

# GALA TMV-1 Thermostatic Mixing Valve

## Thermostatic mixing valve with scald protection

### APPLICATION

Thermostatic mixing valves of this type are used for central regulation of the water temperature in solar-powered, bivalent water heaters.

A cold water break can be fitted in the circulation line in water heater systems, which prevents cold water from mixing at the extraction point via the circulation line.

### FEATURES

The Valve will automatically modulating the inlet of hot water and cold water into a fixed temperature while electricity is not required.

The cold water inlet is automatically cut off if the hot supply fails.

When hot water temperature is more than 40 °C, the hot water will be automatically cut off if cold water supply fails.

When hot water temperature is lower than settings, cold water supply will be cut off, outlet will be low temperature hot water at safe range.

Simple setting of the required water temperature.

Inner components are of scale-resistant materials.



### TECHNICAL DATA

		TMV-1
<b>Media</b>		
Medium:	Water	
<b>Connections/Sizes</b>		
Connection size:	3/4"	
<b>Pressure values</b>		
Max. operating pressure:	max. 10 bar	
Maximum pressure difference between hot and cold inlet supplies:	2.5 bar	
<b>Operating temperatures</b>		
Max. hot water inlet temperature:	100 °C	
Setting range:	30 - 60 °C	
Preset temperature during manufacture:	40 °C	
Control accuracy:	<±4 K	
<b>Specifications</b>		
Flow rate at 1.0 bar pressure differential across valve appr.:	27 l/min	
Installation position:	Arbitrary	

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## Overview



Components	Materials
<b>1</b> Protective cap	Transparent plastics
<b>2</b> Adjustment knob	High-quality synthetic material
<b>3</b> Connection fittings	Dezincification-resistant brass
<b>4</b> Housing	Dezincification-resistant brass
<b>Not depicted components:</b>	
Adjustment spring	Stainless steel
Moving parts	High-quality, scale-resistant synthetic material
Thermostat	-

## METHOD OF OPERATION

Thermostatic mixing valves of this type are used for central regulation of the water temperature in solar-powered, bivalent water heaters.

The highly sensitive thermal element located in the outlet of the valve controls a plug which regulates the flow proportion of cold and hot water in relation to the mixed hot water setting selected.

Soft seatings are fitted to both hot and cold water inlets. They provide:

- The cold water supply is cut off if the hot water supply is interrupted
- A positive hot inlet shut-off if the cold water supply is interrupted, provided that the hot water inlet temperature is at least 10 K higher than that of the mixed water setting

## TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

## INSTALLATION GUIDELINES

### Setup requirements

- Install without tension or bending stresses
- Fit a return flow-retarder unit where the hot water supply system includes a circulation circuit
- Observe the flow direction arrow when fitting a return flow-retarder unit
- To prevent the growth of legionella, the water volume in the pipework between the mixer valve and the furthest take-off point should not exceed 3 litres. This corresponds to a maximum length of 10 metres for 3/4" (20 mm) pipework and 17 metres for 1/2" (15 mm)
- Requires regular maintenance in accordance with EN 806-5

