



Thermostatic mixing valve, adjustable with knob and with anti-scald function

5217 series

Function - Features

- designed for installation at the point of use or for a bathroom
- accurate temperature adjustment, even in case of variations in pressure or flow rate
- thermal shut-off to prevent scalding, in the event of a cold water failure at the inlet
- temperature adjustment knob
- complete with filters and check valves on the cold and hot water inlets
- certified to standard **NF 079 Doc. 8**



Product range

Code **521714** Thermostatic mixing valve, adjustable with knob and with anti-scald function, complete with filters and check valves on the inlet. Size 1/2"

Code **521713** Thermostatic mixing valve, adjustable with knob and with anti-scald function, complete with filters and check valves on the inlet. Size 3/4"

Technical specifications

5217 series

Performance

Temperature adjustment range:	30–50°C
Accuracy:	±2°C
Max. working pressure (static):	10 bar
Max. working pressure (dynamic):	5 bar
Max. inlet temperature:	85°C
Inlet temperature recommended for optimum performance (as described in NF 079 Doc. 8):	≤65°C
Max. inlet pressures ratio (H/C or C/H):	2:1

Min. temperature difference between the inlet hot water and the outlet mixed water to ensure anti-scald performance:	15°C
Min. flow rate for stable temperature:	4 l/min (1/2") 6 l/min (3/4")
Acoustic group:	I
Hydraulic characteristics	Kv (1/2") = 1,5 (m³/h) Kv (3/4") = 1,85 (m³/h)
Connections:	1/2" and 3/4" M with union

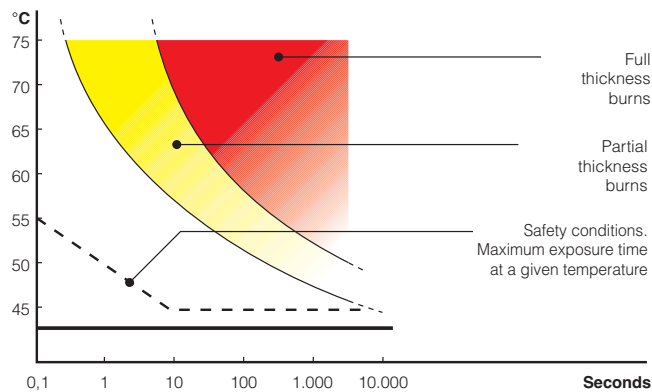
Legionella vs scalding risk

In systems producing domestic hot water with storage, in order to avoid the dangerous infection known as Legionella, the hot water must be stored at a temperature of the least 60°C. At this temperature it is certain that the growth of the bacteria causing this infection will be totally eliminated.

At this temperature, however, the water cannot be used directly. As shown on the diagram opposite, temperatures of more than 50°C can cause burning very quickly. For example, at 55°C partial burning will occur in approximately 30 seconds, while at 60°C partial burning will occur in approximately 5 seconds. This time may be reduced by 50 percent or more for children and elderly people.

In view of the above, it is necessary to install a thermostatic mixing valve which can:

- reduce the temperature at the point of use to a value lower than that of the storage and make it suitable for sanitary use;
- maintain the temperature constant while the incoming pressure and temperature conditions vary;
- prevent the water temperature at the outlet from reaching values above the 50°C.
- have an anti scald safety function in case of failure of the cold water supply.

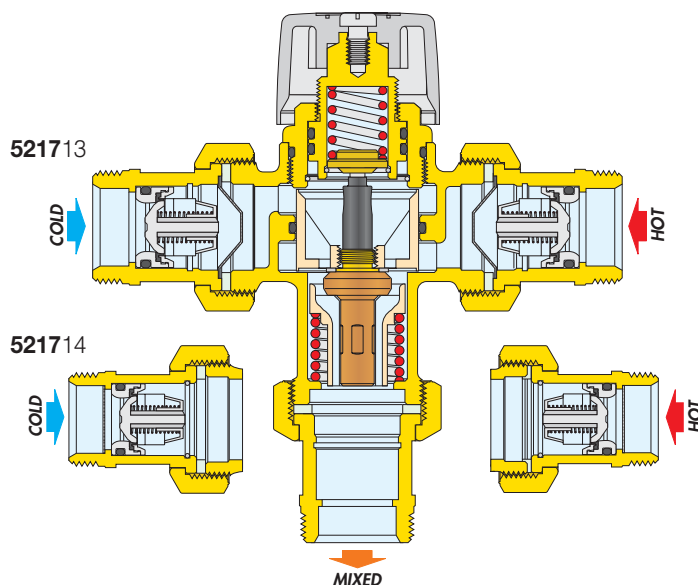


Temperature	Adults	Children 0-5 years
70°C	1 s	--
65°C	2 s	0,5 s
60°C	5 s	1 s
55°C	30 s	10 s
50°C	5 min	2,5 min

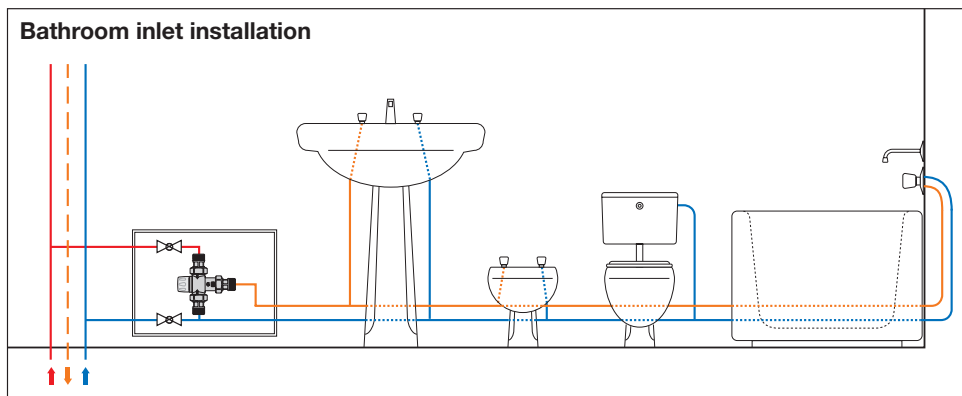
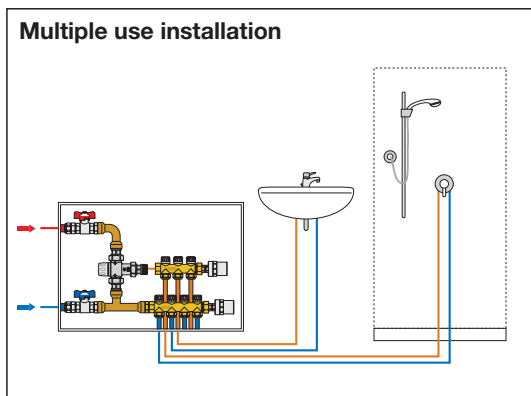
Anti-scald safety function

As a safety measure, in case of failure of the cold water supply, the valve immediately shuts off the flow of mixed water. This prevents dangerous burns.

This performance is guaranteed if there is a minimum temperature difference between the inlet hot water and the outlet mixed water of 15°C (performance in compliance with French standards NF 079 doc 8). In case of failure of the hot water supply, the valve shuts off the mixed water, to prevent dangerous thermal shocks.



Application diagrams



We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.

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