

City of Condon 41-00204

CHAPTER 54: CROSS CONNECTION CONTROL

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§ 54.01 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

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

APPROVAL or APPROVED. Approved in writing.

ATMOSPHERIC VACUUM BREAKER. A device consisting of an air inlet valve, a check vent and an air inlet part(s).

AUXILIARY WATER SUPPLY. Any supply of water used to augment the supply obtained from the public water system which service the premises in question.

BACKFLOW. The flow in the direction opposite to the normal flow caused by back siphonage or back pressure. Back siphonage is caused by negative or reduced pressure in the supply piping, and back pressure occurs when the potable supply piping is connected to a system or fixture which exceeds the operating pressure of the supply piping.

BACKFLOW PREVENTION ASSEMBLY. A backflow prevention device such as a pressure vacuum breaker, spill resistant pressure vacuum breaker, double check valve or a reduced pressure principle assembly and the attached shut off valves on the inlet and outlet ends of the device assembled as a complete unit.

BACKFLOW PREVENTOR. An air gap, AVB, PVBA, SVBA, DCVA or RPBA.

CERTIFIED BACKFLOW ASSEMBLY TESTER. A person who is certified by the Division to test backflow prevention assemblies.

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CERTIFIED BACKFLOW INSPECTOR/ SPECIALIST. A person who is certified by the Division to administer cross connection control program and conduct cross connection surveys.

CITY. The City of Condon or the city's designee.

CITY WATER SYSTEMS. The potable water system of the City of Condon.

CROSS CONNECTION. Any physical arrangement where a public water system is connected, directly or indirectly (actual or potential), with any other non-drinkable water system, used water systems or auxiliary supply, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers, air conditioner unit, fire protection system or any other assembly which contains or may contain contaminated water, sewage or other liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water system as a result of backflow. Bypass arrangement, jumper connections, removable sections, swivel or change-over assemblies or other temporary or permanent assemblies through which or because of which back flowing may occur are considered to be cross connection.

DIVISION. The Health Division of the Oregon Department of Human Resources.

DOUBLE CHECK VALVE ASSEMBLY (DCVA). An assembly of two 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.

EXPANSION. The pressure created by heated water or fluid that is not given the room to expand.

OWNER. Any person owning a beneficial interest with right of possession in any property service by the municipal water system.

POTABLE WATER. Water which is safe for human consumption.

PRESSURE VACUUM BREAKER ASSEMBLY (PVBA). An assembly consisting of an independently operating, internally loaded check valve and an independently operating loaded air inlet valve located on the discharge side of the check valves.

REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA). A device for preventing backflow which has two check valves, a differential relief valve located between two check valves, two shut off valves, one on the upstream side and the other on the downstream side of the check valves and four test cocks for checking the water tightness of the check valve and the operation at the relief valve.

RESPONSIBLE PERSON. 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.

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

SPILL RESISTANT PRESSURE VACUUM BREAKER ASSEMBLY (SVBA). One type of pressure vacuum breaker assembly.
(Ord. 03-03, passed 4-2-03)

§ 54.02 RULES AND REGULATIONS.

(A) *Purpose.* The purpose of cross connection prevention requirements is to protect the public water system from contamination and pollution.

(B) *When cross connection prevention requirements apply.* All cross connections must have backflow prevention assemblies in conformance with this section when any of the following situations exist:

- (1) If the nature and extent of any activity on the premises, or the materials used in connection with any activity on the premises or materials stored on the premises could contaminate or pollute the drinking water supply in any way;
- (2) On the premises having any cross connection as that term is defined under § 54.01;
- (3) Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not a cross connection exists;
- (4) A repeated history of cross connections being established or re-established;
- (5) Unduly restricted entry so that inspectors for cross connections cannot be made with sufficient frequency or with sufficient notice to assure that cross connections do not exist;
- (6) Materials of a toxic or hazardous nature being used such that if back siphonage should occur, a health hazard could result;
- (7) Failure to fill out and turn in the cross connection survey form;
- (8) Fire sprinkler systems using non-potable piping;
- (9) All new commercial and/or industrial construction; or
- (10) Underground sprinkler systems.

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(C) *Permits required for mobile units.* Any mobile apparatus which uses the city's system or water from any premises within the city's system must obtain a permit from the city.

(D) *Plumbing code compliance.* All backflow assemblies must be installed and maintained in conformance with the Oregon Uniform Plumbing Codes.

(E) *Installation requirements.* To ensure proper operation and accessibility of all backflow prevention assemblies, the following requirements shall apply to the installation of these assemblies.

(1) No part of the assembly shall be submerged in water or installed in a location subject to flooding;

(2) The assembly must be protected from freezing and other severe weather conditions;

(3) Assemblies 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 by the city prior to installation;

(4) All assemblies shall be of a type and model approved by the Division and city and shall at least be commensurate with a degree of hazard that exists as determined by the city in accordance with O.A.R., Chapter 333-61-070 Section 6;

(5) Plans for new construction must be approved by the city prior to installation of any assemblies;

(6) All backflow prevention assemblies shall be installed in accordance with O.A.R., Chapter 333-61-071 Sections 1 through 4.

(F) *Access to premises required.* Authorized employees of the city shall have access during reasonable hours to all parts of a premises and within the building to which water is supplied. However, if any owner or responsible person refuses access to a premise or to the interior of a structure for an inspection by a city cross connection specialist, a reduced pressure principal assembly will be required to be installed at the service connection to that premise.

(G) *Testing of assemblies.* All assemblies subject to this chapter must be tested by a certified backflow assembly tester immediately upon installation, after any repairs, after being moved, relocated or reinstalled, at least annually or more frequently if required by the city.

(H) *Maintenance of assemblies.* The owner or responsible person will be responsible for maintaining the assemblies from freezing, flooding and repairs.

(I) *Expansion.* The owner or responsible person will be responsible to eliminate the possibility of thermal expansion.

(Ord. 03-03, passed 4-2-03)

§ 54.03 CROSS CONNECTION SPECIALIST AND TESTER CERTIFICATION.

Backflow specialist and testers within the city must be certified by the Division.
(Ord. 03-03, passed 4-2-03)

§ 54.04 RESPONSIBILITIES; COST OF COMPLIANCE.

It is the responsibility of all property owners, responsible person or renter to abide by the conditions of this chapter. In the event of any change to the plumbing system, it is the responsibility of the owner, responsible person or renter to notify the city. All costs associated with the purchase, installation, testing, replacement, maintenance, parts and repairs of the backflow assembly are the financial responsibility of the owner or responsible person.

(Ord. 03-03, passed 4-2-03)

§ 54.05 FIRE SYSTEMS.

An approved double check valve assembly shall be the minimum protection for fire sprinkler systems using piping material that is not approved for potable water use and/or which does not provide for periodic flow-through during each 24-hour period unless a variance has been issued in writing. A RPBA assembly must be installed if any solution other than the potable water can be introduced into the sprinkler system.

(Ord. 03-03, passed 4-2-03)

§ 54.06 ENFORCEMENT AND PENALTIES.

Failure on the part of any owner, responsible person or renter to install maintain or conduct required testing, or discontinue the use of any backflow assembly or to physically separate any backflow assembly is sufficient cause for the immediate discontinuance of the city water service to the premises.

(Ord. 03-03, passed 4-2-03)

§ 54.07 CONSTITUTIONALITY AND SAVINGS CLAUSE.

That if any provision, section, sentence, clause or phrase of this chapter or the application of same to any person or set of circumstances are for any reason held to be unconstitutional, void, invalid or for any reason unenforceable, the validity of the remaining portions of this chapter or its application to other persons or circumstances shall not be affected thereby, it being the intent of the City Council in adopting and the Mayor in approving this chapter that no portion hereof or provision or regulation contained herein shall become inoperative or fail by reason of any unconstitutionality or invalidity of any other portion, provision or regulation.

(Ord. 03-03, passed 4-2-03)

§ 54.03 CROSS CONNECTION SPECIALIST AND TESTER CERTIFICATION.

Backflow specialist and tester within the city shall be certified by the Division
(Ord. 03-03, passed 4-1-03)

§ 54.04 RESPONSIBILITIES; COST OF COMPLIANCE.

It is the responsibility of all property owners, responsible persons or tenants to advise for the protection
of this chapter, to the extent of any change in the plumbing system, it is the responsibility of the owner,
responsible person or tenant to notify the city. All costs associated with the purchase, installation,
testing, replacement, maintenance, parts and repairs of the backflow assembly are the financial
responsibility of the owner or responsible person.
(Ord. 03-03, passed 4-1-03)

§ 54.05 FIRE SYSTEMS.

All approved double check valve assemblies shall be the minimum protection for fire protection
systems using pressurized water. All fire protection systems shall be installed and maintained in accordance
with the applicable code requirements. All fire protection systems shall be installed and maintained in accordance
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with the applicable code requirements.
(Ord. 03-03, passed 4-1-03)

§ 54.06 ENFORCEMENT AND PENALTIES.

Failure on the part of any person, responsible person or tenant to comply with the provisions of this
chapter shall constitute a violation of this chapter. Any person, responsible person or tenant who violates
any provision of this chapter shall be liable for the costs of enforcement of this chapter. Any person,
responsible person or tenant who violates any provision of this chapter shall be liable for the costs of
enforcement of this chapter.
(Ord. 03-03, passed 4-1-03)

§ 54.07 CONSTITUTIONALITY AND SAVINGS CLAUSE.

If any provision of this chapter is held to be unconstitutional, the remainder of this chapter shall remain
in full force and effect. It is the intent of the City of Condon that this chapter be held to be constitutional
to the maximum extent possible. It is the intent of the City of Condon that this chapter be held to be
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