

AUTOMATIC AIR VENT VALVE



R88

R88I

Description

R88 and R88I automatic air vent valves can discharge the air that formed into the hydraulic circuits of the heating/cooling or sanitary systems. This avoids the onset of negative phenomenon, that could compromise the lifetime and the efficiency of the thermal system. The automatic air vent valves are performing either during the initial phases of the system load where the air quantity to be discharged is high, or during the operation where the discharge shall not happen continuously but intermittently, with modest air amounts to be discharged in a progressive way.

Features and materials

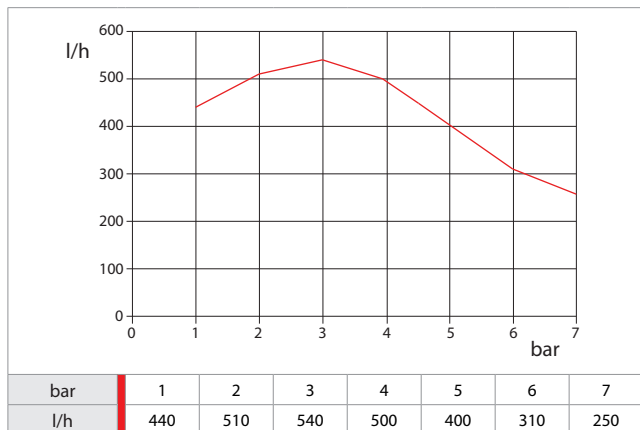
R88 and R88I automatic air vent valves are designed to have a discharge capacity by keeping modest overall dimensions, that makes it usable also in reduced space applications. The components of the discharge mechanism are made by using performing and reliable materials, with particular attention to the maintenance of the mechanical features in time. The o-rings are made of EPDM. The internal spring of the obturator is made of stainless steel. The internal float is in PP-H.

Technical data

- Temperature range: 5÷120 °C
- Maximum working pressure: 14 bar
- Maximum pressure of air vent operation: 7 bar
- Use fluids: water and glycol solutions (maximum 50%)

Performance

The table and the graph report the air capacities in discharge, in standard conditions at the change of the relative pressure of the system.



Installation

R88 and R88I automatic air vent valves are usually installed on each type of manifolds, at "high points" of the pipes where an air pocket could form, on wall heating boilers or ground-floor boilers, near unit heaters or heat exchangers.



Caution

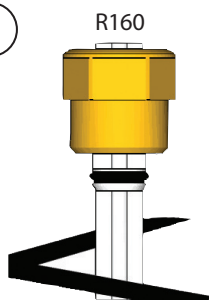
The automatic air vent valves must be installed vertically, with the plug facing upwards. The installation is advisable in places that can be easily inspected.

It is possible combining a R160 isolating valve in sizes 1/4"x3/8" and 1/4"x1/2", to the automatic valve R88. R160 valve permits the disassembly of the valve for possible maintenance, without emptying the system. This combination (valve R88 + valve R160) can be also purchased and it is distinguished by the product code R88I in sizes 3/8" and 1/2".

Instructions for the assembly of R88 valve with R160 isolating valve

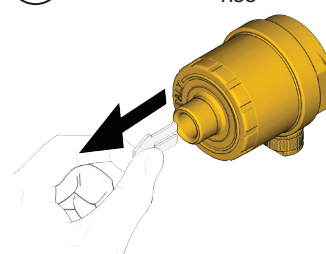
In order to equip the R88 valve with R160 isolating valve, proceed as follows:

1



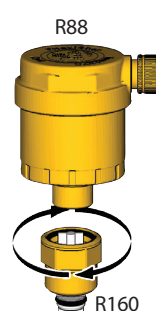
Before screwing the R160 valve, verify that the plastic paddle does not interfere with the parts inside the seat, it is necessary to have a free space of at least 35 mm. If any interference is present, cut the exceeding part of the paddle with a shear.

2



After the screwing of the R160 valve on the installation seat, remove the possible plastic paddle of the automatic air vent valve and proceed with the assembly.

3



Screw the automatic air vent valve to the R160 valve, by making the plastic paddle be guided by the hole of the body of the automatic air vent valve.

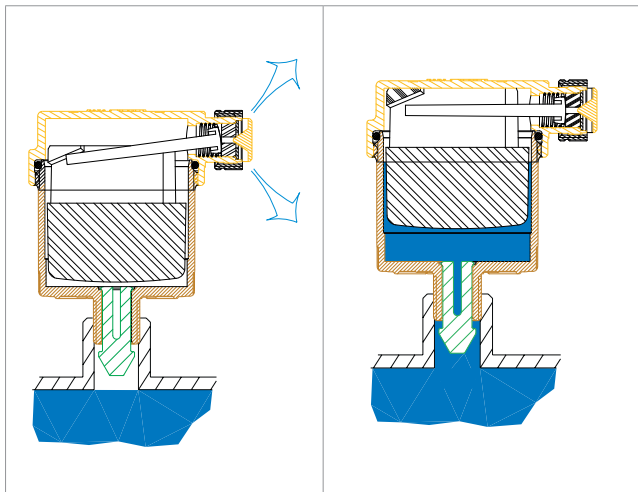
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Operation

The operation of the automatic air vent valve is very simple and it is based on the principle of the floating of bodies immersed in a fluid. When there is no air accumulation into the valve body, the float is in raised position and through the mechanism, it keeps the obturator under closing.

The lowering of the floating level caused by the air accumulation into the valve body, involves the obturator opening and the consequent discharge that persists up to the reintroduction of the initial conditions. At the system load, as there is no water into the valve body, the float is completely down permitting to the air to flow quickly.

The air discharge is prevented by screwing the lateral plug. In normal operation conditions, the plug shall be unscrewed.






Dimensions

Product code	G	L [mm]	H [mm]
R88Y000	1/8"	47	56
R88Y001	1/4"	47	57
R88Y002	3/8"	47	50

Product code	G	L [mm]	H [mm]
R88IY002	3/8"	47	81
R88IY003	1/2"	47	81

Additional information

For additional information please check the Giacomini website at the following address: www.giacomini.com

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