Tighten connections. Replace seals/gaskets. If valve body is cracked, replace the entire valve.

If you are unable to resolve an issue, contact a qualified plumber or ESBE customer support.

8. SPECIFICATIONS


- **Manufacturer:** ESBE
- **Model:** VTA 323 KF 22 Mm
- **Item Weight:** 1 kg
- **ASIN:** B07L25C8HD
- **First Available Date:** January 15, 2020
- **Connection Size:** 22 mm (KF refers to compression fittings)
- *Note: Specific temperature range and flow rates are typically detailed in the product's technical data sheet.*


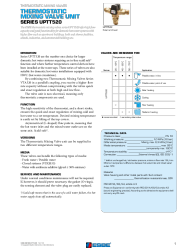



9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official ESBE website. For technical support or inquiries regarding spare parts, please contact your local ESBE distributor or customer service department.

ESBE Contact Information: Please visit www.esbe.eu for regional contact details.

Related Documents - VTA 323 KF 22 Mm

	<p>ESBE VTF320 Thermostatic Mixing Valve Installation and Service Guide</p> <p>Comprehensive guide for installing, adjusting temperature, and maintaining the ESBE VTF320 thermostatic mixing valve. Includes safety instructions and troubleshooting for hard water conditions.</p>
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 <p>Гарантия безопасности, надежности и прочности. Возможность.</p>	<p>Термостатические смесительные клапаны ESBE: Комфорт, Надежность и Безопасность</p> <p>Термостатические смесительные клапаны ESBE обеспечивают комфорт, надежность и безопасность в системах горячего водоснабжения, напольного отопления и солнечных системах. Узнайте о защите от легионеллы и ожогов.</p>
 <p>Thermostatic Mixing Valve Unit ESBE UPTT520</p>	<p>ESBE UPTT520 Thermostatic Mixing Valve Unit for High Flow Domestic Hot Water Systems</p> <p>Discover the ESBE UPTT520 series thermostatic mixing valve unit, offering high flow capacity and precise temperature control for domestic hot water systems in apartment buildings, schools, and commercial facilities. Learn about its operation, function, technical specifications, and applications.</p>
 <p>Unidad de Válvula Termostática ESBE UPTT520</p>	<p>ESBE UPTT520 Thermostatic Mixing Valve Series - Technical Data and Application Guide</p> <p>Detailed information on the ESBE UPTT520 series thermostatic mixing valves, designed for high-demand domestic hot water systems. Covers operation, features, technical specifications, materials, and installation examples for residential, commercial, and industrial applications. Includes flow capacity diagrams and safety features.</p>
 <p>ESBE VTG140</p>	<p>ESBE VTG140 Thermostatic Mixing Valve: Installation & Maintenance Guide</p> <p>This guide provides essential information for the installation, temperature adjustment, and maintenance of the ESBE VTG140 thermostatic mixing valve. It covers safety precautions, connection diagrams, and troubleshooting tips for optimal performance. Visit www.esbe.se for more information.</p>
 <p>ESBE VTA950</p>	<p>ESBE Series VTA950 Thermostatic Mixing Valve Installation and Maintenance Guide</p> <p>Comprehensive installation, adjustment, and maintenance guide for the ESBE Series VTA950 thermostatic mixing valve. This document provides essential information for qualified personnel to ensure proper setup, optimal performance, and long-term reliability of the product.</p>