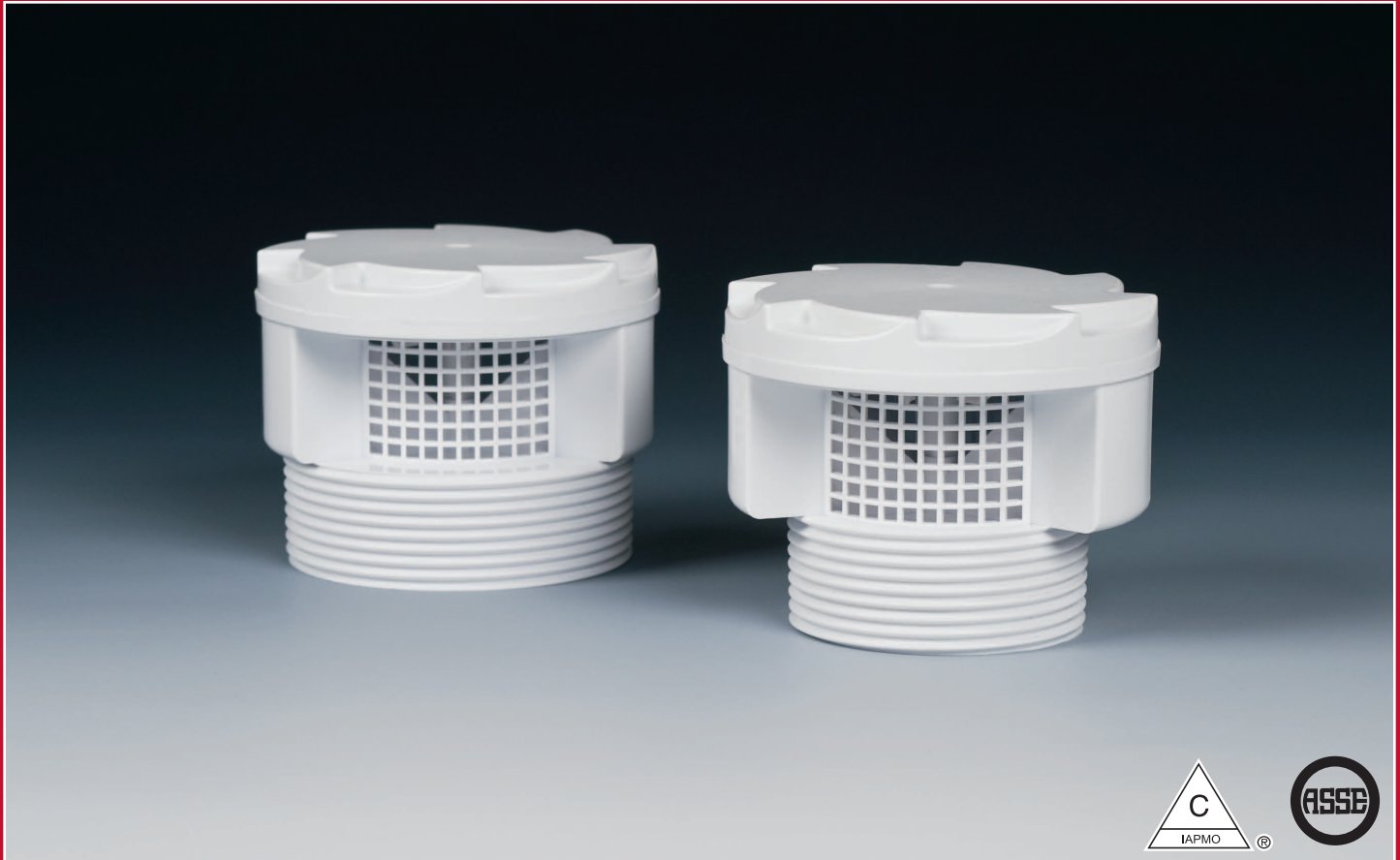


TurboVent™

NEW

Air Admittance Valve



SELF-CLEANING

- Seal spins to scour surface with every activation

COMPLETE

- Female adapter and debris sleeve included

ENGINEERED

- Actuating device seals positively with 13 PSIG of back-pressure
- Large open vent area for exceptional air intake

DURABLE

- ABS material stands up to job site abuse

RATED

- ASSE listed to 1050 and 1051
- IAPMO classified listing

PROUD

- Made in USA



Supply • Drainage • Support • Testing • Specialties • Tools • Access

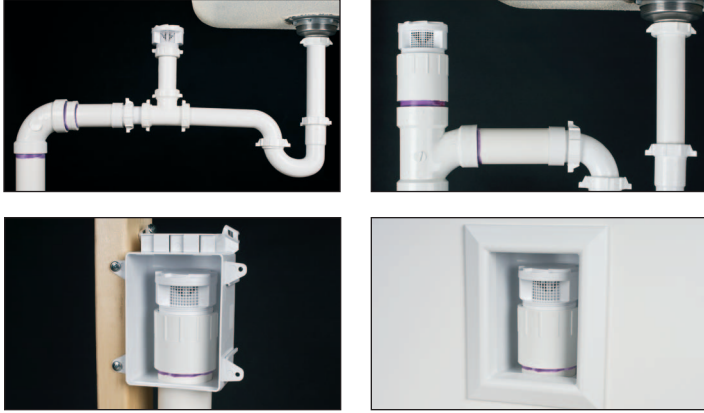


Sioux
Chief

MANUFACTURING SINCE 1957

TurboVent

The TurboVent air admittance valve (AAV) is designed to allow air to enter the drainage, waste, and vent system (DWV) without allowing harmful sewer gases to foul a building's living area. The TurboVent prevents siphonage, thus protecting fixture trap seals.



MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS

Drain, Branch or Stack Size	Max. DFUs on Branch	Max. DFUs on Stack
1¼"	1	8
1½"	3	24
2"	6	42
3"	20	72
4"	160	500

Adapted from 2009 IPC Table 710.1(2) "Horizontal fixture Branches and Stacks".

The Right Size for Any Job

TurboVent AAV's are sized to accommodate common drainage fixture unit (DFU) requirements as marked on the top of each unit. Each unit comes with an adapter to be used in various installations. The TurboVent can be used in branch venting applications or stack venting applications. Consult all local codes prior to installation.



1½" connection



2" connection

DFU VALUE AS LOAD FACTORS FOR COMMON APPLIANCES

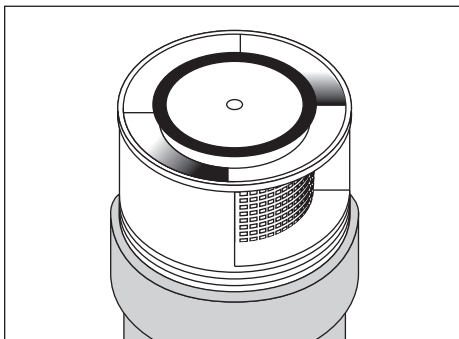
Automatic clothes washers	3 (commercial) or 2 (residential)
Bathroom group: water closet (1.6 gal.), lavatory, bathtub or shower on the same floor level	6 (commercial) or 5 (residential)
Dental lavatory	1
Dish washing machine	2 (residential)
Drinking fountain	0.5
Bathtub with or without shower	2
Kitchen sink and 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 (less than 1 gal.)	0.5 (no-water) or 2 (with water)
1¼" trap size	1
1½" trap size	2
2" trap size	3
3" trap size	5
4" trap size	6

See code for proper drain and vent computation of fixtures with intermittent flow.

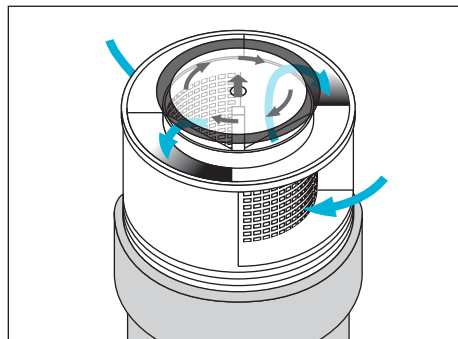
Source: 2009 International Plumbing Code®

Adapted from 2009 IPC Table 709.1 "Drainage Fixture Units for Fixtures and Groups" & 709.2 "Drainage Fixture Units for fixture drains or traps".

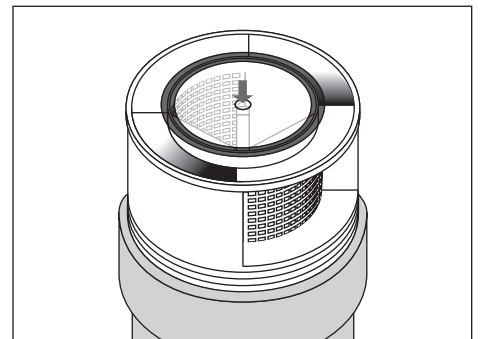
How It Works



Valve is normally closed, preventing the escape of sewer gasses from DWV system.

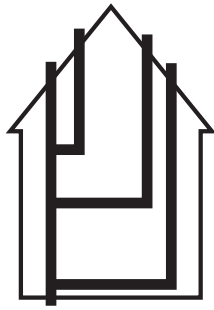


When waste water drains, it creates negative pressure in the DWV system, which lifts open the actuating device (AD) within the AAV and allows air to enter the system. As the AD is lifted, its turbine fins spin the device clockwise upon each activation, cleaning the sealing surface upon each activation.



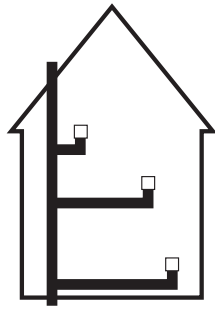
After the water has drained completely, the valve closes, preventing sewer gas from entering the living area.

TurboVent Advantages



Traditional Venting

Traditionally, a network of DWV pipe, fittings, and hangers have been used to vent every fixture or group of fixtures throughout a building. These pipes maintain trap seals, prevent pressure fluctuations, and insure the safety of the residents of the building.

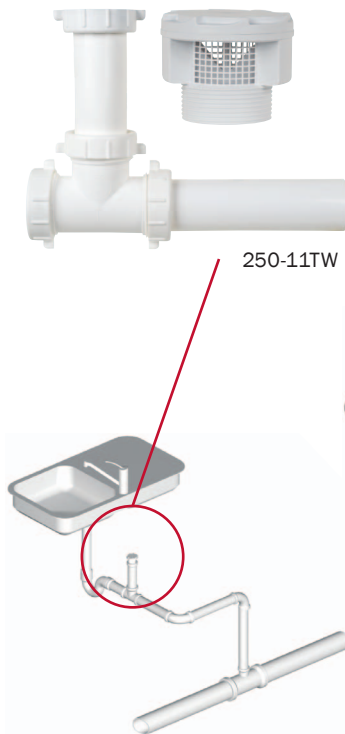


TurboVent Venting

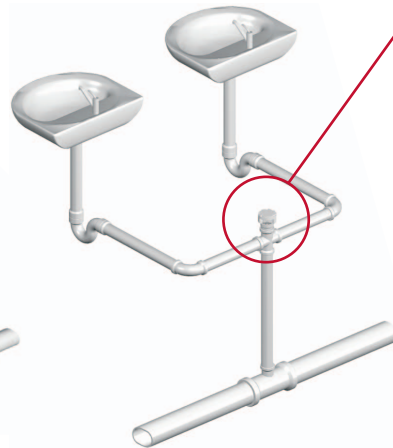
Using a TurboVent on individual fixtures or groups of fixtures saves costly labor and yards of material with no sacrifice to the drain, waste, and venting of the plumbing system.

Benefits

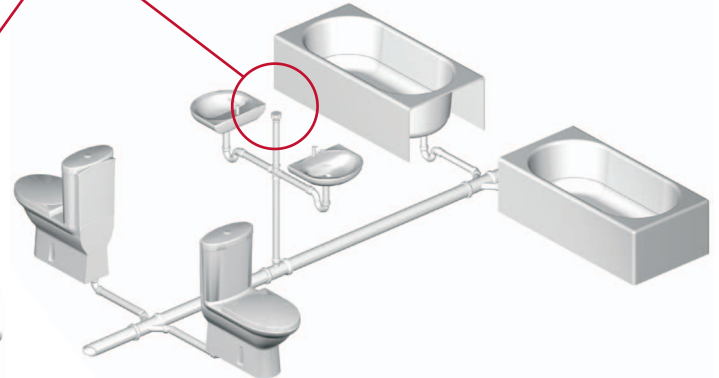
- Reduces roof penetrations, their needed flashings, and potential for leaks.
- Keeps common open-pipe vent gases from entering air-handlers.
- Significantly reduces fire-stopping needs of through-penetrations.
- Less expensive than the typical matrix of plumbing fittings, hangers, and pipe.
- Faster installations compared to standard plumbing practices.
- Adequately and efficiently allows proper island sink venting.
- Perfect for remodel jobs.



250-11TW



250-12P

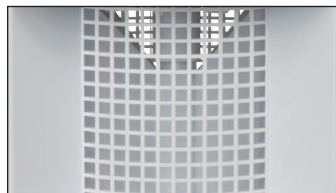


Unique Features



Self-Cleaning

The actuating device is molded with turbine-like fins that spin with each activation, keeping the sealing surface free of dust and debris.



Fast Drainage

Open Grate Area	Model
1.134 in ²	1½" & 2"



Professional Looks

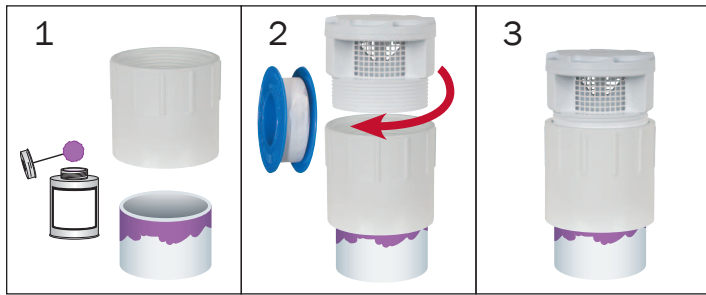
Each model is made of durable white ABS for a clean, professional look when installed. The inexpensive louvered frame insert can be installed for a perfect finish. All boxes and accessories can be painted or wall-papered.



Protection

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

Installation

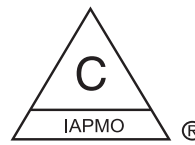


- Install in an area with adequate ventilation.
- Install in the upright position, not exceeding 15° from vertical.
- Install in an accessible location for inspection and maintenance.
- Do not install outdoors.
- Do not subject AAV units to temperatures below -40° F or above 150° F.
- Install TurboVent at least 4" above trap overflow.
- Install TurboVent 6" above insulation for attic applications.
- Remove protective debris cover after installation.
- 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.
- AAVs are engineered and listed to handle a certain fixture load which is represented on the top of each unit. Verify any application is consistent with minimum standards for piping installations and drainage output of the device/fixture it is being installed to vent.

Codes & Standards

- Certified by ASSE to 1050 & 1051
- Listed by IAPMO
- Conforms to ASTM D2661/D2665/F409 for packages w/ drainage adapters
- Conforms to International plumbing Code(IPC) 2009
- Conforms to International Residential Code (IRC) 2009
- Conforms to Uniform Plumbing Code (UPC) 2009 section 301.2

National Model Codes



IPC

2009 International Plumbing Code (IPC)

SECTION 917 AIR ADMITTANCE VALVES

917.1 General. Vent systems utilizing air admittance valves shall comply with this section. Stack-type air admittance valves shall conform to ASSE 1050. Individual and branch-type air admittance valves shall conform to ASSE 1051.



250-11A



250-11P



250-11TW



696-11P

PVC Item No.	ABS Item No.	Drainage Fixture Units		Thread/Hub Connection	Pkg	Min. Qty	Case Qty	List Price
		Stack	Branch					
TURBOVENT WITH ADAPTER								
250-11P	250-11A	8	20	1½"	C*	1	6	21.50 EA
250-12P	250-12A	24	160	2"	C*	1	6	22.50 EA
TURBOVENT WITH WASTE ARM EXTENSION ADAPTER								
—	250-11TW	8	20	1½" white tubular	C*	1	6	26.50 EA
—	250-11TB	8	20	1½" black tubular	C*	1	6	26.50 EA
TURBOVENT WITH ACCESS BOX, ADAPTER, FRAME, LOUVERED INSERT & BOX CLIP								
696-11P	696-11A	8	20	1½"	C*	1	6	29.50 EA
696-12P	696-12A	24	160	2"	C*	1	6	30.50 EA

Packaging Codes || C: cut-case box *: individually bar-coded

DISTRIBUTED BY

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www.siouxchief.com

