

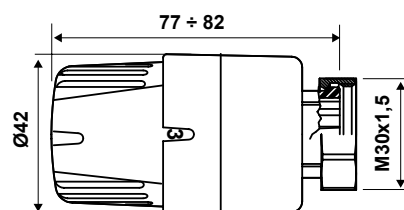
ZTTKR

Chrome thermostatic head with manual control and built-in sensor for series 158...KR

The thermostatic valves automatically regulate the flow of hot water in the radiators according to the room temperature set on the control knob, thus making each room independent. The use of valves with thermostatic heads allows the requirements of thermal comfort to meet the needs of the user, thus obtaining significant savings in heating costs, as required by national and international standards.



Dimensions (mm)



	Temperature adjustment scale	Antifreeze position	Connection	Sensitive element
ZTTKR	8 ÷ 30°C	8°C	M30x1.5mm	with liquid

CHARACTERISTICS

- Sensitive liquid element with built-in sensor.
- Compact size and attractive design.
- Hysteresis < 0.4 K.
- Rotational limit selectors for pre-setting the adjustment range.
- Low thermal inertia 18 min.
- Head body in ABS.
- Chrome finish.
- Temperature adjustment range 8 ÷ 30°C.
- Antifreeze position 8°C.
- Standard connection M30x1.5mm
- Maximum operating pressure 10 bar.
- Maximum operating temperature 120°C.
- Maximum differential pressure 1 bar.
- Unalterable range -15°C ÷ +50°C.
- Intermediate position "3" = 20°C.
- Ring in CW 614 N UNI-EN 12164-98.

INSTALLATION

Horizontal installation to allow better heat exchange with the ambient.

- Vertical installation DOES NOT allow the valve to work properly (figure 4).
- Avoid direct exposure to sunlight and air currents (figure 1).
- Do not let furnishings, such as shelves (figure 3), radiator covers or curtains (figure 5), or alcoves prevent the free circulation of air.



Figure 1

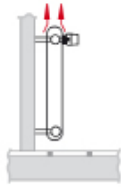


Figure 2



Figure 3



Figure 4



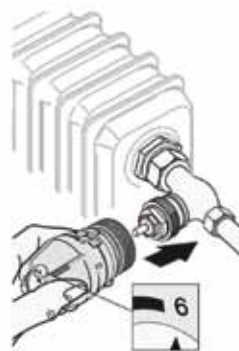
Figure 5

These installations are not correct since the thermostatic valve would assess a different temperature to the one in the room. For proper system operation we recommend you install a pressure relief valve between the supply and return lines. To prevent excessive noise, do not use thermostatic valves with Δp values higher than 0.2-0.25 bar.

ASSEMBLY INSTRUCTIONS

Before installing the thermostatic head, turn the selector to "6" to facilitate the subsequent installation operations:

- Then unscrew the protective cap mounted on the radiator valves.
- Screw the brass ring of the thermostatic head on the same body thread.
- Then turn the selector to the desired temperature.



HOMOLOGATION AND STANDARDS

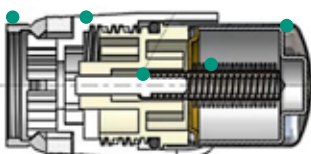
The ZTTKR is classed as "a low thermal inertia" device and therefore meets the requirements set forth under the Decree of the Italian Ministry of Economy and Finance dated 19 February 2007, "Provisions relating to deductions for energy upgrading costs of existing buildings, pursuant to art. 1, paragraph 349, law 27/12/2006, no. 296".

OPERATION

The thermostatic head consists of a sensor (6) filled with highly expandable liquid. The liquid, which is inside the control knob (2), is able to expand or shrink according to the increase or decrease in room temperature, noticing even the slightest variations. When the surrounding temperature increases, the liquid expands and, through the axial thrust movement (3), affects the position of the shutter, thus controlling the action of the valve. The flow of the heat transfer fluid can be regulated by opening and closing the valve. When the temperature drops, the opposite happens thanks to the thrust generated by the return spring. The thermostatic head accurately keeps the ambient temperature stable. The value is set by turning the control knob, the numbers on it correspond to a given temperature.

5 1 3 6 2

1. Body
2. Control knob
3. Piston
5. Locking ring
6. Liquid sensor



TEMPERATURE BLOCK AND LIMIT

The temperature can be blocked on any number on the scale or the stroke can be limited.

You can block or limit it simply by changing the position of the pins in the holes numbered from "0" to "6" on the bottom of the head:

- Move both to block the temperature;
- Move only one to limit the stroke.

Pins



Numbered holes from "0" to "6"

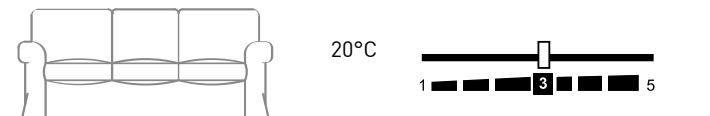
EXAMPLES OF CORRECT ADJUSTMENT



IT IS IMPORTANT TO KNOW THAT...

THE heating elements will not all be evenly hot, only those in the room needing heating will heat up. Proper operation of the thermostatic valve also causes a strong reduction of the water flow; the radiators tend to cool down at the bottom, which shows that the temperature set on the valve is being reached.

Lounge



Bedroom



Bathroom

