

**GENERAL SPECIFICATION:** Air Admittance Valves (AAV's) for the plumbing industry use in commercial, residential and industrial buildings. AAV's provide a device to allow buildings internal air to enter terminals of drainage, waste and ventilation (DWV) systems, serving multiple fixtures on stack, branch or individual plumbing systems. A minimum of one open vent shall extend to outdoor air for every plumbing drain. The AAV seals by gravity under zero differential pressure (static or no flow conditions). Under positive pressure the AAV is a one-way valve that seals to prevent sewer gasses or water from exiting the AAV terminal when pressure less than atmospheric develops. The AAV is an anti-siphon valve that quickly opens before the waterseal of the trap can be broken by negative vacuum (suction).



**Model:** FA1520  
**Size:** 1 1/2" or 2"  
**Brand:** Frajon AAV  
**Rate:** 160DFU

| Horizontal Branch Size | Max DFU's |
|------------------------|-----------|
| 1 1/2"                 | 3         |
| 2"                     | 6         |
| 3"                     | 20        |
| 4"                     | 160       |

| Vertical Stack Size | Max DFU's |
|---------------------|-----------|
| 1 1/2"              | 8         |
| 2"                  | 24        |

#### WARRANTY:

Lifetime Limited Warranty for replacement of the Frajon AAV.

#### LOCATION REQUIREMENTS:

Frajon AAV may be used in Commercial, Residential and Industrial Buildings for individual, common, branch and circuit vents on stack vents and vent stacks.

Frajon AAV may not be used to relieve positive pressure, acid waste system or in supply and return air plenums.

#### INSTALLATION:

Frajon Air Admittance Valves (AAV's) shall be installed in accordance with the plumbing code standards adopted by the local jurisdiction and our manufacturer's installation recommendations.

- A minimum of one open vent shall extend outdoors to the open air for every plumbing drain to which an AAV system discharges.
- The AAV shall be installed a minimum of 4 inches (102mm) above the horizontal trap arm of the fixtures being vented.
- Island fixture venting with AAV's anti-siphon protection of traps water seal below the fixture flood level is permitted in the IRC section P3112.3.
- Stack Type secondary venting of terminals AAV's shall be installed a minimum of 6" above the highest flood level rim of the fixtures on one floor level only.
- An AAV terminal located in an attic shall be a minimum of 6" inches above insulation materials.
- Sizing of the Frajon AAV is rated for 6, 20 and up to 160 DFU's to serve 1 1/2", 2" and 3" vent terminal connections (see DFU table).
- Carefully prepare vent pipe riser for application of approved solvent weld for the HUB adapting connector.
- Apply approved tape to the male threads of the AAV device then insert into the female threaded adaptor socket on the vent pipe and hand tighten in a clockwise direction to an airtight seal.
- AAV's shall be accessible and removable for inspection, service or replacement.
- AAV's shall be located in a ventilated space that allows air to enter the valve freely.
- When located in a wall space the AAV shall be installed in a recess box with a louver removable grill.
- Before pressure cleaning or blockage remove the AAV from the terminal and insert plug.
- Island fixture venting using AAV's in a cabinet below the sink or lavatory is permitted.

#### LISTINGS:

ANSI/ASSE 1050 Stack AAV's for Sanitary Drainage Systems.

ANSI/ASSE 1051 Individual and Branch Type AAV's for Sanitary Drainage Systems.

#### MATERIALS:

ABS – Acrylonitrile Butadiene Styrene  
 ASTM Standard Specification

#### CODE REFERENCES:

- International Plumbing Code (IPC) AAV Section: 917 (918-2012)
- International Residential Code (IRC) AAV Section: P3114 & P3112.3
- HUD-ICC Plumbing Code IRC (-P) for One- and Two-Family Dwellings
- Uniform Plumbing Code (UPC) Section: 301
- National Standards Plumbing Code Section: E.1 to E.8
- National Plumbing Code of Canada

#### LIMITATIONS OF USE:

- Shall not be used to relieve positive pressure.
- Shall not be used in an acid waste system's.
- Shall not be used in a supply or return plenums.
- AAV's can not be used to vent a sewage lift station (Ejectors).
- AAV's can not be used for venting septic tanks. Septic tanks require fresh air from the open vent closest to the tank.
- Remove AAV's before pressure cleaning or blockages and then insert plug to threaded socket. Always reinstall in accordance with the manufacturer's installation instructions.
- Exposure to subfreezing temperatures maximum -40°F requires an accessible insulated recess box with ventilated removable cover grill for the protection of the valve.
- Elevated temperatures to a maximum +150°F, no special protection required. An accessible recess box as cover with ventilated removable grille for extra protection of the valve.