



WATERWARE

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#### WARRANTY

If any material defect arising from the manufacturing process is found in a new tap or valve Waterware Services Ltd. will undertake to repair or replace it (at its option). This undertaking will not apply if:

1. The defect is brought to Waterware's attention later than 5 years from the date of manufacture.
2. Failure by any person to follow installation instructions or installation in an environment outside the recommended limitations or relevant NZ and or Australian Standards and local plumbing codes. No installation should proceed without installation instructions and claims instructions were missing are not accepted as a means of avoiding this condition.
3. Evidence cannot be produced which confirms that the relevant tap or valve was purchased from a known customer of Waterware Services Ltd.
4. Repair work is undertaken without prior arrangement with Waterware Services Ltd.
5. Normal maintenance requirements, refer to specific product maintenance guides.

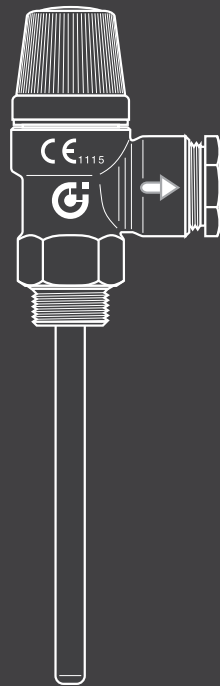
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..... in addition to all other rights and remedies had by the Purchaser in law in respect of the valve and does not limit the right the Consumer may have under the Consumers Guarantee Act 1993.

..... subject to the exceptions and conditions previously listed. All expressed or implied conditions, statements or warranties as to the quality or fitness on any purpose of a tap or valve or otherwise are hereby expressly excluded to the fullest extent permitted by law except under conditions and warrants which cannot be legally excluded by law and which are intended in the contract for the supply of the valve by the Trade Practises and any other Act of Law.

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## Caleffi TPR Valve



### Technical Installation Manual

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# Caleffi Temperature and Pressure Relief Valve

The TPR valve controls and limits the temperature and pressure of the hot water contained in a domestic storage heater and prevents it from being able to reach temperatures of over 100°C with the formation of steam.

On reaching the settings, the valve discharges a sufficient amount of water into the atmosphere so that the temperature and pressure return within the system's operating limits.

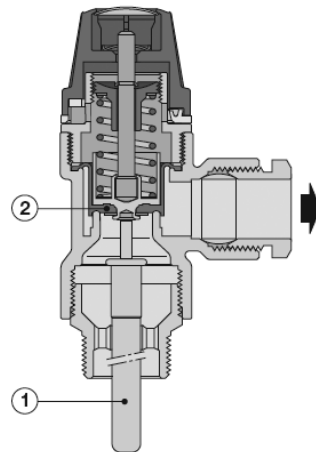
## Operating Principle

The valve opens the outlet on reaching the settings for:

- Temperature: the thermostat compound inside the temperature sensor 1. submerged in the hot water storage heater, expands as the temperature increases. This expansion causes a thrust pin to move and act on the obturator 2. opening the valve. The valve is set to open at temperatures of over 90°C.

- Pressure: the obturator, opposed by a set spring, raises on reaching the pressure setting and opens the outlet completely. The pressure setting is chosen according to the maximum permissible pressure in the system.

As the temperature and pressure decrease, the opposite action occurs with the valve subsequently reclosing within the set tolerances.



## Installation

Before installing a TPR valve it is necessary for the sizing to be performed correctly by specialized technical personnel in accordance with the current regulations for the specific applications. Any use other than the intended use is prohibited.

The TPR valve must be installed by qualified technical personnel in accordance with current regulations. The TPR valve must be installed observing the direction of flow indicated by the arrow on the valve body

## Assembly

### Plumbing System

TPR valves must be installed on the top of the water storage heater, making sure that the temperature sensor is correctly submerged in the tank.

Make sure that there are no shut-off devices between the valve and the storage heater.

TPR Valves can be fitted vertically or horizontally, but not overturned. This prevents debris from impairing operation

