

INTRODUCING

Air Admittance Valves

The Supreme Industries Ltd. is an acknowledged leader of India's plastic industry. A comprehensive range with a vast spectrum of pipes and fittings around 7500 diverse products caters to almost every conceivable application segments. After successfully introducing many innovative and useful products we are happy to introduce a specially designed product "Air Admittance Valve". This is mainly designed and used for improving the performance of venting system in a building drainage. The main purpose of this valve is to allow the entry of air inside the drainage system to prevent the adverse effect of siphonic action on water seal of different traps.

This specially designed valve eliminates long vertical stacks used for venting thereby reduces the overall cost of the drainage system. The robust design of the valve body has evenly arranged screen mesh along its circumference, which allows air admittance by restricting the entry of insects and foreign objects in the drainage system. This can be used for buildings up to 10 storey as a standalone device. This Air Admittance Valve provides great flexibility to the engineers and plumbing professionals in designing the building drainage system. It eliminates the vent pipes penetrating through the roofs to improve the aesthetic look and overall appearance of buildings.

Unique features

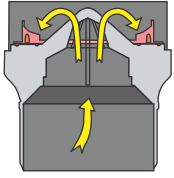
- Stand alone aesthetic design
- Lighter in weight
- Made up with strong and durable material
- Easy for installation
- Specially designed screens on valve body to restrict entry of insects and foreign material in the system.
- Resistant to adverse weather conditions
- Can be installed 1000 mm below the flood level of the appliance.

Advantages

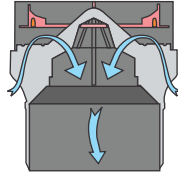
- Protects the water seal of the building drainage system.
- Provides great freedom of designing drainage system.
- Eliminates the extension of vent pipes through the roofs.
- Saving on account of material and labour as it eliminates extra venting in the building drainage system up to 10 storey.



Working Mechanism



No flow / Positive pressure
(Trapped gases)



Negative pressure
(Air intake)

Supreme Air Admittance Valves are one way valves which get activated when negative pressure is developed in the drainage system. It can be used to replace the typical venting systems. Under no flow situation, the diaphragm on the top side of the body remains closed under gravity and seals the vent terminal. When wastewater is flushed in the sewer pipe and travels down, a slight negative pressure develops in the drainage pipeline, which lifts the sealing diaphragm and air is drawn into the drainage system. The admitted air balances the pressure in pipeline preventing the trap siphonage; this protects the water seal in the plumbing fixtures. The maintained water seal prevents the transmission of odorous gases and rodents inside the building through washbasins, sinks, bathrooms, etc. which gives clean and safe user experience.

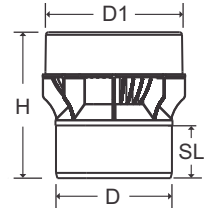
The air admittance valve prevents the conveyance of foul odour outside the drainage pipeline hence the building and its surrounding remains odour free. It also prevents "chimney effect" which reduces the risk of fire spreading between upward floors, thereby reducing the need of fire prevention devices.

Applications

- Building drainage
- Grease separators
- Septic tanks
- Open vents
- Rainwater tanks
- Sewage treatment plants

Dimension Details

Size (D)	H	SL	D1
110 mm	138.5	50	135

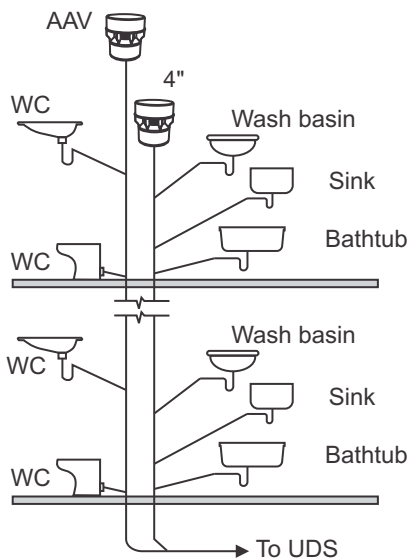


Installation Guidelines

1. Air admittance valve is provided with spigot end and joint can be made using solvent cement or with rubber ring using socketed pipe.
2. Appropriate reducers can be used while using it with smaller size pipes.
3. Air admittance valve should be installed only in a vertical position.
4. While installing air admittance valve on horizontal pipe, it should be 4" to 6" above the pipeline.
5. While installing air admittance valve inside the duct ensure that adequate ventilation is available.
6. Air admittance valve should be installed in such way that, if required maintenance is easily carried out.

Typical Installations

Use of AAV in Residential buildings



Use of AAV in Commercial buildings

