

Air Admittance Valve

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has been a torch bearer in the transition from conventional to advanced plastic piping products in the country. Its customer centric approach fuels its research for designing unmatched quality products to meet the aspirations of its quality conscious customers. The innovative product portfolio offered by Supreme is extensive in range and application and comprises variety of pipes and vast spectrum of fittings totaling over 8000 diverse products.

Whenever negative pressure forms in the drainage system, this specially designed '**Air Admittance Valve**'

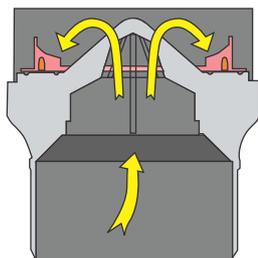
allows outside air in to the system to balance the pressure. It helps to avoid anti siphonage and protects the trap water seal. The robust design of the valve body has a screen mesh along its circumference, which allows air admittance while restricting the entry of insects and foreign objects in the drainage system. It eliminates the vent pipe penetrating through the roofs and provides greater flexibility to the plumbing professionals and architects in designing the building drainage system. This can be used for the buildings up to 10 stories as a standalone device which reduces the overall cost of the drainage system.



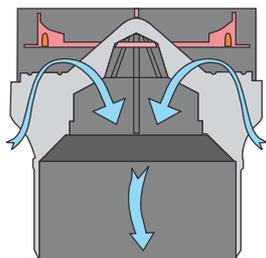
Unique Features

- 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 1000mm below the flood level of the appliance.

Working Mechanism



No flow/positive pressure
(Trapped gases)



Negative pressure
(Air intake)

Supreme Air Admittance Valve is a one way valve which gets activated whenever the negative pressure developed in the drainage system. Under no flow situation, the diaphragm on the top side of the valve body remains closed under gravity and seals the vent terminal. When waste water flushed in the sewer pipes and it travels down, a slight negative pressure develops in the drainage pipeline, which lifts the sealing diaphragm of the valve and thus air drawn into the drainage system. The admitted air balances the pressure in the pipeline, preventing the trap siphonage and protecting the water seal in the plumbing fixtures. The maintained water seal prevents the transmission of odorous gases and rodents to enter inside the building through wash basins, sinks, bathrooms etc. Thus, this device gives a clean and safe user experience.

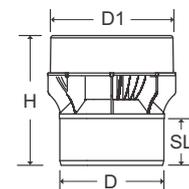
Applications

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

Dimension Details

D	H	SL	D1
110	138.5	50	135

(all dimensions are in mm)

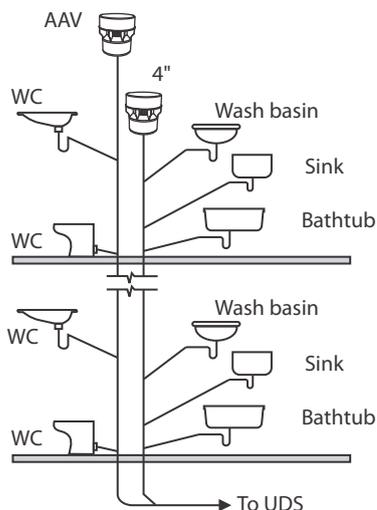


Installation Guidelines

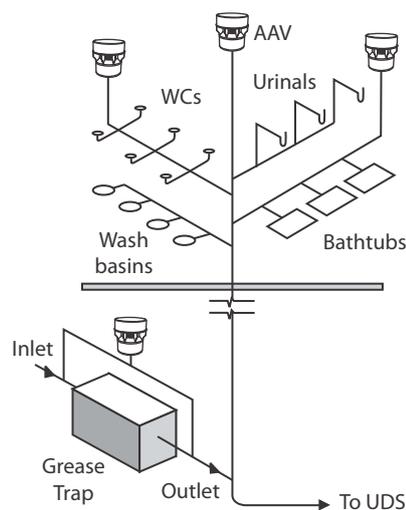
1. Air admittance valve is provided with spigot end and joint can be made using solvent cement or with rubber ring using socketed pipe.
2. Appropriate reducers can be used while using it with smaller size pipes.
3. Air admittance valve should be installed only in a vertical position.
4. While installing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

Typical Installations

Use of AAV in residential buildings



Use of AAV in commercial buildings



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