

# JCM INDUSTRIES

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## Typical Specification

### JCM 429 Fabricated Tapping Sleeve for PVC and Steel Pipe with Mechanical Joint Outlet

Tapping sleeves for 4" through 12" PVC and steel pipe shall be the high strength type having a wide body, made of a minimum material strength of ASTM 285 Grade C Steel, which conforms to and reinforces the pipe. The sleeve shall be sized to fit the exact dimension of the pipe and have 5/8" bolts on 3" centers. The sleeve shall have a Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000 gasket with hydromechanical activated lip, captured in a recessed groove around the outlet. The sleeve shall be fusion epoxy coated to a minimum 12 mils thickness, per ANSI/AWWA C-213 and furnished with a type 304 stainless steel plug in the test outlet.

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. Tapping Sleeves shall be JCM 429 or approved equal.

JCM 400 Series Tapping Sleeves are ANSI/NSF Standard 61 Certified.

JCM 400 Series Tapping Sleeves meet MSS-SP124 and ANSI/AWWA Standard C223

Fabricated Steel and Stainless Steel Tapping Sleeves as applicable.

\*Licensed by PowerSeal Corporation U.S. Patent #6,227,234

*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 04.03.08

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## Material Specification

### JCM 429 Fabricated Tapping Sleeve for PVC and Steel Pipe with Mechanical Joint Outlet

**Body:** ASTM 285 Grade C, ASTM A-36 Steel or equal

**Bolts:** 5/8" Corrosion resistant, high strength low alloy oval neck track head bolt per ASTM A242/ANSI 21.11/AWWA C-111 and heavy hex nut per A563 epoxy coated, Powercron 590-534.  
Optional: Stainless Steel 18-8 304 or 316 available.

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

**Gasket:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber with a pressure activated hydromechanical 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.

**Finish:** Fusion applied epoxy coating, minimum 12 mils thickness per ANSI/AWWA C-213.

**Service Rating:** 3" to 12" Outlets: 175 PSI. Higher service rating available for specific applications and sizes.

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JCM 429 Fabricated Tapping Sleeve for PVC/Steel with MJ Outlet\*

Outlet Size	A	B	C	D	E
3	9*	4-7/8	3.32	6	5/8
4	9*	5	4.26	6	5/8
6	12	5-1/8	6.36	8	5/8
8	15	5-1/4	8.33	10	5/8
10	21	5-1/4	10.42	14	5/8
12	24	5-1/4	12.39	16	5/8

\*Nominal Pipe Sizes 10" & 12" – dimension A is 12"

Outlet Sizes 3" & 4" – 1/4" test outlet

Outlet Sizes 6" and larger – 3/4" test outlet

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