

# HEATGUARD ULTRA INSULATED



RMC's HeatGuard Ultra is a High Performance and High Temperature tempering valve that mixes hot water with cold water to deliver tempered water at a constant temperature throughout an entire house, building or system.

## Catalogue Numbers

HeatGuard Ultra INS 15	MIX11116I
HeatGuard Ultra INS 20	MIX11117I



The HeatGuard Ultra is suitable for most domestic applications and for sanitary devices intended for personal hygiene purposes, where outlet temperature must not exceed a maximum of 50°C.

HeatGuard Ultra is ideal for use in installations where there are fluctuations in supply conditions and in solar hot water installations where a booster pump is used. The compact design requires minimum space. HeatGuard Ultra is available in 15 mm and 20 mm configurations.

## Application

RMC's HeatGuard Ultra is a High Performance and High Temperature Tempering Valve suited for use with solar, instantaneous heat exchange (continuous flow), and pumped ring main hot water distribution systems. HeatGuard Ultra is suitable as a point of use tempering device.

DO NOT USE on steam supplied systems.

## Features and Benefits

- High Thermal Endurance
- High Performance Specifications
- Designed especially for situations requiring high valve specification such as fluctuating supply pressures
- Union connections & compression fittings
- Valve easy to install and easy to remove for servicing of strainers - Nuts and Olives supplied
- Polyurethane Insulation
- Limit energy loss and help protect against freezing - Meets Australian Standard AS/NZS 3500.4
- Strainers upstream of check valves
- Tamper-proof adjustment
- Dezincification resistant
- Meets Australian Standard for potable water supply AS/NZS 4020
- Individually tested and calibrated to ensure higher quality and performance



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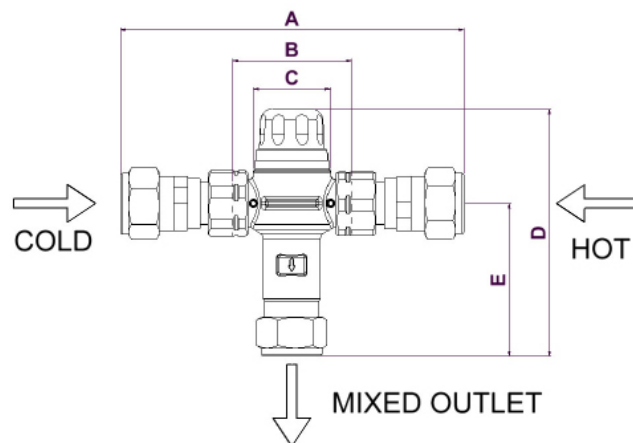
Cold water supply temperature:	5°C - 30°C
Hot water supply temperature:	60°C - 99°C <sup>1</sup>
Optimum outlet temperature range:	40°C - 50°C <sup>2</sup>
Set temperature:	Must be commissioned on site to achieve desired outlet
Accuracy of outlet temperature:	± 3°C - tested to AS4032.2 between 40°C and 50°C
Minimum temperature differential: (Between hot supply and outlet temperature)	10°C <sup>3</sup>
Supply pressure, static:	1600 kPa maximum
Supply pressure imbalance, dynamic: (At time of commissioning)	2 : 1 maximum <sup>4</sup>
Maximum permitted pressure variation in either supply, in order to control outlet temperature to ± 3°C: (From supply pressure at commissioning)	± 15% maximum <sup>5</sup>
Minimum flow rate:	4 litres/minute
Compression Fittings Supplied:	Nuts, Olives, Strainers & Non-Return Checks included

## Notes:

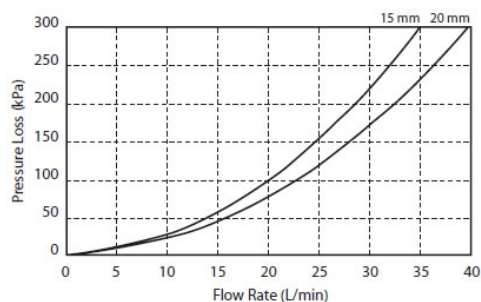
1. AS/NZS 3500.4 Clause 1.9 requires the minimum hot water storage temperature to be 60°C.
2. For applications outside the requirements of AS/NZS 3500 and AS4032.2, it may be possible to set the valve as high as 55°C or as low as 35°C, depending on site conditions.
3. This is the minimum difference required 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.
4. 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.
5. The maximum permitted variation in either supply pressure from the pressure at commissioning in order to control the outlet temperature to ± 3°C.

## Dimensions

Model	A	B	C	D	E
HEATGUARD ULTRA INS 15	142	58	37	118	72
HEATGUARD ULTRA INS 20	164	58	37	121	75



## Flow Characteristics



## Materials

Body:	Forged DZR Brass
Internal Components:	DZR Brass
Seals:	Viton
Springs:	Stainless Steel
Piston:	Polysulphone
Fittings:	DZR Brass
Strainers:	Stainless Steel
Non-Return Cartridges:	PPO-GF (Noryl®)