



T6102 series

Thera-RTL

Return temperatur limiter

APPLICATION

The Thera-RTL limits the return flow temperature of radiators or, in case of combined radiator/underfloor heating systems, the return flow temperature of underfloor heating loops.

The system designer has to make sure that the supply temperature is suitable for the floor design of the underfloor heating system. A too high supply temperature may result in damage to the floor.

SPECIAL FEATURES

- Easy readability of set temperature from every angle
- Equipped with concealed limiting and blocking tabs
- Set temperature range 20 to 50 °C at nominal flow rate
- Usable only with standard Honeywell Home BB and KV type radiator valves

SPECIFICATIONS

| Specifications | |
|------------------------|---|
| Thermostat connection: | M30 x 1.5 |
| Set point range: | 20...50°C (68...122°F) |
| k_{VS} -value: | 0.14 - 1.85; see pressure drop characteristics |
| Stroke: | 0.22 mm/K |

Note: k_{VS} -values refer to combination of return temperature limiter and BB or KV type TRV - for more information see 'Accessories' on following page and Product Data Sheets of these products.

Note: All °C- and °F-values specified at ideal incident flow. This can differ from stated values depending on installation position and air flow.

FUNCTION

Return temperature limiter are installed in the return of a radiator or underfloor heating loop. When the return flow temperature rises the valve closes and the flow through the heating loop is throttled. When the return flow temperature decreases the valve opens and the flow increases.



DESIGN

The temperature limiter consists of:

- Handwheel with lid and socket
- M30 x 1.5 connection and 11.5 mm closing dimension
- Sensor with support cage
- Spindle assembly
- Connection nut

MATERIALS

- Handwheel, lid and socket made of plastic, white to RAL9016
- Support cage and spindle construction made of plastic
- Sensor filled with wax
- Connection nut made of nickel-plated brass

DIMENSIONS AND ORDERING INFORMATION

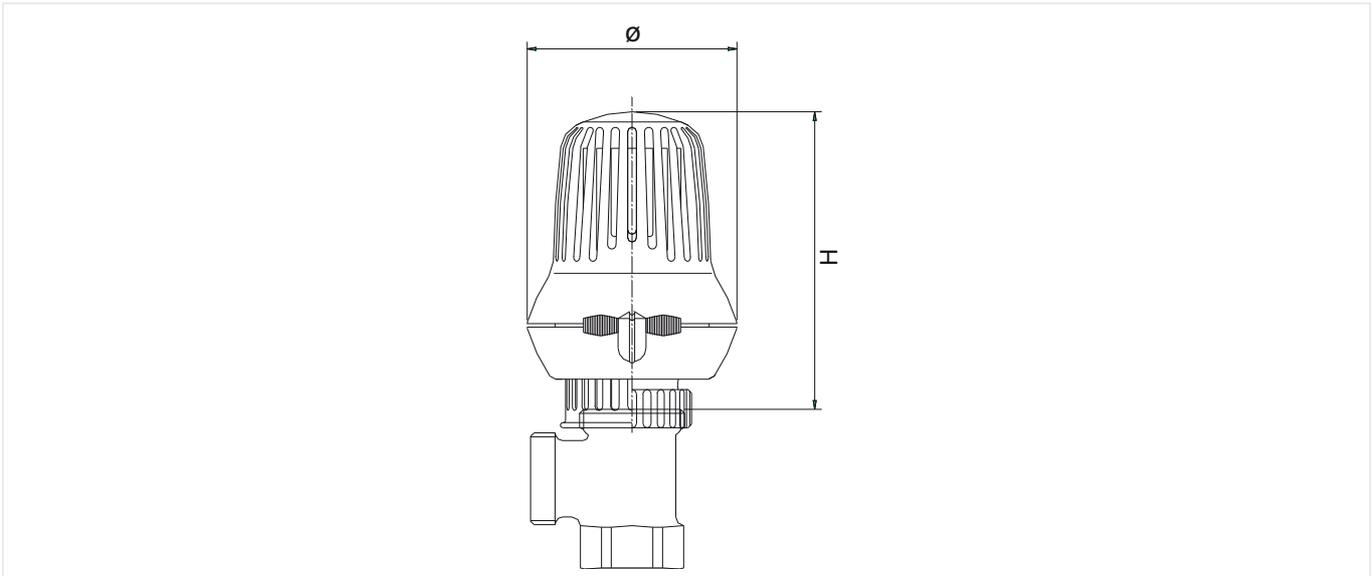


Fig. 1 Dimensions

Tab. 1 Dimensions

| Type | H closed | H open | Ø | OS-No. |
|-----------|----------|--------|----|--------|
| Thera-RTL | 87 | 93 | 60 | T6102 |

Note: All dimensions in mm unless stated otherwise.

SET POINT

Tab. 2 Radiator thermostats of this type without zero-position ('0')

| Set point | 20 | 30 | 40 | 50 |
|-----------|----|----|-----|-----|
| °C | 20 | 30 | 40 | 50 |
| °F | 68 | 86 | 104 | 122 |

Please note:

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- Additives have to be suitable for EPDM sealings
- System has to be flushed thoroughly before initial operation with all valves fully open
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Honeywell Home
- Please contact us if you should have any special requirements or needs

INSTALLATION EXAMPLE

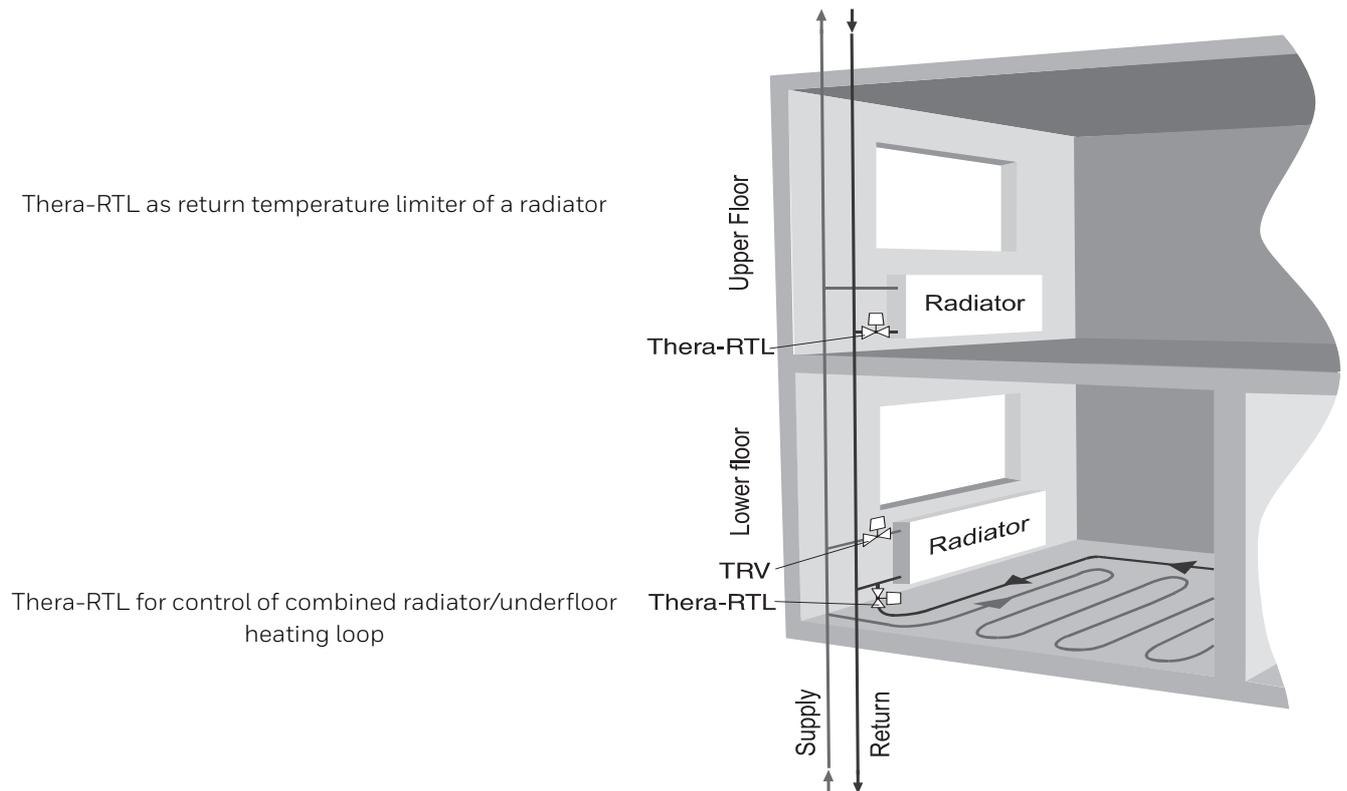


Fig. 2. Installation example

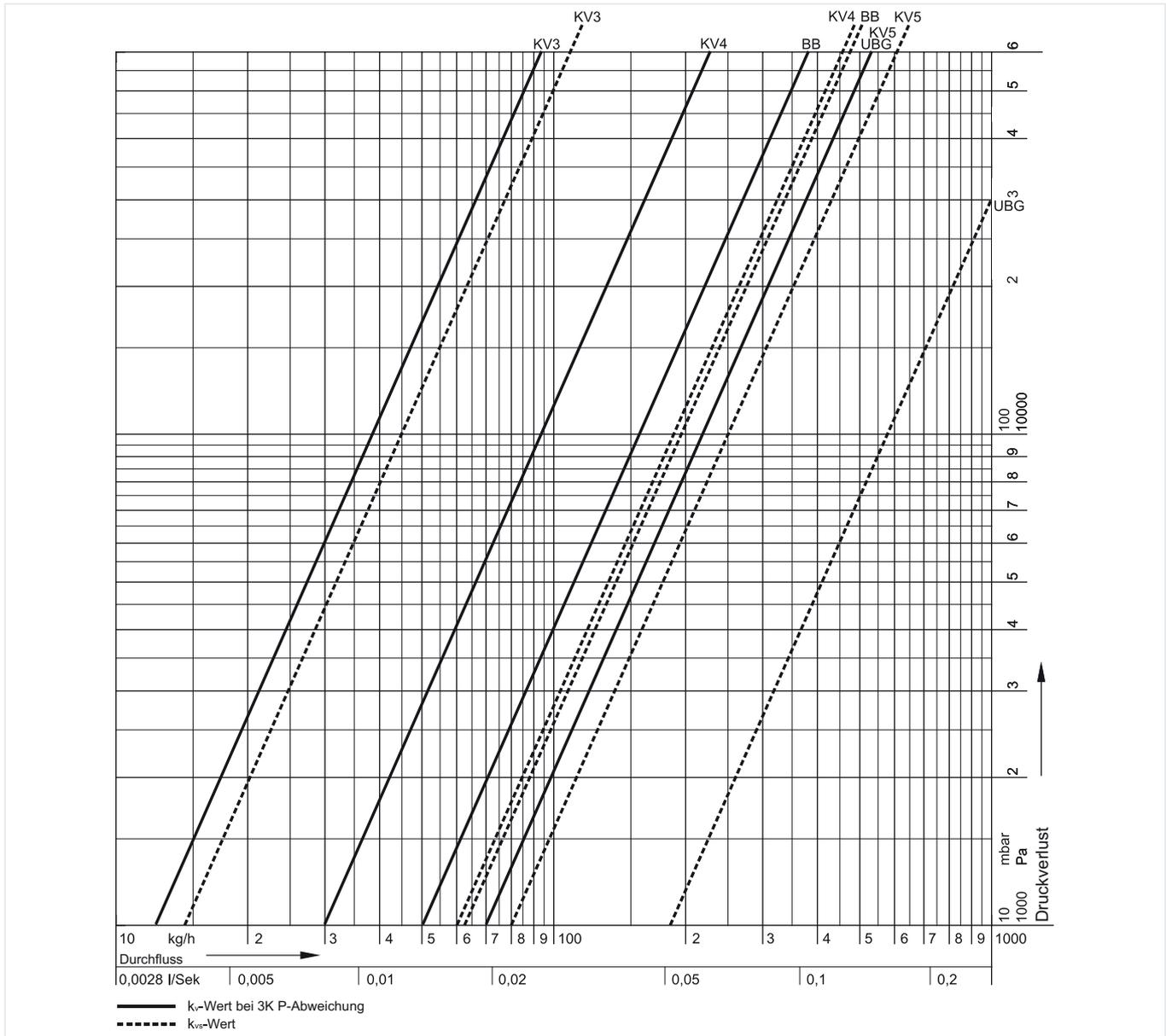
Note: See product data 'Underfloor heating controllers' for control of single underfloor heating loops.

ACCESSORIES

| | Description | Dimension | Part No. |
|---|---|-----------|--------------------------|
|  | TA1000A Decorating for connection nut | | |
| | white (RAL9016) 10 pair, 20 pieces chrome 10 pair, 20 pieces | | TA1000A001 TA1000A002 |
|  | TA1000B Decorating, white | | TA1000B001 |
|  | TA6900A Theft - protection ring white (RAL9016) | | TA6900A001 |
|  | VA8210A Special tool for assembly of radiator thermostats | | VA8210A001 |

FLOW DIAGRAM

For standard Honeywell Home BB and KV type radiator valves



Tab. 3 Flow values

| TRV | BB | KV4 |
|--|------|------|
| k _V S-value at 3K P-deviation | 0.50 | 0.30 |
| k _V S-value | 0.62 | 0.60 |

For more information

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Subject to change

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