

THERMOSTATIC MIXING VALVE

SUBJECT

The main purpose of this valve is to mix hot water with cold water at the desired temperature in the DHW installation. Its thermostatic regulation guarantees the temperatures at the points of use and consumption, avoiding accidental scalding. At the same time, a great saving of water is generated, due to the fact that it is not necessary to wait for the hot water to arrive (completely open) at the point of consumption, and then mix it until the desired temperature is reached, but rather it arrives mixed at the previously selected temperature.

APPLICATIONS

All DHW (domestic hot water) installations must be maintained at a minimum temperature of 60°C to prevent the growth of Legionella bacteria. However, water at this temperature is not suitable for human use or consumption. This thermostatic mixing valve will reduce the temperature of the water coming from the boiler or water heater, mixing it with the cold water until the desired and pleasant level for our use is achieved, providing us with safety and thermal stability.

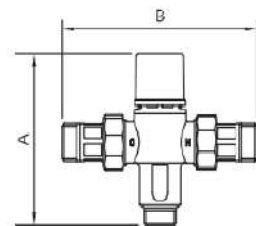
ADVANTAGES

- This valve allows the temperature of the stored hot water to be separated from the temperature of the hot water being used and/or distributed.
- The thermostatic element of the mixed water outlet allows a higher sensitivity/comfort ratio.
- It has a safety device that cuts off the mixed water outlet when either of its two inlets (hot or cold water) are cut off, even accidentally.
- It saves energy by optimizing the water temperature of the DHW installation.
- It increases the volume of water distributed and consumed at a constant temperature.
- Low pressure drop, which allows high performance.
- It protects the installed devices, providing longevity to the installation.
- Safety in accordance with current regulations.
- The Male-Male model incorporates a filter and check valve in its fittings.



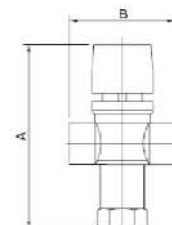
Ref. M-M	ROSCA	A	B
5397012000	1/2"	129	117
5397034000	3/4"	137	130
5397010000	1"	149	153

Medidas expresadas en milímetros



Ref. H-H	ROSCA	A	B
5397134000	3/4"	130	73
5397110000	1"	130	74

Medidas expresadas en milímetros



TEMPERATURE RANGES

- Temperature range obtained: between 15°C and 65°C
- Maximum inlet temperature: 90°C

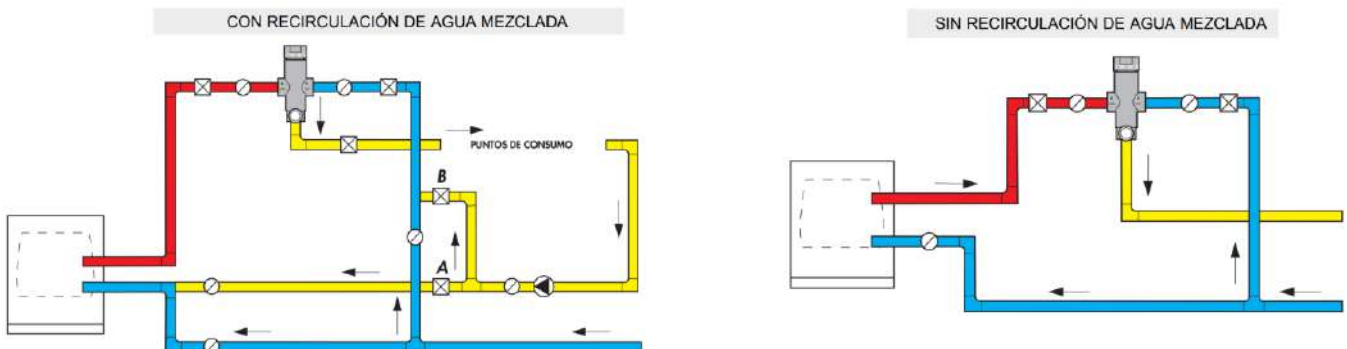
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MAXIMUM WORKING PRESSURE

The maximum working pressure for this type of valve is 10 Bar. However, it is recommended to work with stable pressures not exceeding 5 Bar. For this purpose, it is convenient to install a pressure reducing valve upstream. These pressure reducing valves are also supplied by our company. You can consult all their characteristics on our website <https://pareta.com/pressure-reducing-valve-f-f/>

GENERAL INSTALLATION INSTRUCTIONS

1. It is compulsory to clean the pipes of the installation before installing the valve, guaranteeing the absence of foreign elements that could alter its normal operation or even damage any of its internal components.
2. Check that the piping is free from stresses such as tension, compression, torsion, bending or shearing.
3. Choose the optimum valve size, according to the pipe dimensioning of the installation and its flow rate.
4. Always connect the valve to the network device or pipeline using the appropriate sealing elements and fittings for each type of valve. These accessories must comply with the specifications of the regulations and standards required by the directives and legislation in force.
5. In the case of using accessories that require welding operations, NEVER carry out these operations with the accessory connected to the valve, as the excess temperature could damage its vital operating and sealing parts. Also, be sure to remove any parts of the fitting that are made of rubber or are susceptible to damage during a welding operation.
6. Once the installation has been completed, it is compulsory to carry out the tightness tests required by the regulations in force. These tests must always be carried out prior to start-up of the device, installation or network.
7. In addition, make the necessary verifications to ensure that the operation of the valve is as expected and required.



FLOW DIAGRAM

