

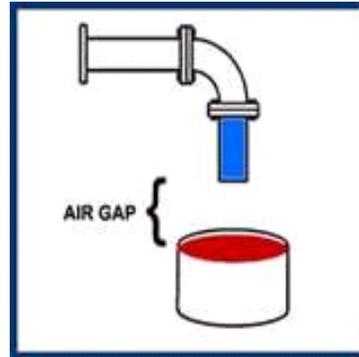


WAYS TO PROTECT FROM BACKFLOW

Air gap

Description: An approved air gap is a method of backflow prevention that means the physical separation between the end of the water supply pipe (example: faucet) and open vessel (example: sink).

Installation and testing requirements: The separation must be twice the supply pipe inside diameter but never less than one inch. An air gap or physical disconnection gives the highest degree of protection and shall be used whenever practical in high hazard situations subject to backpressure. Since the application of air gaps is limited, other backflow protection systems can be used. **Approved City Protection.**



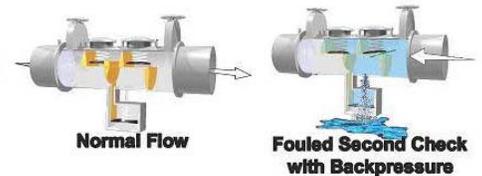
Reduced Pressure Zone Backflow Preventer

Description: The Reduced Pressure backflow preventer consists of two independent check valves and a differential pressure relief valve, which automatically relieves excess pressure.

Typical use: The reduced pressure zone backflow preventer controls direct and indirect cross-connections it's also used to isolate potable water from non-potable water lines. Used for high hazard risks, the reduced pressure zone backflow preventer provides the highest level of protection. **Approved City Protection.**

■ Reduced Pressure Principle Assembly

*** Inspection Required Annually**



Installation and testing requirements: Due to certain combinations of check valve failure and/or system backpressure cause the relief valve to discharge, the device must be mounted in a location where the drain will not become flooded. Annual testing is required.

Reduced Pressure Detector Assembly (RPDA)

Description: This assembly is comprised of a mainline reduced pressure backflow assembly equipped with OSY gate valves, a bypass arrangement containing a smaller reduced pressure backflow assembly and water meter.

Typical Use: this assembly is intended to protect the potable water supply from fire sprinkler systems that contain chemical additives or can be connected to an auxiliary non-potable water source. **Approved City Protection.**



Installation and testing requirements: Due to certain combinations of check valve failure and/or system backpressure cause the relief valve to discharge, the device must be mounted in a location where the drain will not become flooded. Annual testing is required.

Pressure Vacuum Breaker

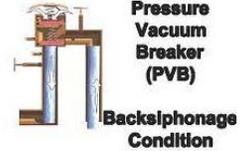
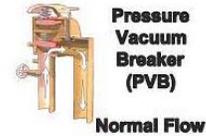
Description: The Pressure Vacuum Breaker (PVB) is a device consisting of one independently operating spring loaded check valve.

Typical use: Ideal for health hazards to protect against back-siphonage under continuous pressure such as irrigation systems and industrial process water systems where the water enters the equipment.

Not Approved Meter Protection.

■ Pressure Vacuum Breaker

*** Inspection Required Annually**



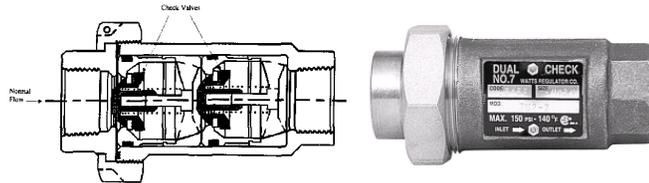
Installation and testing requirements: Commonly used in outdoor applications for protection in high or low hazard situations. Annual testing required.

Residential dual check

Description: The Residential Dual Check (RDC) provides protection by closing two internal check valves whenever the water flow stops or reverses direction.

Typical use: The Residential Dual Check valve is designed for non-health hazard residential water systems.

Not Approved Meter Protection.



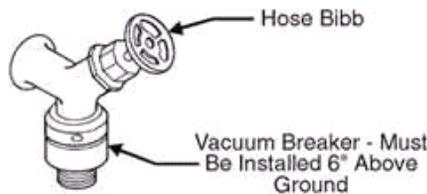
Installation and testing requirements: A Residential Dual check is installed immediately downstream of the residential water meters, this device needs to be rebuilt or replaced ever 5 years. There is no annual testing required.

Hose connection vacuum breaker (HVB)

Description: The spring-loaded check valve in the HVB does not allow drainage of water from between the hose bib and the upper part of the HVB. This device works to prevent backflow to the water supply by venting water to the atmosphere (onto the ground) when backflow conditions exist.

Typical use: The most common places HVB are installed, are sillcocks (where garden hoses connect), and laundry sink faucets.

Not Approved Meter Protection.



Installation and testing requirements: A hose connection vacuum breaker, or HVB are installed on your outside faucets to prevent backflow of contaminated water into the water supply. No annual testing is required.