

OPERATIONAL MANUAL: AVB-075, AVB-100, AVBU-075 & ABVU-100

The purpose of the **Atmospheric Vacuum Breakers** is to prevent a siphon from allowing a contaminant or pollutant into the potable water system. This plumbing system safety valve is considered protection from high hazard or toxic substances, and may be used for low-hazard materials as well.

These Atmospheric vacuum breakers are designed for water pressures operating ranges from 20 to 150 PSI maximum.

These Atmospheric vacuum breakers are designed be used when connecting sprinkler irrigation systems to a municipal water supply and meet or exceed most building codes.

These Atmospheric vacuum breakers are designed and built to prevent the possibility of back siphoning of water form sprinkler lines into potable drinking water.

All Atmospheric vacuum breakers must be installed a minimum of 6 to 12* inches above the highest elevated piping or sprinkler in a given circuit or per local plumbing code.

Installation should be according to **diagram #1**

CAUTION:

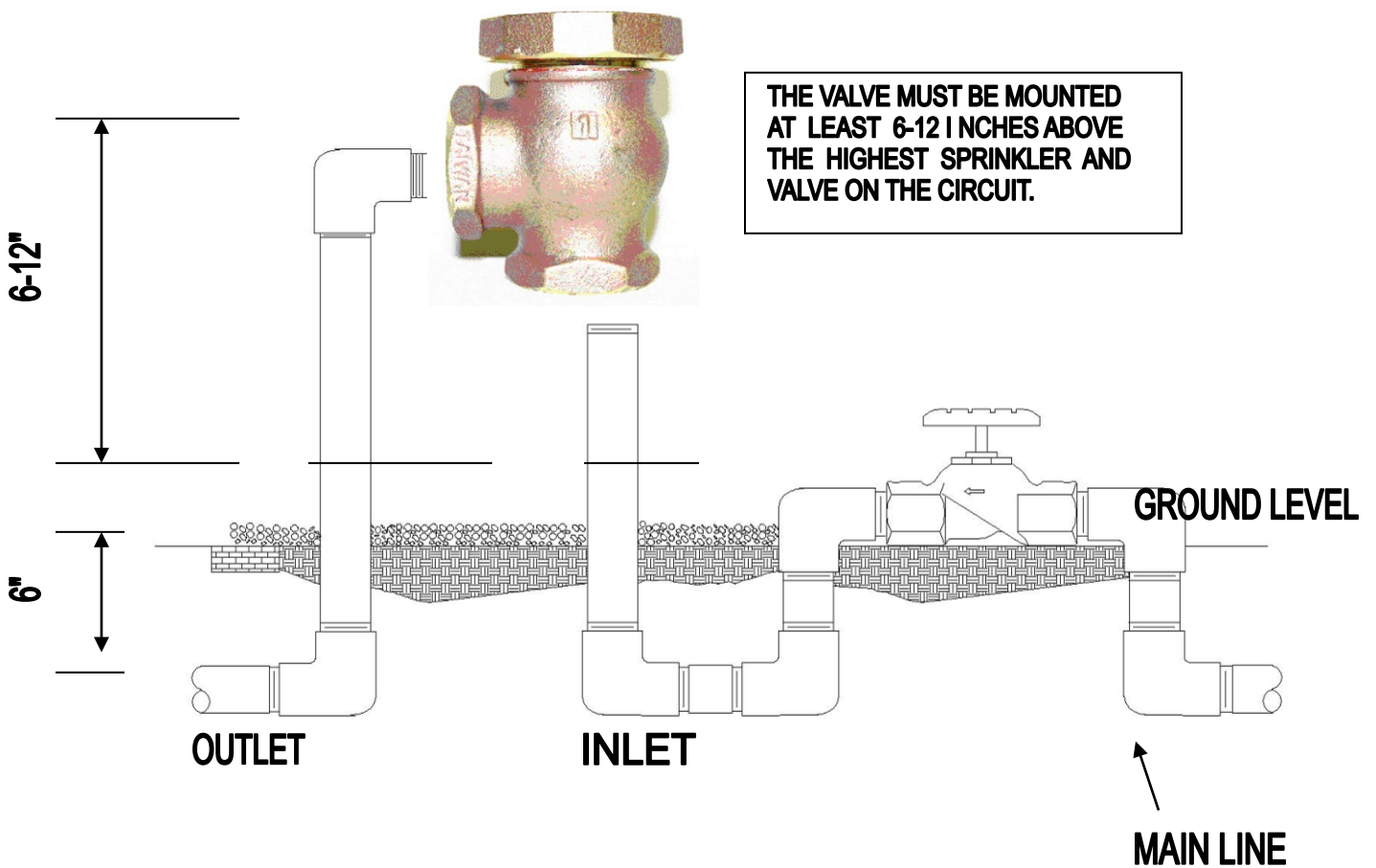
- 1) Never use these Atmospheric vacuum breakers as a master valve or main line backflow device.
- 2) These atmospheric vacuum breakers shall not be subjected to continuous pressure for more than twelve (12) hours.
- 3) These atmospheric vacuum breakers shall be installed vertically and in accordance with the requirements of the local plumbing code.
- 4) These atmospheric vacuum breakers shall not be installed where the venting of water from the device during its normal functioning causes damage.
- 5) These atmospheric vacuum breakers shall be installed downstream of the last valve.

The atmospheric vacuum breaker size is determined by the corresponding water flow (GPM) of the main line or the sprinkler circuit. $\frac{3}{4}$ " vacuum breakers: 13 GPM or less, 1" vacuum breakers 14 GPM or more.

Always thoroughly flush the main line before connecting and testing the assembly. Debris may damage the atmospheric vacuum breakers. Use appropriate metal pipe or Schedule 40 PVC, on the inlet side of the vacuum breaker. Thin walled PVC pipe or flexible polyethylene pipe may be used down stream of valve. Teflon tape should always be used when connecting vacuum breakers on the pipe connections. Remember: **DO NOT OVER-TIGHTEN.**

** Please check compliance to local plumbing codes*

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INSTALLATION DIAGRAM #1