

TurboVent™

» Air Admittance Valve



Self-Cleaning

Valve seal mechanism spins with each activation to scour valve seat.

Installation Savings

More cost effective than the typical mix of plumbing fittings, hangers, pipe and flashings when venting through the roof.

Engineered Performance

Actuating device seals positively with 13 PSIG of back pressure. Single sealing surface reduces risk of inadequate seal.

Tested & Certified

ASSE 1050 and 1051; IAPMO classified listing.

Supply

Drainage

Support

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TAKE THE FIELD.



Features & Benefits

Self-Cleaning

The TurboVent™ Air Admittance Valve (AAV) is the only AAV on the market with a self-cleaning operating mechanism. Each time the valve activates to allow air into the DWV system, it spins. This spinning moves and scours the sealing surface, which ensures a good seal with each activation.

Installation Savings

Compared to traditional plumbing vent installations that penetrate through the roof, using the TurboVent™ AAV reduces labor and material costs. Additionally, fewer roof penetrations mean fewer potential roof leaks.

Engineered Performance

Our open vent design enables the valve mechanism to quickly respond when activated, letting air into the DWV system and preventing sewer gas from entering the living area.

Our dual-fit 1-1/2" to 2" Hub x 2" FIP combination adapter is designed to glue over 1-1/2" or 2" pipe and conforms to national and local code standards for proper DWV fitting installations.

Compared to other AAVs, the TurboVent™ has a single sealing surface instead of a dual sealing surface, making the TurboVent™ less likely to fail.

Tested & Certified

- Certified by ASSE to 1050 and 1051
- Listed by IAPMO (classified listing)
- Conforms to ASTM D2661 / D2665 / F409 for packages with drainage adapters
- Meets the requirements of:
 - International Plumbing Code 2012/2015 918.1
 - International Residential Code 2012/2015 P3114.1
 - Uniform Plumbing Code (UPC) 2012 Section 301.2 & 2015 Section 301.3
 - State of Wisconsin

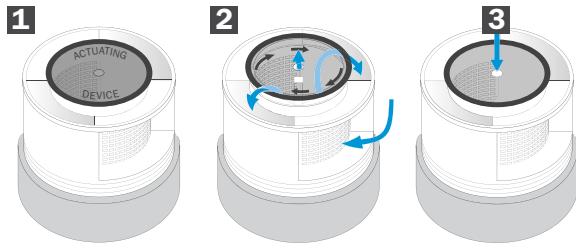


Self-Cleaning Mechanism



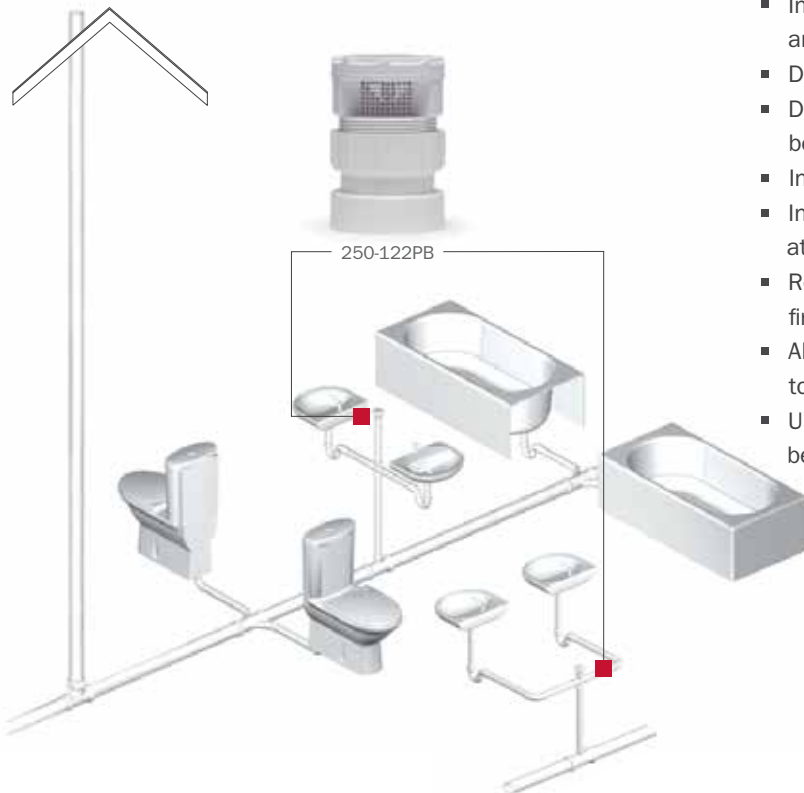


How It Works

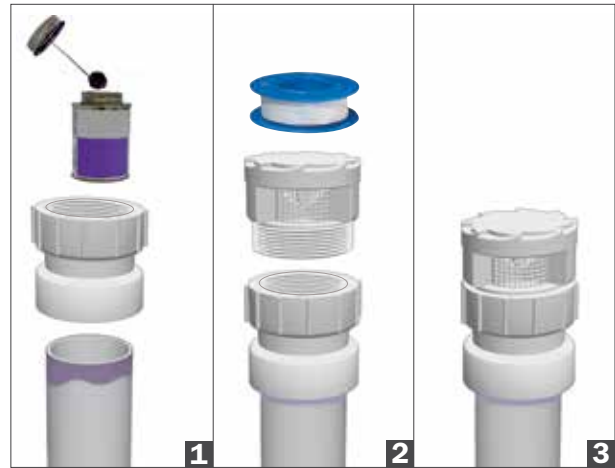


The TurboVent™ AAV is designed to allow air into the DWV system without allowing harmful sewer gas into a building, while also preventing siphonage.

1. Valve is normally closed, preventing the escape of sewer gas from the DWV system.
2. When waste water drains, it creates negative pressure in the DWV system, which lifts open the actuating device (AD) within the AAV and allows air to enter the system. As the AD is lifted, its turbine fins spin the device clockwise, cleaning the sealing surface upon each activation.
3. After the water has drained completely, the valve closes, preventing sewer gas from entering the living area.



Installation



1. Glue adapter to pipe.
2. Apply PTFE tape to threads.
3. Thread TurboVent™ into adapter.

Installation Tips

- Install in an area with adequate ventilation.
- Install in the upright position, not exceeding 15 degrees from vertical.
- Install in an accessible location for inspection and maintenance.
- Do not install outdoors.
- Do not subject AAV units to temperatures below -40° F or above 150° F.
- Install TurboVent™ at least 4" above the trap arm.
- Install TurboVent™ 6" above insulation for attic applications.
- Remove protective yellow debris cover before first use and activation.
- Always use with at least one primary vent stack to the atmosphere.
- Use TurboVent™ on the same floor as the fixtures being vented. Connect to the horizontal drain line.



Sizing & Technical

»» Drainage Fixture Unit (DFU) Value as Load Factors for Common Appliances

Automatic Clothes Washers	3 (Commercial) or 2 (Residential)
Bathroom Group: Water closet (1.6 gpf.), lavatory, bathtub or shower on the same floor level	5
Dental Lavatory	1
Dish Washing Machine	2 (Residential)
Drinking Fountain	0.5
Bathtub with or without Shower	2
Kitchen Sink & Food Grinder	2
Laundry Tray (1 or 2 compartments)	2
Lavatory	1
Shower (5.7 GPM or less)	2
Sink or Service Sink	2
Urinal (1 gpf or less)	2
1-1/4" Trap Size	1
1-1/2" Trap Size	2
2" Trap Size	3
3" Trap Size	5
4" Trap Size	6

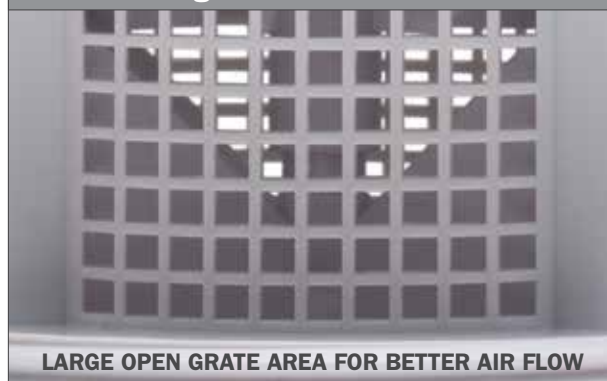
Source: 2015 IPC, Table 709.1 & Table 709.2
See Code for proper Drain & Vent Computation of fixtures with intermittent flow.

»» Maximum Number of Drainage Fixture Units

Drain, Branch or Stack Size	Max. DFUs on Branch	Max. DFUs on Stack
1-1/2"	3	8
2"	6	24
3"	20	72
4"	160	500

Source: 2015 IPC Table 710.1(2) "Horizontal Fixture Branches & Stacks."

»» Fast Drainage



Sizing

TurboVent™ AAVs are sized to accommodate common **Drainage Fixture Unit (DFU)** requirements as marked on the top of each unit and listed on our buying information table. The TurboVent™ can be used in branch or stack venting applications.

Be sure to verify that the application is consistent with minimum standards for piping installations and drainage output of the appliance or fixture to be vented. Consult all local codes prior to installation.

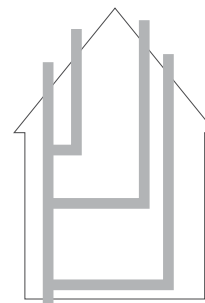


1-1/2" CONNECTION



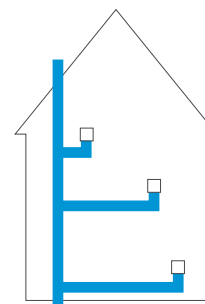
2" CONNECTION

Traditional Venting vs. TurboVenting



Traditional Venting

Traditionally, a network of DWV pipes, fittings and hangers have been used to vent every fixture or group of fixtures throughout a building. The vertical pipes penetrate through the roof in multiple locations to maintain trap seals, prevent pressure fluctuations and ensure the safety of the residents of the building.



TurboVent™ Venting

Using a TurboVent™ on individual fixtures or groups of fixtures saves on costly labor and extra materials, with no sacrifice to the functioning of the drain, waste and venting system.



Additional Features

Protection

The brightly colored debris cover keeps the TurboVent™ free of drywall dust, paint and other construction debris.

Professional Look

Because AAVs must be accessible, Sioux Chief's OxBox™ is the ideal solution. Made of durable white ABS, the OxBox™ provides a clean, professional looking way to access the TurboVent™ while the louvered cover provides the perfect finished look.



250-11P



250-122AB

250-122PB



250-696122P



250-11TW

842-712A

842-712P

Buying Information

ITEM NO.	DESCRIPTION	SOLVENT WELD CONNECTION	MAX DFUs		U/M	PKG.	MIN. QTY.	CASE QTY.
			STACK VENT	HORIZONTAL BRANCH				
TurboVent™ LESS ADAPTER								
250-11	TurboVent™ Only – Contractor Pack 6/Bag	–	8	20	BG	B	1	4
250-12	TurboVent™ Only – Contractor Pack 6/Bag	–	24	160	BG	B	1	4
ABS								
250-11A	TurboVent™ W/Adapter – Individually Boxed	1-1/2"	8	20	EA	B*	1	6
250-11AC	TurboVent™ W/Adapter – Contractor Pack 6/Bag	1-1/2"	8	20	BG	B	1	8
250-12A	TurboVent™ W/Adapter – Individually Boxed	2"	24	160	EA	B*	1	6
250-12AC	TurboVent™ W/Adapter – Contractor Pack 6/Bag	2"	24	160	BG	B	1	8
250-122AB	TurboVent™ W/Dual Fit Adapter – Bulk	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	50	50
250-122AC	TurboVent™ W/Dual Fit Adapter – Contractor Pack 6/Bag	1-1/2" - 2"	8/24 ¹	20/160 ²	BG	B	1	8
250-11TB	TurboVent™ W/Adapter & Tubular Waste Arm Extension	1-1/2"	8	20	EA	C*	1	6
250-696122A	TurboVent™ W/Dual Fit Adapter & OxBox™ Kit**	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	1	6
250-696R122A	TurboVent™ W/Dual Fit Adapter & Fire Rated OxBox™ Kit**	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	1	6
696-11A	TurboVent™ W/Adapter & OxBox™ Kit**	1-1/2"	8	20	EA	B*	1	6
696-12A	TurboVent™ W/Adapter & OxBox™ Kit**	2"	24	160	EA	B*	1	6
PVC								
250-11P	TurboVent™ W/Adapter – Individually Boxed	1-1/2"	8	20	EA	B*	1	6
250-11PC	TurboVent™ W/Adapter – Contractor Pack 6/Bag	1-1/2"	8	20	BG	B	1	8
250-11TW	TurboVent™ W/Adapter & Tubular Waste Arm Extension	1-1/2"	8	20	EA	C*	1	6
250-12P	TurboVent™ W/Adapter – Individually Boxed	2"	24	160	EA	B*	1	6
250-12PC	TurboVent™ W/Adapter – Contractor Pack 6/Bag	2"	24	160	BG	B	1	6
250-122P	TurboVent™ W/Dual Fit Adapter – Individually Boxed	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	1	6
250-122PB	TurboVent™ W/Dual Fit Adapter – Bulk	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	50	50
250-122PC	TurboVent™ W/Dual Fit Adapter – Contractor Pack 6/Bag	1-1/2" - 2"	8/24 ¹	20/160 ²	BG	B	1	8
250-696122P	TurboVent™ W/Dual Fit Adapter & OxBox™ Kit**	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	1	6
250-696R122P	TurboVent™ W/Dual Fit Adapter & Fire Rated OxBox™ Kit**	1-1/2" - 2"	8/24 ¹	20/160 ²	EA	B*	1	6
696-11P	TurboVent™ W/Adapter & OxBox™ Kit**	1-1/2"	8	20	EA	B*	1	6
696-12P	TurboVent™ W/Adapter & OxBox™ Kit**	2"	24	160	EA	B*	1	6
ACCESSORIES								
696-7	OxBox™ – Single Box W/ Hole For 2" Sch. 40 Pipe	–	–	–	–	B	10	10
696-1F	Single Frame For OxBox™	–	–	–	–	B	10	10
696-LC	Louvered Cover	–	–	–	–	B	10	10
842-712A	ABS 1-1/2" - 2" Hub X 2" FIP Dual Fit Adapter	1-1/2" - 2"	–	–	–	B	10	10
842-712P	PVC 1-1/2" - 2" Hub X 2" FIP Dual Fit Adapter	1-1/2" - 2"	–	–	–	B	10	10

¹ 8 DFU when on 1-1/2" pipe, 24 DFU when on 2" pipe ² 20 DFU when on 1-1/2" pipe, 160 DFU when on 2" pipe



IPC



ANSI/NSF-14

1050 & 1051

PACKAGING:

B = Bulk

C = Cut Case

I Individually Bar-Coded

** Kit includes OxBox™, frame and louvered cover

TAKE THE FIELD.

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DISTRIBUTED BY

#LT2-TURBOVNT

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B.8/16 TURBOVENT

