

Solar Non-Return Valve

Description

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

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 the loss of water that has already been heated.

Solar and uncontrolled heat 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.



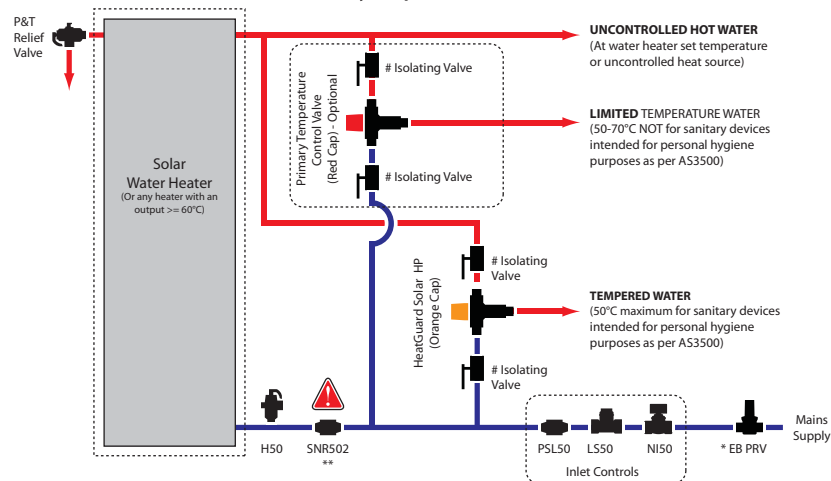
Features and Benefits

- ❖ Solid brass construction
 - » Robust and reliable components
- ❖ High temperature internals
 - » Can tolerate extreme temperatures found in uncontrolled heat source applications
- ❖ Protects downstream products from excess supply temperatures
 - » Reduces damage to downstream appliances and installations
- ❖ Dezincification resistant
 - » Meets Australian Standard for potable water supply
- ❖ Suitable for horizontal or vertical installation
 - » Valve designed to work effectively in either orientation

Application

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

Typical Solar Tempering Valve Installation
(with Primary Temperature Control Valve)



Heater System to be plumbed as per AS3500 and manufacturer's instructions.
Drain lines where required by AS3500 must comply with AS3500.

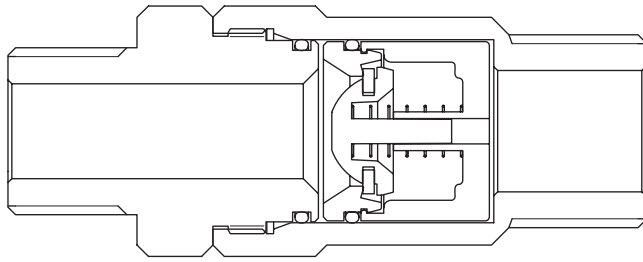
Optional, recommended for ease of maintenance, should be a full flow ball valve.
* Installing a PRV at the boundary is recommended to regulate downstream pressure and is mandated in some states. Consult local water authorities for further information.
** A high temperature non-return valve should be installed. Consult your water heater manufacturer for further information

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Specification

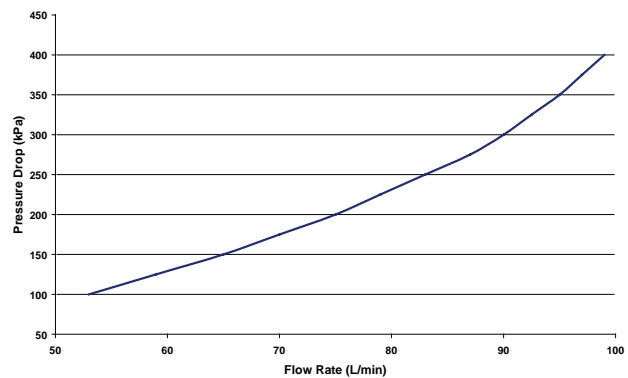
Maximum supply temperature	170°C
Maximum supply pressure	1600 kPa
Flow rate, maximum	90L/min
Threads	Inlet: ½" BSP Male Outlet: ¾" BSP Male
Body Finish:	Machined Brass

Dimensions



Model	Width	Height
SNR502	84 mm	33 mm

Flow Characteristics



Product Notes:

1. 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.
2. Note direction of flow when installing valve, as marked on the body.

Materials

Body	DZR Brass
Check Valve	Polysulphone
O-ring	Silicon