

# Thermal Balancing Valves

## Scope of Use / Specification Sheet

RMC's Thermal Balancing Valves are thermostatic circuit control valves which automatically control the temperature within a circulating hot water system to ensure a balanced water temperature throughout the system. Available in 15mm and 20mm configurations, the valves are adjustable from 40°C to 65°C, and are factory set at 58°C.



TBX01

### Product List

Order Code	Description
TBX01	15mm FI x 15mm FI Insulated
TBX02	20mm FI x 20mm FI Insulated

### Materials

Body	Forged Lead Free DZR Brass
Internal Components	Lead Free DZR Brass
Seals	Viton®
Spring	Stainless Steel
Thermal Element	Wax-based

### Application

RMC's Thermal Balancing Valve automatically controls 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. A built-in disinfection function is included to allow high-temperature treatment of circuits to protect against Legionella.

The Thermal Balancing Valve should be fitted on the return line, observing the direction of the flow arrow on the valve. The valve can be installed in any orientation.

### Features and Benefits

- Easy temperature adjustment between 40°C and 65°C
- Tamper-proof cap
- Built-in disinfection function to protect against Legionella
- Dry-fit push in thermometer
- Supplied with insulation
- Meets Australian Standard for potable water supply
- Individually tested and calibrated
- Every valve is tested to ensure higher quality and performance

### Installation

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](http://www.rmc.com.au/resources).

### Warranty

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, address or e-mail shown below for further information or to make a claim.

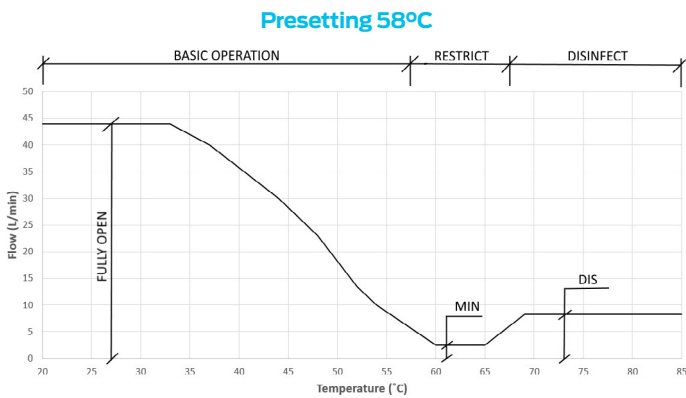
Visit [www.rmc.com.au/warranty](http://www.rmc.com.au/warranty) to view the warranty statement in full and for further important information.

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## Performance Specifications

Temperature Set Range	40°C – 65°C
Factory Preset Temperature	58°C
Temperature Range for Thermal Disinfection	>70°C
Maximum Working Pressure	1000kPa
Test Pressure	1600kPa
Maximum Working Temperature	99°C
Accuracy	±2°C
Temperature Gauge	0°C – 100°C

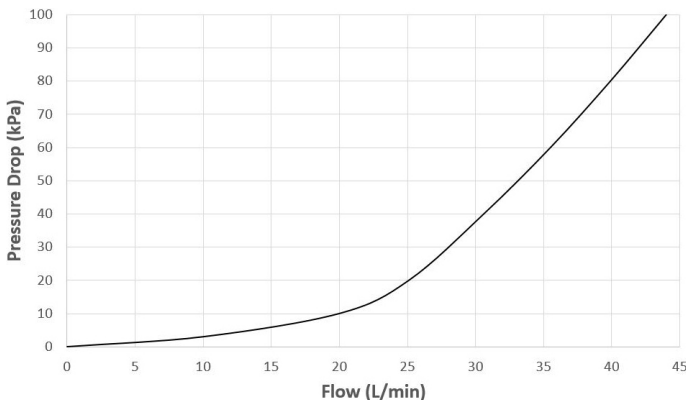
## Flow Characteristics



Flow (L/min)  $\Delta P = 100\text{kPa}$

Min	2.5
Dis	8.3
Fully Open	44

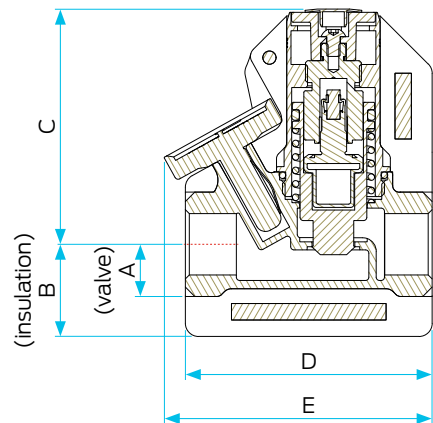
**TBX01/TBX02 Flow Curve (58°C Set, 20°C Flow)**



## Dimensions

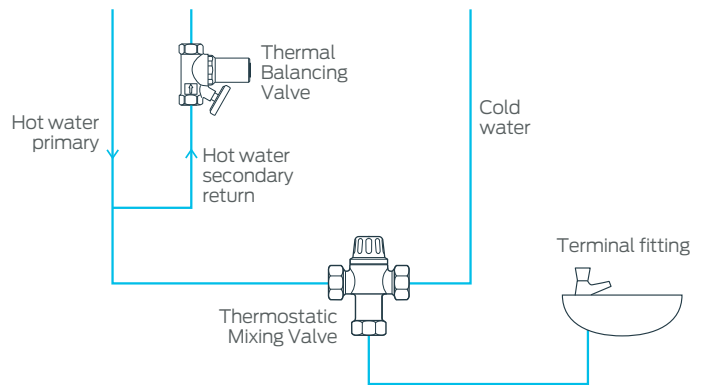
Size	A	B	C	D	E
15mm	16	28	72	75	82
20mm	18	32	72	80	85

Note: All measurements in mm unless otherwise stated.



## Note

The Thermal Balancing Valve can be installed to serve an individual outlet, or to control a group of outlets fed from a branch, as determined by the required flow rate to the circulating loop.



## Standards and Approvals



ATS 5200.468:2019  
WMK25991