

CHAPTER 7

WATER QUALITY; CROSS CONNECTION CONTROL

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7-7-1: DEFINITIONS:

AIR GAP SEPARATION: The physical vertical separation between the free-flowing discharge end of a potable water supply pipeline and the open or nonpressure receiving vessel.

APPROVAL or APPROVED: Means approved in writing.

AUXILIARY WATER SUPPLY: Any supply of water used upon the premises other than, or in addition to the supply obtained from the City potable water system.

AWWA: The American Water Works Association.

BACKFLOW:	The flow in the direction opposite to the normal flow of water from the City system.
BACKFLOW PREVENTION DEVICE or BACKFLOW PREVENTION DEVICE ASSEMBLY:	Oregon State Health Division approved backflow prevention device such as a vacuum breaker, pressure vacuum breaker, a double check valve assembly, or a reduced pressure principle device assembly, and the attached shut-off valves on the inlet and outlet ends of the device assembled as a complete unit.
CHECK VALVE:	A valve which allows flow in only one direction.
CITY WATER SYSTEM:	The potable water system of the City of Arlington.
CROSS CONNECTION:	Any unprotected actual or potential connection or structural arrangement between a public or a consumer's potable water system and any other source or system through which it is possible to introduce into any part of the potable system any used water, industrial fluid, gas, or substance other than the intended potable water with which the system is supplied. By-pass arrangements, jumper connections, removable sections, swivel or changeover devices, and other temporary or permanent devices through which or because of which backflow can or may occur are considered to be cross-connections.
DIVISION:	The Health Division of the Oregon Department of Human Resources.
DOUBLE CHECK VALVE ASSEMBLY:	An assembly approved by the Oregon State Health Division consisting of two (2) independently acting check valves with shut-off valves on each side of the check valves and test cocks for checking the water-tightness of each check valve.
OWNER:	Any person owning a beneficial interest with a right of possession in property served by the Municipal water system, any occupant of any premises served by the City water system and

any customer or water user of the City water system.

PERSON: Includes any individual, corporation, association, firm, partnership, municipal, State or Federal agency, or joint stock company and includes any receiver, special master, trustee, assignee or other similar representative thereof.

POTABLE WATER: Safe drinking water.

PUBLIC WORKS DIRECTOR: The public works director for the City of Arlington or the public works director's designee.

REDUCED PRESSURE PRINCIPLE BACK-FLOW PREVENTION DEVICE (R.P. DEVICE): A device approved by the Oregon State Health Division for preventing backflow which has two (2) check valves, a differential relief valve located between the two (2) check valves, two (2) shut-off valves, one on the upstream side and the other on the downstream side of the check valves, and four (4) test cocks for checking the watertightness of the check valves and the operation of the relief valve.

SERVICE CONNECTION: The piping connection by means of which water is conveyed from a distribution main of a public water system to a customer's premises. The portion of the service connection which conveys water from the distribution main to the customer's property line, or to the service meter where provided, is owned by and under the jurisdiction of the water supplier.

THE CITY: The City of Arlington or the City's designee.

WATER SYSTEM: A system for the provision of piped water for human consumption. (Ord. 358, 12-7-94)

7-7-2: PURPOSE: The purpose of these regulation is to protect the water supply system of the City from contamination or pollution due to any existing or potential cross connection and to comply with OAR chapter 333, division 61. (Ord. 358, 12-7-94)

7-7-3: **CROSS CONNECTIONS REGULATED:** No cross connections shall be created, installed, used or maintained within the territory served by the City, except in accordance with these regulations. (Ord. 358, 12-7-94)

7-7-4: **PLUMBING CODE:** All Unified Plumbing Codes must be maintained. (Ord. 358, 12-7-94)

7-7-5: **BACKFLOW PREVENTION DEVICE REQUIREMENT:**
Approved backflow prevention devices shall be installed at the expense of the user, either at the service connection or within the premises, as determined by the City in each of the following circumstances:

- A. If the nature and extent of any activity of the premises, or the materials used in connection with any activity of the premises, or materials stored on the premises, could contaminate or pollute the drinking water supply.
- B. On premises having any one or more cross connections as that term is defined in Section 7-7-1.
- C. Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connections exist.
- D. A repeated history of cross connections being established or re-established.
- E. Unduly restricted entry so that inspections for cross connections cannot be made with sufficient frequency or with sufficient notice to assure that cross connections do not exist.
- F. Materials of a toxic or hazardous nature being used such that, if back siphonage should occur, a health hazard could result.
- G. Any mobile apparatus which uses the City water system or water from any premises within the City water system.
- H. On any premise where installation of an approved backflow prevention device is deemed to be necessary to accomplish the purpose of these regulations in the judgement of the City.

- I. On any premises where an appropriate cross-connection report form has not been filed with the office of the City. (Ord. 358, 12-7-94)

7-7-6: **INSTALLATION REQUIREMENTS:** To ensure proper operation and accessibility of all backflow prevention devices, the following requirements shall apply to the installation of these devices:

- A. No part of the backflow prevention device shall be submerged in water or installed in a location subject to flooding. If installed in a vault or basement, adequate drainage shall be provided.
- B. Devices must be installed at the point of delivery of the water supply, before any branch in the line, on private property located just inside of the property line. Alternate locations must be approved in writing by the City prior to installations.
- C. The device must be protected from freezing and other severe weather conditions.
- D. All backflow device prevention assemblies shall be of a type and model approved by the State Health Division and the City, and shall be at least commensurate with the degree of hazard that exists as determined by the City in accordance with OAR, chapter 333-61-070 section 6.
- E. The property owner assumes all responsibility for all maintenance and annual testing of the device.
- F. If written permission is granted to install the backflow device inside of the building, the device shall be readily accessible during regular working hours of eight o'clock (8:00) A.M. to five o'clock (5:00) P.M., Monday through Friday.
- G. All devices and assemblies shall be installed in accordance with OAR, chapter 333-61-071.
- H. Upon completion of installation, the City shall be notified and all devices must be inspected and tested. All backflow devices must be registered with the City. Registration shall consist of date of installation, make, model, serial number of the backflow device, and initial test report. (Ord. 358, 12-7-94)

7-7-7: **ACCESS TO PREMISES:** Authorized employees of the City, with proper identification, shall have access during reasonable hours to all parts of a premises and within the building to which water is supplied. However, if any water user refuses access to a premises or to the interior of a structure at reasonable times and on reasonable notice for inspection by a cross connection specialist appointed by the City, a reduced pressure principle device will be required to be installed at the service connection to that premises. (Ord. 358, 12-7-94)

7-7-8: **ANNUAL TESTING AND REPAIRS:** All backflow devices installed within the territory served by the City water system shall be tested immediately upon installation and annually thereafter by a State certified tester. All such devices found not functioning properly shall be promptly repaired or replaced by the water user. If any such device is not promptly repaired or replaced, the City may deny or discontinue water to the premises. All testing and repairs are the financial responsibility of the water user. (Ord. 358, 12-7-94)

7-7-9: **THERMAL EXPANSION:** It is the responsibility of the property owner to eliminate the possibility of thermal expansion. (Ord. 358, 12-7-94)

7-7-10: **VARIANCES:** Any variances from these requirements shall be requested in writing by the owner and approved by the City prior to device installation. (Ord. 358, 12-7-94)

7-7-11: **COSTS OF COMPLIANCE:** All costs associated with purchase, installation, inspections, testing, replacement, maintenance, parts and repairs of the backflow device are the financial responsibility of the water user. (Ord. 358, 12-7-94)

7-7-12: **TERMINATION OF SERVICE:** Failure on the part of any customer to discontinue the use of all cross connections and to physically separate cross connections is sufficient cause for the immediate discontinuance of public water service to the premises. (Ord. 358, 12-7-94)

7-7-13: **LIABILITY:** The water user or owner shall be strictly liable for any backflow incident from his premises, and shall pay the costs for any required remedial action and any associated claims of injury, medical expense, or long or short term health effects. (Ord. 358, 12-7-94)

7-7-14: **RESPONSIBILITIES:** It is the responsibility of all property owners and their renters to abide by the conditions of this Chapter. In the event of any changes to the plumbing system it is the responsibility of the property owners and their renters to notify the City. All costs associated with this Chapter and the purchase, installation, testing and repair of devices is the responsibility of the property owners and their renters. (Ord. 358, 12-7-94)