

Automatic air vent valve for solar system

S110

/ Function

The automatic air vent valve, Art.S110, has the function of eliminating the air that accumulates inside the systems without the need for manual intervention.

This avoids corrosion, air pockets located in the heating bodies and cavitation in the circulation pumps.

/ Products

Art.	Code	Size	Description
S110	93S110AD05	G 1/2" M	Automatic air vent valve for solar system

Tab. 1



/ Technical features

PERFORMANCE

Working fluid:	Water and glycolic solutions
Max. percentage of glycol:	50%
Max. working temperature:	160°C (peak for 1 hour); 130°C (continuous)
Min. working temperature:	-30°C
Max. working pressure:	10 Bar
Max. discharge pressure	6 Bar

Tab. 2

MATERIALS

Body and cover:	Brass CB754S (EN 1982)
Floater:	Polypropylene
Cap and mechanism:	CW614N
OR and rubber seal:	Silicon
Cup:	Reinforced phenylene polysulfide at 40% with glass fiber
Spring and sensor:	Stainless steel AISI 302

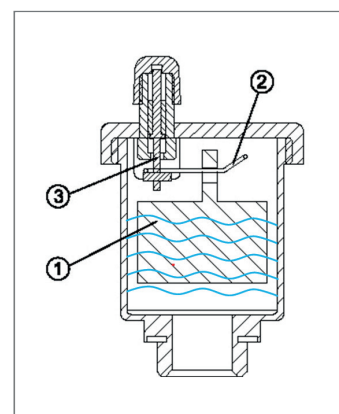
Tab. 3

/ Operating principle

The accumulation of air bubbles in the valve body causes the lowering of the level of the liquid contained in it and consequently the descent of the float (1) downwards. The downward float pulls down the lever (2) which being connected directly to the obturator (3) entails the opening and the consequent expulsion of the excess air.

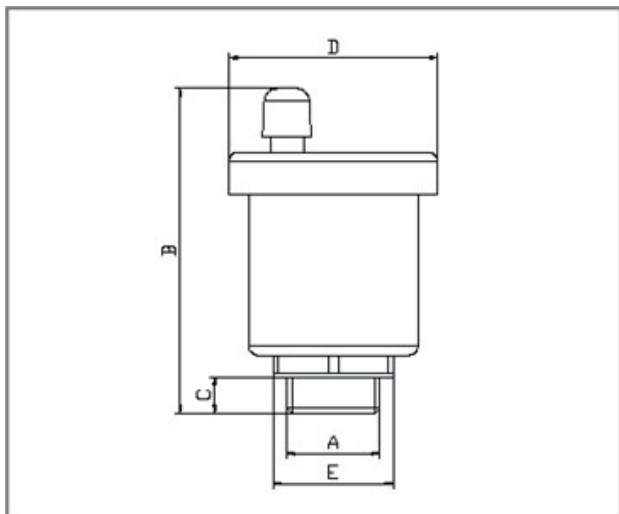
The expulsion of the air continues until the liquid level returns to the quiet position, in this way the float rises and the shutter closes again.

This operating system is fully automatic and is guaranteed as long as the system pressure does not exceed the declared maximum discharge pressure of 6 bar



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/ Dimensions



A	B	C	D	E
G 1/2"	74	8	47	Ch.27

Tab. 4

/ Installation

The air vent valves must be installed in a vertical position.

It is recommended to install them in the points of the installation where the possibility of air pockets is expected.

During normal operation the upper cap must be loosened.

The installation of these valves in places where there is risk of frost is not recommended.