

HIGH PRESSURE EXPANSION NON-RETURN VALVE

RMC water valves

RMC's High Pressure Expansion Non-Return (HPNR) Valves are a combination non-return and pressure relief device.



Model	Catalogue Number
HPNR 15mm Unrestricted	HPNR503

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.

HPNR 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 supply of 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 is available in a 15mm configuration.

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).

Performance Specifications

Maximum Temperature	99°C
Kilowatt Capacity	10 kilowatts
Inlet Thread	DN15Cn
Coil Connection (Refer to O2 below)	G3/8 Female
Static Tank Connection (Refer to O1 below)	G1/2 Female
Pressure Setting	1400 kPa

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
- 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
- Individually tested and calibrated

Materials

Body	DZR Forged Brass
Spring	Stainless Steel
O-ring	Nitrile
Seal	Silicon
Check Valve	EPDM, POM Stainless Steel



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Dimensions

Model	H	W	I	O1	O2
HPNR	119	53	DN15	DN15	DN10

All dimensions in millimeters unless otherwise stated

