

HeatGuard® Ultra SharkBite®

Scope of Use / Specification Sheet

The RMC 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.

Product Code	
Model	Product Code
HeatGuard® Insulated 16mm PEX	MIXF111161
HeatGuard® Insulated 20mm PEX	MIXF111171
HeatGuard [®] Insulated DN15 Copper	MIXRA11116I

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

Description

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.

The valve 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.



Features and Benefits

- High thermal endurance
- Will endure the extreme temperature present in solar installations
- High perfomance specifications
- Designed especially for situations requiring high valve specification such as fluctuating supply pressures
- SharkBite[®] Inlet Connection Fittings
- Polyurethane insulation
- Limit energy loss and help protect against freezing Meets Australian Standard
- Strainers upstream of check valves and protect valve from impurities in the water supply; check valves eliminate backflow contamination
- Tamper-proof adjustment
- Dezincification Resistant
- Easy to install, individually tested and calibrated, and meets Australian Standard for potable water supply

Application

RMC's HeatGuard® Ultra is a high performance and high temperature tempering valve. It is suited for use with solar, instantaneous and heat exchange (continuous flow), and pumped ring main hot water distribution sytems. HeatGuard® Ultra is suitable as a point of use tempering device.

Do NOT use on steam supplied systems.

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 3500.1.

Standards and Approvals



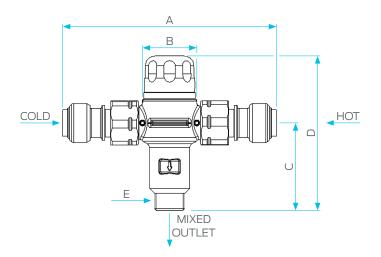


HeatGuard[®] Ultra **SharkBite**[®]

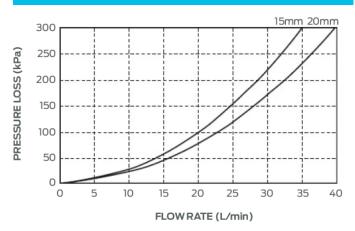
Technical Specifications	
Cold water supply temperature	5°C to 30°C
Hot water supply temperature	60°C to 99°C ¹
Optimum outlet temperature range	40°C to 50°C ²
Set temperature	Must be commissioned on site to achieve desired outlet temperature
Accuracy of outlet temperature	± 3°C - tested to AS 4032.2 between 40°C and 50°C
Minimum temperature differential (between hot supply and outlet temperature)	10°C3
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 $\pm 3^{\circ}$ C (from supply pressure at commissioning)	±15% maximum ⁵
Minimum flow rate	4L/min
SharkBite® Fittings Supplied	Inlet connections (strainers and non-return checks included)

Dimensions Size Α С D E В 16mm PEX (Ins) 148 37 60 107 1/2C 20mm PEX (Ins) 158 38 60 107 3/4C DN15 Copper (Ins) 148 37 60 107 1/2C

Note: All measurements in mm unless otherwise stated.



Flow Characteristics



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 to view the warranty statement in full and for further important information.

rmc.com.au | 1800 810 803 | sales@rmc.com.au

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Hot water supply temperature	60°C to 99°C ¹
Optimum outlet temperature range	40°C to 50°C ²
Set temperature	Must be commissioned on site to achieve desired outlet temperature
Accuracy of outlet temperature	± 3°C - tested to AS 4032.2 between 40°C and 50°C
Minimum temperature differential (between hot supply and outlet temperature)	10°C3
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 $\pm 3^{\circ}$ C (from supply pressure at commissioning)	±15% maximum ⁵
Minimum flow rate	4L/min
SharkBite® Fittings Supplied	Inlet connections (strainers and non-return checks included)

Notes

- 1 AS/NZS 3500.4.2 Clause 1.6 requires the minimum hot water storage temperature to be 60°C.
- For applications outside the requirements of AS/NZS 3500 2 and AS 4032.2, 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 3 of outlet flow in the event of cold supply failure, in accordance with AS 4032.2, 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 $\pm 3^{\circ}$ C.