



BUILDINGS BULLETIN 2015-007

OTCR

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Issuer: Alan Price, P.E.
Director, Office of Technical Certification and Research

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Purpose: This document establishes acceptance criteria for mechanical tee bolted outlets for hot and cold water supply and distribution as alternative materials in the NYC Construction Codes.

Related Code AC 28-113
Section(s): PC 605.9

Subject(s): Water supply and distribution, joints and connections, metal tubing, mechanical tee bolted outlet

Background: Mechanical tee bolted outlet is not recognized in the NYC Construction Code. This Bulletin establishes the criteria for acceptance of mechanical tee outlet.

Description: Mechanical tee bolted outlets consists of upper and lower metallic housing compatible with metal tubing, a pressure responsive gasket and bolts/nuts.

Evaluation Scope: NYC Construction Codes

Evaluation Criteria: Pursuant to AC 28-113, the Office of Technical Certification and Research recognizes mechanical tee bolted outlets tested, designed and evaluated in accordance with UL 213, "*Standard for Rubber Gasketed Fittings for Fire Protection*"¹, NSF 61-2001, "*Drinking water system components health effect*"² and IAMPO PS 53-92, "*Grooved mechanical pipe couplings and grooved end fittings*"³. Acceptable mechanical tee bolted outlets shall be listed by an approved agency in accordance with all of the above standards and shall comply with the conditions of this bulletin.

Uses: Mechanical tee bolted outlets provide direct branch connections at any locations a hole can be cut in metal pipes. The hole is cut oversize to receive a locating collar, which secures the outlet in position permanently. A pressure responsive gasket seals the outside diameter of the pipe.

Restrictions: The use of U-bolted mechanical tee outlets is not addressed in this bulletin. Saddle type mechanical tee outlets are prohibited in accordance with section PC 605.9.

Conditions of Acceptance: Mechanical tee bolted outlets shall be designed and installed in accordance with the NYC Construction Codes and other applicable provisions including but not limited to the following:

A. Design

1. Mechanical tee bolted outlets shall be specified in accordance with the manufacturer's recommendations and the conditions of the listing.

B. Installation Requirements

1. Installation requirements shall be in accordance with the manufacturer's instructions, the applicable listing agency, and the conditions of this bulletin.
2. Installation shall be performed by a licensed master plumber only.
3. The licensed plumber shall submit to the Department a PW 1 or an LAA 1 application.
4. Mechanical tee bolted outlets shall be labeled as per section AC-113.4. All shipment and deliveries of materials shall be accompanied by a label certifying the material shipped or delivered are equivalent to those tested and approved.

- Referenced Standards:**
1. UL 213 - "*Standard for rubber fitting for fire protection*" 4th Edition.
 2. NSF-61 - "*Drinking water system components health effect*" 2001 Edition.
 3. IAMPO 53-92 - "*Grooved mechanical pipe couplings and grooved end fittings*"