

San Antonio Water System Standard Specifications for Construction

**ITEM NO. 832
TAPPING SLEEVES AND VALVES**

832.1 DESCRIPTION: This item shall consist of tapping sleeves and valves installed in accordance with these specifications and as directed by the Engineer. The use of size on size taps shall not be permitted. Only cut-in tees shall be used within the system unless otherwise approved.

832.2 MATERIALS: The materials for tapping sleeves and valves shall conform to the specifications contained within the latest revision of SAWS' Material Specification, "Tapping Sleeves", Item No. 100-35 and "Resilient Seated Gate Valves and Tapping Valves", Item No. 21-02.

832.3 CONSTRUCTION: The installation work involved in tapping sleeves and valves shall consist of; excavation, backfilling the excavation with approved selected material, tapping sleeve, approved reaction blocking conforming to Standard Drawing DD-839, tapping valve, valve box assembly, concrete collar where subjected to street traffic, and cast iron lid. New taps will not be permitted closer than 2 feet of a joint or existing tap. The use of a shell type cutter shall be required when tapping sleeves and valves. Whenever working on potable or recycle water systems, the shell cutter shall be disinfected with bleach prior to start of work. The cutting edge shall be sharp and round. Any defective cutters shall be rejected by the Inspector.

All the tapping sleeves shall be air tested to 50 psi prior to tapping the main line.

The valve box shall be placed in such a manner to prevent shock or stress from being transmitted to the valve. Valve boxes shall be centered over the valve's operating nut with the box cover flush with the finished pavement surface or located at another level as directed by the Engineer. Valve boxes located in streets or other areas subject to vehicular traffic shall be provided with concrete collars as shown in the Standard Drawings. Collars around such valve boxes shall be formed and finished off neatly and in a workmanlike manner.

832.4 MEASUREMENT: Tapping sleeves, valves, and boxes will be measured by the unit of each such assembly of the various sizes of tapping sleeves, valves and boxes installed.

832.5 PAYMENT: Payment for tapping sleeves and valves, complete with boxes, will be made at the unit price bid for each such assembly of the various types and sizes of valves and valve boxes installed. Such payment shall also include; excavation, selected embedment material, anti-corrosion embedment when specified, hauling, and disposition of surplus excavated material, backfill, concrete collar at the valve box where subjected to vehicular traffic, ductile iron riser pipe, cast iron boot, packing, tar paper, concrete grout, concrete reaction blocking, protective coating

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material for bolts, nuts, and ferrous surfaces, and polyethylene sleeve where required.