

SECTION 026409
TAPPING SLEEVES AND TAPPING VALVES

1. DESCRIPTION

This specification shall govern all work and materials required for furnishing and installing tapping sleeves, sleeves and valves required to complete the project.

2. MATERIALS

Tapping sleeves shall have a Class 125 ANSI B16.1 outlet flange of cast iron, ductile iron or stainless steel. Sleeves shall be of ductile iron or 304 or 316 stainless steel. Lugs, bolts, washers and nuts shall be of 304 or 316 stainless steel. Iron sleeves shall be of the mechanical joint or caulked joint type as manufactured by Mueller, Clow, or approved equal. Stainless steel sleeves shall be of the compression gasket type capable of providing full support of the tapped pipe, as manufactured by Ford, Smith Blair, Romac, or approved equal. Gasket materials shall be of material suitable for potable water systems.

Tapping sleeves shall be sized for the type and size of pipe to be tapped. The class of asbestos cement pipe that will most likely be encountered in the water will be Class 200 for pipes 6 inches in diameter and smaller, and Class 150 for larger pipes. It should be understood that existing pipes to be tapped may not be of the type of material and/or size that is shown on the drawings. The proper size and type of tapping sleeve shall be provided and installed regardless of what is encountered.

Tapping valves shall conform to AWWA Standards and City Standard Specification Section 026411, "Gate Valves for Waterlines".

Valve boxes shall be as described in City Standard Specification Section 026411, "Gate Valves for Waterlines".

3. CONSTRUCTION METHODS

Construction methods shall adhere to those set out in City Standard Specification Section 026402 "Waterlines", and City Standard Specification Section 022020 "Excavation and Backfill for Utilities".

4. MEASUREMENT AND PAYMENT

Unless otherwise specified on the Bid Form, tapping sleeves and tapping valves shall be measured on a per each basis for each size installed. Payment for tapping sleeves and tapping valves shall include, but not be limited to, furnishing and installing the valves complete in-place including joint materials, cast iron valve box, box extension, cover, concrete collar, and all other related items such as bolting, wrapping, cement-stabilized sand encasing, backfilling and compacting; and shall be full compensation for all labor, material, tools, equipment and incidentals required to properly install the valves as indicated and specified.