ASTRAL PIPES

AIR ADMITTANCE VALVE

Negative Pressure Eliminator
for Unrestricted Sewage System



INDIA'S MOST TRUSTED BRAND

About Astral Air Admittance Valve

Astral Air Admittance Valves respond to the negative air pressure created in a sewage system when sanitary facilities are used. Sewage flow can produce negative pressure and then water is drawn out of the siphons. Air admittance valves help to provide air supply to the sewage system and thus compensate for negative air pressure. Astral Air Admittance Valves are manufactured with latest European standards and their working temperature range is from -20°c to +60°c.

Features & Key Properties

- Eliminates the generation of negative pressure in the system
- Prevents the spread of sewer gases and bad odours
- Helps to improve the performance of a sewage system – facilitates sewage discharge.
- Eliminates the possibility of water coming out of siphons.
- Reduces investment costs – smaller number of lead-through points in the roofs, not all risers have to be ventilated with a venting device.
- Helps to improve the flexibility of arrangement of sanitary fixtures – enables greater distance between the fixtures and the riser.
- A single product which is suitable for installation on pipes of different sizes.
- In the event of a fire, the valves reduce the risk of fire and smoke spreading via sewage pipes (through the elimination of the stack effect).

Product Range

- Mini – 32 mm to 63 mm (designed for use in branched sections of the sewage system and in small risers)
- Maxi – 75 mm to 110 mm (suitable for use in sewerage risers and branched sections with high flow rate)

Technical Details

Technical Data	**Diameter** (mm)	
	32-63	**75-110**
Material	ABS	ABS
Colour	White	White
Air Flow (ltr/sec)	5.8	24.0
Height (mm)	80	108
Working Temp. Range	-20°c to +60°c	
Applicable Standards	EN 12380, EN ISO 3126	

Working Principle

Astral Air Admittance Valves provide air supply and help to compensate negative pressure. When negative pressure is created in the system, the resulting suction power raises the membrane in the valve and thus admits air into into the system. As a result negative pressure is fully compensated.



Open



Closed

Air admittance valves help to prevent the spread of sewer gases (unpleasant odours) to outside the pipeline – the valve closes as soon as the membrane falls, thus preventing the diffusion of odours.

Valve Selection

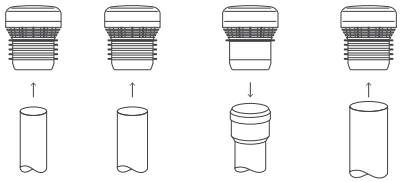
To select an appropriate valve, the level of air supply required for a given sewage system must be determined. The respective guidelines are outlined in national standards and regulations. The most suitable air admittance valve is chosen based on the calculated total waste water flow rate (l/s) and the required air supply level.

Installation

Astral Air Admittance Valves are ideal for installation at the ends of non-ventilated risers and near sanitary fixtures located at a considerable distance from the riser.

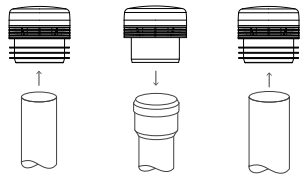
40 mm & 90 mm Diameter pipes are to be joined with grooved socket pipe by removing rubber gasket. Other size pipes can be joined with plain end. Please check below images for proper understanding:

Mini



32 mm	40 mm	50 mm	63 mm
Join with plain pipe	Join with plain pipe	Remove rubber gasket & join with grooved socketed pipe	Join with plain pipe

Maxi



75 mm	90 mm	110 mm
Join with plain pipe	Remove rubber gasket & join with grooved socketed pipe	Join with plain pipe

Note: Astral Air Admittance Valves can also be used with Astral Drainmaster & Astral DWV pipes

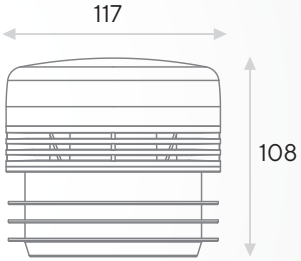
Packing Details

Item Type	Product Code	Standard Packing (Nos.)	Master Packing (Nos.)
Mini	M7220016206	01	48
Maxi	M7220016209	01	24

Dimensions

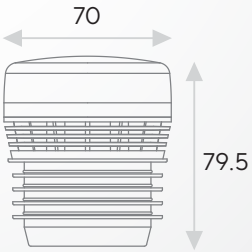


Air Admittance Valve
Maxi (DN 75, 90, 110)





Air Admittance Valve
Mini (DN 32, 40, 50 & 63)



ASTRAL PIPES

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Please get in touch with us between 10 AM to 6 PM between Monday to Friday and the last Saturday of the month. We will remain closed on Public Holidays.

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