

4714.0610 SIZE OF POTABLE WATER PIPING.

UPC section 610, Table 610.3, is amended to read as follows:

TABLE 610.3**Water Supply Fixture Units (WSFU) and Minimum Fixture Branch Pipe Sizes³**

Appliances, Appurtenances, or Fixtures ²	Minimum Fixture Branch Pipe Size ^{1,4} (inches)	Private	Public	Assembly ⁶
Bathtub or Combination Bath/Shower (fill)	1/2	4.0	4.0	—
3/4-inch Bathtub Fill Valve	3/4	10.0	10.0	—
Bidet	1/2	1.0	—	—
Clothes Washer	1/2	4.0	4.0	—
Dental Unit, cuspidor	1/2	—	1.0	—
Dishwasher, domestic	1/2	1.5	1.5	—
Drinking Fountain or Water Cooler	1/2	0.5	0.5	0.75
Hose Bibb	1/2	2.5	2.5	—
Hose Bibb, each additional ⁸	1/2	1.0	1.0	—
Lavatory (each basin), or hand sink	1/2	1.0	1.0	1.0
Lawn sprinkler, each head ⁵	—	1.0	1.0	—
Mobile Home, each (minimum)	—	12.0	—	—
Sinks	—	—	—	—
Bar	1/2	1.0	2.0	—
Clinic Faucet	1/2	—	3.0	—
Clinic Flushometer Valve with or without faucet	1	—	8.0	—
Kitchen, domestic with or without dishwasher	1/2	1.5	1.5	—
Laundry	1/2	1.5	1.5	—
Service or Mop Basin	1/2	1.5	3.0	—
Washup, each set of faucets	1/2	—	2.0	—

Shower, per head	1/2	2.0	2.0	–
Urinal, 1.0 GPF Flushometer Valve	3/4	See Footnote ⁷		–
Urinal, greater than 1.0 GPF Flushometer Valve	3/4	See Footnote ⁷		–
Urinal, flush tank	1/2	2.0	2.0	3.0
Wash Fountain, circular spray	3/4	–	4.0	–
Water Closet, 1.6 GPF Gravity Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Valve	1	See Footnote ⁷		–
Water Closet, greater than 1.6 GPF Gravity Tank	1/2	3.0	5.5	7.0
Water Closet, greater than 1.6 GPF Flushometer Valve	1	See Footnote ⁷		–

For SI units: 1 inch = 25 mm

Notes:

¹ Size of the cold branch pipe, or both the hot and cold branch pipes.

² Appliances, appurtenances, or fixtures not referenced in this table shall be permitted to be sized by reference to fixtures having a similar flow rate and frequency of use.

³ The listed fixture unit values represent their load on the cold water building supply. The separate cold water and hot water fixture unit value for fixtures having both hot and cold water connections shall be permitted to be each taken as three-quarters of the listed total value of the fixture.

⁴ The listed minimum supply branch pipe sizes for individual fixtures are the nominal (I.D.) pipe size.

⁵ For fixtures or supply connections likely to impose continuous flow demands, determine the required flow in gallons per minute (gpm) (L/s), and add it separately to the demand in gpm (L/s) for the distribution system or portions thereof.

⁶ Assembly [Public Use]. See Minnesota Rules, chapter 1305, International Building Code.

⁷ Where sizing flushometer systems, see section 610.10.

⁸ Reduced fixture unit loading for additional hose bibbs is to be used where sizing total building demand and for pipe sizing where more than one hose bibb is supplied by a segment

of water distribution pipe. The fixture branch to each hose bibb shall be sized on the basis of 2.5 fixture units.

Statutory Authority: *MS s 326B.43; 326B.435*

History: *40 SR 71*

Published Electronically: *January 25, 2016*