

Municipal Code of Chicago

18-29-609 Health Care Plumbing.

18-29-609.1 General.

This section shall govern those aspects of health care plumbing systems that differ from plumbing systems in other structures. Health care plumbing systems shall conform to the requirements of this section in addition to the other requirements of this Article.

18-29-609.1.1 Where required.

The provisions of this section shall apply to the special devices and equipment installed and maintained in the following occupancies: nursing homes, homes for the aged, orphanages, infirmaries, first aid stations, psychiatric facilities, clinics, professional offices of dentists and doctors, mortuaries, educational facilities, surgery, dentistry, research and testing laboratories, establishments manufacturing pharmaceutical drugs and medicines, and other structures with similar apparatus and equipment classified as plumbing.

18-29-608.16.9 Dental pump equipment.

Where dental pumping equipment connects to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 18-29-608.13.1, Section 18-29-608.13.5, Section 18-29-608.13.6 or Section 18-29-608.15.

18-29-608.13.1 Air gap.

The minimum required air gap shall be measured vertically from the lowest end of a potable water outlet to the flood level rim of the fixture or receptacle into which such potable water outlet discharges.

18-29-608.13.5 Atmospheric-type vacuum breakers.

Pipe-applied atmospheric-type vacuum breakers shall conform to ASSE 1001 or CSA CAN/CSA- B64.1.1. Hose-connection vacuum breakers shall conform to ASSE 1011, CSA CAN/CSA-B64.2, ASSE 1019, CSA CAN/CSA-B64.2.2, ASSE 1035, CSA B64.7 or ASSE 1052. These devices shall operate wider normal atmospheric pressure when the critical level is installed at the required height.

18-29-608.13.6 Double check-valve assemblies.

Double check-valve assemblies shall conform to ASSE 1015 or AWWA C510. Double-detector check-valve assemblies shall conform to ASSE 1048. These devices shall be capable of operating under continuous pressure conditions.

18-29-608.15 Protection of potable water outlets.

All potable water openings and outlets shall be protected against backflow in accordance with the following:

1. Openings and outlets shall be protected by an air gap between the opening and the fixture flood level rim as specified in Table 18-29-608.15.1. Openings and outlets equipped for hose connection shall be protected by means other than an air gap.
2. Openings and outlets shall be protected by a reduced pressure principle backflow preventer.
3. Openings and outlets shall be protected by a backflow preventer with an intermediate atmospheric vent.
4. Openings and outlets shall be protected by atmospheric-type vacuum breakers. The critical level of the vacuum breaker shall be set a minimum of 6 inches (150 mm) above the flood level rim of the fixture or device. Ball cocks shall be set in accordance with Section 425.3.1. Vacuum breakers shall not be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors. Pipe-applied vacuum breakers shall be installed not less than 6 inches (150 mm) above the flood level rim of the fixture, receptor or device served.
5. All pull-out spout-type faucets shall be in compliance with CSA CAN/CSA-B 125 and have an integral vacuum breaker or vent to atmosphere in their design or shall require a dedicated deck- or wall-mounted vacuum breaker. Approved deck-mounted or equipment-mounted vacuum breakers and faucets with integral atmospheric or spill-proof vacuum breakers shall be installed in accordance with the manufacturer's instructions and the requirements for labeling with the critical level not less than, 1 inch (25 mm) above the flood level rim.
6. Sillcocks, hose bibbs, wall hydrants and other openings with a hose connection shall be protected by an atmospheric-type or pressure type vacuum breaker or a permanently attached hose connection vacuum breaker.

Exceptions:

1. This section shall not apply to water heater and boiler drain valves that are provided with hose connection threads and that are intended for only tank or vessel draining.

18-29-102.2 Existing installations.

→ Plumbing ← systems lawfully in existence at the time of the adoption of this chapter shall be permitted to have their use and maintenance continued if the use, maintenance or repair is in accordance with the original design and no hazard to life, health or property is created by such → plumbing ← system.