

Division 22 10 00 Plumbing Piping

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. Piping

- a. All piping is to be seamless.
- b. All potable water supply inside buildings shall be:
 - i. Domestic Cold Water and Hot Water, up to 3".
 1. Copper, Type L, seamless copper.
 2. Soldered / Brazed joints.
 - ii. Domestic Cold Water and Hot Water, 3" or larger.
 1. Galvanized Steel Pipe
 2. Fittings shall be 125 psig iron, screwed pipe.
 - iii. Exception: Water piping between the building stub-up and the building Domestic Water pump may be galvanized, or copper.
- c. Sanitary, Vent, and Storm piping inside building
 - i. Shall be cast iron. With cast iron fittings.
- d. Fittings:
 - i. 2" and below shall be either soldered/brazed or Pro-Press.
 - ii. 2 ½" and above shall be soldered/brazed.
- e. Groove lock pipe fittings (Victaulic or similar) is **only** permitted within mechanical rooms.
- f. Install pipe markers on each system. Include arrows showing normal direction of flow.
 - i. Pipe labels and arrows are to be installed by the plumbers – not the insulators.
- g. Piping or valves supported from the floor shall be supported with either unistrut, steel pipe or steel angle mounted to a baseplate of the same material.
- h. Piping supported from above shall be secured to structural elements only. No supports hung from other piping.

2. Valves

- a. No butterfly valves are permitted in domestic water service.
- b. All valves for domestic service must be as follows:
 - i. 2" and smaller - Ball valves.
 - ii. Larger than 2" – Specify rising stem gate valves.
 - iii. Provide tags on valves.