

Automatic Air Vent Valve

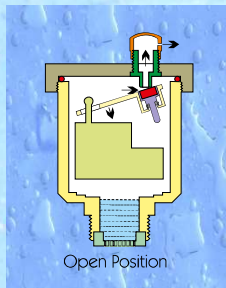


Salient Features

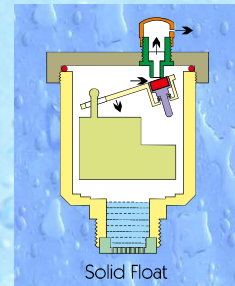
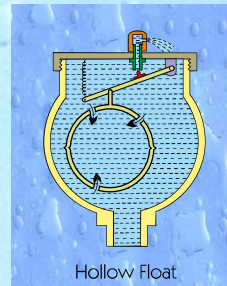
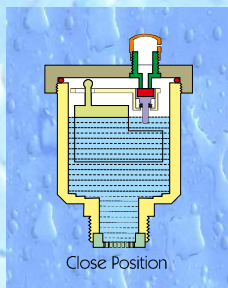
• The Varie AV21 uses a **low - density solid plastic float** (and not hollow) thus eliminating failure of float. Other conventional Air Vent valves use a hollow metallic Ball float which develops pin holes or leakages from the welding joint and becomes heavy (due to water that enters the float). The valve thus remains in open position permanently.

Method of Operation

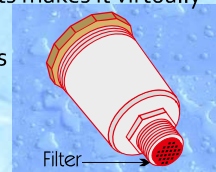
The Varie AV21 air vent valve is a simple float operated valve that allows bleeding of air from piping systems without allowing water (liquid) to escape. When the valve chamber is empty (i.e. no water is present) the float remains in the lower position due to its weight. In this position the valve is open & thus allows air to escape.



As water enters the chamber it lifts the float (due to buoyancy). Finally when chamber is full of water the float is in upper position and the valve is closed thus preventing water from leaking out.



- Simple design with minimal parts makes it virtually maintenance free.
- Has **built-in filter** which prevents ingress of dirt & foreign particles, which are the main culprits for choking with malfunction.
- **Light weight.**
- **Transparent chamber in AV21-T** shows visual indication of water level to determine if valve is malfunctioning.
- AV21-T (Transparent) comes with a protecting sun cap to avoid moss / algae formation inside due to sunlight.



Installation Guideline

- Install in vertical pipes (only).
- Provide Ball Valve before the air vent valve to allow online service.

Typical Applications

The Varie AV21 can be used...

- At top of wet riser of fire fighting systems.
- At ends of vertical uptake line (top) of hydro-pneumatic systems.
- In HVAC lines wherever air needs to be removed automatically without wasting chilled water into the drain.
- Other applications wherever water (liquid) is present in a pressurized system and air needs to be removed without wasting hot / cold water.
- In hot water (Solar) systems.

Technical Data

| | | | |
|--------------------------|-----------------------------------|-----------|--|
| Medium | : Water & non aggressive liquids | | |
| Max. Inlet Pressure | : 10 kg/cm ² | | |
| End Connection | : Male BSP Threaded | | |
| Size | : 15mm (1/2"), 20mm (3/4") | | |
| Models | AV21-F | AV21-T | |
| Normal Operating Temp. | : 80°C | : 45°C | |
| Max. Occasional Temp. | : 90°C | : 60°C | |
| Material of Construction | | | |
| Chamber | : Brass | : Plastic | |
| Body Plate | : Brass | : Brass | |
| Float & Internals | : Plastic / S.S. / Brass / Rubber | | |
| Width - W (in mm) | : 46 | : 53 | |
| Height - H (in mm) | : 66 | : 66 | |

Mfg. By



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