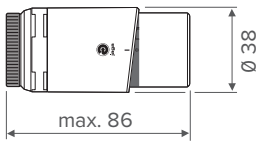
jaga CLIMATE DESIGNERS

JAGA TRV THERMOSTATIC HEAD

TRV thermostatic heads: technical description

The TRV thermostatic heads are used to control the temperature of individual rooms using, for example heaters and convectors. The thermostatic head range not only provides high-precision control it also is designed for exceptional ease of use.

Key feature: Liquid-filled thermostat with high pressure power and precision control



AW White RAL 9016	AC Chrome	AS Grey (silver)	AB Black
			
Code: 5090.1150	Code: 5090.1151	Code: 5090.1152	Code: 5090.1153

Application area:	Heating systems
Function	Room temperature control
	Frost protection
Markings	Indicate upper and lower temperature range
Temperature range	Limited on both ends
Control behaviour	• proportional controller without auxiliary energy. • liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time. • stable control behaviour 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)
Material	ABS, brass, steel, Liquid-filled thermostat.
Connection:	Designed to be mounted on all thermostatic valve bodies and radiators with integrated valves which have an M30x1.5 thermostatic insert.

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).

Position:		1	2	3	4	5
	MIN	12°C	16°C	20°C	24°C	MAX

6°C | 12°C | 14°C | 16°C | 18°C | 20°C | 22°C | 24°C | 28°C

All TRV 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 %.

Properties in line with EN215

Test	Symbol	Value	Dimension	EN215 limit
Hysteresis	C	**0,6**	K	<1
Influence of water temperature	W	**1,2**	K	<1,5
Influence of differential pressure	D	**0,15**	K	<1
Response time	Z	**10**	min	<40

TELL thermostatic Efficiency Labelling

Classification scheme for energy efficiency labeling of thermostatic radiator valves

$$TELL = \frac{\left({}^{C}/_{1} + {}^{W}/_{1,5} + {}^{D}/_{1} + {}^{Z}/_{40}\right)}{4} = 0{,}45$$

Energy efficiency class	F	E	D	C	B	A
EEI	≤ 1.00	≤ 0.90	≤ 0.80	≤ 0.70	≤ 0.60	≤ 0.50

Variation Temporelle

VT score as value in RT2012 in France

$$VT = 0{,}45 \times (C + W) = 0{,}81$$

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