

Function

The 891 thermostatic valve can be used on systems with single-pipe ring type radiators. The valve is designed for coupling with thermostatic controls to perform automatic temperature regulation.

The valve can only be installed via the lower radiator connection, which is used both as an inlet and as a fluid outlet.



Technical Features

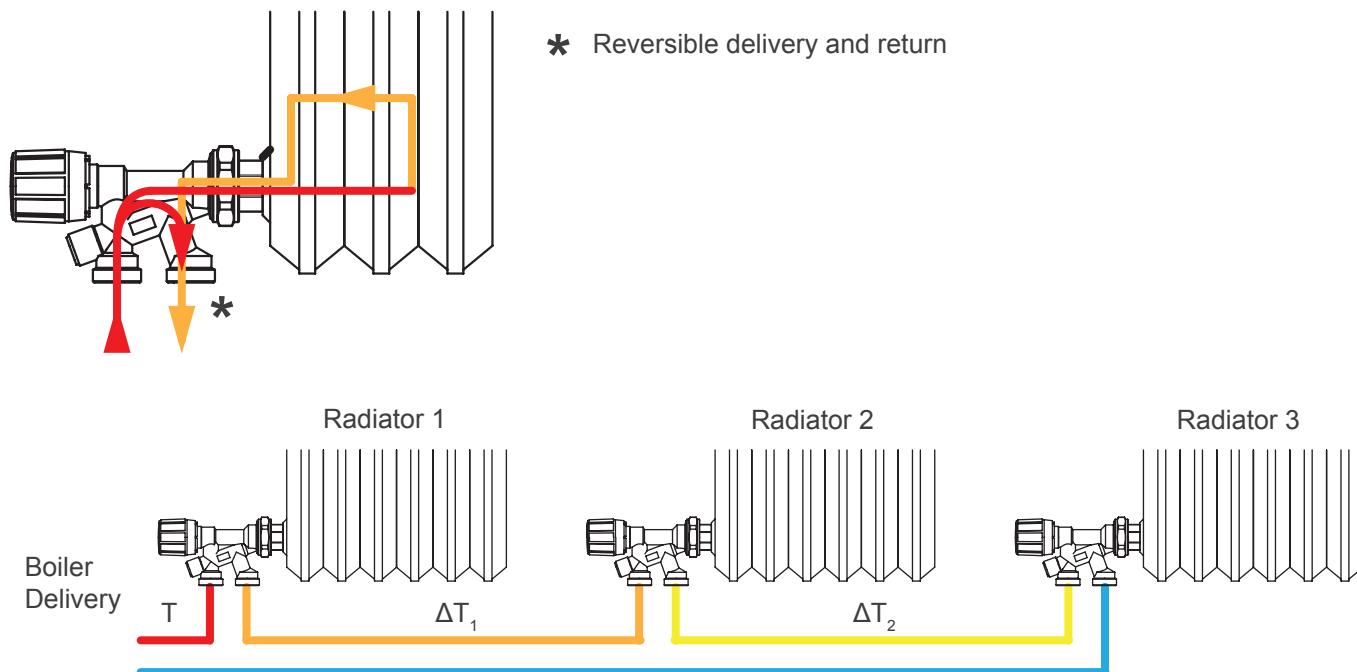
Working fluids:	water and glycol solutions
Max glycol percentage:	30%
Max working pressure:	10 bar
Max differential pressure:	1bar
Max working temperature:	100°C
Flow to radiator:	38%

Manufacturing Features

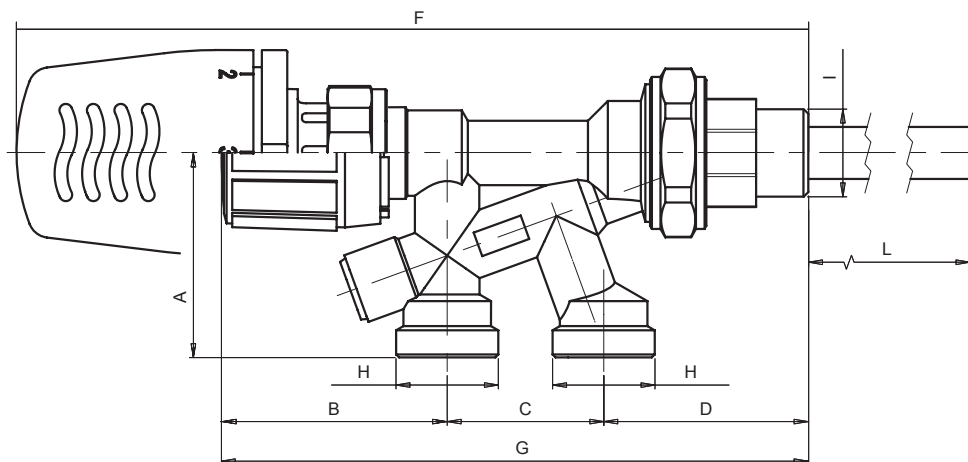
Body:	Brass CW617N UNI EN 12165
Headwork:	Brass CW617N UNI EN 12164
Spring and command rod:	Stainless steel
Hydraulic gasket:	EPDM perox
Handle:	White ABS

Operating Principle

In single-pipe systems, the radiators are connected in series, with respect to each manifold derivation. However, the 891 series valve, set up for this type of system, sends only 50% of the flow (30% with thermostatic control) to the radiator, while the remaining part of fluid is bypassed and routed to the next radiator. In this way the radiators can be intercepted individually (for exclusion or maintenance), allowing the functioning of the radiators installed further downstream and in addition the temperature can be regulated automatically with the use of thermostatic or electrothermal controls.



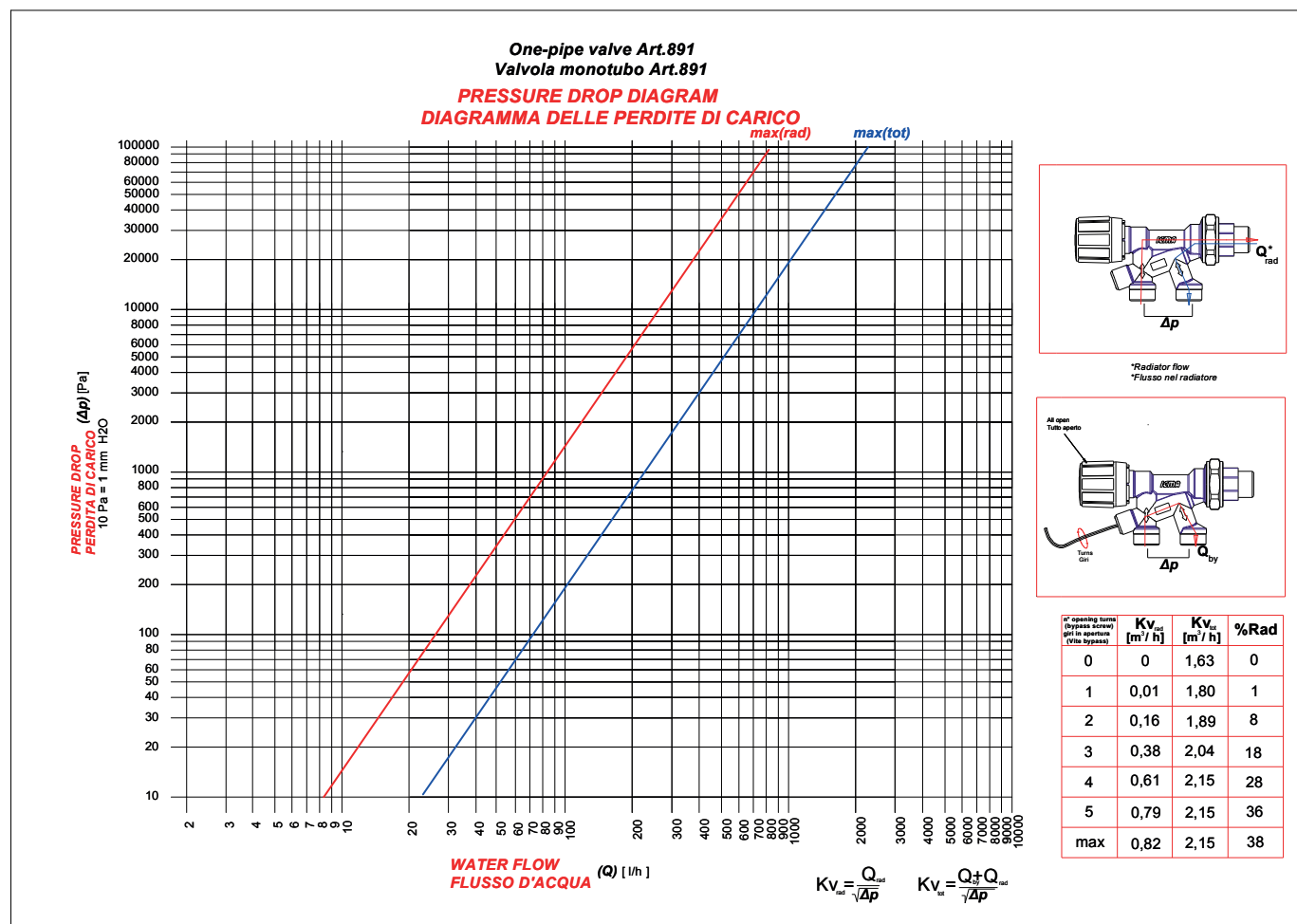
Dimensions



CODE	A	B	C	D	E	F*	G	H	I	L
81891AD06	49	105,5	37,5	49	52,5	190	141	M24X1,5	G1/2"	352
81891AE06	49	105,5	37,5	49	52,5	190	141	M24X1,5	G3/4"	352

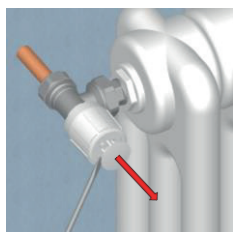
* Art. 1100

Pressure Drop

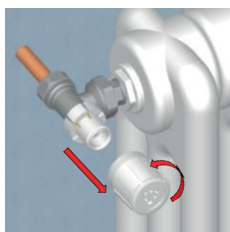


Thermostat Control Device Installation And Regulation

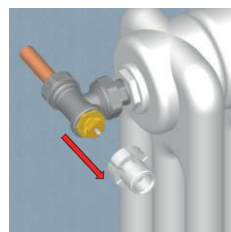
Conversion Of Manual Valves To Thermostatic Valves



Remove the protective cover from the knob using a small screwdriver.

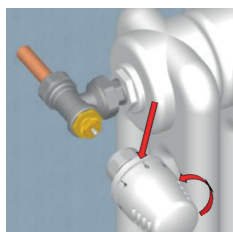


Turn the knob in the counter clockwise direction to remove it completely from the valve.

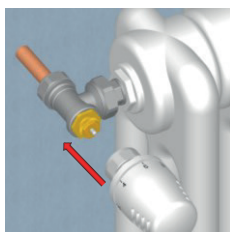


Unfasten the white adapter from the valve body by simultaneously pulling and bending it.

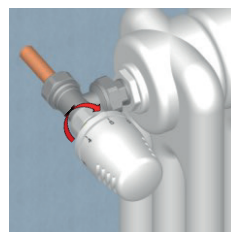
Installation Of Thermostat Control Device



To facilitate installation of the thermostat control device, turn the knob counter clockwise and bring it to the number 5.

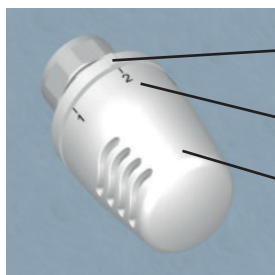


Install the thermostat control device on the valve body keeping the indicator turned upward so that it is clearly visible.



Screw the thermostat control device ring on the valve body blocking it. Turn the knob a few times to adjust the components.

Temperature Setting



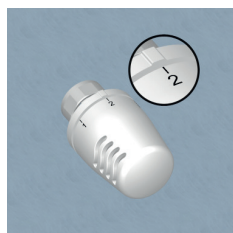
INDICATOR
ADJUSTMENT SCALE
KNOB

The knob indicates the numbers from 0 to 5, which correspond to specific temperatures (see the adjustment scale shown at side). Set the desired temperature simply by turning the knob to the corresponding number close to the indicator.

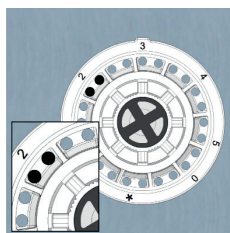
ADJUSTMENT SCALE

0°C	7°C	12°C	16°C	20°C	24°C	28°C
0	*	1	2	3	4	5

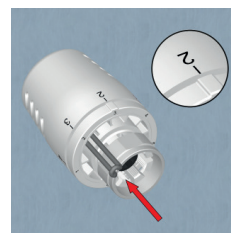
Temperature Adjustment



Turn the thermostat control device knob to one of the setting numbers from 0 to 5 shown on the knob. Setting example on the n°2.

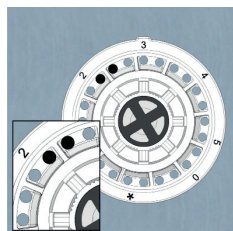


The same numbering is also indicated on the lower part of the device. Identify the hole before and the hole after the number set.

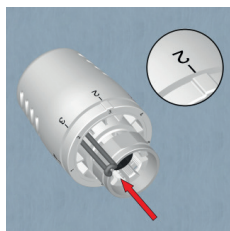


Insert the forked pin inside these two holes and push until completely inserted. The knob is now blocked at the desired setting.

Blocking Of Temperature



In order to limit the temperature, simply identify the two holes located right after the number set.



Insert the forked pin inside these two holes and push until completely inserted. The knob can now be moved from 0 to the number set.



The forked pin is sold separately from the control device.
FORKED PIN
CODE:
111100AC06