

5445

temperature relief valve
with manual discharge



altecnic

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Application

The Altecnic 5445 temperature relief valve is used to ensure safety in heating systems using solid fuel boilers.

The Altecnic 5445 is used when there is no emergency heat exchanger and when the heat output is less than 35 kW.

Construction Details

Component	Material	Grade
Body	Brass - chrome plated	BS EN 12165 CW617N
Control Stem	Brass - chrome plated	BS EN 12164 CW614N
Spring	Steel	
Seals	EPDM	

Technical Data

Medium:	water, glycol solution
Max. percentage glycol:	30%
Max. working pressure:	6 bar
Max. working temperature:	120°C
Set temperature:	100°C (+0°C/-5°C)
Discharge flow rate at 110°C and Δp 1 bar:	1800 l/h

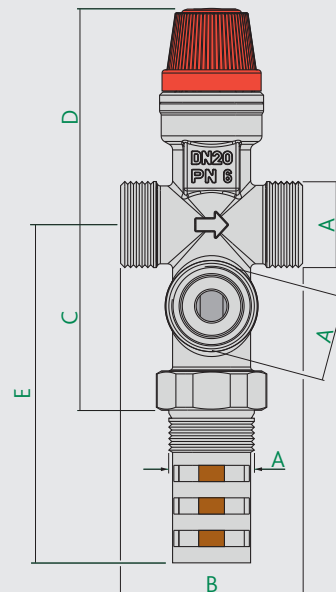
CE Mark

The 543 temperature safety relief valve meet the requirements of the European Directive 97/23/CE for pressurised equipment often referred to PED.

They are therefore classified in Category IV and granted the CE Mark.

In addition, the electrical components meet the requirements of Directive 73/23/CE.

Dimensions



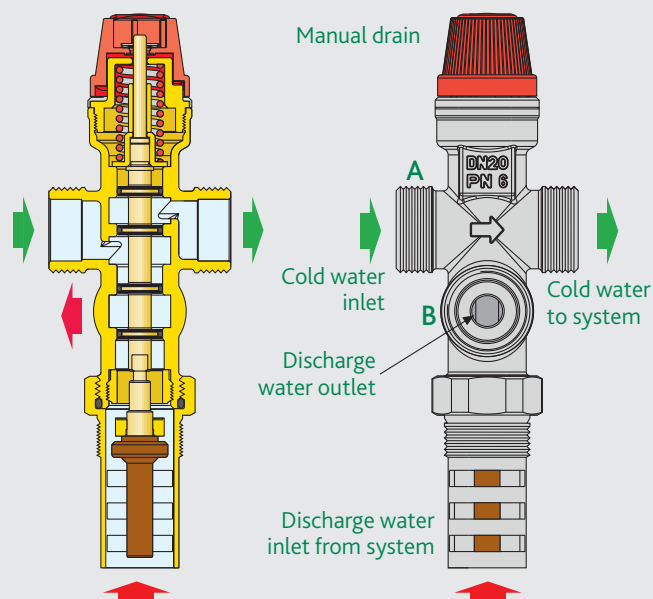
Prod Code	A	B	C	D	E	kg
544501	G $\frac{3}{4}$	56	57	67	104	

Operating Principle

The valve integrates in a single unit a temperature relief valve and a filling valve that operators by means of a sensor in contact with the hot water from the boiler to the heating system.

As the temperature rises, when it reaches the set temperature of 100°C, the cold water inlet (A) and the discharge outlet (B) open simultaneously until the water temperature falls below the reset temperature when the cold water inlet (A) and the discharge outlet (B) close simultaneously.

The discharging hot water from outlet (B) eliminate the excessive heat and at the same time water is replaced with cold water from the mains.



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Installations

The valve may be installed vertically or horizontally but the discharge port (B) must be horizontal or facing downwards.

The valve should be installed at the top of the flow pipe to the heating system or at the uppermost point on the boiler.

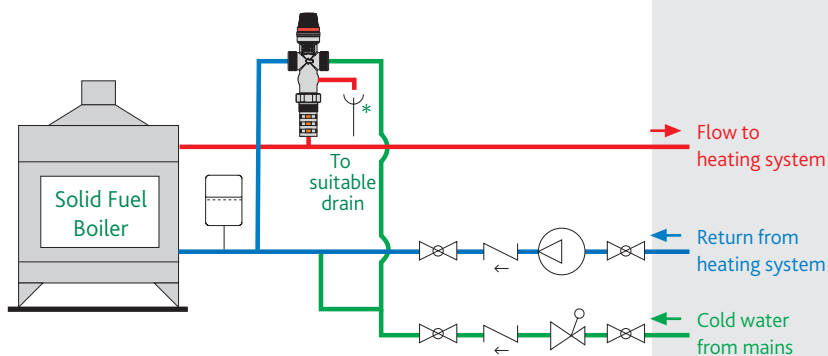
The sensing element must be fully submerged in the hot water.

The valve must be connected to the mains water supply without any type of isolating valve to interrupt the supply of cold water should it be needed.

* The discharge from a temperature relief valve should be through a tundish to a suitable drain.

Rules governing the installation of a tundish are specified in the Water Supply (Water Fittings) Regulations and the Water Byelaws in recommendation R19.3.

Typical Installation



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