EMKE HTRV-DEVC

EMKE Thermostatic Radiator Valve Set Instruction Manual

Model: HTRV-DEVC

1. Introduction

Thank you for choosing the EMKE Thermostatic Radiator Valve Set. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new valve set. Please read these instructions carefully before installation and retain them for future reference.

2. Safety Information

- Installation should only be performed by a qualified professional or a person with appropriate technical knowledge.
- Ensure the heating system is depressurized and cooled down before attempting any installation or maintenance.
- Always use appropriate tools and personal protective equipment during installation.
- Do not modify the product in any way, as this may void the warranty and create safety hazards.
- Keep packaging materials out of reach of children to prevent suffocation hazards.

3. Package Contents

The EMKE Thermostatic Radiator Valve Set package typically includes the following components:

- Multiblock Thermostatic Radiator Valve (2 pieces, depending on the set purchased)
- Thermostatic Head(s)
- Assembly Manual (German, other languages may be available online)

Figure 3.1: Exploded view showing the individual components of the EMKE thermostatic valve set, including the main valve body, connection nuts, seals, and the thermostatic head.

4. Product Overview

The EMKE Thermostatic Radiator Valve Set is designed for efficient control of heating systems. It features a high-quality coating process and is constructed from durable brass material. The valve is suitable for two-pipe connections with 50mm central sockets and G 1/2" connection threads.

4.1. Valve Types

This valve set is available in both angle and straight-through configurations, making it versatile for various installation scenarios, whether pipes emerge from the wall or the floor. It is compatible with EMKE radiators and towel rails.

Figure 4.1: Illustration of the angle (Eckform) and straight-through (Durchgangs-form) valve configurations, demonstrating their application with radiators and towel rails.

4.2. Color Options

The EMKE Multiblock Set for radiators is available in several finishes to match various interior designs. Common options include Chrome, Anthracite, Black, and White.

Figure 4.2: Various color options for the EMKE Multiblock Set, including Chrome, Anthracite, Black, and White, allowing for aesthetic integration with different radiator styles.

5. Installation

Proper installation is crucial for the optimal performance of your thermostatic valve set. Follow these general guidelines:

1. **Prepare the System:** Ensure the heating system is turned off, depressurized, and completely drained before beginning installation.
2. **Remove Old Valve (if applicable):** Carefully remove any existing radiator valve, ensuring no water spillage.
3. **Pipe Compatibility:** This valve is suitable for Φ15 mm copper pipes and Φ16 mm multilayer composite pipes. If using Φ15 mm copper pipes, contact EMKE for the appropriate metal adapter.
4. **Connect the Valve:** Attach the multiblock valve to the radiator and the heating pipes. Ensure all connections are tight and sealed to prevent leaks. The valve supports connections for pipes coming from the floor or the wall.
5. **Install Thermostatic Head:** Once the valve body is securely installed, attach the thermostatic head by aligning it and tightening the retaining ring.
6. **Refill and Bleed:** After installation, refill the heating system, bleed any air from the radiators, and check for leaks.

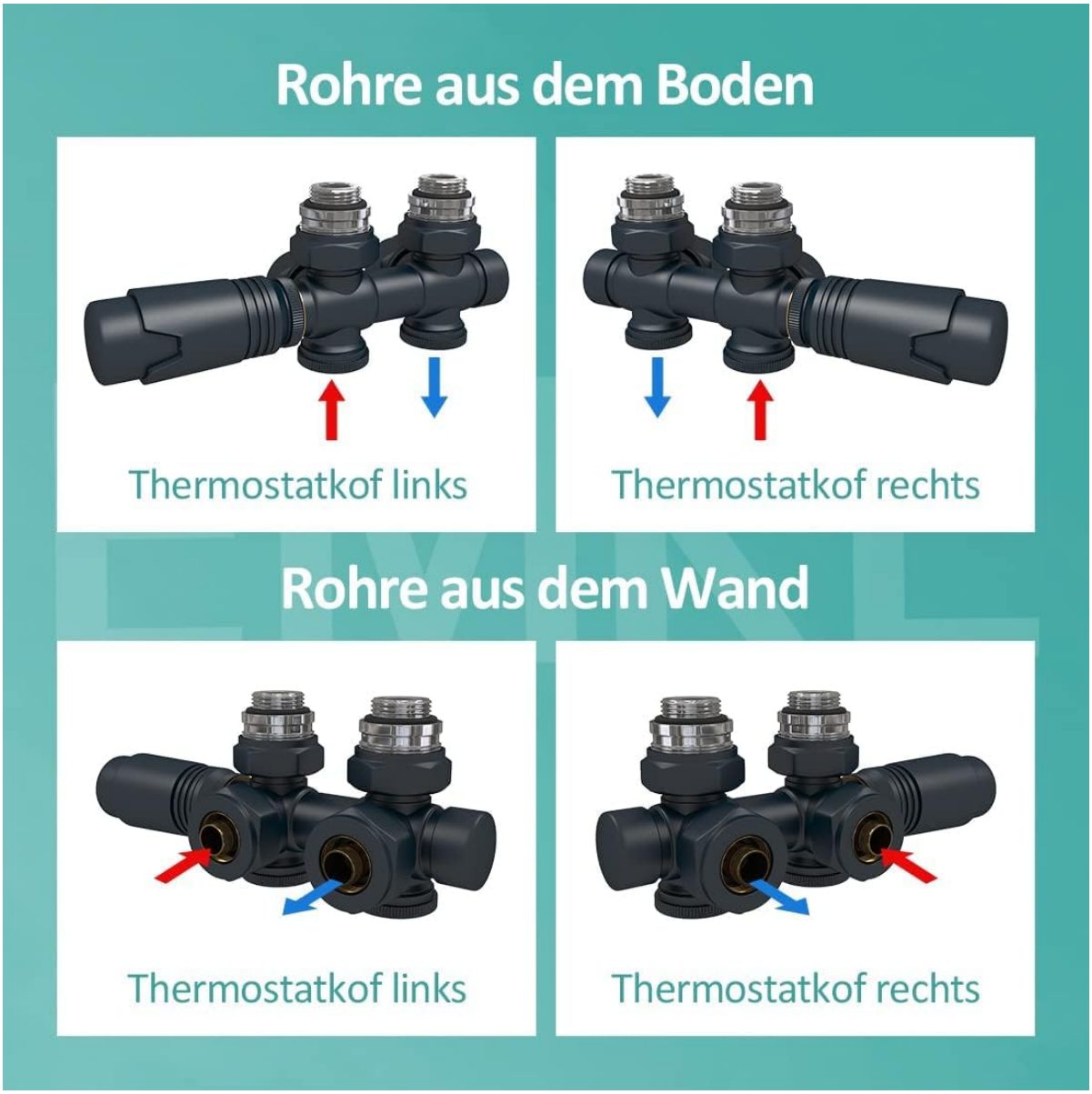

Figure 5.1: Installation diagrams illustrating the correct orientation for connecting the thermostatic valve when pipes originate from the floor (Rohre aus dem Boden) or from the wall (Rohre aus dem Wand), indicating left and right thermostatic head positions.

6. Operation

The thermostatic head allows for easy and precise temperature control in the room. It features 7 adjustable settings to regulate the heat output of your radiator.

1. **Adjusting Temperature:** Rotate the thermostatic head to select your desired temperature setting. The head is marked with numbers or symbols corresponding to different temperature ranges.
2. **Temperature Settings:** The 7 adjustable settings typically correspond to specific temperature ranges. Refer to the diagram below for common settings.
3. **Frost Protection:** The '*' (snowflake) setting usually activates a frost protection mode, maintaining a minimum temperature (e.g., 7°C) to prevent pipes from freezing.

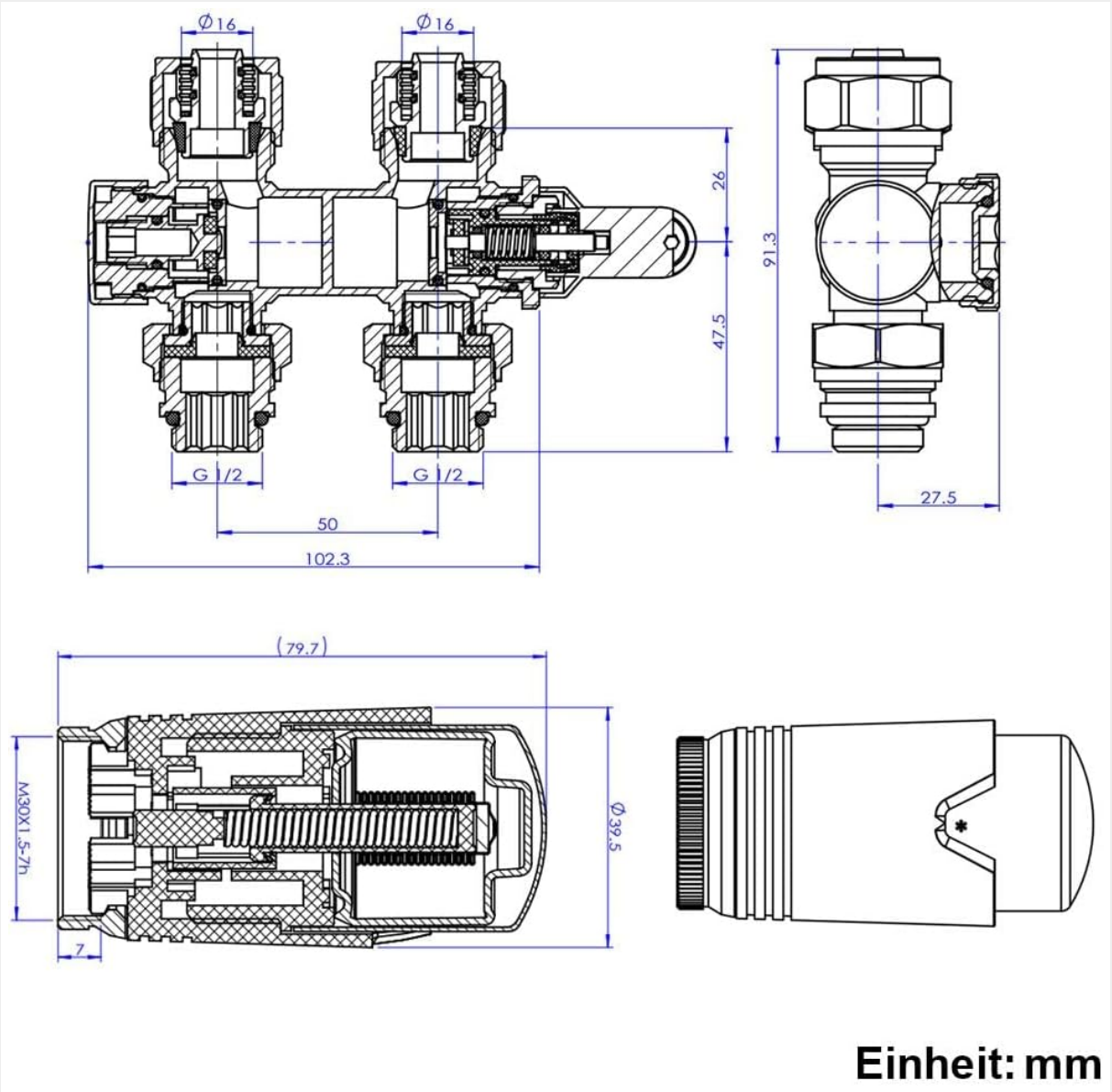

Figure 6.1: The thermostatic head with its adjustable settings. The table below the image shows the typical temperature ranges for each setting: '*' for 7°C (frost protection), '1' for 12°C, '2' for 14°C, '3' for 20°C, '4' for 24°C, and '5' for 28°C.

7. Maintenance

The EMKE Thermostatic Radiator Valve Set requires minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Clean the exterior of the valve and thermostatic head with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish.
- **Regular Checks:** Periodically check for any signs of leaks around the connections. Address any leaks immediately.
- **Valve Movement:** If the valve is not used for extended periods (e.g., during summer), it is advisable to turn the thermostatic head through its full range of motion a few times a year to prevent the valve pin from sticking.

8. Troubleshooting

If you encounter issues with your thermostatic radiator valve, consider the following common problems and solutions:

- **Radiator Not Heating:**

- Check if the thermostatic head is set to a sufficiently high temperature.
- Ensure the heating system is operational and the boiler is functioning correctly.
- Bleed the radiator to remove any trapped air.
- The valve pin might be stuck. Remove the thermostatic head and gently press the pin to ensure it moves freely.

- **Radiator Too Hot/Cold:**
  - Adjust the thermostatic head to a different setting.
  - Ensure the thermostatic head is not covered by curtains or furniture, which can affect its temperature sensing.

- **Leaks Around Connections:**
  - Tighten the connection nuts.
  - If tightening does not resolve the issue, the seals may need to be replaced.

If these steps do not resolve the issue, please contact EMKE customer support for further assistance.

9. Specifications

Feature	Detail
Brand	EMKE
Model Number	HTRV-DEVC
Product Dimensions (L x W x H)	18.5 x 15 x 14 cm
Product Weight	1.8 kilograms
Material	Brass
Connection Thread	G 1/2"
Pipe Compatibility	Φ15 mm copper pipes, Φ16 mm multilayer composite pipes
Thermostatic Head Settings	7 adjustable gears (including frost protection)
Energy Type	Hot Water
Batteries Required	No
Country of Origin	China

Figure 9.1: Detailed technical drawing of the EMKE thermostatic valve, illustrating its dimensions and connection points in millimeters.

10. Support

For any questions regarding the use of the product, accessories, or if you require a metal adapter for Φ15 mm pipes, please do not hesitate to contact EMKE customer support. Our team is available to provide detailed answers and assistance, including replacements if necessary.
Please refer to the contact information provided with your purchase or visit the official EMKE website for support details.