

RMC's HeatGuard® is a tempering valve that mixes hot and cold water to deliver tempered water at a constant temperature throughout an entire building or system.



Model	Catalogue Number
HeatGuard® 15	MIX15
HeatGuard® 20	MIX20

Description

HeatGuard® is suitable for tempering the hot water supply to sanitary devices (that are intended for personal hygiene purposes) where outlet temperatures must not exceed a maximum of 50°C.

HeatGuard® is compatible with most storage water heaters. The compact design requires minimum space and is available in 15mm and 20mm configurations.

Materials

Body	Forged DZR Brass
Internal Components	DZR Brass
Seals	Viton
Springs	Stainless Steel
Piston	PPSU
Fittings	DZR Brass
Strainers	Stainless Steel
Non-Return Cartridges	Acetal

Features and Benefits

- Union connections & compression fittings
- Easy to install and easy to remove for servicing of strainers with all nuts and olives supplied
- EPP insulation limits energy loss and helps protect valve against freezing - meets Australian Standard AS/NZS 3500.4
- Strainers to protect valve from impurities in the water supply
- Check valves to eliminate backflow contamination
- Tamper-proof adjustment key to eliminate chances of accidental adjustment
- Dezincification resistant
- Meets Australian Standard AS/NZS 4020 for potable water supply
- Individually tested and calibrated to ensure higher quality and performance

Application

RMC's HeatGuard® is a tempering valve for use in hot water distribution systems. Fitting the valve at the hot water source ensures the delivery of constant tempered water throughout the system.

DO NOT USE on steam supplied systems.



AS4032.2 LIC WMKA 1593
SAI GLOBAL



Uniquely Australian

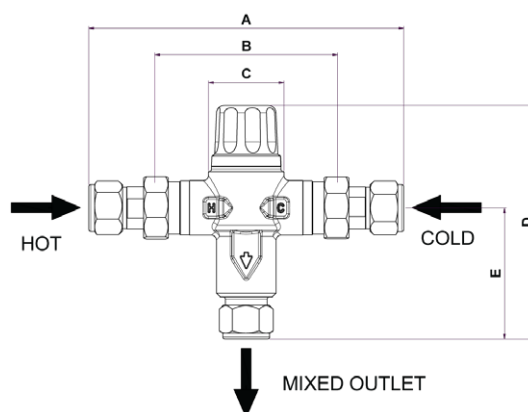
Technical Specifications

Cold water supply temperature	5°C - 30°C
Hot water supply temperature	60°C - 90°C ¹
Optimum outlet temperature range	40°C - 50°C ²
Set temperature	Must be commissioned on site to achieve desired outlet
Accuracy of outlet temperature	± 3°C - tested to AS4032.2 between 40°C and 50°C
Minimum temperature differential (Between hot supply and outlet temperature)	15°C ³
Supply pressure, static	1600kPa maximum
Supply pressure imbalance, dynamic (At time of commissioning)	2 : 1 maximum ⁴
Maximum permitted pressure variation in either supply, in order to control outlet temperature to ± 3°C: (From supply pressure at commissioning)	± 10% maximum ⁵
Minimum flow rate	4 litres/minute
Compression Fittings Supplied	Nuts, Olives, Strainers & Non-Return Checks included

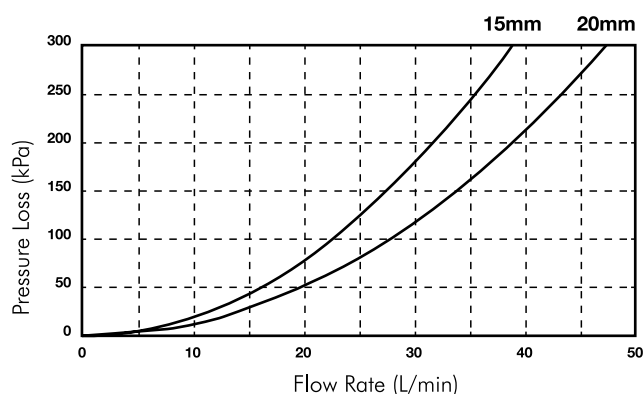
Dimensions

	15mm	20mm
A	158	164
B	92	92
C	38	38
D	116	118
E	66	66

*All dimensions are in mm unless otherwise stated



Flow Characteristics



Notes

- AS/NZS 3500.4 Clause 1.9 requires the minimum hot water storage temperature to be 60°C.
- For applications outside the requirements of AS/NZS 3500 and AS4032.2, it may be possible to set the valve as high as 55°C or as low as 35°C, depending on site conditions.
- This is the minimum difference required to ensure shut-off of outlet flow in the event of cold supply failure in accordance with AS4032.2, providing the valve is set between 40°C and 50°C.
- The maximum permitted ratio of supply pressures, under dynamic (flow) conditions. For optimum performance it is recommended that the hot and cold pressures at commissioning are as close as possible to equal.
- The maximum permitted variation in either supply pressure from the pressure at commissioning in order to control the outlet temperature to ± 3°C.