

# JCM INDUSTRIES

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## Typical Specification

### JCM 465 Stainless Steel Tapping Sleeve with Carbon Steel Mechanical Joint Outlet\*

Tapping Sleeve shall be of the high strength type having a wide body, made of corrosion resistant, 304 stainless steel, which conforms to and reinforces the pipe. The sleeve shall have a wide gasket of Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000 with hydromechanical activated lip, captured in a recessed groove around the outlet; 18-8 Type 304 stainless steel hardware and nuts. Stainless steel tapping sleeve shall be furnished with a stainless steel test plug in the test outlet. Sleeve shall be fully passivated to return the stainless steel to its highest corrosion resistance.

Carbon steel mechanical joint outlet\* shall meet the ANSI 21.11/AWWA C-111 Standards for Mechanical Joint Dimensions. Outlets 3" - 12" shall be of one unit "monocast" design without separate or affixed components. Outlet shall be furnished with load bearing alignment set pins to prevent movement of the tapping assembly before or during the tapping process.

For outlet sizes 14" and larger, the gasket groove must be consistently positioned about throat of tapping waterway. Inside diameter of the gasket groove must be set back a minimum of 1" from the waterway to allow dispersal of forces generated by gasket compression. Gasket grooves machined in a circle and formed to an elliptical shape will not be an accepted equal.

Nominal pipe sizes 36" and larger shall be of the heavy duty type.  
Tapping Sleeves shall be JCM 465 or approved equal.

JCM 400 Series Tapping Sleeves are ANSI/NSF Standard 61 & ANSI/NSF Standard 61 Annex G Certified  
JCM 400 Series Tapping Sleeves meet MSS-SP124 and ANSI/AWWA Standard C223 Fabricated Steel and Stainless Steel Tapping Sleeves as applicable.

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JCM 465 Tapping Sleeve  
with Carbon Steel  
Mechanical Joint Outlet

*This typical specification, provided by JCM Industries, is a proposed guideline for use by specifying agencies to ensure significant design and material features of this product are included within the agencies' individual specifications.*



Effective 02.02.12

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## Material Specification

### JCM 465 All Stainless Steel Tapping Sleeve with Carbon Steel Mechanical Joint Outlet\*

**Body:** Stainless Steel 18-8 Type 304.

**Bolts:** Stainless Steel 18-8 Type 304.

**Outlet:** Carbon Steel meets ANSI 21.11/AWWA C-111 Standard Dimensions  
Outlet coated for corrosion resistance.  
Outlets 3" & 4" furnished with 1/4" test outlet  
Outlets 6" and larger furnished with 3/4" test outlet

**Branch**

**Outlet:** Schedule 10 Stainless Steel Pipe Type 304

**Gasket:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber with a pressure activated hydro mechanical design. Gasket is bonded into a cavity for internal and external retention. Gasket temperature range -40°F to 212°F (-40°C - 100°C) Gasket suitable for water, salt solutions, mild acids, bases, and sewage.

**Service**

**Rating:** 4" – 12"\* pipe sizes: 250 PSI working pressure, hydrostatic test pressure of 300 PSI  
\*12 x12 size and 14" – 24" pipe sizes: 200 PSI working pressure, hydrostatic test pressure of 250 PSI

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