

High Pressure Expansion Non-Return Valve

Description

RMC's High Pressure Expansion Non-Return (HPNR) Valves are suitable for coil type heat exchange water heaters. The valve is a combination non-return and pressure relief device. The non-return prevents the backflow of hot water into the mains supply. The relief valve prevents an over-pressure condition within the coil.

High Pressure Expansion Non-Return Valves limit the maximum pressure in a system by relieving excess pressure to the drain line and are classified as a functional control for this type of application. HPNR Valves should only be installed on the cold or inlet installation on a water heater as the valve is primarily intended to cope with the excess pressure generated during a normal heating cycle.

RMC's HPNR Valve range is available in a 15 mm configuration.



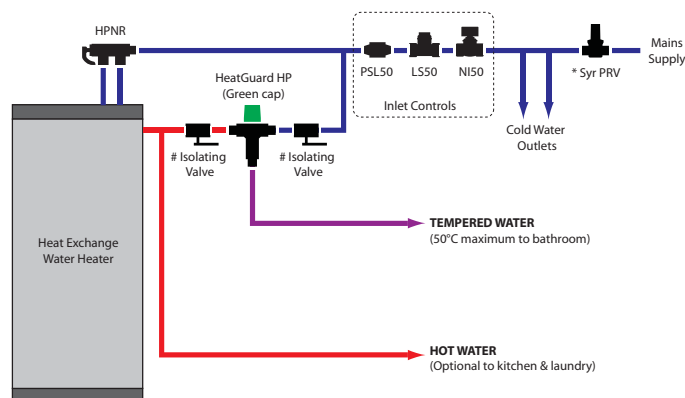
Features and Benefits

- ❖ Economical one-piece construction
 - » One valve meets the requirements of expansion and non-return valve for heat-exchange heaters
- ❖ Increased heating efficiency
 - » Expanded water is directed to the storage tank rather than dumped to waste
- ❖ Auxiliary pressure relief device
 - » Prevents pressure building up in the event of a blockage in the drain line
- ❖ Female BSP thread on outlet thread
 - » Prevents incorrect installation to the system
- ❖ Sealed spring cavity
 - » Prevents spring from seizing in the event of calcification
- ❖ Dezincification resistant
 - » Meets Australian Standard for potable water supply
- ❖ Suitable for horizontal or vertical installation
 - » Valve designed to work effectively in either orientation
- ❖ Individually tested and calibrated
 - » Every valve is tested to ensure higher quality and performance

Application

RMC's HPNR Valve is suitable for installation in water heaters where the dual function of inlet pressure control and cold expansion relief is required (e.g. Coil type heat exchange mains pressure water heaters).

For Heat Exchange Water Heater: Domestic Building

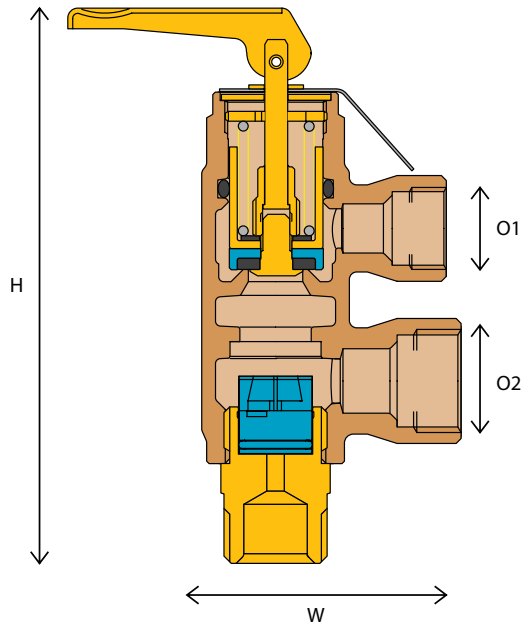


Optional, recommended for ease of maintenance.
* The Pressure Limiting Valve is not necessary when the mains supply to the property is controlled by a Syr pressure reducing valve.

High Pressure Expansion Non-Return Valve

Specification

Maximum temperature:	99° C
Kilowatt Capacity:	10 kilowatts
Inlet Thread:	15 mm Compression
Coil Connection:	15 mm Compression
Static Tank Connection:	10 mm Compression
Pressure Setting:	1400 kPa



Dimensions

Model	Width (W)	Height (H)	Outlet (O1)	Outlet (O2)
HPNR	113	53	DN10	DN15

NB: All dimensions in millimeters unless otherwise stated.

Materials

Body	Cast gunmetal
Internal Parts	Brass and stainless steel
Seat Disc	Silicon
Pressure Spring	Stainless steel

Catalogue Numbers

Model	Catalogue Number
HPNR 15 mm Restricted	HPNR501
HPNR 15 mm Unrestricted	HPNR503