

# Solar Non-Return Valves

## Scope of Use / Specification Sheet

The RMC Solar Non-Return Valve is a high temperature non-return valve suitable for use on solar water heater systems.



NRX007

### Product List

Order Code	Description
NRX007	Solar Non-Return Valve

### Materials

Body	Lead Free DZR Brass
Check Valve	Ultem
O-Ring	EPDM

### Description

RMC Solar Non-Return Valves prevent the backflow of heated water from a water heater to the mains line. This serves the dual purpose of protecting the mains supply from contamination and prevents the loss of water that has already been heated.

Solar and uncontrolled heating systems present an increased hazard to downstream components as water can become superheated and potentially flash to steam. Only high temperature non-return valves such as the Solar Non-Return Valve should be used in these circumstances.

### Features and Benefits

- Solid brass construction
- Robust and reliable components
- High temperature resistant internals
- Tolerant of extreme temperatures found in uncontrolled heat source applications
- Dezincification resistant lead free brass
- Meets Australian Standard AS/NZS 4020 for potable water supply
- Suitable for horizontal or vertical installation

### Application

RMC Solar Non-Return Valves should be installed such that the direction of flow allows unheated water to travel in one direction, whilst preventing the return flow of heated water.

RMC recommends the use of a Solar Non-Return Valve on any water heater system where an uncontrolled heat source is used, or where the heated water temperature may exceed the rated supply temperature of a regular non-return valve.

# Solar Non-Return Valves

## Technical Specifications

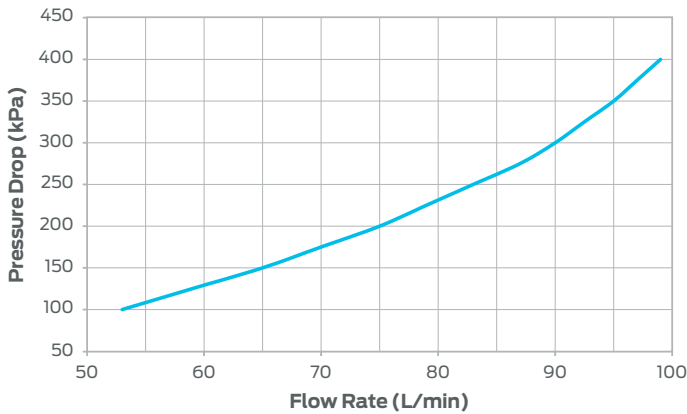
Maximum Supply Temperature	170°C *
Maximum Supply Pressure	1400kPa
Maximum Flow Rate	90 L/min
Inlet Thread	1/2" BSP Male Tapered
Outlet Thread	3/4" BSP Male Tapered
Body Finish	Lead Free DZR Brass

\* Product is rated for use in water up to a maximum temperature of 170°C for no longer than 3 minutes duration, no more than once a day.

## Notes

- Direction of flow when installing valve, as marked on the body.
- The solar non-return must not be installed between an Expansion Control Valve (ECV) and the water heater.

## Flow Characteristics



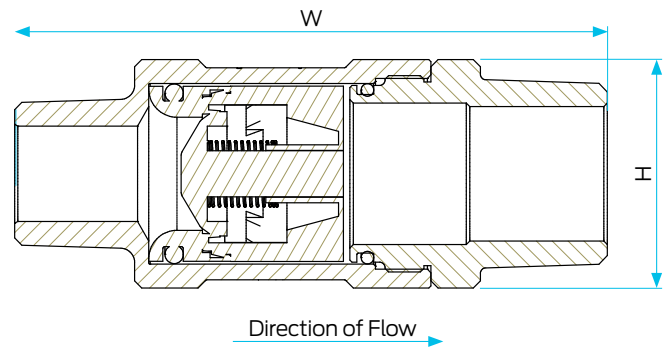
## Standards and Approvals



## Dimensions

Order Code	Width (W)	Height (H)
NRX007	84	33

Note: All measurements in mm unless otherwise stated.



## 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](http://www.rmc.com.au/warranty) to view the warranty statement in full and for further important information.

## 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. This product is compliant to the Lead Free requirements of the National Construction Code Volume Three. For further Scope of Use, please visit [www.rmc.com.au/resources](http://www.rmc.com.au/resources).