

4101:3-6-01 Water supply and distribution.

Chapter 6 of the International Plumbing Code, 2021 edition, as incorporated by reference and modified in Section 101.1.1 of this code, is further modified as follows:

(A) Replace section 601.1 with the following:

601.1 Scope. This chapter governs the materials, design and installation of *water supply systems* within a building, both hot and cold, for utilization in connection with human occupancy and habitation.

Exceptions:

1. This chapter is not applicable to private water systems or recycled water systems as defined in section 3701.344 of the Revised Code and as defined in rule 3701-28-01 of the Administrative Code and within the scope of the rules of the “Ohio Department of Health”.
2. This chapter is not applicable to public water systems as defined in division (A) of section 6109.01 of the Revised Code and as defined in rule 3745-81-01 of the Administrative Code and within the scope of the rules of the “Ohio Environmental Protection Agency”.

(B) Replace section 602.3 in its entirety to read as follows:

602.3 Water Required. This section and all subsections are deleted.

(C) Replace section 603.2 with the following:

603.2 Separation of water service and building sewer. Where *water service piping* is located in the same trench with the *building sewer* and the *building sewer* piping is not constructed of materials listed in Table 702.2, the *water service pipe* and the *building sewer* are to be horizontally separated by not less than 5 feet (1524 mm) of undisturbed or compacted earth. The required separation distance is not applicable where a *water service pipe* crosses a *sewer* pipe, provided that the water service is sleeved to a point not less than 5 feet (1524 mm) horizontally from the sewer pipe centerline on both sides of such crossing. The sleeve is to be of pipe materials listed in Table 605.3, Table 702.2, or other pipe material acceptable to the authority having jurisdiction for the *building sewer*. The required separation distance is not applicable where the bottom of the water service pipe, located within 5 feet (1524 mm) of the *sewer*, is not less than 12 inches (305 mm) above the highest point of the top of the *building sewer*.

(D) Add an exception to section 605.2.1 to read as follows:

Exception: The following items are exempt from the lead content limitations of this section (even though the potable water supply pipe which serves the fixture or supplies the nonpotable water system is not exempt):

1. Pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers that are used exclusively for nonpotable services such as process piping, irrigation piping, and outdoor watering piping.
2. Toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, and service saddles.
3. Water distribution main gate valves two inches in diameter or larger.

(E) Modify section 605.3 as follows:

Replace the term "...third party certified..." with the phrase "...*listed by an approved agency*..."

(F) Modify section 605.15.2, exception #1, as follows:

Replace the term "...third party certified..." with the phrase "...*listed by an approved agency*..."

(G) Modify section 606.1, items #2.1, #4, and #5 to read as follows:

2.1 In multiple-tenant buildings, where a common water supply piping system is installed to supply other than one-, two- and three-family dwellings, a main shutoff valve shall be provided for each tenant.

4. On the base of every riser.
5. On the top of every water down-feed pipe in occupancies other than one-, two- three- family residential occupancies.

(H) Modify section 606.2, item # 1 to read as follows:

1. On the fixture supply to each plumbing fixture other than bathtubs and showers in one-, two- and three- family residential occupancies, and other than in individual sleeping units that are provided with unit shutoff valves in hotels, motels, boarding houses and similar occupancies.

(I) Replace section 606.5.5 to read as follows:

606.5.5 Low-pressure cutoff required on booster pumps. In accordance with rule 3745-95-07 of the Administrative Code, a low-pressure cutoff, a low suction throttling valve, or variable speed suction limiting controls is to be installed on all booster pumps in a water pressure booster system to

prevent creation of a vacuum or negative pressure on the suction side of the pump when a positive pressure of 10 psi (68.94 kPa) or less occurs on the suction side of the pump while the pump is operating. Enforcement of the referenced rule is the responsibility of the local water supplier.

~~(H)~~ (J) Add a sentence at the end of section 607.1 to read as follows:

Tempered water is to be delivered from lavatories and group wash fixtures located in *public* toilet facilities provided for customers, patrons, and visitors.

~~(J)~~ (K) Replace section 607.2.1 to read as follows:

607.2.1 Circulation systems and heat trace systems for maintaining heated water temperature in distribution systems. Automatic circulating *hot water* system pumps or heat trace is to be arranged to be conveniently turned off, automatically or manually, when the *hot water* system is not in operation.

~~(K)~~ (L) Replace section 607.2.1.1 to read as follows:

J.2.1.1 Pump controls for hot water storage systems. Deleted.

~~(L)~~ (M) Replace section 607.5 to read as follows:

607.5 Insulation of piping. Piping to the inlet of a *water heater* and piping conveying water heated by a *water heater* is to be insulated in accordance with the applicable energy conservation standard referenced in Chapter 13 of the *building code* or Chapter 11 of the “*Residential Code of Ohio*”.

~~(M)~~ (N) Replace section 608.1 with the following:

608.1 General. A potable water supply system within a building is to be designed, installed and maintained in such a manner so as to prevent contamination from nonpotable liquids, solids or gases being introduced into the building potable water supply through cross connections or any other piping connections to the system. Isolation backflow prevention device applications are to conform to Table 608.1, except as specifically stated in Sections 608.2 through 608.17.10.

~~(N)~~ (O) Modify section 608.4 as follows:

Add “water-powered sump pumps,” after “Water pumps,”

(P) Modify section 608.17.1.1 to add the following exception:

Exception: If an ASSE 1022 backflow preventer is provided integral to the beverage dispensing system carbonator assembly, then neither the double

check valve with an intermediate atmospheric vent conforming to ASSE 1022 nor an *air gap* is required at the water supply connection to the beverage dispensing system.

(Q) Modify section 608.17.1.2 to read as follows:

608.17.1.2 Coffee machines and noncarbonated drink dispensers. The water supply connection to each coffee machine and each noncarbonated beverage dispenser shall be protected against backflow by a backflow preventer conforming to ASSE 1022, ASSE 1024, ASSE 1032, or protected by an *air gap*.

(P)(R) Add a sentence at the end of section 608.17.2 to read:

If the boiler feedwater, water treatment, or make-up water pipe is not provided with a high temperature check valve (rated at not less than 250 °F) near the boiler stop valve, then the temperature rating of the *backflow preventer* is to be not less than 250 °F.

(Q)(S) Replace section 608.18 in its entirety to read as follows:

608.18 Protection of individual water supplies. An individual water supply, otherwise known as a private water system, is to be located and constructed so as to be safeguarded against contamination in accordance with the rules of the “Ohio Department of Health” set forth in Chapter 3701-28 of the Administrative Code, “Private Water Systems.”.

608.18.1 Well locations. Deleted.

TABLE 608.18.1 DISTANCE FROM CONTAMINATION TO PRIVATE WATER SUPPLIES AND PUMP SUCTION LINES
Deleted.

608.18.2 Elevation. Deleted.

608.18.3 Depth. Deleted.

608.18.4 Watertight casings. Deleted.

608.18.5 Drilled or driven well casings. Deleted.

608.18.6 Dug or bored well casings. Deleted.

608.18.7 Cover. Deleted.

608.18.8 Drainage. Deleted.

(R)(T) Modify section 609.2.1 as follows:

Replace the word “hospital.” with the phrase “Group I-2, Condition 2 facility.”

(S)(U) Add an exception to section 610.1 that reads as follows:

Exception: New plumbing systems in one-, two-, and three-family dwellings are to be purged of deleterious matter and shown by a bacteriological examination, prescribed by the health authority or the water purveyor having jurisdiction and performed by a third-party testing laboratory certified/accepted by the “Ohio ~~EPA~~ Environmental Protection Agency,” that the water in the system meets prescribed water quality standards in accordance with the following procedure:

1. If, after first bacteriological examination, the water in the plumbing system meets prescribed water quality standards, then no disinfection is required.
2. If, after first bacteriological examination, the water in the plumbing system fails to meet prescribed water quality standards, then a second bacteriological examination is to be performed. If, after the second bacteriological examination, the water in the plumbing system meets prescribed water quality standards, then no disinfection is required.
3. If, after the second bacteriological examination, the water in the plumbing system fails to meet prescribed water quality standards, then the system is to be disinfected as described in this section prior to utilization.