REGIONAL BUILDING DEPARTMENT

316 W. 15th Street • Pueblo, Colorado 81003 • (719) 543-0002

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS

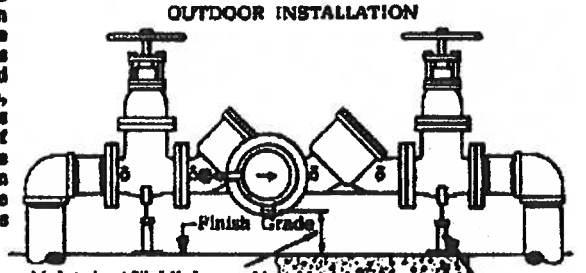
A Reduced Pressure Principle Backflow Preventer is a device consisting of two positive seating check valves and an automatically operating pressure differential relief valve integrally located between the two check valves, installed as a unit between two tightly closing shut-off valves and fitted with properly located test cocks. During normal operation, the pressure in the zone between the two check valves is maintained at a lower pressure than the supply pressure. If the zone pressure starts to approach the supply pressure, the differential pressure relief valve will automatically maintain a differential of not less than two (2) psi between the supply pressure and the zone between the two check valves by discharging to the atmosphere.

Reduced Pressure Principle Backflow Preventers are effective against backflow caused by back-pressure and back-siphonage and are used to protect the water system from substances which are hazardous to health.

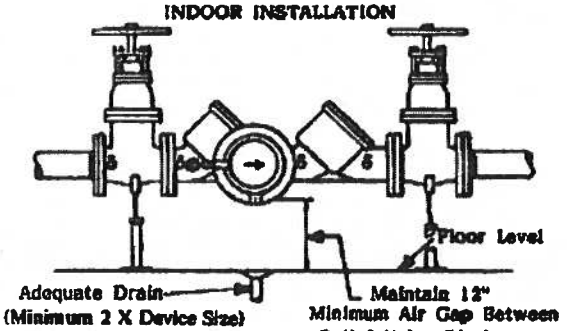
The minimum installation requirements for Reduced Pressure Principle Backflow Preventers are as follows:

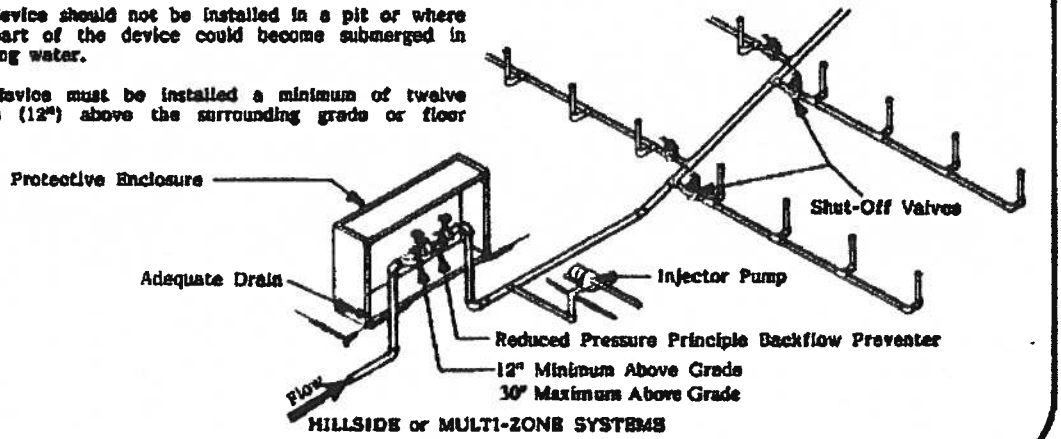
1. The device should be installed in an accessible location to facilitate inspection and servicing.
2. Pipe lines should be thoroughly flushed prior to installing the device.
3. The device must be protected from freezing (install in a properly insulated utility building or shelter and properly drain if removed from service in the winter months).
4. The device should protected by a strainer (located upstream of the device).
5. When located inside a building, the relief port should be piped to a drain or to the exterior of the building to prevent water damage.
6. The device should not be installed in a pit or where any part of the device could become submerged in standing water.
7. The device must be installed a minimum of twelve inches (12") above the surrounding grade or floor level.

OUTDOOR INSTALLATION



INDOOR INSTALLATION





HILLSIDE or MULTI-ZONE SYSTEMS