



## Braukmann E121S

Automatic air vent  
for solar installations

### APPLICATION

The air vent is used to automatically ventilate fluid-filled systems, preferably in solar installations.

Air in heating systems and other fluid-filled systems frequently causes disruptions in water cycles, as well as corrosion and noise. Therefore pay particular attention to a good ventilation.

### SPECIAL FEATURES

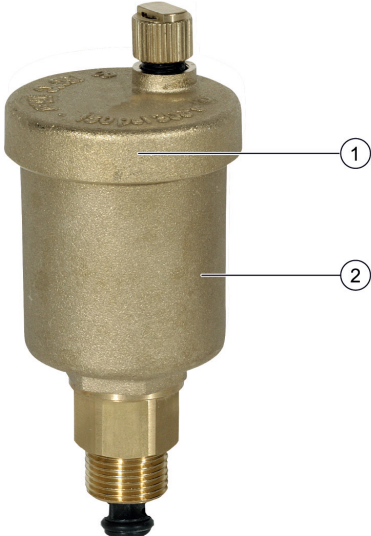
- Absolutely drip free
- Long-term reliability
- High ventilation capacity
- Cleaning or exchange of the sealing and internal parts after additional installation of the AVSOLAR shut-off valve is possible without emptying the system
- Extremely quick reaction
- Particularly compact



### TECHNICAL DATA

<b>Media</b>	
Medium:	Water
<b>Operating temperatures</b>	
Max. operating temperature medium:	150 °C (not suitable for steam)
<b>Pressure values</b>	
Nominal pressure:	10 bar
Max. operating pressure:	0.5 - 10 bar
<b>Connections/Sizes</b>	
Connection sizes:	G3/8" or G1/2"

## CONSTRUCTION

Overview	Components	Materials
	<b>1</b> Lid	Brass
	<b>2</b> Housing	Brass
	<b>Not depicted components:</b>	
	Spring	Stainless steel
	Float	High-grade, heat-resistant synthetic material
Seals	Temperature- and aging-resistant elastomer	

## METHOD OF OPERATION

Inside the automatic air vent there is a floater which operates a lever according to the water level. When there is no water in the housing, then the floater opens the valve. Air can therefore be vented from the heating system during filling. When the heating system has been filled, the inflowing water closes the valve and the vent is shut-off. Water usually contains oxygen which bubbles off during operation of the system and collects at the highest point. The automatic air vent must therefore be fitted at the air collection position (highest point on a boiler or pipework circuit).

## TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

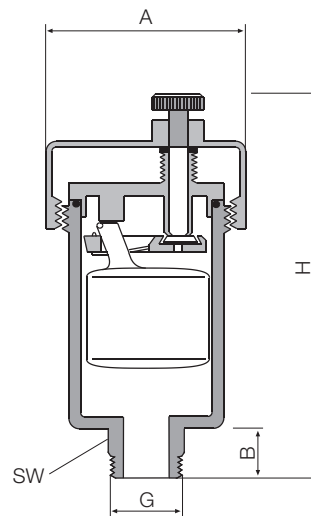
The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	90 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

\*non condensing

## DIMENSIONS

### Overview



Parameter		Values	
Connection size:	G	3/8"	1/2"
Dimensions:	H	82	82
	A	47	47
	B	10.5	10.5
	SW	23	23
Weight:	kg	0.18	0.19

Note: All dimensions in mm unless stated otherwise.

## ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.


### Options

The valve is available in the following sizes: G<sup>1/2</sup>", G<sup>3/8</sup>"

- standard
- not available

		E121S-3/8A	E121S-1/2A
Connection sizes:	G <sup>3/8</sup> " (12 pieces)	•	–
	G <sup>1/2</sup> " (12 pieces)	–	•

**Accessories**

	Description	Dimension	Part No.
	<b>AVSOLAR Shut-off valve</b>		
	Brass housing, high-grade, temperature-resistant plastic internal parts, hot water-resistant elastomer sealing ring		
	Size: 3/8"		AVSOLAR-3/8
Size: 1/2"		AVSOLAR-1/2	



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