To prevent sewer gases from being released into the structure, plumbing code requires a trap to be installed at every fixture. A trap is a U-shaped bend of pipe filled with water to maintain an equalized pressure. The DWV system uses gravity and air displacement throughout the piping network to function and breathe. In a simplified example, water in an inverted bottle without an air hole will sputter and gasp when emptied. Adding an opening to the bottom of the bottle will turn the process into an efficient, steady flow because the bottle "breathes."

Air Admittance Valves

Valves play a vital role in the overall functionality of the DWV system in order for the removal of waste and the vent pipes that prevent traps from siphoning and maintain an equalized pressure. The DWV system uses gravity and air displacement throughout the piping network to function and breathe. In a simplified example, water in an inverted bottle without an air hole will sputter and gasp when emptied. Adding an opening to the bottom of the bottle will turn the process into an efficient, steady flow because the bottle "breathes."

A vent will prohibit siphoning, maintaining the trap seal. The siphon will pull the water from a trap, Water moving through pipes can create a negative pressure that will pull water from a trap, keeping the sewer and atmospheric pressures equalized to prevent the sewer gases from being released inside a building. A vent will prevent sewer gases from escaping inside a building.

EVERY TRAP NEEDS A VENT.  EVERY DRAIN NEEDS A TRAP.

Sure-Vent® Air Admittance Valves

- Air Admittance Valve (AAV) open and close in conjunction with normal DWV system operation, effectively eliminating the need for secondary vents. An AAV provides an alternative to secondary venting when utilized within the scope of model plumbing codes, referenced standards and Oatey installation instructions.

Air Admittance Valves (AAVs) are often more economical than running vent pipe in new construction because they reduce the added need for vent pipes, especially on long runs to the stack vent. AAVs are often more economical than running vent pipe to the stack vent because they reduce the added need for vent pipes, especially on long runs to the stack vent. AAVs are often more economical than running vent pipe to the stack vent because they reduce the added need for vent pipes, especially on long runs to the stack vent. AAVs are often more economical than running vent pipe to the stack vent because they reduce the added need for vent pipes, especially on long runs to the stack vent.
Which DFU Is Right for You?

Make the right choice
Sensitivity to pressure changes, combined with its ability to consistently open and close, is what distinguishes the Oatey® Sure-Vent® AAV from all others. Superior engineering along with stringent quality standards ensure a lifetime of unmatched performance.

Available in 6, 20, 160, and 500 DFU. An air admittance valve’s ability to breathe is measured in Drainage Fixture Units or DFUs. The higher the DFU rating on the valve, the greater the amount of air that can enter the DWV system. DFU loads are assigned to plumbing fixtures dependent on the volume rate of discharge, the duration of operation and the time between operations. Common fixture load ratings are shown in the table. To ensure proper breathing capability, determine all the fixture loads and calculate the total DFU load.

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