

**RA 2000  
IMPROVE COMFORT  
AND EFFICIENCY!**

THE WORLD'S FIRST RADIATOR THERMOSTAT  
WAS PRODUCED BY DANFOSS IN 1943.

*Danfoss*



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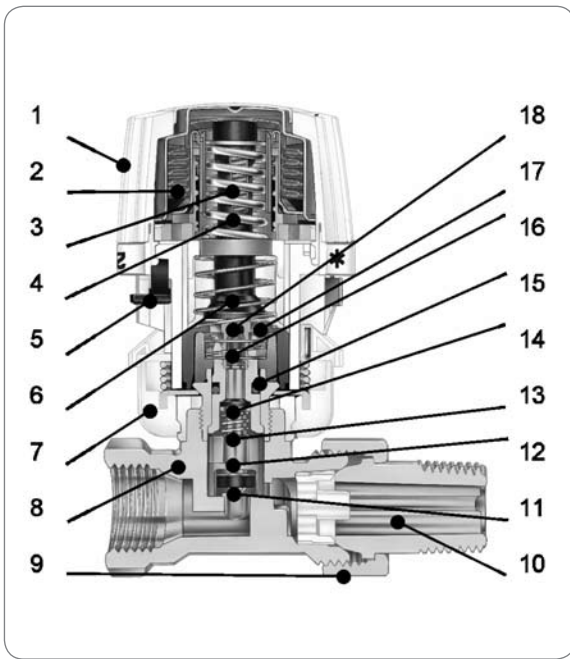
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## **Thermostatic Radiator Valves**

For Use On Hot Water One-Pipe & Two-Pipe  
Low Pressure Steam Systems

[www.na.heating.danfoss.com](http://www.na.heating.danfoss.com)



## No. Description

1. Operator setting dial (ABS)
2. Vapor charged bellows
3. Safety spring (steel)
4. Adjustment spring (steel)
5. Locking/limiting pin (steel)
6. Pressure spindle (plastic)
7. Snap-on mounting ring
8. Valve body (nickel plated brass)
9. Union nut (nickel plated brass)
10. Tailpiece (nickel plated brass)
11. Valve disc (EPDM)
12. Valve spindle (brass)
13. Valve spring (stainless steel)
14. Back seat washer (EPDM)
15. Valve bonnet (brass)
16. Pressure pin (stainless steel)
17. Packing o-ring (EPDM)
18. Packing gland (DRZ brass)

**RA 2000** Thermostatic Radiator Valves regulate the flow of hot water or steam through free-standing radiators, baseboards or convectors in hot water and two-pipe low pressure steam systems.

The **RA 2000** thermostatic operator consists of a saturated vapor charged bellows and a setting dial. The dial is set to the position equal to the desired temperature. When the ambient temperature lowers, the pressure from the bellows will reduce, allowing the valve to open. A rise of temperature increases the pressure in the bellows closing the valve. The balanced pressures between the adjustment spring and the bellows ensure a smooth and modulating operation of the valve.

## Technical Specifications

### Hydronic Hot Water Systems

Maximum Temperature:	250°F
Maximum Static Pressure:	145 psi
Maximum Test Pressure:	232 psi
Max. Diff. Pressure (water):	15 psi
Max. Sensor Temperature:	140°F
Adjustable Temp. Range:	45 - 86°F (7 - 30°C)

### Two-Pipe Low-Pressure Steam Systems

Maximum Temperature:	250°F
Maximum Test Pressure:	232psig
Maximum Steam Pressure:	15psig
Maximum Sensor Temperature:	140°F
Adjustable Temp. Range:	45 - 86 °F (7 - 30 °C)

**CONFORMS TO  
ASHRAE / ANSI  
STANDARD 102 - 1983**

## Features

- Fast acting modulating control of the space temperature through a patented vapor charge
- Optional theft protection device
- "Snap-action" mechanism that allows easy installation and removal
- Valves are fitted with a packing gland assembly that is replaceable while the system is in operation
- Sturdy EPDM rubber valve disc
- Elegant design
- Tradition of quality and expertise since 1943

When Danfoss **invented** the first **radiator thermostat in 1943**, we also introduced a brand new way of thinking about temperature control, and this has set the standard ever since.

Today, Danfoss, the leading, global supplier of TRVs, is the only manufacturer in the world using revolutionary **gas filled operators**. Gas reacts faster on changing temperature than other fluids, thus room temperature is "locked" within the desired parameters, the "free" heat distribution is increased and more energy is saved. Furthermore, the gas maintains its regulating attributes throughout the lifetime of a thermostat allowing its trouble free operation.

Our commitment to continuous product improvement ensures that TRVs meet most challenging market demands for function and **elegant design**. Also, the installation process could not get any simpler! The "**snap-action**" **mechanism** allows standard operators (non tamper proof models) to be **easily installed** and removed from the valve body **without tools**, and an audible "click" clearly indicates that the operators have been installed correctly.

Danfoss RA2000 TRVs are engineered, tested and manufactured for top quality... Quality you can rely on upon **for all your residential, commercial, or institutional hydronic heating system** needs.

