



AUTOMATIC AIR-VENT VALVE

Series : SI - 1019-AV

GENERAL :

SANT (SI-1019- AV) Series Automatic Air-Vent Valves are manufactured in a wide variety of required specifications, Temperature / Pressure Rating & different design features to meet specific requirement of Air Purging applications in Oil & Water Pipe lines.

DESCRIPTION :

Sant Automatic Air-Vent valves are inspectable by unscrewing the cover from the tank. Tight seal between the tank and cover is thanks to the presence of an O-ring; therefore it is also possible to clean the internal parts (float and lever) in case of ingress of foreign matter in the valve. Long-term efficiency and performance of the vent movement is ensured by the valve design features. The seal system is designed to withstand vibrations, therefore it is unaffected by any external vibrations.

APPLICATIONS :

These **Air-Vent** valves are used for automatic venting of air in water distribution pipes in order to avoid certain phenomena of damage (corrosion processes, cavitation) and loss of efficiency (air pockets in radiators) of the heating system. **Air-Vent** valves are used in independent, central, radiant panel heating systems & HVAC systems, etc.

OPERATION :

Valve opening and closing is determined by the float movement (up-down). When there is air in the **Air-Vent** Valve, the force of the float weight acts on the lever which is integral with the plug, thus causing it to move down. In such situation the seat is free and allows the air to be vented outside. When filling the system with water, the air entrapped in the water circuit is pushed towards the outside via the **Air-Vent** valve. As soon as all the entrapped air is discharged, the water, entering the tank, pushes the float up. Consequently the lever moves the plug to press against the seat thus ensuring tight sealing of the system.

DESIGN FEATURES :

Body	Brass OT 58
Cover	Brass OT 58
Lever	Polyacetal
Float	High density expanded polyethylene
Plug	EPDM rubber
Spring	Stainless steel
Seals	NBR rubber
Cap	Polyamide
Connections	3/8" - 1/2" - 3/4" - 1"

TECHNICAL CHARACTERISTICS :

Max. Operating Pressure 16 Bar
Max. Operating Temperature 115°C



PIC-1

INSTALLATION :

Air-Vent valve is normally installed:
- In the highest point of the air separator
- At the top of the columns installed in heating systems with expansion vessel
- In all points where there is risk of air building up
In order to ensure maximum air venting efficiency, it is advisable to install the **Air-Vent** valve in those points where water speed is relatively low. After installation, in order to allow perfect air venting, unscrew the protective cap by at least two turns.