

AUTOMATIC AND MANUAL AIR VENT VALVES

3/8" AND 1/2" AUTOMATIC AIR VENT VALVE WITH LATERAL PURGE

1. DESCRIPTION

The air vent valve is designed to be installed in heating systems in order to automatically remove air from the circuit, thus ensuring a better thermal exchange. Extraction of air from the system helps to eliminate any noise arising from imperfect circulation of the fluid medium.

The air vent valve must always be installed in a vertical position in order to ensure correct operation. The plug should not to be closed completely tight, but left slightly loose in order to allow the discharge of air via an incision on the male thread. The plastic plug is provided with a sealing seat and can be closed if necessary.



Fig.1

With no air in the circuit, the water inside the valve maintains the float in such a position that it can close the shutter.

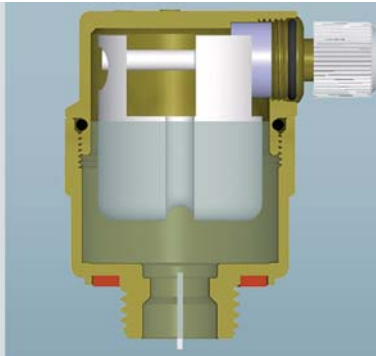
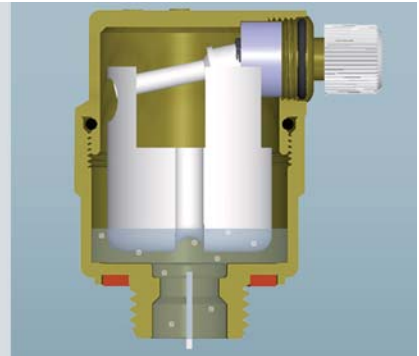


Fig.2

The presence of air in the system reduces the water level in the valve and consequently the float level drops and the water discharge opens.



If debris in the system interferes with the normal working of the valve, it is possible to unscrew and remove the cover and float. On the stem holding the float is a rubber disk, which operates as a shutter when the float lifts the stem. It is essential to check for the presence of any debris which

may prevent the shutter reaching the end of its stroke. A plastic flow separator placed inside the 3/8" or 1/2" connection forces the air bubbles upwards and generates micro-currents in the fluid which ease any bubbles towards the higher side of the valve.

1.1 NON-RETURN VALVE

The installation of a non-return valve near the automatic air vent valve makes it possible to repair or replace the device without the need to close off water supply to the system.

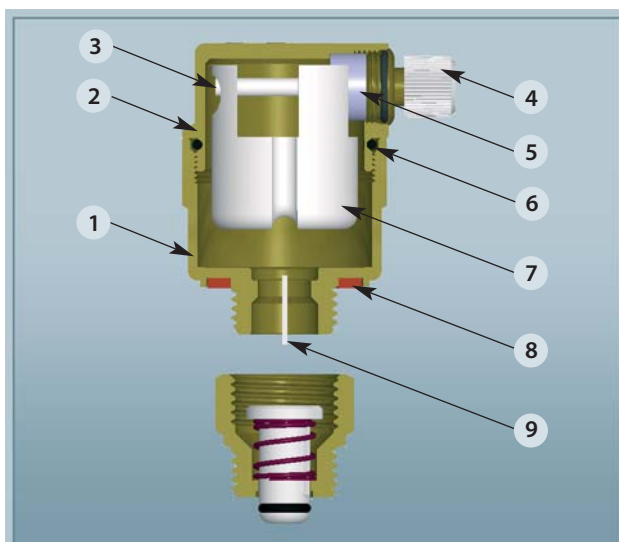


Art. 2075



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1.2 CONSTRUCTION MATERIALS AND TECHNICAL FEATURES



- 1 – Air vent valve body: CW617N brass
- 2 – Air vent valve cover: CW617N brass
- 3 – Stem: Nylon[®]
- 4 – White plug: Hostaform[®]
- 5 – Bush: Nylon[®]
- 6 – Sealing O-ring: EPDM
- 7 – Float: Polypropylene
- 8 – Gaskets: Gold Gasket /EPDM
- 9 – Flow separator: Hostaform[®]

Technical features

Nominal pressure:	10 bar
Max. flow temperature:	110°C
Max. differential pressure:	4 bar
Compatible media:	water