

Pressure Balancing Thermostatic Mixing Valves

UNDERSTANDING THE UNIQUE BENEFITS OF FM MATTSSON VALVES

Generic - Thermostatic Mixing Valves

Generic TMVs rely only on the thermostat element to control the mixed hot and cold water. These can be adjusted to a selected temperature and are suitable for direct contact with skin. Because generic TMVs use only a wax element, they can be slow at reacting to pressure changes or natural fluctuations in the water supply, so the mixed water temperature may spike and cause discomfort to end users.

In the event of a cold water failure, the warm water of a generic TMV may spike to dangerous temperatures before the wax element has time to activate and cut off the hot water supply. This can be fatal for frail/elderly people and babies.

The Best - Thermostatic Mixing Valves

FM Mattsson TMVs rely on **both** a wax thermostatic element and a 'built in' pressure balancing piston to ensure a safe and constant mixed warm water temperature. The 'built in' pressure balancing system ensures that the warm water stays within +/- 1°C of set temperature. Where water supply pressures are unequal (13:1 ratio) or there is natural fluctuations in the piping system, the 'built in' pressure balancing system will balance the incoming pressures and control the temperature at a safe and stable level.

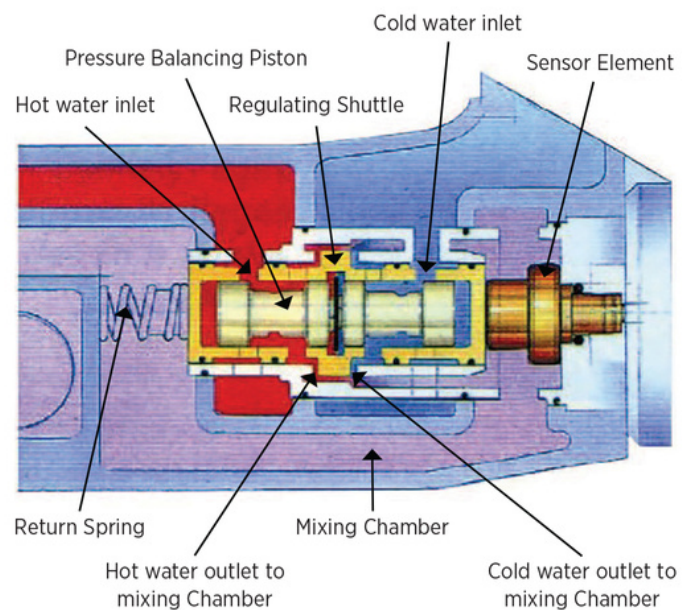
In the event of a cold water failure, the 'built in' balancing system combined with the thermostatic element, cuts off the hot water supply safely and quickly - within a second. The 'built in' balancing system function provides additional safety against scalding.

THE BEST - THERMOSTATIC MIXING VALVES

PBTMV Cartridge



PBTMV Cartridge Exploded View

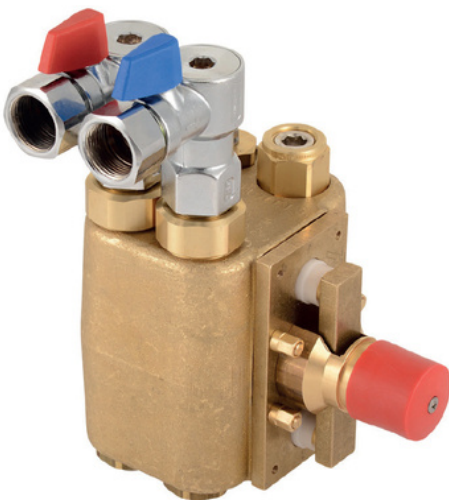
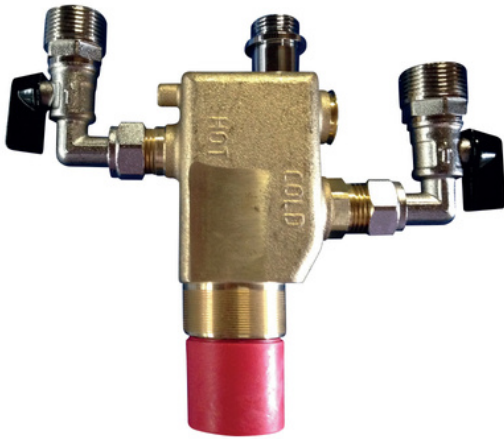


WaterMark

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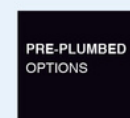
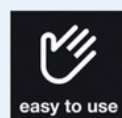
The internal pressure balancing piston balances, at the respective inlets and outlets of the regulating shuttle, the amount of incoming hot and cold water that is able to enter the mixing chamber. Simultaneously the thermostatic sensor element both monitors and adjusts the regulating shuttle's position to cover the hot water outlet to the mixing chamber, preventing scalding.

Pressure Balancing Thermostatic Mixing Valves



BENEFITS

- **Thermal Flush for legionella control** – simply remove the Red Lockshield cap, wind out the valve completely to flush through the desired / maximum degree of hot water.
- Only valve on the market that can cope with sudden pressure peaks and fluctuating temperatures.
- Minimum flow rate as low as 1L per minute.
- Safe temperature, safe touch and comfortable showers - no temperature spikes.
- Accurate, constant water temperature and pressure within **+/- 1°C** no matter what happens in the pipework – thanks to the unique Pressure Balancing Piston.
- “Built-in” Pressure Balancing Piston function also provides additional safety against scalding.
- Simple cartridge design – easy to maintain, reduced maintenance costs over the lifetime of the installation.
- Widest range of PBTMV solutions for all commercial, domestic, multi and single outlet applications.
- Exceptional safety, performance and superior quality to all other brands.
- Multi and single outlet installations.
- Complete with built-in line strainers/non return valves on both hot and cold inlets.
- No pressure limiting valves required.
- FM Mattsson Valves will changeover from older brands (Grohe, Hansa, Rada, Aquablend, Horne).



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MAG Pre-Plumbed Standard Box, Stainless Steel With Flat Panel Door

FM Mattsson
- Different on the inside

Stainless Steel Box Size: 300mm X 300mm X 75mm
Panel Door on Recessed Box: 330mm X 330mm X 1.5mm
4 pipes has **Cold Water Bypass**



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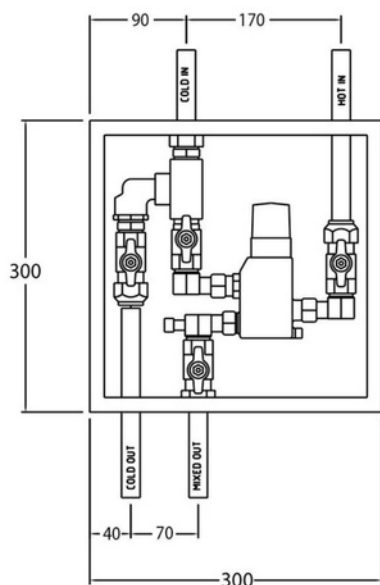
Front Panel



Back Panel

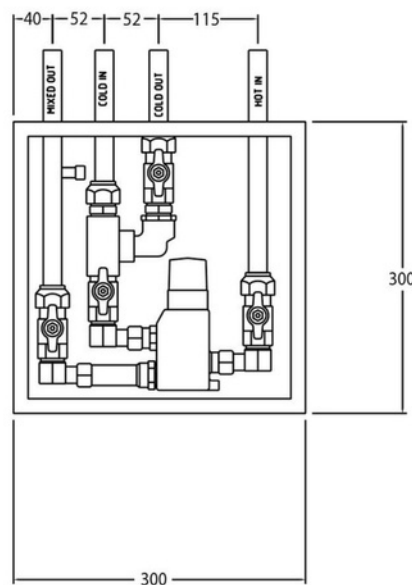


4 Pipes Two Ways - with Cold Water Bypass



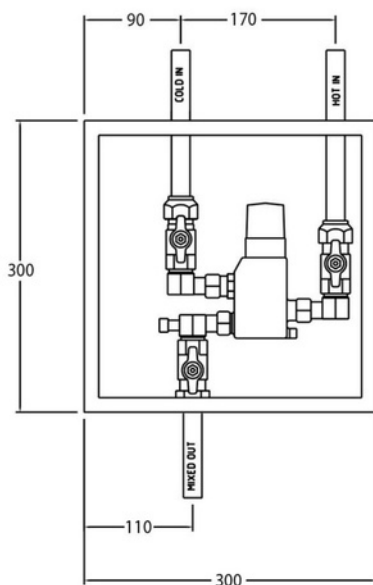
9230-0002 Concealed (recessed) box
9230-0004 Exposed (wall mounted) box

4 Pipes One Way - with Cold Water Bypass



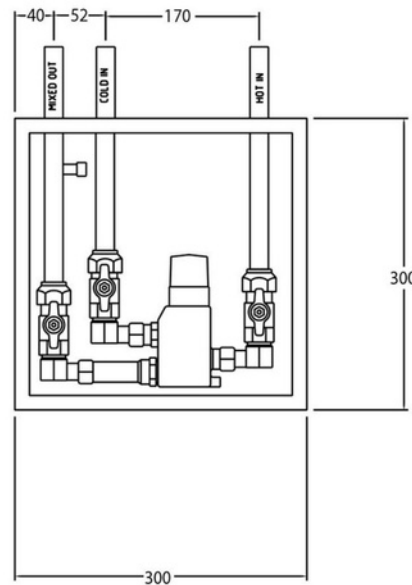
9230-0001 Concealed (recessed) box
9230-0003 Exposed (wall mounted) box

3 Pipes Two Ways



9230-0006 Concealed (recessed) box
9230-0008 Exposed (wall mounted) box

3 Pipes One Way



9230-0005 Concealed (recessed) box
9230-0007 Exposed (wall mounted) box

