

Thermostatic heads

► T 1500

thermostatic head with incorporated liquid expansion sensor and control.

■ INTRODUCTION



The thermostatic head is a regulation system which, by acting directly on the fluid flow rate through the heating body, allows the supply of heat emitted to the environment to be varied. The modulation of the flow rate, and therefore of the emitted power, is performed by varying the position of the shutter, whose movement is caused by an actuator connected to it. **The actuator (or thermostatic head) is the instrument on which the user can set the required temperature.** It contains a sensitive element that reacts to changes in ambient temperature (expanding or retracting) and thus causes movement of the shutter rod. Installation of thermostatic valves can allow important goals to be reached, such as eliminating temperature imbalances in rooms, with consequent improved regulation performance, and lowering the return temperature to the boiler, with significant generation performance increases. The **T 1500** thermostatic head is equipped with a liquid sensor and, coupled to IVAR radiator valves, forms a low-thermal inertia system.

■ TECHNICAL DATA

| | |
|-----------------------------------|-----------------------------|
| Setting range | 6.5 - 28 °C |
| Response time | < 40 minutes |
| Storage temperature | -20 - 50 °C |
| Maximum heating fluid temperature | 100 °C |
| Intermediate setting position | "3" - approx. 20 °C ambient |

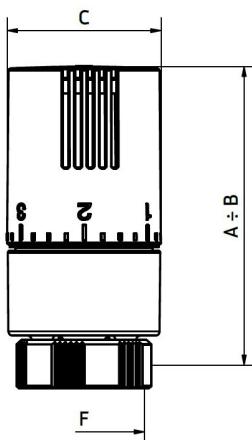
■ MATERIALS

| | |
|----------|----------------------------|
| Knob | PC and ABS blend |
| Ring nut | Nickel-plated CW617N brass |

Safety device

| | |
|-------------------|-------------------------------------|
| Rod and cartridge | POM |
| Spring | DIN 17223 class D steel spring wire |
| Thermostat | Liquid expansion type |
| Colour | RAL 9003 |

■ DIMENSIONS



| Art. | Cod. | A | B | C | F |
|--------|--------|----|----|----|---------|
| T 1500 | 502841 | 73 | 78 | 38 | M30x1.5 |
| T 1500 | 502843 | 73 | 78 | 38 | M28x1.5 |

■ INSTALLATION

Installation

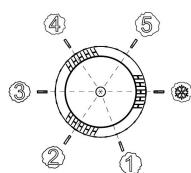
The T 1500 thermostatic head modulates the power of the heating body on the basis of the measured ambient temperature. For this reason, it is important that the head not be installed in niches, behind heavy curtains, or in any position where ambient temperature measurement could be affected.

Installation

Proceed as follows to install the head:

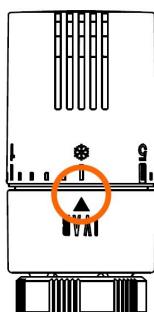
1. Set to the fully open position (5)
2. Install the head on the valve, ensuring that the hexagonal seat is correctly positioned
3. Screw down the ring nut all the way onto the valve thread

Regulation



The knob allows the required ambient temperature to be selected. With reference to the figure on the left, the temperatures corresponding to the different positions are given in the following table:

| Symbol | | 1 | 2 | 3 | 4 | 5 |
|-------------|--|--------|-------|-------|-------|-------|
| Temperature | | 6.5 °C | 12 °C | 16 °C | 20 °C | 24 °C |



To make the setting, turn the knob until the number corresponding to the required ambient temperature is in line with the triangular indicator

■ ACCESSORIES

To prevent theft of and tampering with the T 1500 thermostatic head, it is possible to use item AT 0001E (product code 500506): this is an anti-theft strap to be fitted to the thermostatic head's connecting ring nut. Once installed, it must be removed by force before the thermostatic head can be removed from the valve on which it is installed. Therefore, the strap's absence reveals that tampering has taken place.

■ NOTES

For correct system operation, it is recommended that the thermostatic valve be used in combination with variable speed circulation pumps. To prevent excessive noise, avoid use of thermostatic valves with Δp values greater than 0.2-0.25 bar.

■ SPECIFICATION SUMMARY

| | |
|---|--|
|  | 502841 Low-thermal-inertia thermostatic head with incorporated liquid expansion sensor and control. Temperature setting range 6.5 - 28 °C. Storage temperature -20 - +50 °C. Response time below 40 min. Fitting for valve M30 X 1.5 mm. Colour: RAL 9003 white. |
|  | 502843 Low-thermal-inertia thermostatic head with incorporated liquid expansion sensor and control. Temperature setting range 6.5 - 28 °C. Storage temperature -20 - +50 °C. Response time below 40 min. Fitting for valve M28 X 1.5 mm. Colour: RAL 9003 white. |

■ CODES

| Line | Code | Fittings | Z | Range |
|--------|--------|----------|--------------|-------------|
| T 1500 | 502841 | M30x1,5 | < 40 minutes | 6.5 - 28 °C |
| T 1500 | 502843 | M28x1,5 | < 40 minutes | 6.5 - 28 °C |



LINEA ARANCIO
TECHNICAL SUPPORT
linea.arancio@ivar.it



*This service is provided
from Italy,
in Italian or English

I.V.A.R. S.p.A.
Via IV Novembre, 181
25080 Prevalle (BS) - Italy
T. +39 030 68028 - F. +39 030 6801329
www.ivar-group.com - info@ivar-group.com

