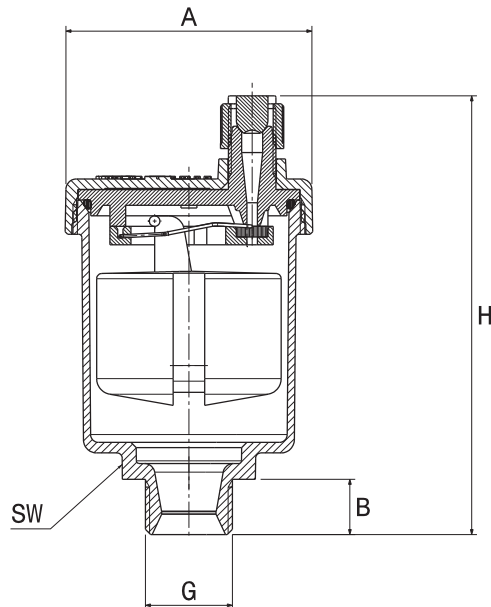


HERZ Automatic Air Vent I 0101

For Solar Plants

Data Sheet I 0101, Issue 0415

☑ Installation Dimensions in mm



Article no.	G	B [mm]	WAF	H [mm]	A [mm]
I 0101 00	3/8"	10.5	23	83	47
I 0101 01	1/2"	10.5	23	83	47

☑ Technical data

Max. permissible pressure	10 bars
Working pressure	6 bars
Max. permissible temperature	150 °C
Installation position	vertical
Medium	Water (without vapor)

☑ Version

Float-controlled automatic air vent with screw-off cover. Brass body and cover (CW617N), brass stop valve (CW614N), stainless steel or plastic interior parts. All sealing elements are made of EPDM.

☑ Area of Application

The automatic air vent is used for the automatic venting of liquid-cooled systems, preferably in solar plants. The maximum operating temperature is 150 °C at a maximum nominal pressure of 10 bar. The air vent is not suitable for steam!

☑ Functional Characteristics

The automatic air vent contains a float connected to a float arm which opens and closes the vent hole in the cover. If air is present in the system, it rises – due to its lower density – towards the highest point where the automatic air vent is located. As a consequence, the water level in the automatic air vent decreases, the float draws the float arm down and thus opens the seal area. This allows the air to escape. Water level and float rise again, and the float arm closes the seal area again.

☑ Installation

The automatic air vent is installed at the highest points of a system as well as at every location where air is expected to accumulate. Prior to installation, the pipelines must be flushed well so as to prevent dirt particles from accumulating in the seal area of the automatic air vent, impairing the air vent's function.

It is imperative to install the stop valve under the automatic air vent. In this way, the automatic air vent can easily be maintained without the need to drain the heating system.

In addition, we recommend to install it in the supply pipe on the pump's pressure side. It may be advantageous to provide for a pipeline extension in the automatic air vent's connection area.

It is mandatory to install the automatic air vent vertically. To ensure proper functioning, the lower end of the stop valve must protrude into a sufficiently wide and free cross section of the pipe. During installation, the sealing is not accomplished at the connecting thread but on the flat face on the body.

The stop valve is provided with an O-ring at the air vent port, rendering the use of Teflon or hemp dispensable.

In order to avoid malfunctions of the automatic air vent due to dirt particles entering from the exterior, the valve cap should remain on the automatic air vent. Opening it by two turns creates a gap underneath the knurled cap and releases a cross-section large enough to guarantee proper functioning.

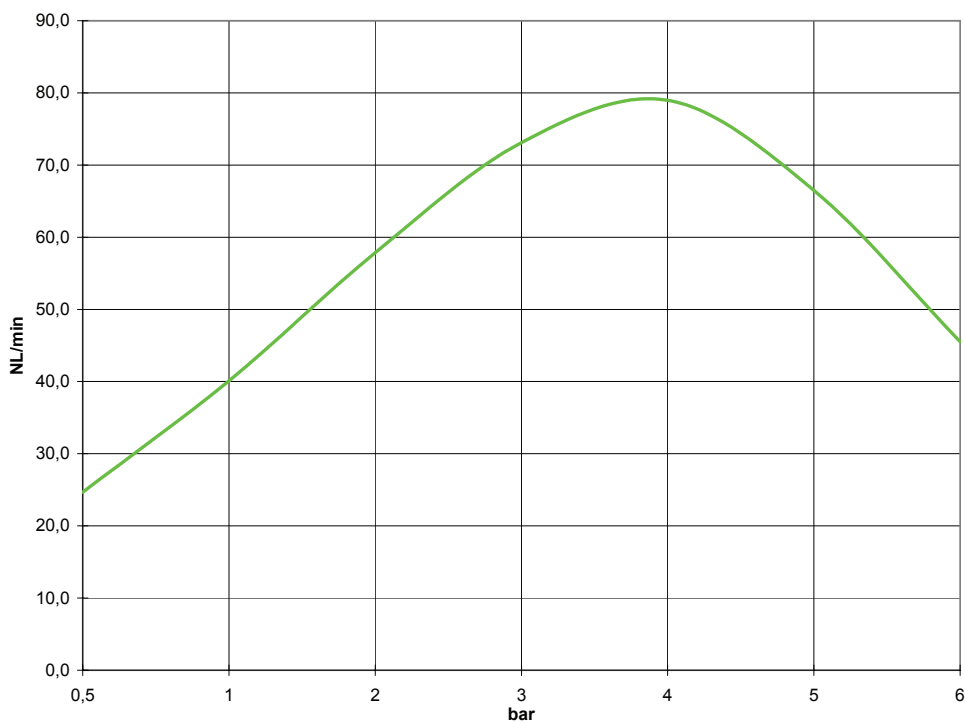
☑ Maintenance

The automatic air vent needs to be maintained on a regular basis as a function of the liquid's composition and quality. It should therefore be installed at locations of the system that are easy to access.

Should the automatic air vent have become leaky due to purged-in or detached dirt particles, it is possible to unscrew it using the supplied shutoff element with the system being under pressure. When doing so, small amounts of water can escape between stop valve and automatic air vent.

Accessories and Replacement Parts

I 0101 02 1/2 Stop valve for automatic air vents



Note: All diagrams are for illustrating purposes only and do not claim to be complete.

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