

Air Admittance Valve (AAV)

Fits 1-1/2" & 2" ABS pipe

Applications:

An AAV is used to provide venting for drain fixtures when the installation of conventional venting pipe is inconvenient or costly. Typical use includes venting for:

- Kitchen island sinks
- Bar sinks (renovations)
- Bathroom sinks (renovations)
- Reno projects where venting through the roof is impractical

How it Works:

When a sink or tub etc. discharges, it creates a negative pressure which opens the valve and allows fresh air into the drain/vent system for better drainage. When not in use, the internal diaphragm is held closed by gravity and positive pressure within the drainage system so sewer gases and liquids cannot escape.

Product Benefits:

- Complies with National Plumbing Code 2005 requirements for AAVs (to ASSE 1051)
- ABS adapter accepts either 1-1/2" or 2" pipe
- Threaded body allows for easy drain system access or valve cleaning
- Eliminates having to install new vent lines through the roof

ABS-DWV



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An AAV can save time and money!

The 20 DFU (Drain Fixture Unit) rating ensures most renovations are covered.

To determine drainage requirements, fixtures are assigned a DFU (Drain Fixture Unit) number as shown in the chart to the right.

Renovation example – adding a bathroom and laundry room to the basement. In this example, with all fixtures sharing a common branch line, the DFU load would be as follows: 6 DFUs for the bathroom group, 1.5 DFUs for the washing machine and 1.5 DFUs for the laundry tub which totals to 9 DFUs. An AAV with a 20 DFU rating would be sufficient to drain all the fixtures in this renovation project (using a 3" branch line) without incurring the cost of connecting to an existing vent line or installing a new vent line through the roof.

Typical DFU loads:*

- Residential bathroom group (6L toilet, sink, tub/shower) – 6 DFU
- Washing machine – 1.5 DFU
- Laundry Tub – 1.5 DFU
- Shower Stall – 1.5 DFU
- Dishwasher – 1.5 DFU

* Based on National Plumbing code 2005 minimum fixture outlet pipe size.

DFU Rating by Branch Size:

3"	20 DFU
2"	6 DFU
1-1/2"	3 DFU

A branch is a waste pipe connecting two or more waste pipes to a waste stack or building drain. In the basement example, it could be a continuous 3" pipe connecting the drain lines from the bathroom fixtures and laundry room fixtures to the main waste stack.

Material:

ABS – compatible with ABS pipe and fittings.
Install using ABS cement and approved pipe joint compound on MPT threads.

Approvals:

IAPMO classified to ASSE 1051 Standard
- Approved for use in the Canadian National Plumbing Code 2005



Air Admittance Valve

AAV Size	HomeRite Product Code	Units/Carton	UPC #
1-1/2" & 2"	027114	10	662671117151

Air Admittance Valve		L x W x H	Air Admittance Valve		
Unit Dimensions	cm	13.3 x 8.3 x 8.3	Unit Weight:	kgs	0.14
	in	5.25 x 3.25 x 3.25		lbs	0.31
Master Pack Dimensions	cm	43.5 x 17.6 x 15.3	Master pack Weight	kgs	1.54
	in	17.1 x 6.9 x 6		lbs	3.4

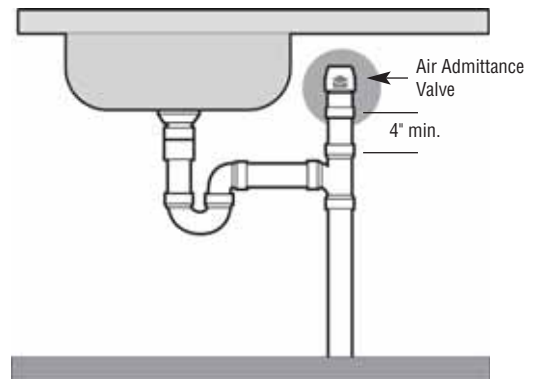
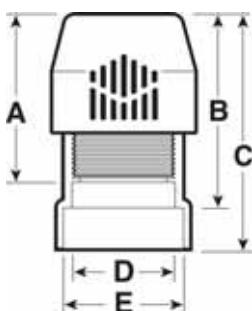
TECHNICAL INFORMATION BULLETIN

Why use an Air Admittance Valve?

Depending on the plumbing renovation project, it can be necessary to construct elaborate vent lines to ensure proper drainage of fixtures such as sinks and tubs. When vent lines are not nearby, this may even require the installation of a new vent line through the roof. This can be a costly and complicated undertaking and leads to another unsightly roof vent and one more opening for possible leaks to occur.

Installation:

- Install in a building in an accessible, ventilated location within four stories from the top of the primary vent pipe.
- AAVs will vent fixtures on the same floor, connected to a horizontal branch line only.
- The AAV must be located a minimum 4" above the horizontal drain line (or 6" above insulation).
- The AAV must be installed not exceeding 15 degrees of vertical plumb.
- Use approved pipe joint compound on MPT threads.
- AAVs shall not be used as a relief valve in chemical waste systems, or within supply/return air plenums.
- Follow the product instructions and check local building codes for acceptance.
- The size of the branch line along which fixtures are drained will determine the DFU capacity (see chart).
- Follow all local building and plumbing codes



20 DFU rated

* when venting 3" DWV and smaller

Horizontal Branch Size	Max DFUs
3"	20
2"	6
1-1/2"	3

Product Code	Size	Dimensions				
		A	B	C	D	E
027114	Will fit 1-1/2" & 2" pipe	2-1/8"	2-1/4"	4 7/8"	1-1/2"	2"