Cross Connection Control

A cross connection is simply a connection between the drinking water system and anything that has the potential to degrade the water in any manner.

Any time pressure in the public drinking water drops to 0 psi or below, there is a possibility that contaminants may be drawn or forced into the drinking water system. This could be caused by a break in the water distribution line, by opening a fire hydrant, installation of high pressure equipment , or a number of other common occurrences. Backflow is simply the reversal of the normal flow of drinking water in a system.

Chemical Dispensing Systems

The requirement to prevent backflow is stated in the International Plumbing code (IPC) adopted by the State of Utah, Section 608.3 Plumbing Fixtures. The supply lines and fittings for every plumbing fixture shall be installed so as to prevent backflow.

The drinking water system must also be protected from connection to chemical dispensing systems. There are several options available:

- The dispensing unit has been tested and labeled with an ASME A112.1.2 or ASME A112.1.3 sticker indicating the dispensing unit acts as an air gap. A dispensing system approved only as a ASSE 1055 is not an approved air gap.

As per the International Plumbing Code, there shall not be downstream valves of ANY atmospheric vacuum breaker. Chemical dispensing units have built in shut off valves.

Incorrect

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OGDEN CITY PUBLIC UTILITIES

Chemical Dispenser Backflow Protection and Cross Connection Control Requirements

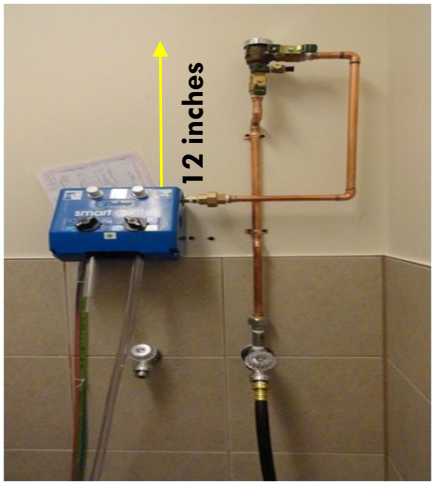
Telephone: 801.629.8334

WATER QUALITY

Chemical Dispenser Installation with SVB

INCORRECT

CORRECT



If an SVB is used to protect an ASSE 1055 dispenser, the backflow preventer must be installed 12" above the dispenser. If an RP is used, the backflow preventer can be installed below.

The waterline supply to the chemical dispenser must be either a designated line or can be connected behind the faucet (prior to the atmospheric vacuum breaker) that is currently being used. Please see photos to the left.

Both backflow preventers (shown on the right) must be tested by a certified backflow tester within 10 days of initial use and annually thereafter.

WATER QUALITY

Further information on backflow prevention and cross connection control may be found at the following web sites:

www.drinkingwater.utah.gov/backflow_tech.htm

www.ogdencity.com/en/community/public_services/water_quality.aspx

Chemical Dispenser Protection Options

RP - Reduced Pressure Principle Assembly

SVB - Spill Resistant Vacuum Breaker