

***Danfoss***  
RTD-CB Back Flow  
Restrictor



## Danfoss RTD-CB Back Flow Restrictor User Guide

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**Danfoss RTD-CB Back Flow Restrictor**



## Introduction

The Danfoss RTD-CB Back Flow Restrictor is an essential component designed for use in one-pipe heating systems, particularly when thermostatic radiator valves (TRVs) like the RTD-CB series are installed. Its purpose is to maintain correct flow direction and avoid unwanted backflow through the radiator, which helps ensure efficient heating and balanced system operation.

## Overview

- **Purpose:** Prevents reverse flow through radiators in one-pipe systems.
- **Application:** Designed for use with RTD-CB valves in heating systems.
- **Material:** Typically made from durable brass or stainless steel for corrosion resistance.
- **Compatibility:** Specifically suited for Danfoss TRVs and compatible radiator setups.
- **Installation Position:** Installed on the return pipe directly after the radiator.

## Specifications

- Model: 013R9467
- Product Name: RTD-CB Back Flow Restrictor
- Part Numbers: 013L1925 (DN 15), 013L1926 (DN 20)
- Model Type: DKCD
- Code: VICH202
- Dimensions:
  - DN 15: A=30mm, B=27mm
  - DN 20: A=37mm, B=32mm

## Installation Instructions

### Tools Needed

- Adjustable wrench or spanner
- PTFE tape (if applicable)
- Pipe cutter (if adjustments are needed)
- Bucket or towel (to catch any water drips)

## Step-by-Step Guide

### 1. Turn Off the Heating System:

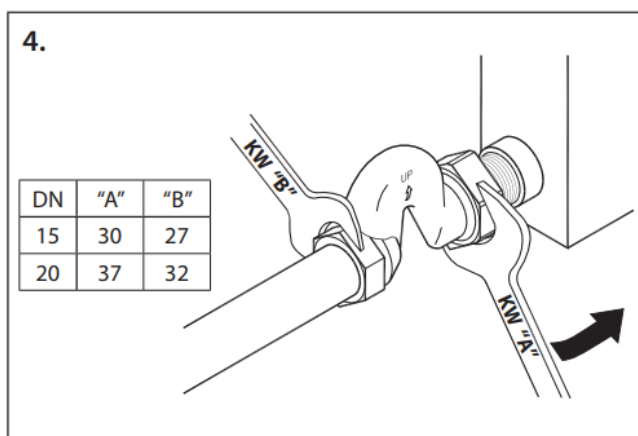
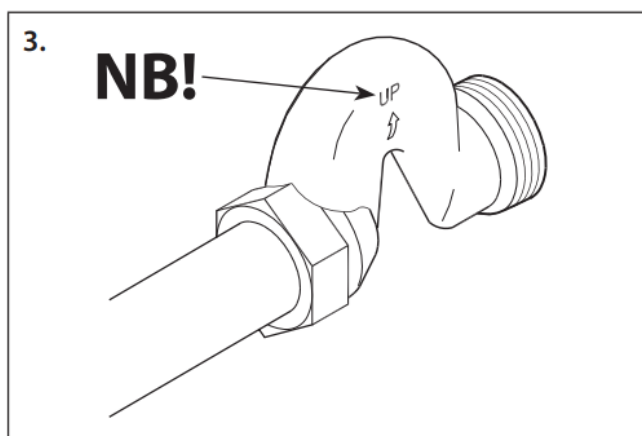
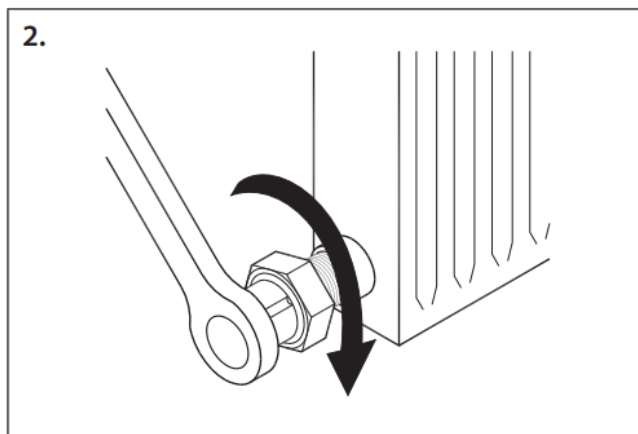
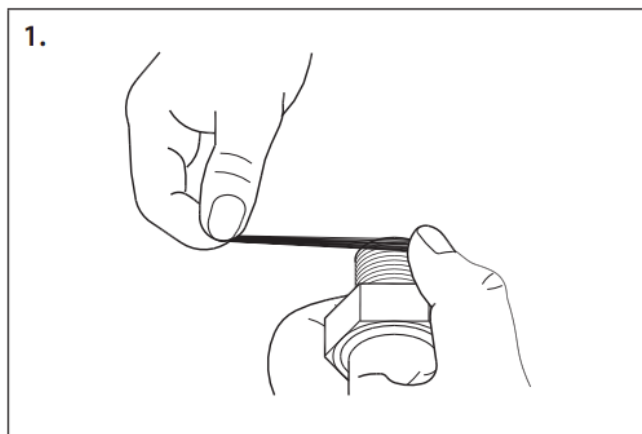
Make sure the central heating system is turned off and cooled down.

### 2. Drain the Radiator (if necessary):

Use the bleed valve or radiator drain to relieve any pressure and drain water from the radiator.

### 3. Locate the Return Pipe:

Identify the return side of the radiator – typically the cooler pipe when the system is running.



### 4. Install the Restrictor:

- Remove the existing connector if needed.
- Insert the backflow restrictor into the valve or pipe fitting, ensuring the flow direction arrow on the restrictor matches the actual water flow.
- Use PTFE tape on threaded joints to prevent leaks.
- Tighten using a spanner or adjustable wrench.

### 5. Check for Leaks:

Once installed, reopen the radiator valves and refill the system. Look for any leaks around the new restrictor.

### 6. Bleed the Radiator:

Bleed out any trapped air using the radiator bleed key.

### 7. Test the System:

Turn the heating system back on and ensure proper flow and function.

### Tips

- Always consult the system layout or heating engineer if unsure of flow direction.
- If you're working on a sealed system, remember to repressurize it after installation.

### Product Usage Instructions

1. Before installing, ensure the backflow restrictor is compatible with your system.
2. Turn off the water supply to the system where the backflow restrictor will be installed.
3. Identify the appropriate size based on your system requirements (DN 15 or DN 20).
4. Place the backflow restrictor in line with the water flow direction indicated by the arrow on the device.
5. Tighten the connections securely to prevent leaks.
6. Turn on the water supply and check for any leaks. Adjust connections if necessary.

## Frequently Asked Questions

**Q: Can the backflow restrictor be used for hot water systems?**

**A: The backflow restrictor is designed for cold water systems only. Do not use with hot water.**

**Q: How often should the backflow restrictor be checked for proper functioning?**

**A: It is recommended to check the backflow restrictor annually or whenever there is a noticeable decrease in water pressure.**

**Q: Can the backflow restrictor be installed vertically or horizontally?**

**A: The backflow restrictor can be installed in both vertical and horizontal positions as long as the flow direction is maintained.**

## Documents / Resources



[Danfoss RTD-CB Back Flow Restrictor](#) [pdf] User Guide

RTD-CB Back Flow Restrictor, RTD-CB, Back Flow Restrictor, Flow Restrictor, Restrictor

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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