

Thermostatic head VK



Thermostatic heads

With clamp connection for radiators with integrated valves

Thermostatic head VK

The thermostatic head VK has been designed to be mounted on radiators with integrated valves. The clamp connection with locking ring enables a direct connection to thermostatic inserts which do not have an M30x1.5 connecting thread and to Danfoss RA valves.



Key features

- > **Direct connection to radiators with integrated valve or Danfoss RA valves with clamp connection**
- > **Liquid-filled thermostat with high pressure power and precision control**
- > **With 2 clips for marking, limiting or blocking**
- > **Symbols for basic setting and nighttime set back**
- > **Brief data including the most important settings**

Technical description

Applications area:

Heating systems

Functions:

Room temperature control.
Frost protection.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings.

Temperature range is limited on both ends and can be blocked using covered stop clips.

Control behavior:

Proportional controller without auxiliary energy. Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K).

Nominal temperature range:

6 °C - 28 °C

Temperature:

Max. sensor temperature: 50°C (122°F)

Specific extension:

0.22 mm/K,
Valve stroke limiter

Material:

ABS, PA6.6GF30, brass, steel,
Liquid-filled thermostat.

Colour:

White RAL 9016

Marking:

Heimeier.

Setting numbers 1-5.

Symbols for basic setting and nighttime reduction.

Brief data including the most important settings.

Setting indicators on the face of the head and markings designed for the visually impaired.

Rotation direction indicator.

Connection to valve:

The thermostatic head VK has been designed to be mounted on radiators with integrated valves. The clamp connection with locking ring enables a direct connection to thermostatic inserts which do not have an M30x1.5 connecting thread and Danfoss RA valves.

The thermostatic head VK can be mounted in several different positions, each at 90°.

Function

In terms of controls, thermostatic heads are seen as continuous proportional controllers (P controllers) that require no auxiliary energy. They do not need an electrical connection or other source of energy. Changes in room air temperature are proportional to changes in the valve stroke.

If the temperature of the air in the room increases due to

sunshine, for example, the liquid in the temperature sensor expands and affects the corrugated pipe. This chokes the water supply to the radiator via the valve spindle. If the temperature in the room decreases, the opposite process occurs. The change in valve stroke caused by a change in temperature can be quantified as 0.22 mm per K room temperature change.

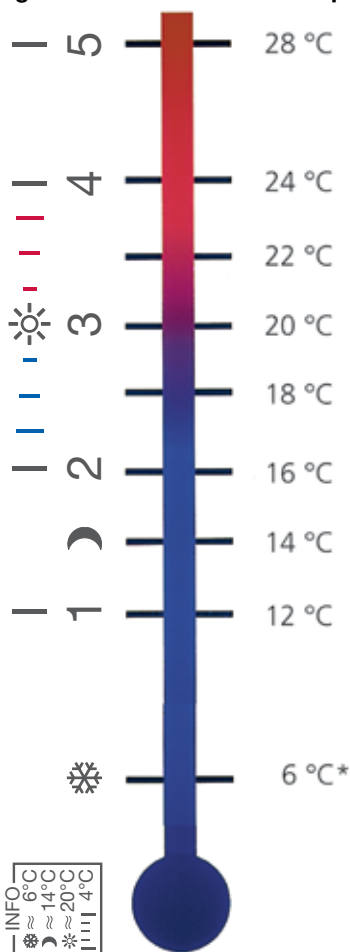
Operation

Recommended room temperatures

The following temperature settings are recommended for the corresponding rooms based on heating with cost savings in mind:

Setting/Position	Room temperature approx.	Recommended for e.g.
5	28 °C	Swimming pool
4	24 °C	Bathroom
3	22 °C	Work room or children's bedroom
3 (Sun icon)	20 °C	Living or dining rooms (basic setting)
2	18 °C	Kitchen, corridor
2	16 °C	Hobby room, bedroom
1 (Moon icon)	14 °C	All rooms at night (nighttime reduction)
1	12 °C	Stairway, vestibule
0 (Snowflake icon)	6 °C*	Basement/cellar rooms (frost protection setting)

*) For thermostatic heads with an auxiliary zero position, the lowest setting is 0 °C (32 °F).



Setting the temperature

The desired room temperature can be selected by turning the thermostatic head (right = cooler, left = warmer). The arrow must be pointing to the appropriate setting position (number, bar, symbol).

All HEIMEIER thermostatic heads are adjusted in a climatic chamber, free of external influences such as heat build-up, sunshine, etc. The number 3 corresponds to a temperature of approximately 20 °C (68 °F). The difference between each number is approximately 4 °C (7 °F), from bar to bar approx. 1 °C (2 °F).

We recommend setting at the number 3 which corresponds to the basic setting of about 20 °C (68 °F) room temperature. Settings above 4 should be avoided if a lower setting satisfies the comfort level, as a 1 °C (2 °F) higher room temperature corresponds to an increase in energy use of around 6 %.

Application

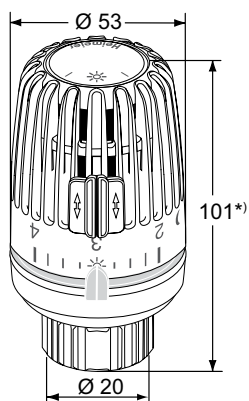
The thermostatic head VK fits, for example, on the following radiators with integrated valves:

Baufa	Finimetal
Bemm	Hudevad
Brötje	Ribe/Rio
Brugman	Thor
Buderus	Vasco
De Longhi	Vogel & Noot

Date: 06.15

Technical changes made by the radiator manufacturer must be taken into account.

Articles



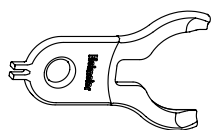
Thermostatic head VK

Model	EAN	Article No
Standard	4024052298211	9710-24.500
with zero position (valve opens at approx. 0 °C or 32 °F)	4024052493029	9711-24.500
with theft protection using 2 screws	4024052541027	9710-40.500

*) setting at 3

The groove on the face of the thermostatic heads K, VK, WK and F serves to take up “**color clips**” or specially printed “**partner clips**”. **E-mail: Partnerclip.Montage@imi-hydronic.com**

Accessories



Removal device

for graduation cap of thermostatic head K and VK and for dismantling stop clips.

EAN	Article No
4024052457410	6000-00.138