Safety groups for hot water storage heaters

Art. 750 – 752

100% MADE IN ITALY

Function

I The safety groups are protection devices, used in sanitary systems, on both electric and gas water heaters. Their main function is to protect the storage water heaters from internal overpressures, allowing the passage of water from the inlet source to the water heater.

The safety groups are composed of different components, in particular:

- A **safety valve** calibrated at 7 bar in order to prevent the fluid contained in the circuit from exceeding this set-point limit;
- An **anti-pollution device**, to avoid the return of hot water from the heater into the supply piping. The device can be inspected, as required by the reference standard, and self-cleaning, with particular reference to limestone residues, increasing in this way the life of the product;
- **Shut-off screw valve**, to isolate the cold water supply from the heater, thus allowing its maintenance.

Pintossi+C safety groups comply with the European Standard **UNI EN 1487** according to the Ministerial provision of Productive Activities n ° 829571 of 26 March 2003.

Product range

Art. 750	Vertical safety group	7 bar
Art. 752	Horizontal safety group	5 - 7 bar
Art. 753	Siphon for safety group	

Technical specifications

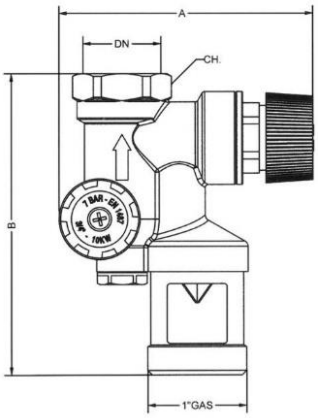
Fluid:	Water
Max working temperature:	120°C
Max working pressure:	10 bar
Safety valve calibration:	7 bar
Safety valve tolerance:	+/- 1 bar
Discharge Flow rate at 8,5 bar (+20% FT):	With water: >600 l/H – with steam: >220 Kg/H

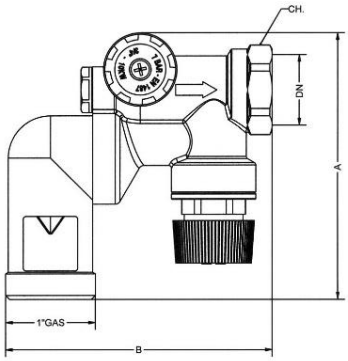
Materials

Brass:	Brass CW617N nichel plated
Caps:	Nylon 30% fiber glass
Diaphragm:	EPDM
Spring:	Stainless steel
Control knob:	ABS
Check valve:	Class A

Dimensions

ART.	A	B	CH
750 – HORIZONTAL	85	100	30
752 - VERTICAL	98	100	30





Exhaust siphon

The filling units can be combined with the dedicated exhaust siphon Art.753. The dimensional and geometric characteristics of the siphon are the same as those prescribed by the EN 1487 Standard, in order to prevent water leaks during the safety valve discharge operations.

Fluid characteristics

Reference standard for water treatments in heating systems is Norm UNI 8065:2019 which regulates the parameters that must be observed to avoid scale and corrosion phenomena.
In order to grant product warranty, the fluid characteristics must comply with the rules in force in the country of relevance or at least present features not less to the ones prescribed by the Norm UNI 8065:2019.
In particular, minimum standards necessary but not sufficient to control are the following:

Fluid aspect:	Limpid
PH:	Between 7 and 8
Iron (FE):	< 0,5 mg/kg (< 0,1 mg/kg for steam)
Copper (CU):	< 0,1 mg/kg (< 0,05 mg/kg for steam)
Antifreeze:	Passiveted Propylene Glycol
Conditioning:	as indicated by the producer

In any case when using antifreeze and conditioning solutions, is required to control and verify the correct compatibility between these substances and the construction materials stated in Pintossi+C technical datasheet.