SECTION SIX 06



For further **technical information** on any of our products please **visit our website** **www.mcalpineplumbing.com**

Air Admittance Valves

Sometimes we get reviews that simply say that our products **do what they are meant to**. We actually love these types of reviews because it shows that we are doing our job. When you need an air admittance valve that is easy to fit, regulates the pressure in the drainage system, and is value for money, this is the section to find what you're looking for.

Our air admittance valves offer **greater flexibility in design, cost savings in both material and labour**, as well as being suitable for use with either plastic or metal pipes.

Internal/External **Air Admittance Valve** for **110mm Soil Pipe**

IN BLACK, WHITE AND GREY



- **Dual fit** synthetic rubber finger seal outlet
- **A1 rated**
- Can be installed **above or below the flood level** of connecting appliances
- Air flow capacity of **40 l/s**
- Incorporates a stainless steel mesh in the air intake which **eliminates insect and debris ingress**
- Complies with **BS EN 12380:2002**
- Range of Temperature: **-20C to +60C**

VP100E Black	VP100E-GR Grey	VP100E-WH White

Fitted in **under 5 mins including getting into the loft** and later that night the smell was away.

TÜVRheinland® CERTIFIED

The **TR Testmark** certifies a product's high and consistent quality.

Whenever the TR Testmark is on a product it ensures it has been **thoroughly tested**.

Valves that are designated as **Class A1** can be installed:

- **Above or below** the flood level of connecting appliances
- Without the necessity for a polystyrene cover
- With an operating range of **-20°C to + 60°C**

Air Admittance Valves (Ventapipe)

Product	Code	Pipe Size	Outlet	Colour	Air Flow Capacity (l/s)	Class
	**VP100**	3" or 4"	Pushfit		47.2	A1
	**VP100E**	4"	Pushfit		40	A1
	**VP100E-WH**	4"	Pushfit		40	A1
	**VP100E-GR**	4"	Pushfit		40	A1
	**VP100N**	4"	Solvent Weld		19.4	A1
	**VP50-100**	2", 3" or 4"	2" Compression 3" & 4" Pushfit		16.3	A1
	**VP50P**	3" or 4"	Pushfit		15.5	A1
	**VP50**	2"	Compression		14.2	A1

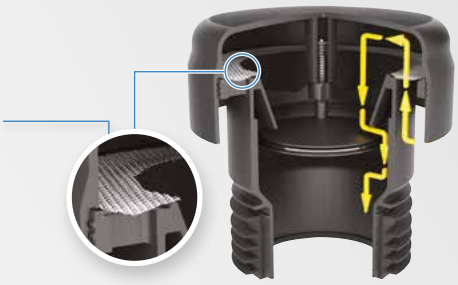
Air Admittance Valves (Ventapipe)

Product	Code	Pipe Size	Outlet	Colour	Air Flow Capacity (l/s)	Class
	**VPSF-40/50**	1¼", 1½" or 2"	Solvent Weld	○	9.1	A1
	**VP1**	1½"	BSP Thread	●	3	A1
	**VP1W**	1½"	BSP Thread	○	3	A1
	**VP2**	1½"	Compression	●	3	A1
	**VP2W**	1½"	Compression	○	3	A1
	**VP3**	1½"	Multifit Tee	○	4.5	
	**VP4**	1¼"	Multifit Tee	○	2	
	**VP15M**	1¼"	Compression	●	0.5	

Air Admittance Valves (Ventapipe)

VP100E, VP100E-GR & VP100E-WH Benefits

- The Valve may be installed at a **minimum height of 200mm** above the highest wet branch, when fitted externally
- Incorporates a stainless steel mesh in the air intake which **eliminates insect and debris ingress**
- Air Flow Capacity **40 litres per second**
- Valve has **A1 Classification** and a **TUV Rheinland Quality Certificate**



Internal Air Admittance Valve

McAlpine recommends that Air Admittance Valves be installed internally within the building.

AAVs should be located preferably in a non-habitable space such as a duct or roof space with adequate ventilation and must be accessible for maintenance.

AAVs must be installed in the vertical position.

Internal Advantages

- Enables ventilating pipes to be terminated inside the building thereby **avoiding roof penetration**
- Allows **greater flexibility in design of new drainage systems**
- Allows greater flexibility when **installing additional appliances** to existing drainage systems
- **Eliminates problems of freezing** associated with external pipes
- Suitable for use with either **plastic or metal pipes**
- Offers **cost savings** in both material and labour

External Air Admittance Valve

Although there are no regulations for an AAV to be installed externally, it may be advantageous in certain circumstances, be it design or otherwise, to allow installation into an external soil stack and some of the advantages are as follows:

External Advantages

- The external soil stack may be terminated below the roofline which **reduces the amount of soil pipe** and fittings required
- Fitted externally, the AAV is **easy to access for maintenance** if required
- Reduces **installation time** and materials
- It may be prudent to seek guidance from the local building department

The VP100E, VP100E-GR, VP100E-WH are the only McAlpine AAVs that could be fitted externally as they incorporate a stainless steel mesh.

Air Admittance Valves (Ventapipe)



Open



Closed

Operation

The two diagrams illustrate how Ventapipe functions. The valve diaphragm lifts and allows air to be drawn into the system when it is subjected to negative pressure. On cessation of negative pressure the diaphragm returns to the closed position thereby preventing the escape of foul air into the building.

The valve is designed to open and close spontaneously when required, thereby allowing a supply of air to adequately ventilate the system, thus ensuring a smooth discharge.



MACFILTER

110mm/75mm Carbon Filter

Two way active carbon filter for external installations to **eliminate bad odours** produced by the drainage system.

For use with: Septic Tanks, Sewage Treatment Plants, Rain Water Tanks, & Grease Seperators.

Replacement cartridge available
Code: CARBON-CAR



Code:
MACFILTER

YouTube

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