

# HEATGUARD ULTRA SHARKBITE™



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

Model	Catalogue Number
DN15 Copper	MIXRA11116I
16mm PEX	MIXF11116I
20mm PEX	MIXF11117I

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 required minimum space. HeatGuard Ultra is available in 15mm and 20mm configurations.

## Application

RMC's HeatGuard ultra is a High Performance and High Temperature Tempering Valve suited for use with solar, instantaneous and 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
- Will endure the extreme temperature present in solar installations
- High performance specifications
- Designed especially for situations requiring high valve specification such as fluctuating supply pressures
- SharkBite™ Inlet Connection Fittings
- Ease of installation
- Polyurethane insulation
- Limit energy loss and help protect against freezing - Meets Australian Standard
- Strainers upstream of check valves
- Strainers protect valve from impurities in the water supply; check valves eliminate backflow contamination
- Tamper-proof adjustment
- Dezincification Resistant
- Meets Australian Standard for potable water supply
- Individually tested and calibrated



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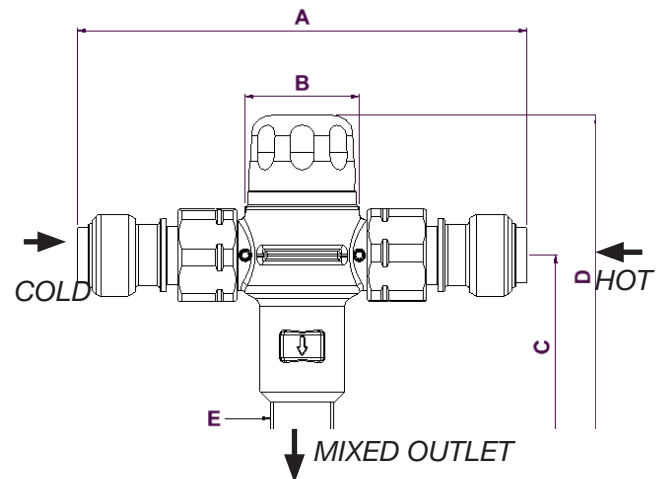
Cold water supply temperature:	5°C - 30°C
Hot water supply temperature:	60°C - 99°C <sup>1</sup>
Optimum outlet temperature range:	40°C - 50°C <sup>2</sup>
Set temperature:	Must be commissioned on site to achieve desired outlet
Accuracy of outlet temperature:	± 3°C - tested to AS4032.2 between 40°C and 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
SharkBite™ Fittings Supplied:	Inlet Connections (strainers & non-return checks included)

## Notes:

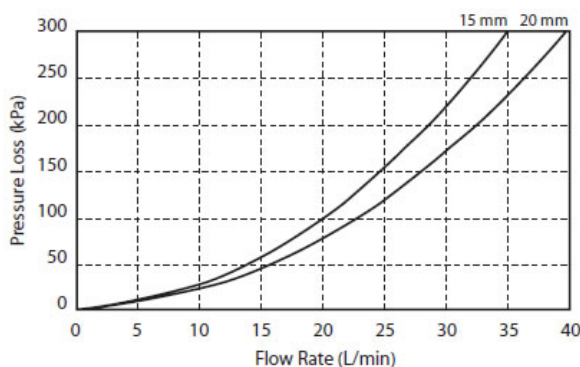
- AS3500.4.2 Clause 1.6 requires the minimum hot water storage temperature to be 60°C.
- For applications outside the requirements of AS/NZS 3500 and AS4032.2, it may be possible to set the valve as high as 55°C or as low as 35°C, depending on site conditions.
- This is the minimum difference required 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.

## Dimensions

Model	A	B	C	D	E
HeatGuard Ins DN15 Copper	148	37	60	107	1/2C
HeatGuard Ins 16mm PEX	148	37	60	107	1/2C
HeatGuard Ins 20mm PEX	158	38	60	107	3/4C



## Flow Characteristics



## Materials

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