Danfoss RAS-D2 Radiator Thermostat Combi Pack

Danfoss RAS-D2 Radiator Thermostat Combi Pack Instructions

Contents

Danfoss RAS-D2 Radiator Thermostat Combi Pack

Product Information

Specifications

- **Product Name:** Radiator Thermostat RAS-D2 Combi Pack / Radiator Pack
- **Valve Type:** Bi-directional straight valve
- **Flow-Selectable Feature:** Yes
- **Maximum Pressure Drop:** 0.45 bar
- **Sensor Included:** Yes
- **Sensor Options:** Chrome (013G6170) or Chrome/RAL 9016 (013G6176)
- **Valve Included:** RA-FS Chrome (013G6282)
- **Lockshield Valve Included in Codes:** 013G6018 and 013G6019

Product Usage Instructions

Installation of Valve:
The valve is a bi-directional valve and can be installed horizontally or vertically in either the flow or return pipe. To eliminate the risk of a water hammer, use the built-in flow direction selection feature. Follow the steps below:

1. Close all radiator valves by turning the valve cover cap clockwise and leaving the system to cool.
2. Start the boiler/heating.
3. Open one valve and determine the flow direction. Which pipe heats first?
4. Remove the cap and turn the setting ring according to the drawings. The setting ring is turned by hand only.
5. Repeat steps 3 and 4 until all valves have been set correctly.
6. Fit the sensor or temporarily refit the valve cap.

Fitting the Sensor:

1. Remove the cap from the valve and turn the sensor to the desired position.

2. Press the sensor firmly onto the valve. For horizontal sensors, ensure that the scale pointer is at the top. For vertical sensors, ensure that the scale pointer is at the front.
3. While holding the sensor firmly on the valve, secure the connection by tightening the Allen screw using the enclosed key.
4. Set the desired room temperature by turning the head of the sensor.

Note:
Do not cover the thermostat with thick curtains, furniture, etc. The sensor must be exposed to the surrounding temperature. Alternatively, use a thermostat with a remote sensor.

Removing the Sensor:
To remove the sensor from the valve, loosen the Allen screw.

FAQ:

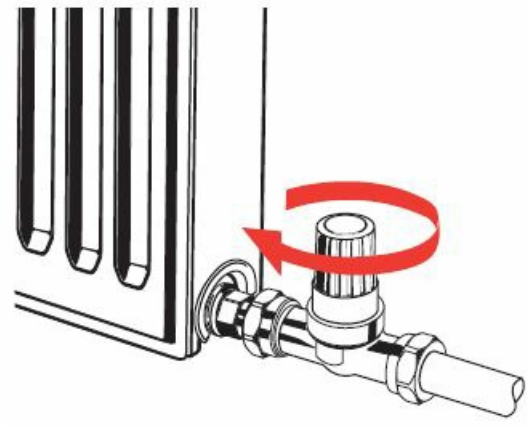
What is a thermostatic radiator valve (TRV)?
A thermostatic radiator valve (TRV) is a device that controls the flow of hot water into a radiator to regulate its temperature. It allows users to set their desired room temperature and automatically adjusts the flow of water to maintain that temperature.

Radiator Thermostat RAS-D2 Combi Pack / Radiator Pack
BI-DIRECTIONAL STRAIGHT VALVE WITH FLOW-SELECTABLE FEATURE

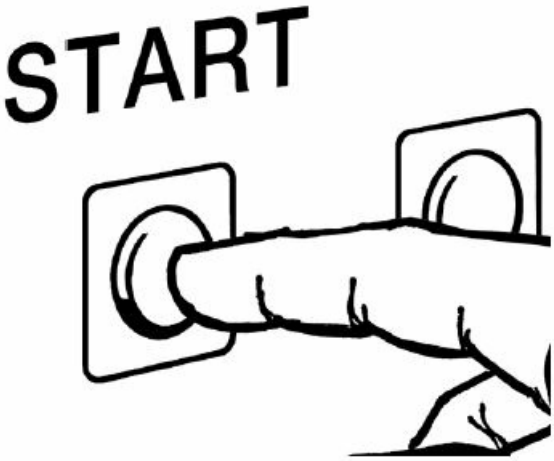
Installation of valve

The valve is a bi-directional valve * and can be installed horizontally or vertically in either the flow or return pipe. A built-in flow direction selection feature can be used to eliminate the risk of a water hammer. We recommend using an at-facing adjustable spanner and a soft cloth to protect the chrome surfaces when tightening up the connections.

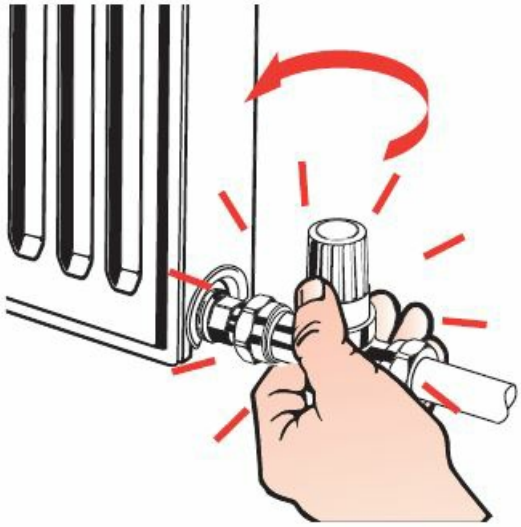
1. Close all radiator valves by turning the valve cover cap clockwise. Leave the system to cool.



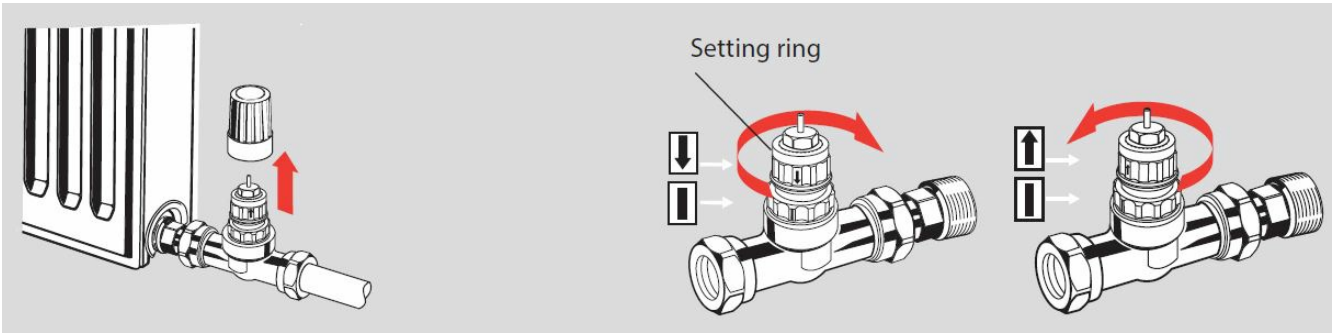
2. Start boiler/heating.



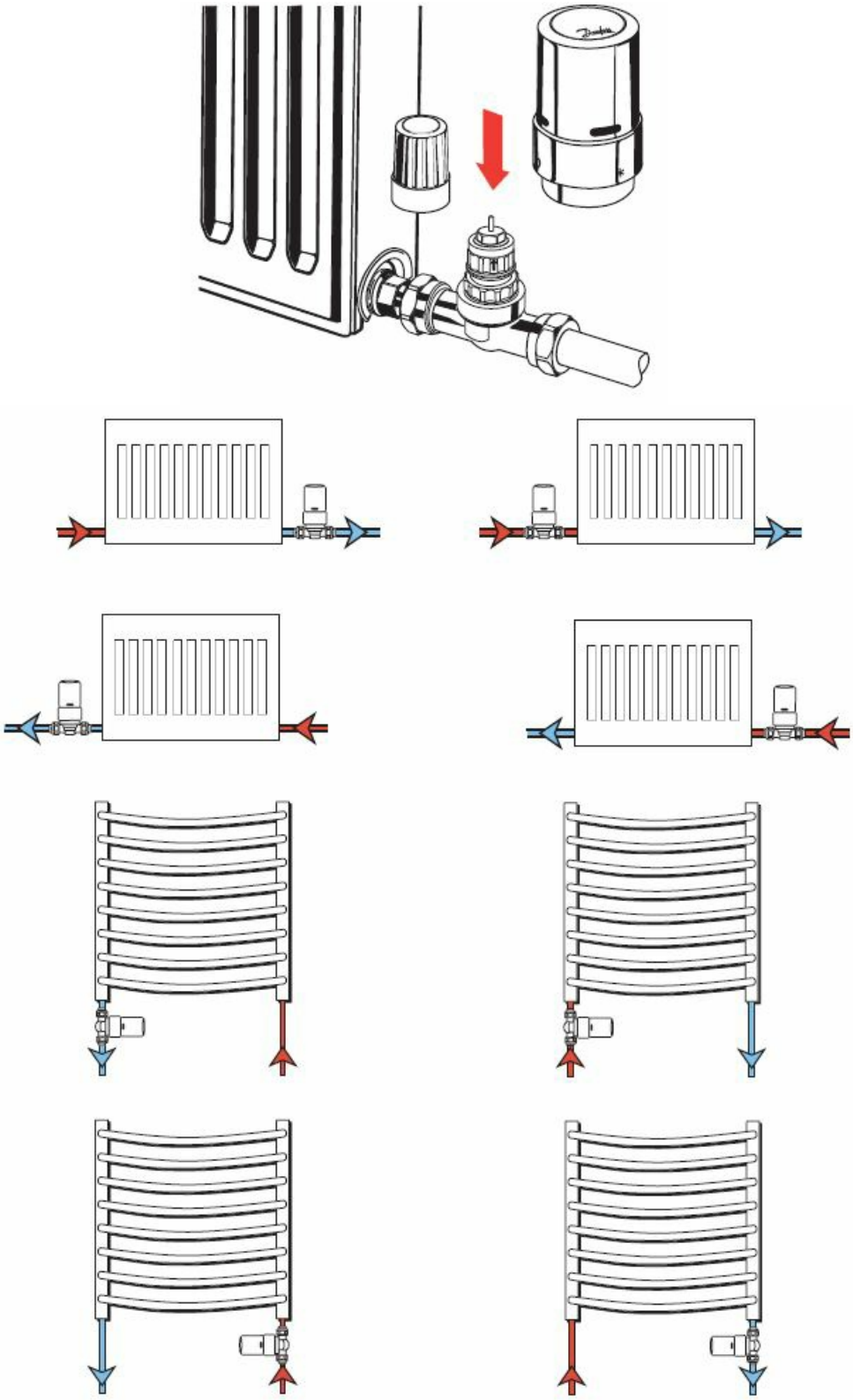
3. Open one valve and determine flow direction. Which pipe heats first?



4. Remove the cap and turn the setting ring according to the drawings – the setting ring is turned by hand only.

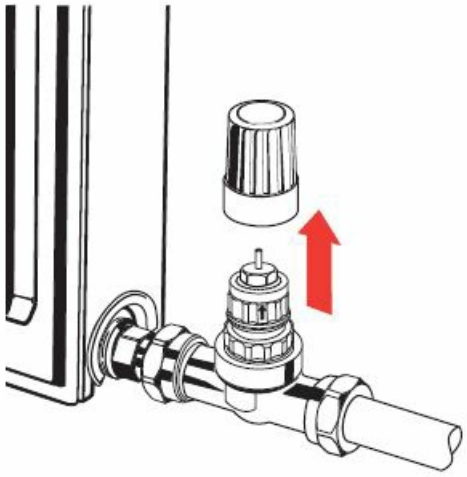


5. Repeat step 3 and 4 until all valves have been set correctly. The sensor may now be fitted or the valve cap temporarily refitted.
    - Maximum pressure drop should not exceed 0.45 bar

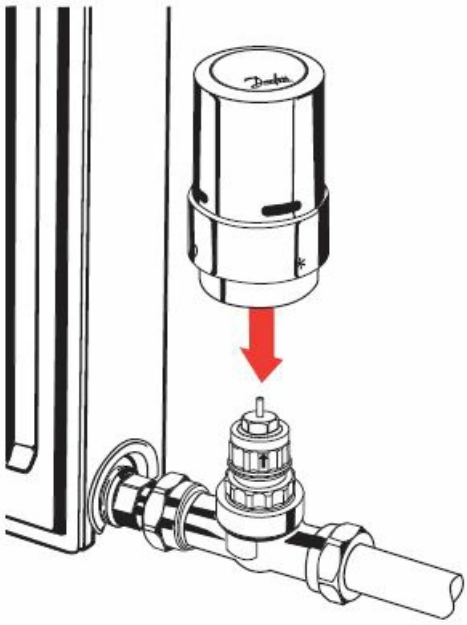


Fitting the Sensor

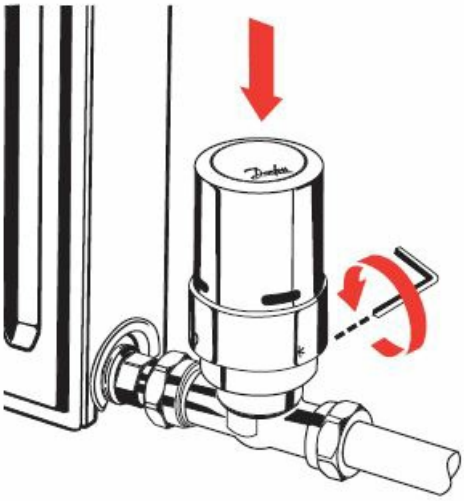
1. Remove the cap from the valve and turn the sensor to



2. Press the sensor firmly onto the valve. Sensor horizontal: ensuring that the scale pointer is at the top. Sensor vertical: ensuring that the scale pointer is at the front.



3. Whilst holding the sensor firmly on the valve secure the connection by tightening the Allen screw using the enclosed key.
4. Set desired room temperature.



Removing the Sensor

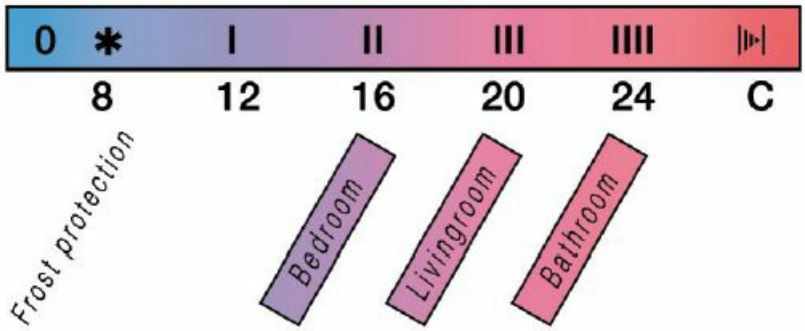
- Loosen the Allen screw (3).

- The sensor can now be separated from the valve.

User Guide

Setting the desired room temperatures

The desired room temperature is set by turning the head. The temperatures obtained are approximate:



- **Do not cover the thermostat**
  The thermostat opens and closes as determined by the temperature around it. Therefore the sensor must never be hidden behind thick curtains, furniture, etc. Alternatively, a thermostat with a remote sensor should be used.
- **Positive SHUT-OFF feature:**
  The head can be turned past the * setting (a slight resistance will be felt) to setting “0” at which point the water flow is shut off completely. After also shutting the lockshield valve the radiator may be drained and removed for maintenance and decoration purposes.

Lockshield valve RLV-D is included in codes: Code no’s 013G6018 and 013G6019

This package contains

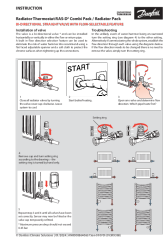
Sensor Chrome:
013G6170 or – Chrome/RAL 9016: 013G6176 and valve RA-FS – Chrome: 013G6282

What is a thermostatic radiator valve

An explanation for householders.
TRVs sense the air temperature around them and regulate the flow of water through the radiator to which they are fitted. They do not control the boiler. They should be set at a level that gives you the room temperature you want. These settings may have to be different in each room, and you should set the TRVs to suit each room and then leave them to do their job. Turning a TRV to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the boiler size and setting, and the radiator size. Turning a TRV to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

TRVs need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. TRVs cannot turn off the boiler when the whole house is warm. To do that, you will need a room thermostat as well. The radiator in the room with the room thermostat should not normally have a TRV, but, if it does, keep the TRV on the maximum setting and adjust the room thermostat as explained in the instructions.

Documents / Resources

	Danfoss RAS-D2 Radiator Thermostat Combi Pack [pdf] Instructions RAS-D2 Radiator Thermostat Combi Pack, RAS-D2, Radiator Thermostat Combi Pack, Thermostat Combi Pack, Combi Pack, Pack

References

- User Manual