Automatic Air Vent "Micro" with Stopvalve

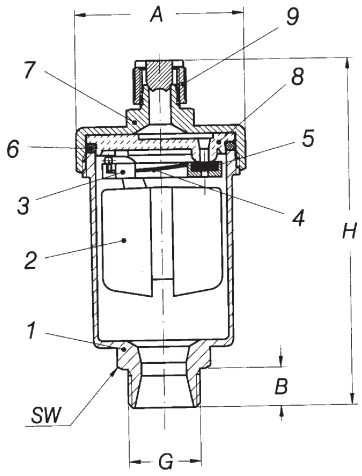
Structural Pressure 12 bar (174 psi)
Working Pressure 8 bar (116 psi)
Temperature Rating max. 110°C (230°F) water (no steam)

Brass Body and Cap

1	CuZn40Pb2 - DIN EN 12165
2	Polypropylene
3	Norylic Resin
4	Stainless steel AISI 302
5	NBR 50 Shore
6	NBR 70 Shore
7	CuZn40Pb2 - DIN EN 12165
8	Polyacetalic
9	Polypropylen

G	A	H	B	SW
1/8	39	80	10.5	19
1/4	39	80	10.5	19
3/8	39	78	8.8	22
1/2	39	80	10.5	22

Dimensions in mm, 1 inch = 25,4 mm



Application

The automatic air vent purges air from liquid-filled systems. It is designed for use on closed hydronic systems. It is not used on systems contaminated with oil or petroleum based additives or on steam.
The maximum temperature is 110°C (230°F), the maximum structural pressure 12 bar (174 psi).

Installation

The air vent is installed at locations where air will accumulate. This is usually the highest point in the system. Before the installation of the vent the system has to be cleaned very well. Otherwise scale and dirt might deposit in the seat/disc area of the float assembly causing malfunction of the vent.
Use always a stopvalve (isolating valve) under the air vent. This allows to remove and service the air vent without draining the hydronic system.
Moreover we recommend to install the air vent in the supply line of the heating system. The pipe where the vent is screwed in should be extended.

The vent must be mounted vertically for proper operation. Screw the vent into the stop valve by hand. As the 3/8" and 3/8" x 1/2" stop valve comes with an O-ring do not use additional sealants.

Do not remove the vent cap on top of the air vent to prevent dirt particles from rushing into the valve and causing malfunctioning of the vent.
Wherever there is a possibility of water damage, use a waste connector and run tubing to nearest drain.

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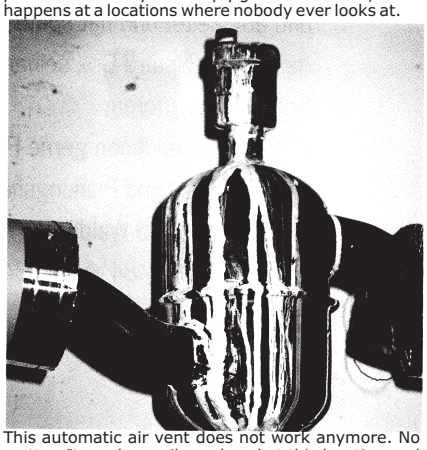
Install automatic air vent absolutely at easy accessible locations

During a visit of a heating installation in Ravensburg we saw this automatic air vent. On this occasion we want to point out the following: Please install automatic air vent only with stopvalve for easier replacement of the vent and only at easy accessible locations. This vent certainly has to work under especially hard conditions in a solar heating system with very high supply temperatures.
There is no reason to make badly this small, useful products. But they can simply get broken. Woe, if this happens at a locations where nobody ever looks at.



This automatic air vent does not work anymore. No matter. It can be easily replaced at this location and thanks to the stopvalve. (But the installer has also to become aware of it.)

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Maintenance

Depending on the condition and the quality of the liquid the air vent has to be serviced regularly.
It is therefore an advantage if the air vent is mounted on easy accessible locations. If dirt and scale cause the vent to leak it can be replaced without draining the system if the stopvalve has been used. On this occasion a small amount of water can escape between vent and stopvalve.

Operation

The air vent features a removable float assembly which opens and closes the vent hole in the cap.
If there is any air in the system, the air accumulates at the highest point where the air vent is installed. The level of the water reduces and pulls the lever of the float down. This opens the vent hole and allows air to pass up through the vent cap.
As the air is released, water replaces the air in the body of the vent and the float rises. This closes the valve.

Brass

IMT uses only brass according to the latest European norms DIN EN 12165 which corresponds to American norm ASTM C37700 and DIN EN 12164 which corresponds to American norm ASTM C38500.

Advantages

- High venting capacity
- Brass body and cap
- Waste connector available
- 100% electronic leakage control, additional manual leakage control according to AQL and various controls during manufacturing
- 100% made in Europe

Design

Float-controlled air vent with cap which can be unscrewed. Body and cap made of brass, inner components of vent and stopvalve made of stainless steel or high quality plastic. All sealing elements are made of high quality plastic material.

Available in:
Fig. 12001 1/8" NPT
Fig. 12002 1/4" NPT
Fig. 12003 3/8" ISO 228
Fig. 12004 3/8" x 1/2" ISO 228

Stopvalve:
Fig. 11153 3/8" x 3/8" with plastic insert
Fig. 11155 3/8" x 1/2" with plastic insert
Fig. 11164 1/2" x 1/2" with brass insert
Fig. 11166 3/8" x 3/4" with plastic insert