



April 7, 2016

REVISED COPY

SIOUX CHIEF MFG.
RANDY WRIGHT/EMILY ISMERT
24110 S. PECULIAR DR
PECULIAR MO 64078

Re: Description: AIR ADMITTANCE VALVES FOR PLUMBING DWV SYSTEMS
Manufacturer: SIOUX CHIEF MFG.
Product Name: (trans id 2689418) AIR ADMITTANCE VALVES
Model Number(s): 250-11A, 250-11P, 250-12A AND 250-12P
Product File No: 20160110

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an alternate approval to s. SPS 382.31 based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of April 2021.

This approval supersedes the approval issued on October 18, 2010 under product file number 20100387.

This alternate approval is contingent upon compliance with the following stipulation(s):

- Prior to testing an Air Admittance Valve (AAV), the test device (manometers, joints and test stands) shall be calibrated with a minimum 6 - inch piece of pipe with a solvent welded cap connected to the testing device.
- The AAV shall be tested prior to or after installation using the following test:

The AAV shall be subjected to a pressure equal to 1 inch of water column. After observing for 1 minute, if the pressure falls .5 of an inch or less, it will be considered a passing AAV.
- AAVs that fail the test shall be marked with an "X" and shall be returned to the distributor's representative with a completed copy of the report form made available by the Department of Safety and Professional Services. The original of the report will be sent by the installer/contractor to the Department at least semi-annually. The valve will be replaced by the distributor under warranty.
- AAVs that have failed the test and have been returned will be subject to re-testing by _____ or its designee, conducted under observation by NSF International, at the manufacturing facility.
- The AAV must be installed in accordance with the manufacturer's printed instructions, system approval, plan approval, and Wis. Adm. Code. If there is a conflict between the manufacturer's instructions and the plan approval, system approval or Wis. Adm. Code, the Wis. Adm. Code plan approval and system approval will take precedence.
- The AAV must be installed in the vertical position (plus or minus 15 degrees from plumb).

- The AAV must be located:
 - a minimum of 4 inches above the top of the horizontal pipe being served (see note a),
 - no more than 20 inches below the flood rim of any fixture served by this product (see note a),
 - at least 6 inches above insulation materials (see note a),
 - in an accessible area,
 - within a ventilated space that allows air to enter the product and has an opening with an area of at least one-inch to the building air or outside air,
 - in accordance with s. SPS 382.31 (9), Wis. Adm. Code,
 - with at least one open air vent located downstream of all air admittance valves extending to outside atmosphere, and
 - with a 3 inch or larger vent installed to the atmosphere in all systems that include air admittance valves installation

Note a: The distance is measured from termination of the vent pipe to the point noted in the stipulation.

- The vent system being served by the AAV may have horizontal offsets located less than 36 inches above the floor on which the fixtures are installed providing the vent does not connect to another vent.
- Branches which have fixtures served by the AAV must comply with all of the following:
 - When connected to a stack which has four (4) or more branch intervals above the branch connection, the branch must be provided with a relief vent located between most downstream fixture and the stack, and
 - The branch must not connect to any horizontal drain within 20 pipe diameters downstream of the base of a two- inch or larger drain stack.
- The AAV may serve a pumped-discharge type clothes washer standpipe when the fixture drain downstream of the point of vent is at least 3 inch diameter.
- This AAV must be located and the system sized in accordance with Table 1 and Table 2

Sioux Chief Model 250-11A, P, & TW

Table 1

Maximum Drainage Fixture Units Served (see note a)	Maximum Developed Distance of Vent to Connection of Air Admittance Valve	
	1-1/4" Vent Diameter (see note b)	1-1/2" Vent Diameter (see note c)
1	35	NL (see note d)
3	28	140
6	NP (see note e)	100
20	NP	60

- Notes: a: Drainage Fixture Units based on ch. SPS 382, Wis. Adm. Code
 b: No water closets permitted
 c: Not more than two (2) water closets or similar type fixtures of four (4) or more drainage fixture units.
 d: NL means no limit
 e: NP means not permitted

Sioux Chief Model 250-12A & P
 Table 2

Maximum Drainage Fixture Units Served (see note a)	Maximum Developed Distance of Vent to Connection of Air Admittance Valve in feet			
	Diameter of vent in inches			
	1-1/4 (see note b)	1-1/2 (see note c)	2	3
1	35	NL (see note e)	NL	NL
3	28	140	NL	NL
6	NP (see note f)	100	200	NL
20	NP	60	110	NL
160	NP	NP	25	300

Notes: a: Drainage Fixture Units based on ch. SPS 382, Wis. Adm. Code
 b: No water closets permitted
 c: Not more than two (2) water closets or similar type fixtures of four (4) or more drainage fixture units.
 e: NL means no limit
 f: NP means not permitted

- The AAV may only serve as a termination point for a:
 - branch vent,
 - circuit vent,
 - common vent,
 - individual vent,
 - wet vent or
 - combination drain and vent system.

- This AAV may not be located within the same room or enclosure as a:
 - Bio Safety Lab (BSL) 3 and 4 laboratory,
 - health care facility as defined in s. SPS 381.01 (116), Wis. Adm. Code,
 - restaurant kitchen licensed by the state or local department of health,
 - food and beverage production areas,
 - food and beverage storage areas,
 - residential bedroom or
 - daycare

- The AAV may not serve as a vent termination point for any of the following:
 - vents installed to relieve positive pressures,
 - vents serving chemical waste system,
 - vents serving POWTS holding tank or POWTS treatment tank,
 - a stack vent serving two (2) or more branch intervals,
 - a vent stack that is required in accordance with s. SPS 382.31 (4) (a),
 - a vent serving a sump, or
 - a vent system serving Bio Safety Lab (BSL) 3 or 4 laboratories.

- This AAV may not be located within the same room or enclosure as a:
 - Bio Safety Lab (BSL) 3 and 4 laboratory,
 - health care facility as defined in s. SPS 381.01 (116), Wis. Adm. Code,
 - restaurant kitchen licensed by the state or local department of health,
 - residential bedroom or
 - daycare

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- Notice to Owner:
When an AAV is installed in a building, the owner shall be provided with a copy of the manufacture's written AAV description by the contractor.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter
Environmental Engineer - Plumbing Product Reviewer
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