

**For use in the Denver Water service area**

## **Material Specification – 9 for FABRICATED CARBON STEEL AND STAINLESS STEEL TAPPING SLEEVES**

### **For Use on 4 through 20-Inch Nominal Diameter Pipe**

**1. GENERAL**

Fabricated carbon steel and stainless steel tapping sleeves shall be designed and manufactured in accordance with AWWA C223 with the following additional requirements or exceptions.

**2. SERVICE**

The tapping sleeves shall be installed on the following types of pipe: CI, DI, AC, and PVC.

The working pressure for these water pipes is 150 psi. Components shall be suitable for exposure to chloraminated water.

**3. FLANGES**

Carbon steel flanges shall be fabricated from steel plate; dimensions shall be in accordance with AWWA C207, Class D. Stainless steel flanges shall be fabricated from steel plate; dimensions shall be in accordance with AWWA C228, Class SD. Flanges shall be machined to a flat surface with a serrated finish in accordance with AWWA C207 or AWWA C228 as applicable. The machined flange face shall also be recessed for tapping valves in accordance with MSS SP-60. Hollow-back flanges and segmented flanges are not acceptable.

**4. GASKETS**

Gaskets shall be compounded from new materials and the shape of the cross-section of the gasket shall provide an adequate seal for the working pressure. Gaskets shall be shop glued to the groove provided in the body section.

**5. TESTING OUTLET**

A 3/4-inch NPT threaded outlet shall be attached to the outlet nozzle of each tapping sleeve assembly complete with a 3/4-inch square head, threaded pipe plug.

**6. PAINTING**

Carbon steel surfaces shall be prepared in accordance with SSPC SP10 and coated with liquid epoxy or fusion-bonded epoxy to a minimum DFT of 12 mils in accordance with AWWA C550. The face of the flanges shall be shop coated with a rust preventive compound. Bolts and nuts shall be shipped bare, i.e., without paint or protective coating.

**7. CERTIFICATION**

The manufacturer shall furnish a sworn statement that the inspection and all specified tests have been completed and that results comply with the requirements of these Standards. A copy of the Certification, including compliance with NSF/ANSI 61, shall be provided to Denver Water.

**8. ACCEPTABLE MANUFACTURERS AND MODELS**

<b>Manufacturers</b>	<b>Models</b>
<b>Fabricated Steel</b>	
Ford Meter Box	FTSC
JCM	412
Romac	FTS 420
Smith-Blair	622
<b>Stainless Steel</b>	
Cascade	Style CST
Ford Meter Box	FTSS
JCM	JCM 432
Power Seal	3490
Romac	Style SST

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