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**BUILDINGS BULLETIN 2010-008**  
**OTCR**

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**Supersedes:** None

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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 2008 NYC Construction Codes.

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

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

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

**Evaluation Scope:** 2008 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"<sup>1</sup>, NSF 61-2001, "Drinking water system components health effect"<sup>2</sup> and IAMPO PS 53-92, "Grooved mechanical pipe couplings and grooved end fittings"<sup>3</sup>. 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 2008 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" 4<sup>th</sup> Edition.*
2. NSF-61 - *"Drinking water system components health effect" 2001 Edition.*
3. IAMPO 53-92 - *"Grooved mechanical pipe couplings and grooved end fittings"*

SUPERSEDED