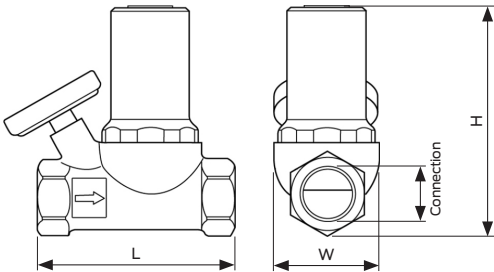


Specifications / Scope of Use

Temperature Supply Range	40°C – 65°C
Factory Pre-Set Temperature	58°C
Temperature Range for Thermal Disinfection	> 70°C
Max. Working Pressure	1000kPa
Test Pressure	1600kPa
Max. Working Temperature	99°C
Accuracy	+/- 2°C
Flow Rate	Refer to Flow Chart
Temperature Gauge	0-100°C
Watermark Approved to	WMTS-468:2019

Dimensions

Size	H	L	W	Connections
15mm	87	75	37	G½
20mm	90	80	37	G¾



Warranty

Reliance Worldwide Corporation reserves the right to modify designs and specifications and to withdraw and introduce products at any time without notice.

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500. This product is compliant to the Lead Free requirements of the National Construction Code Volume Three. For further Scope of Use, please visit www.rmc.com.au/resources.

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture for two (2) years (see website for more details). You may contact RWC at the phone number, address or e-mail shown and will be required to return the goods for evaluation. Should the defect be found to be one of our manufacture we will send you a replacement product to your stated address at our expense. Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

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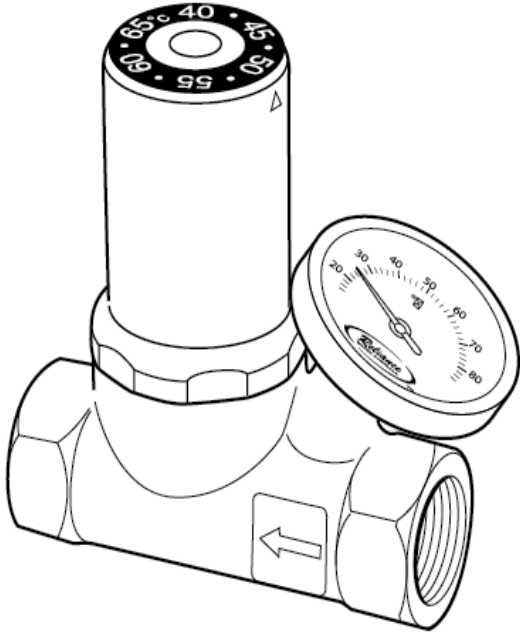


Reliance Worldwide Corporation (Aust.) Pty. Ltd.
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ABN 71 004 784 301



Installation Instructions
TBX01 & TBX02

Thermal Balancing Valve - 15mm and 20mm



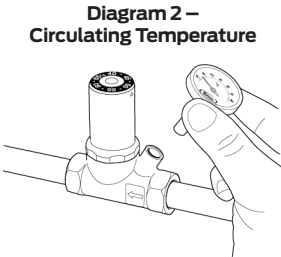
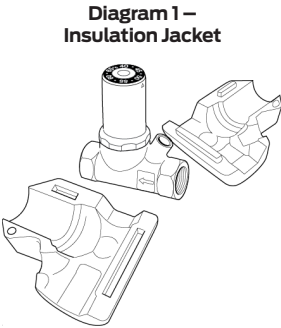
The RMC Thermal Balancing valve is a thermostatic circuit control valve designed to automatically control the temperature within a circulating hot water system by dynamically adjusting the flow rate in a branch or circuit, depending on the temperature of the hot water.

The Thermal Balancing Valve uses a thermostatic element which adjusts the flow rate, depending on the temperature the valve is set at and the temperature of the water flowing through it.

As the water temperature increases towards the set point, the Thermal Balancing Valve reacts to close off and restrict the flow of circulating water, maintaining the temperature, and forcing the water to other parts of the system that are at lower temperatures.

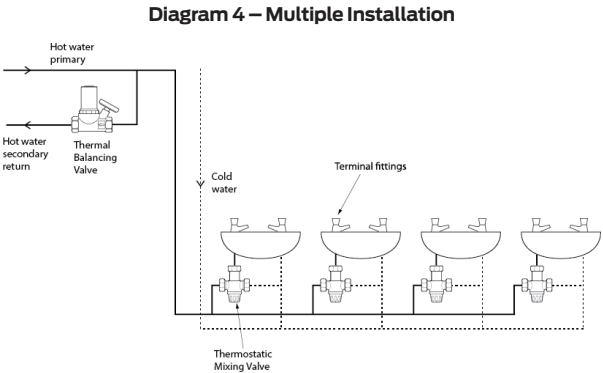
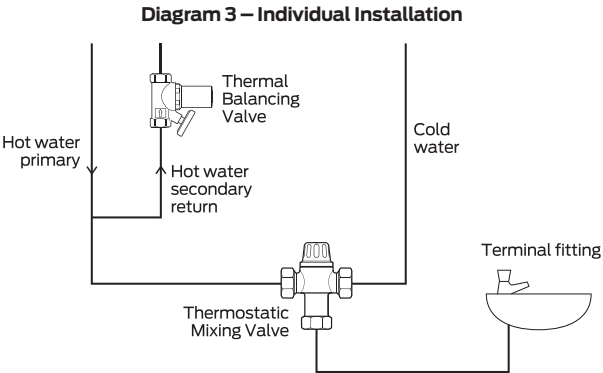
The Thermal Balancing Valve is supplied complete with an easily removable thermometer to read the circulating temperature (Diagram 2), and an insulation jacket (Diagram 1) to save on installation time and make access to the valve for servicing easier.

The Thermal Balancing Valve from RMC also includes an automatic function to aid in the thermal disinfection of hot water systems. The design of the Thermal Balancing Valve reduces flow rate as temperatures increase, but if the water system temperature is increased to 70°C, a bypass port is opened within the valve which allows an increased flow rate through the circuit to disinfect the hot water system.



Installation

The Thermal Balancing Valve is available with 15mm or 20mm female BSP Connections. The Thermal Balancing Valve can be installed to serve an individual outlet (Diagram 3), or to control a group of outlets fed from a branch (Diagram 4), as determined by the required flow rate to the circulating loop.



Parts Diagram

To install the Thermal Balancing Valve, first remove the insulation jacket by separating the two halves (Diagram 1). Assemble suitable pipe fittings for the pipe system being used, sealing with approved products and methods, per manufacturer's instructions.

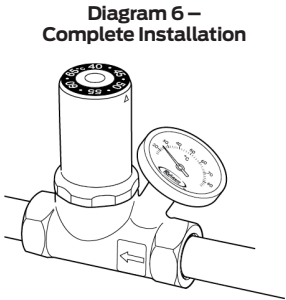
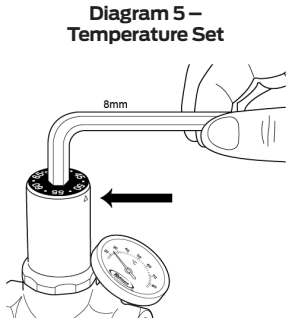
Once the appropriate fittings are tightened, install the valve in the return pipework, making sure that the flow arrow on the body aligns with the direction of water flow. Once installed, insert the thermometer into the brass pocket on the outlet of the valve (Diagram 2) and replace the two halves of the insulation jacket.

The Thermal Balancing Valve should be fitted on the hot water return, observing the direction of flow arrow on the valve.

All installation must comply with AS/NZS 3500.1, AS/NZS 3500.4 and any state or local authority requirements.

Commissioning

The Thermal Balancing Valve is designed to be quick and easy to install and commission. Refer to flow diagram for operation types. To set the desired operation, first remove the plastic plug that covers the adjustment mechanism. Next, insert an 8mm Allen Key into the top of the valve and turn the adjustment mechanism until the operating temperature of the circuit lines up with the red datum mark on the valve (Diagram 5). The valve is now set up at this temperature and will operate correctly to within +/- 2°C when the system is running normally.



Flow Chart

