

# THERMAL BALANCING VALVES



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.



## Catalogue Numbers

Size	Catalogue Number
15mm	TBV501
20mm	TBV701

## Description

The Thermal Balancing Valves are available in 15mm and 20mm configurations. The Thermal Balancing Valves are adjustable from 40 to 65°C, and are factory set at 58°C.

## Application

The 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 can be installed in the circuit of an individual outlet or a group of outlets fed from a branch, as determined by the required flow rate to the circulating loop.

The Thermal Balancing Valve should be fitted on the return, 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 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

## Materials

<b>Body</b>	Forged DZR Brass
<b>Internal Components</b>	DZR Brass
<b>Seals</b>	Viton
<b>Spring</b>	Stainless Steel
<b>Thermal Element</b>	Wax-based

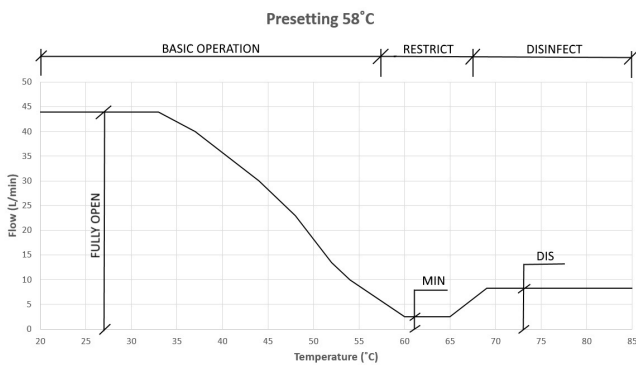


Uniquely Australian

## Performance Specifications

Temperature set range	40°C-65°C
Factory pre-set temperature	58°C
Temperature range for thermal disinfection	>70°C
Max. working pressure	1000 kPa
Test Pressure	1600 kPa
Max. working temperature	99°C
Accuracy	±2°C
Temperature guage	0-100°C

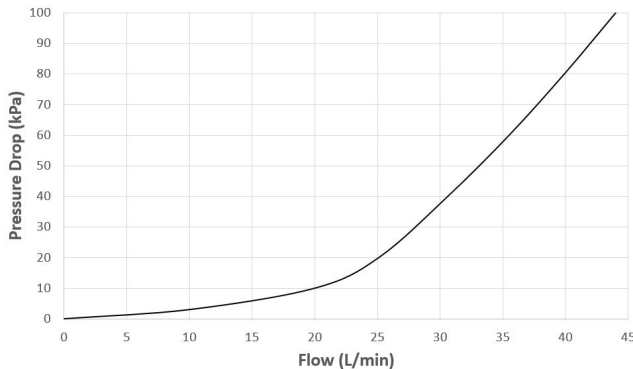
## Flow Characteristics



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

Min	2.5
Dis	8.3
Fully Open	44

TBV501/TBV701 Flow Curve  
(58°C Set, 20°C Flow)



## Dimensions

Model	A	B	C	D	E
TBV 15mm Female	16	28	71	75	81
TBV 20mm Female	18	32	71	82	85

All dimensions in millimeters unless otherwise stated

