

High Pressure Expansion Control Valves

Description

High Pressure Expansion Control Valves limit the maximum pressure in a pressurised, unvented water heater system by relieving excess pressure to the drain line. The valve is a functional control for this type of application.

High Pressure Expansion Control 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 High Pressure Expansion Control Valves are available in 15 mm and 20 mm configurations.



Features and Benefits

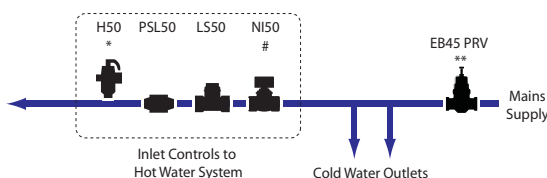
- ❖ Increased heating efficiency
 - » Releasing pressure at the inlet saves energy by not purging heated water
- ❖ Auxiliary pressure relief device
 - » Use of an expansion control valve for pressure relief leaves the pressure and temperature relief valve to perform only a safety valve function.
- ❖ 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

Application

The RMC High Pressure Expansion Control Valve range of relief valves are suitable for use on water heater inlets or for any application where expansion safeguards are necessary. RMC recommends installing an High Pressure Expansion Control Valve as part of a complete inlet control system for water heater applications.

Please ensure that the set pressure of the High Pressure Expansion Control Valve is suitable for use with the water heater it will be installed with. For more information refer to the RMC Valve Application Guide.

Cold Water Expansion Valve Installation (As part of an Inlet Control Group)



* Drain line must comply with AS3500

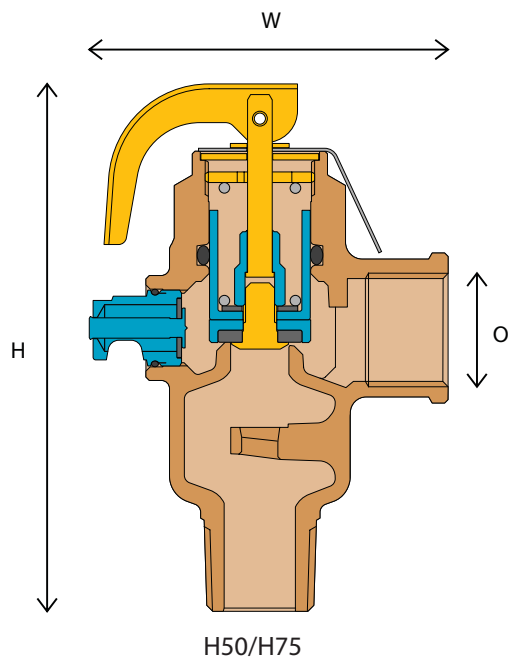
** Some states mandate pressure reduction at the mains supply to a domestic installation. Check with your local water authority to ensure compliance.

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Specifications

Model	Inlet (M.I.) mm	Outlet (F.I.) mm	Kilowatt Capacity	Maximum Temperature	Standard Pressure Settings Available (kPa)				
					550	700	850	1200	1400
H50	15	15	20 kW	99° C	✓	✓	✓	✓	✓
H75	20	20	60 kW	99° C	✓	✓	✓	✓	✓

1. H75 model is suitable for use on instantaneous hot water systems.



Dimensions

Model	Width (W)	Height (H)	Outlet (O)
H50	66	98	DN15
H75	71	100	DN20

NB: All dimensions in millimeters unless otherwise stated.

Product Notes

1. The set pressure of the *High Pressure Expansion Control Valve* should be no more than 80% of the working pressure of the water heater it is installed with.

Materials

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

Catalogue Numbers

Model	550 kPa	700 kPa	850 kPa	1200 kPa	1400 kPa
H50	H502	H504	H506	H511	H513
H75	H702	H703	H704	H707	H708