

JCM INDUSTRIES

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Typical Specification

JCM 412 Fabricated Tapping Sleeve – Epoxy Coat, Stainless Steel Hardware

Tapping Sleeves shall be the high strength type having a wide body, made of a minimum material strength of ASTM 285 Grade C, ASTM A-36 Steel or equal, which conforms to and reinforces the pipe. The sleeve shall have as a minimum 7/8" wide gasket of Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000 with hydromechanical activated lip, captured in a recessed groove around the outlet; 3/4" 18-8 Type 304 Stainless Steel hardware and nuts.

Flanged outlet shall be AWWA C207 Class D, ANSI 150 lb. drilling, recessed for tapping valve per MSS-SP60, outlets 2" – 12" rated for 175 PSI* maximum operating pressure. Epoxy coated sleeves shall be furnished with a 3/4" stainless steel test plug in the test outlet. Fusion applied epoxy coating shall be a minimum 12 mils thickness per ANSI/AWWA Standard C-213.

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 412 or approved equal.

*Higher test and working pressure ratings available upon request, contact JCM Industries.

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



JCM 412 Tapping Sleeve
Image reflects 6" x 4"

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.



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Material Specification

JCM 412 Fabricated Tapping Sleeve – Epoxy Coat, Stainless Steel Hardware

Body: ASTM 283 Grade C, ASTM 285 Grade C, ASTM A-36 Steel or equal.

Flange: AWWA C207 Class D, ANSI 150 lb. Drilling, recessed for tapping valve per MSS-SP60. Optional flanges available upon request.

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. Optional gasket materials available.

Bolts: Stainless steel, 18-8 Type 304. Optional stainless steel 316 hardware available.

Finish: Fusion applied epoxy coating per ANSI/AWWA C-213.

Service

Rating: 2" to 12" Outlets: 175 PSI. Higher service rating available for specific applications and sizes.

Flange Size*	A	B	C	D	E	F
3	12	5	4-1/32	3-1/2	6	3/4
4	12	5	5-1/32	4-1/2	6	3/4
6	12	5	7-1/32	*6-1/2	6	3/4
8	16	5-1/8	9-1/32	8-1/8	8	3/4
10	20	5-1/2	11-1/16	10-1/4	10	3/4
12	24	5-3/4	13-1/16	12-1/4	12	3/4

*On nominal pipe size 7.45 and smaller dimension D is 6-1/8"

