Thornton has implemented an operational backflow and cross-connection control program.

Through compliance of section 11.39, Thornton can ensure that we are providing safe drinking water to all our customers.

Section 11.39 requires water suppliers that own and/or operate public water systems protect the drinking water from potential contamination through cross connections. The CDPHE and Thornton Water Quality are responsible for ensuring that water suppliers comply with Section 11.39.

It's up to all of us to ensure that all backflow prevention assemblies within the water distribution system are being tested and maintained annually.

Thornton Cross-Connection Control and Backflow Prevention Program,
720-977-6586
backflow@ThorntonCO.gov

www.ThorntonCO.gov

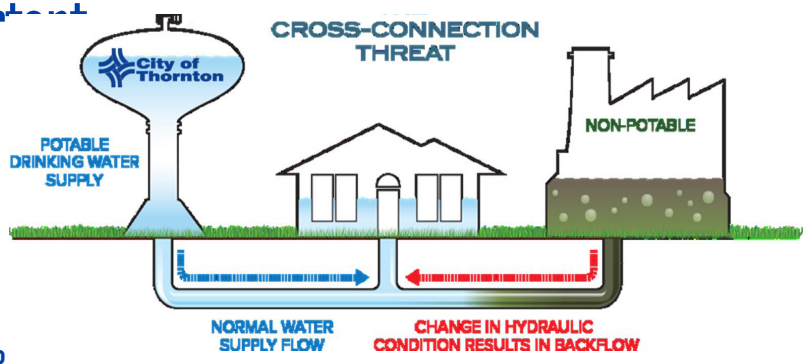
City of Thornton
Infrastructure Department
12450 Washington St.

City of Thornton
Cross-Connection Control & Backflow Prevention Program

City of Thornton

Here's why a cross-connection control program is important

A program to control cross-connections and prevent backflow is critical to ensuring the safety of the drinking water we provide to our residents.

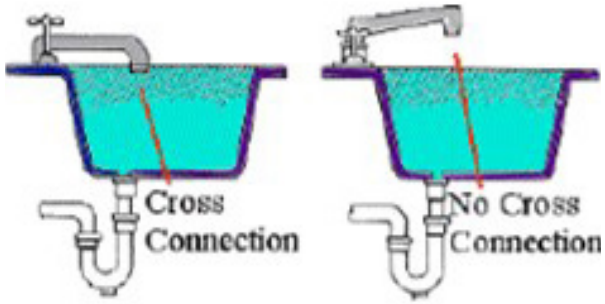


What is cross connection?

A cross-connection is a direct arrangement of a piping line that allows the potable water supply to be connected to a line that contains a contaminant. An example is the common garden hose attached to a sill cock with the end of the hose lying in a cesspool. Other examples are a garden hose attached to a service sink with the end of the hose submerged in a tub full of detergent, supply lines connected to bottom-fed tanks, supply lines connected to boilers.

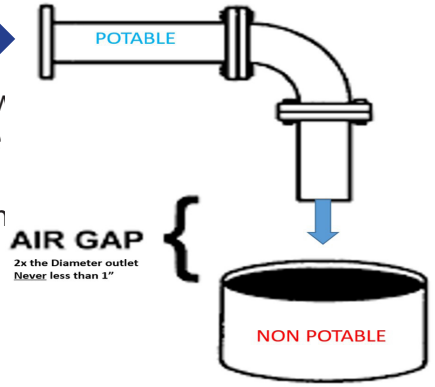
What is backflow?

Backflow is unwanted flow of water in the reverse direction. Back pressure and back siphonage are the two types of backflow.



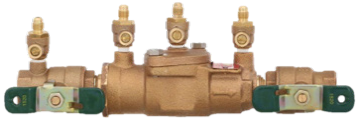
Backflow Protection & Methods

Air Gap is a non-mechanical backflow preventer and is the highest form of backflow prevention when properly installed. Needs to be 2x the diameter of the outlet and never less than 1-inch.



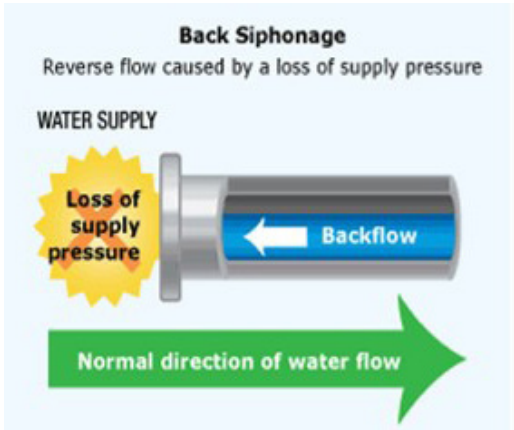
Reduced Pressure Principle Backflow Assembly (RP)

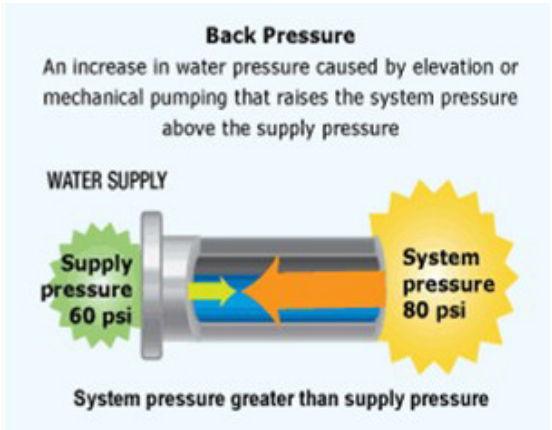
This assembly is designed to protect against a non-health hazard (pollutant) or a health hazard (contaminant). It protects against backpressure and backsiphonage.



Double Check Valve Assembly

This assembly is designed to protect against non-health hazard (pollutant). Protects against back pressure and back siphonage.





Pressure Vacuum Breaker

This assembly is designed to protect against he hazard (contaminant) acceptable for non-healt (pollutant). Protects against back siphonage or

Hose Bib Vacuum Breaker

This is not a testable assembly but is commonly used in residential or commercial hose bibs. This device protects against high hazards, and protects against back siphonage and a max of 10 feet of head of back pressure.