

8001 – AUTOMATIC AIR VENT**8002** – SHUT-OFF VALVE**TECHNICAL SPECIFICATIONS:**

Max. working pressure: 10 bar
 Max. discharge pressure: 5 bar
 Working temperature: -30 — 180°C
 Connection size: 3/8" M
 Medium: water – glycol solution (max. glycol 50%)

Material:

- Body: brass chrome plated
- Seals: high resistance elastomer
- Cover: brass chrome plated
- Float: high resistance polymer

TECHNICAL SPECIFICATIONS:

Max. working pressure: 10 bar
 Working temperature: -30 — 200°C
 Connection size: 3/8" F x 3/8" M
 Medium: water – glycol solution (max. glycol 50%)

Material:

- Body: brass chrome plated
- Ball: brass chrome plated
- Seals: high resistance elastomer

FUNCTION:

Automatic air vents for solar systems are used in the closed circuits of solar heating systems. They open the drain piston with the float according to the fluid's level present in the cabin.

The shut-off valves are used in combination with the automatic air vents to isolate them after filling the circuit of solar heating systems with water and glycol solutions.

This series of automatic air vents has been specially designed for solar heating systems, and it's suitable to work with high temperatures and glycol solutions.

The main characteristic of this series of air vents is the resistance to temperatures. As it is used outside the houses, the solar heating system may reach the high temperature of 200°C, or reach the low temperature of -30°C.

WORKING DETAILS:

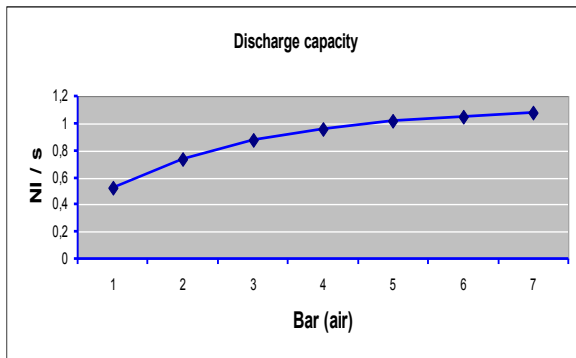
When the air accumulated in the air vent cabin is rising, the float drops as the fluid level is dropping. The control spindle connected to the float opens the piston of the air vent and the air is evacuated. The fluid level can increase (there is empty space in the cabin) and allows the air vent's piston to close.

To ensure a correct operating performance of the air vent, the water pressure must remain below the maximum discharge pressure.

MAINTENANCE:

Close the shut-off valve which is before the automatic air vent to isolate it from the system. Open the top cover of the air vent with a tool, then wash the float and the air vent piston, because if impurities are stocked on the float or on the piston, it will affect the air vent's normal work.

HYDRAULIC CHARACTERISTICS:

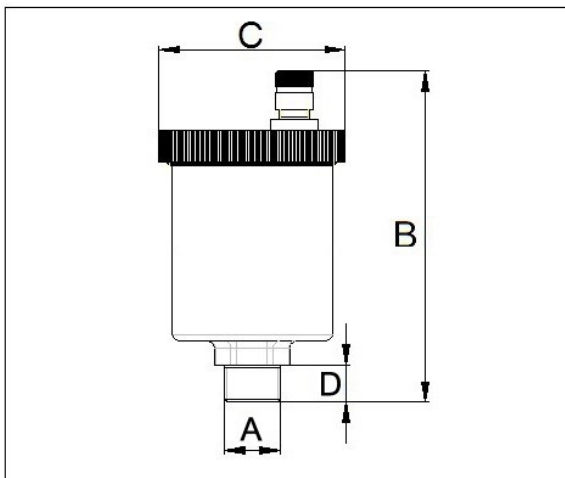


INSTALLATION:

8001 and 8002 series must be installed in a vertical position (as shown in the application diagram), and on the top of the solar heating system panels or at points in the circuit where the air gathers easily. The shut-off valve must be installed before the automatic air vent (the air vent has to be shut off when the system is operating for the first time or when it's full).

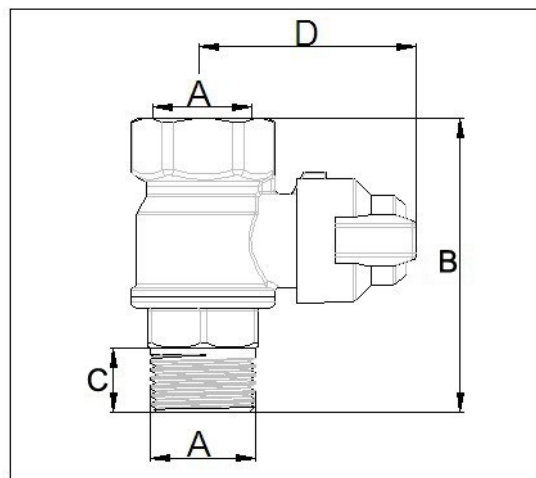
SIZES:

8001 – AUTOMATIC AIR VENT



Code	A	B	C	D	Weight (kg)
8001	3/8"	98mm	Ø55	11mm	0.300

8002 – SHUT-OFF VALVE



Code	A	B	C	D	Weight (kg)
8002	3/8"	45.5mm	9mm	36mm	0.096

APPLICATION DIAGRAM:

