

800 WATER SUPPLY & DISTRIBUTION

ITEM 803 - TAPPING SLEEVES AND VALVES

803.01 Description

803.02 Valves and Sleeves for Cast and Ductile Iron Mains

803.03 Installation

803.04 Valve Boxes

803.05 Concrete Supports

803.06 Surface Restoration

803.07 Basis of Payment

803.01 Description. The Contractor shall provide all work required to furnish and install the tapping sleeves and valves complete in service and as herein specified.

803.02 Valves and Sleeves for Cast and Ductile Iron Mains. *Unless approved by the Administrator, Division of Water,* tapping sleeves shall be mechanical joint type designed for use on the class of pipe being tapped. Mechanical joint sleeves shall be Clow F-5205, Mueller H-616 or approved equal. Castings shall conform to the requirements of Item 804.

Tapping valves shall conform in all respects to the requirements of Item 802 except inlet joints shall be designed for the sleeve provided, outlet ends shall be mechanical joint and seat rings shall be of sufficient size to permit passage of the tapping machine cutters.

803.03 Installation. After the sleeves and valves are installed at the designated locations, but before any cut is made or any concrete supports or backers installed, the sleeves and valves shall be tested under 150 pounds per square inch (1034 kPa) air or water pressure, for a minimum of fifteen (15) minutes, to check for leaks. When the valves and sleeves show no leaks, the Contractor shall make the cut through the wall of the pipe to be tapped under pressure. *Valves shall be adequately supported prior to cutting.* Excavation and backfill shall be as specified under Item 801.

803.04 Valve Boxes. All tapping valves shall be provided with the "Columbus Standard Heavy Duty Valve Boxes" as provided under Item 802 unless otherwise specified.

803.05 Concrete Supports. Concrete backers and supports of the sizes shown on the plans or designated by the Engineer, shall be provided. Concrete for thrust backer *and valve support* is to be included for payment under this item. The cost of excavating to line and grade shown for the supports shall be included in the unit prices bid under this item.

803.06 Surface Restoration. The required surface restoration shall be paid for under the appropriate bid item.

803.07 Basis of Payment. The payment for all work under this item shall be at the unit price bid therefor, which shall be full compensation for all work required to make a complete installation including the furnishing and installing of concrete supports *and blocking*, operating stem extensions, and valve boxes as specified.

Payment will be made at the contract price for:

Item	Unit	Description
803	Each	___ Inch (mm) x ___ Inch (mm) Tapping Sleeve and Valve and Appurtenances.