

THERMOSTATIC MIXING VALVE FOR DOMESTIC HOT WATER IN INSTALLATIONS WITH GAS BOILER

INSTRUCTION SHEET

MTC34	3/4"
MTC34B	1/2"
MTC10	1"
MTC10B	3/4"

Intervallo di regolazione
30 ÷ 65 °C

DESCRIPTION

The thermostatic mixer regulates the domestic hot water temperature to a set value. It is supplied with hot water from the boiler and cold water from the mains water supply. It provides maximum comfort, significant savings on water and energy, and avoids the danger of accidental burns. It is installed in distribution systems for domestic hot water produced by boilers of all types and heating stoves, in bathrooms, in houses, apartment blocks and communities. Do not install on lines supplied by solar panels (a specific mixer for solar panels must be used).

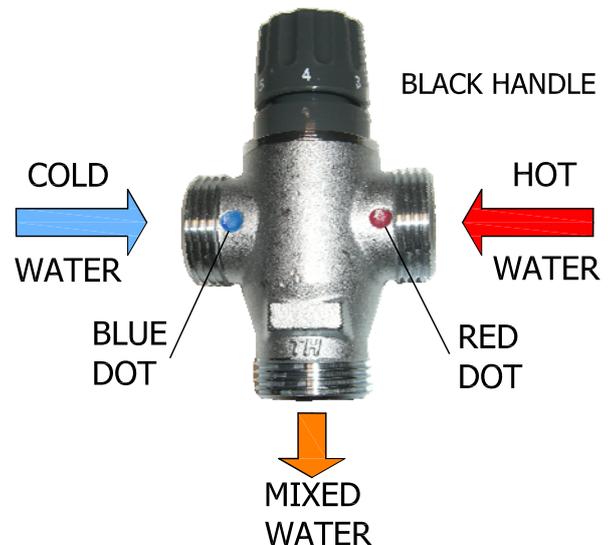
WARNINGS

The mixer can be mounted vertically and horizontally without any restrictions. The connections shown in the adjacent illustration must be observed:

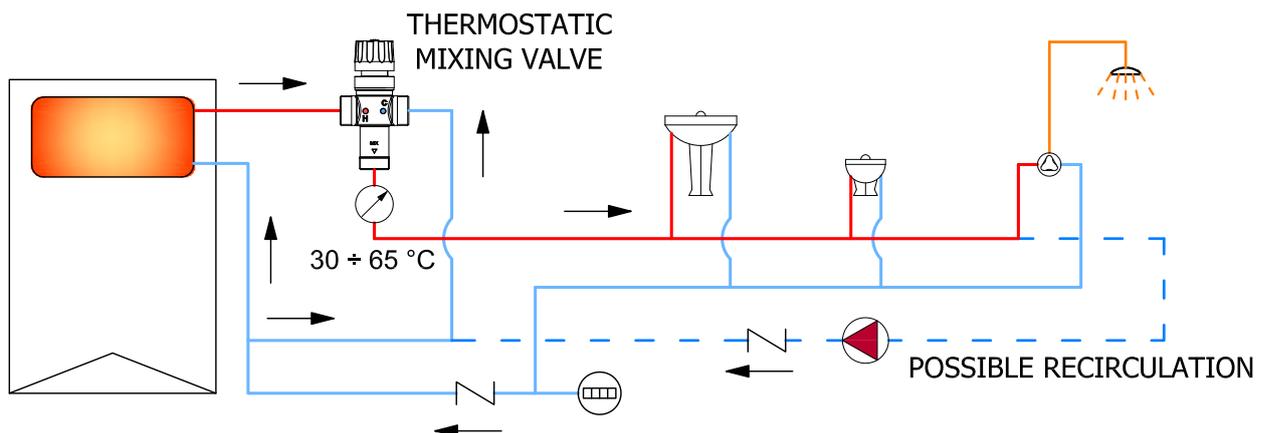
Red dot - HOT WATER;
Blue dot - COLD WATER;
Middle way - MIXED WATER.

If the water pressure is higher than 3 bar it is advisable to fit a pressure reducer.

If the pressures of hot and cold water are significantly different from each other, it is recommended to install non-return valves on the inlets. If the water supply contains foreign bodies, filters must be installed.



EXAMPLE OF THERMOSTATIC MIXER INSTALLATION FOR MIXED DOMESTIC HOT WATER PRODUCTION



The mixer is calibrated using cold water at **15 °C** and hot water at **65 °C** at **3 bar** so that the numbers printed on the knob correspond **approximately** to the temperatures indicated in the table below.

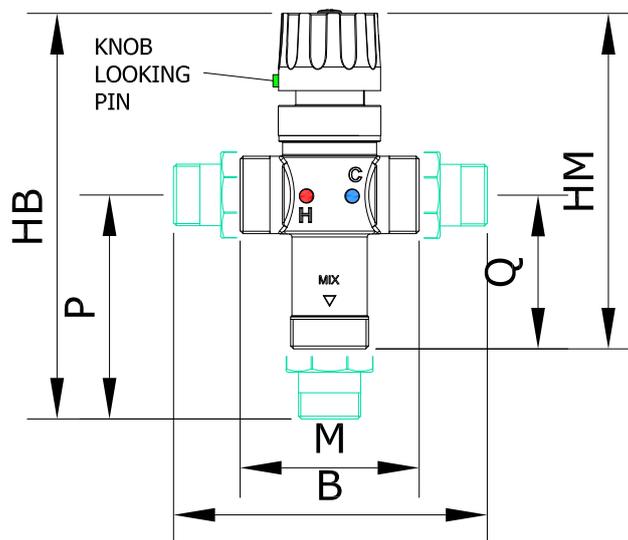
knob position	MIN	1	2	3	4	5	MAX
temperature (°C)	-	30	38	42	52	65	-

Once the desired temperature has been set, the mixer can be locked by the knob looking pin, preventing accidental tampering.

CHARACTERISTICS and MATERIALS

	MTC34	MTC34B	MTC10	MTC10B
Connections	3/4" male	1/2" unions	1" male	3/4" unions
Range of adjustment	30 ÷ 65 °C		30 ÷ 65 °C	
Max. hot water temperature	85 °C			
Kv	1.8 m³/h		3.2 m³/h	
Max. working pressure	10 bar			
Minimum pressure	1 bar			
Working pressure	up to 5 bar			
Max. pressure difference between inflows	0.5 bar			
Valve body	brass UNI EN 12165 CW617N sandblasted and chrome-plated			
Shutter and internal organs	brass UNI EN 12164 CW614N			
Springs	stainless steel AISI 302			
O-ring	NBR		NBR	
Knobs	Nylon, PA 6			
Heat-sensitive element	wax			

MIXING VALVE SIZE



COD.	Ø	HM	M	Q	HB	B	P
MTC34	3/4" M	118	60	52	/	/	/
MTC34B	1/2" B	/	/	/	146	116	80
MTC10	1" M	116	70	49	/	/	/
MTC10B	3/4" B	/	/	/	146	130	79

FLOW RATE - PRESSURE DIAGRAM

