PRESSURE AND TEMPERATURE RELIEF VALVES
Specification Sheet

Reliance WATER CONTROLS
The Safety Valve Specialist

TPR15 and TPR22 ranges

Features and Benefits

- **Protects against temperature rising beyond 95°C**
- **Prevents over pressurisation**
- **Twist top cartridge design**
- **Range of different pressure settings**
- **Complete with PTFE coating (some models)**



WRAS APPROVED PRODUCT

Description

Compact pressure and temperature relief valves designed to provide protection against over pressurisation, which can occur within an unvented hot water system if the input temperature or pressure controls fail. The valves are designed to be fitted to the upper portion of a hot water cylinder as this is where the hottest temperatures in the system will be found. If the system rises above 95°C, the wax mixture within the element of the temperature probe will expand, this will lift the valve off its seat and release water to waste, therefore reducing the pressure within the cylinder. Also if the water pressure increases (without temperature increase) the valve will stay closed until the set pressure of the relief mechanism is reached, at which point the valve will again open and the excess pressure is relieved. Some models come complete with a PTFE coating on the MBSP inlet thread which can save valuable time on installation.

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Specifications

Temperature relief		90-95°C
Pressure relief tolerance		+/-5%
kW rating:	TPR15 range	10kW
	TPR22 range	25kW
Maximum ambient temperature		100°C
Short probe length		30mm
Standard probe length		95mm
Long probe length		200mm

Approvals

WRAS No. 0910311

Standards

BS EN 1490

Product Codes

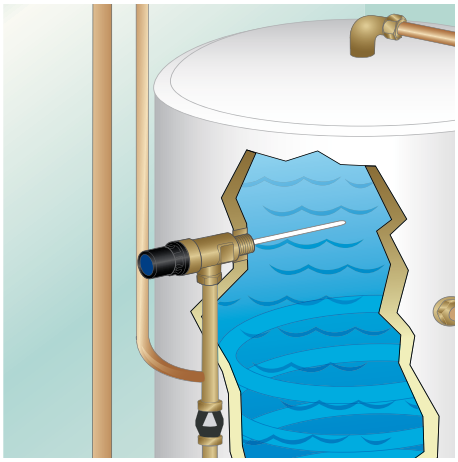
TPR15 Pressure & Temperature Relief Valves

Code	Connection size	Pre-set pressure setting
Standard Probe		
PTEM 550 852	½"MBSP x 15mm	7bar w/o PTFE
PTEM 550 853	½"MBSP x 15mm	10bar with PTFE
PTEM 550 854	½"MBSP x 15mm	7bar with PTFE
PTEM 550 855	½"MBSP x 15mm	4bar with PTFE
PTEM 550 856	½"MBSP x 15mm	4.5bar with PTFE
PTEM 550 857	½"MBSP x 15mm	6bar with PTFE
PTEM 550 954	15mm x 15mm	7bar
Short Probe		
PTEM 550 870	½"MBSP x 15mm	7bar w/o PTFE
Long Probe		
PTEM 550 951	½"MBSP x 15mm	7bar w/o PTFE
PTEM 550 953	15mm x 15mm	7bar
PTEM 550 955	½"MBSP x 15mm	10bar w/o PTFE

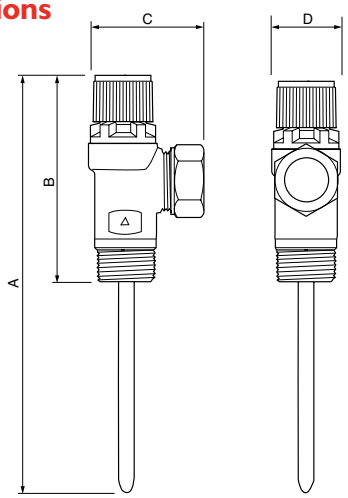
TPR22 Pressure & Temperature Relief Valves

Code	Connection size	Pre-set pressure setting
Standard Probe		
PTEM 575 200	¾"MBSP x 22mm	4.5bar w/o PTFE
PTEM 575 205	¾"MBSP x 22mm	7bar w/o PTFE
PTEM 575 210	¾"MBSP x 22mm	10bar w/o PTFE
Short Probe		
PTEM 575 870	¾"MBSP x 22mm	7bar w/o PTFE
Long Probe		
PTEM 575 250	¾"MBSP x 22mm	7bar w/o PTFE

Typical installation



Dimensions



Product Code	A	B	C	D
PTEM 550 852	187	88	49	31
PTEM 550 853	187	88	49	31
PTEM 550 854	187	88	49	31
PTEM 550 855	187	88	49	31
PTEM 550 856	187	88	49	31
PTEM 550 857	187	88	49	31
PTEM 550 954	187	88	49	31
PTEM 550 870	124	88	49	31
PTEM 550 951	291	88	49	31
PTEM 550 953	291	88	49	31
PTEM 550 955	291	88	49	31
PTEM 575 200	187	98	52	31
PTEM 575 205	187	98	52	31
PTEM 575 210	187	98	52	31
PTEM 575 870	124	98	52	31
PTEM 575 250	291	98	52	31

All dimensions shown in mm unless otherwise stated

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