



CONTROL AND SECURITY

THERMOSTATIC MIXING VALVE 705



The thermostatic mixing valve it is used to obtain a constant and adjustable temperature in a distribution of sanitary hot water. The automatic control of the fluid ensures a suitable hot water management as there is no lose of water or energy in the adjustment of the temperature to the desired level. Furthermore, it is achievable to reduce the heat lose in the pipes.

With the use of these valves the efficiency of the hot water accumulator is improved and a distribution of water in a regular temperature is obtained. Normally, the water heaters supply the water at a temperature between $55 \div 60^{\circ}\text{C}$, to avoid the development of the legionella bacteria. The water at a temperature higher than 43°C , so that it can cause important burns. It has to be take into account that the majority of the burn accidents with hot water are taking place in the households.

All the users agree that a mixing thermostatic valve can result in a energetic save of the 30% in comparison with a simple mixing valve. In the individual installations, the equipment is amortized in a short period of time.

Advantages

- Enables to decouple the temperature of the hot water stored from the distributed water.
- Economize the hot water.
- Increase of the provided water volum.
- Security in accordance with the regulation.
- Installation longevity.
- Thermostatic element in the exit stem of the mixed water which allows a greater sensivity/precision relation.
- Circuit outage of the hot water in case of break of the cold water circuit.
- Low pressure drop, which enables higher efficiencies.
- Flywheel with blocker system.

Technical characteristics

TECHNICAL DATA	
Max. admissible pressure	10 bar
Max. admissible temperature	85°C
Connections	1" Female
Recommended pressure	1 - 5 bar
Field of regulation	$30 - 65^{\circ}\text{C}$
Kv	3,2 m ³ /h

MATERIALS	
Body	Brass UNE-EN 12165-12164
Flap	Brass UNE-EN 12165-12164
Spring	AISI 302
Handwheel	Nylon
Sensor	Element of Vernet wax

Installation

The recommended pressure of the water is between 2 and 5 bar, with a maximum flow of 1,5 m/s speed. Cold water

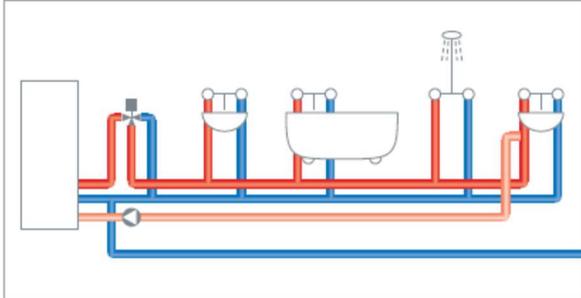


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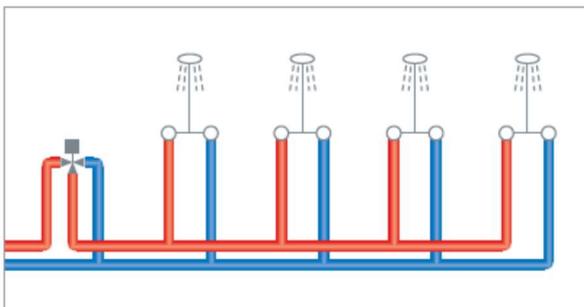
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pressure in the entrance valve must always be 0,2 bar more higher than the one of the hot water.



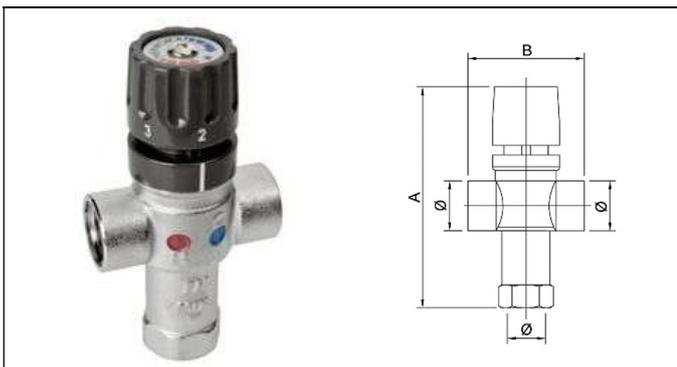
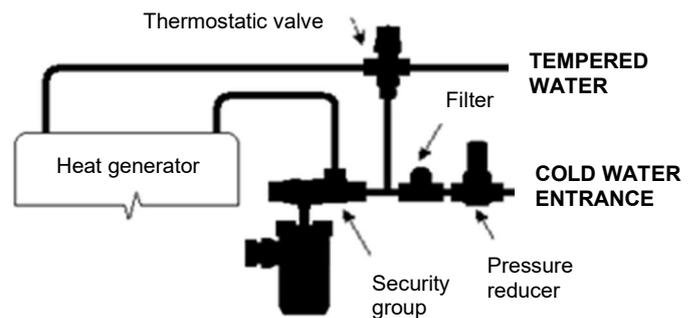
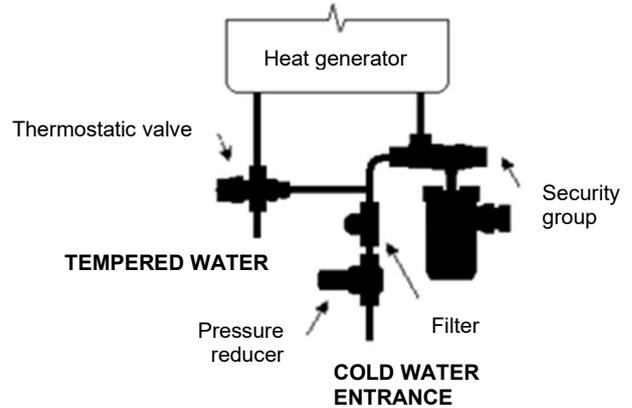
Maximum of 16 consume points, taking into account the simultany use.



For non-residential installations, maximum of 5 showers.

Mixing valves often must be installed in parallel, for possible extensions.

The pressure drop can be up to 1 bar.



Code	Ø	A	B
38404	3/4"	115	80

Control position	1	2	3	4	5
Temperature (°C)	30	38	42	52	65