

# 110 Pushfit & 110 Solvent Soil Air Admittance Valve



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## Application

Above ground drainage systems are designed to utilise Aquaflow Air Admittance Valves. In compliance with BS EN 12056-2:2000, they are made to offer a way for the drainage system to be ventilated when ventilating pipes are terminated inside of buildings.

## Operation

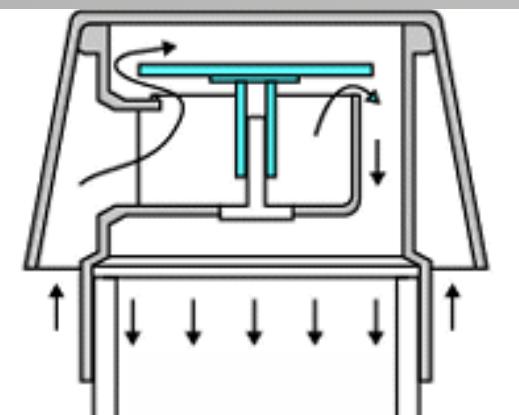
The operation of the Aquaflow Air Admittance Valve is shown in the diagram. When the system is under negative pressure, the valve diaphragm lifts and lets air to enter. The diaphragm returns to its closed position when the negative pressure is released, stopping the entry of unclean air into the structure. The valve is made to automatically open and close as necessary, providing enough airflow to properly ventilate the system and guarantee a smooth discharge.

## Approval

The Building Regulations 2000 (2002 edition), Approved Document H, requires that air admittance valves must meet BS EN 12380:2002. Following independent testing by the LGA Testing House, all Aquaflow air admittance valves on this list have been certified as Class A1 and comply with BS EN 12380:2002.

Thus, the Aquaflow Air Admittance Valve can be positioned either above or below the linked appliances' flood level.

- The Aquaflow Air Admittance Valve can operate between -20°C and +60°C.
- The Aquaflow Air Admittance Valve was classified as A1, meaning that a polystyrene cover is not required.
- The air flow capacity of the Aquaflow Air Admittance Valve has been tested at -250 Pa, and the flow rate is indicated next to each valve listed.



## Advantages

- It eliminates freezing issues related to external pipes
- It can be used with either plastic or metal pipes
- It allows for the termination of ventilation pipes inside the building, preventing roof penetration
- It allows for greater flexibility in the design of new drainage systems
- It allows for greater flexibility when adding additional appliances to existing drainage systems
- It offers cost savings in both material and labour

## General Guidance

- Airflow should be used to ventilate subsurface dirty drains. At or close to the head of each main drain, there should be a ventilation pipe.
- If the drain has an intercepting trap, it should have an open ventilation pipe without an air admittance valve. This is especially important for sealed systems and drains that are vulnerable to surcharge.
- If the only ventilation available to septic tanks or cesspools is through the soil stack, then air admittance valves shouldn't be used.
- If connected drains or drainage systems don't have open ventilation, other methods of relieving positive pressure should be explored instead of using air admittance valves.

## Application - Internal use Only

To solve issues like noisy discharge or trap seal failure from induced or self-syphonage, 110 Pushfit & 110 Solvent Soil air admittance valves can be used, instead of anti-syphon and resealing traps to ventilate the waste pipe system. They are very helpful when adding more appliances to the waste pipe system that already exists.



110mm Pushfit  
Air Admittance Valve

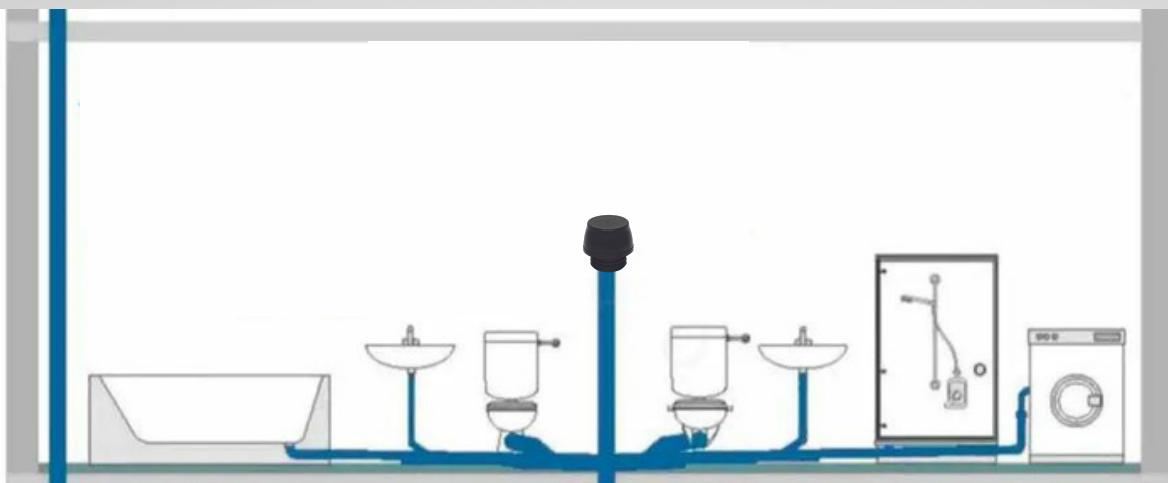


110mm Solvent Soil  
Air Admittance Valve

# Technical Information

<b>Aquaflow</b> Plastic Drainage Products	<b>Product</b>	<b>Code</b>	<b>Colour</b>
	110mm Pushfit Air Admittance Valve	PFAV110B PFAV110G PFAV110W	Black Grey White
	110mm Solvent Soil Air Admittance Valve	AV110B AV110G AV110W	Black Grey White

- Complies with BS EN 12380:2002; ISO 9001:2015
- Designation Class A1
- Air Flow Capacity (litres per second) 40
- Range of temperature: -20°C to +60°C
- Can be installed above or below the flood level of connecting appliances



Air admittance valves are often installed on soil pipes at least 200 mm above the point at which wastewater will enter the pipe, or the highest water entry point. Although they can be inserted inline using a branch, they are often installed at the end of a soil pipe.

Air admittance valves are usually hidden away in cupboards or lofts so as not to be visually noticeable. They do, nevertheless, need some ventilation. Because of this, it's crucial to make sure they're in an area with airflow. In addition, attempt to position the air admittance valve in a location that is easily accessible in case a blockage arises.