

Materials Specification – 9 for FABRICATED STEEL TAPPING SLEEVES

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

1. GENERAL REQUIREMENTS:

The manufacturer of the tapping sleeves shall be experienced in their design and construction, regularly engaged in their manufacture and have produced tapping sleeves, of the sizes specified herein, that have performed successfully in service for at least 5 years.

2. SERVICE:

The tapping sleeves will be installed on the following types of pipe: Cast Iron, Ductile Iron, Asbestos-Cement and Polyvinyl Chloride (PVC).

The operating pressure for these types of water pipe is 150 psig.

3. MATERIAL:

Steel plate that is used in the fabrication of the tapping sleeves shall conform to ASTM A 36 or A 285, Grade C.

4. FLANGES:

Flanges shall be fabricated from steel plate and dimensions shall conform to AWWA C207, Class D. Flanges shall be machined to a flat surface with a serrated finish in accordance with AWWA C207. In addition, the machined face shall also be recessed for tapping valves, in accordance with MSS SP-60.

5. 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 design pressure. Gaskets shall be shop glued to the groove that is provided in the body section.

6. FASTENERS:

Bolts and hex nuts shall be stainless steel, Usalloy, Cor-Ten or Durabolt.

7. TESTING OUTLET:

A ¾-inch NPT threading coupling shall be attached to the outlet nozzle of each tapping sleeve assembly complete with a ¾-inch square head threaded pipe plug.

8. PAINTING:

The surfaces of the sleeve shall be clean, dry and free from grease and dirt before being painted. The surfaces of the tapping sleeve, except the face of flange, bolts and nuts, shall be given a shop coat of the manufacturer's standard coating. 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).

9. CERTIFICATION:

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

10. ACCEPTABLE MANUFACTURERS:

Fabricated Steel

Ford Model FTSS
International Style 228
Romac FTS 420
Smith-Blair Model 622
JCM Model 412

Stainless Steel

JCM - Model JCM 432
Power Seal - Model 3490
Cascade Style CST
Romac Style SST

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