JCM Industries, Inc.

Pipe Fittings & Fabrications for Repair - Connection - Branching

Specification

JCM 159 Abandoned Corporation Cap Sleeve Type 1
All Stainless Steel with Full Circumferential Gasket

Repair sleeve shall be fabricated from 304 Stainless Steel or its equivalent. They shall have a pass through bolt design and provide 360o seal around the pipe. Sleeve shall be fully passivated to return the stainless steel to its highest corrosion resistance. To provide the proper strength, support and safety factor for the valve, drilling machine operation and load forces, the body construction shall be a minimum of:

Outlet Half (load bearing half):
Sleeve Sizes 0450 through 1392 12 gauge Stainless Steel
Sleeve Sizes 1420 and larger 10 gauge Stainless Steel

Back Half (conforming half): 14 gauge Stainless Steel

Length: 15"

For proper strength, support the neck outlet construction shall be a minimum of Schedule 10 Stainless Steel pipe. The cap shall have a 3/4” test port for relief.

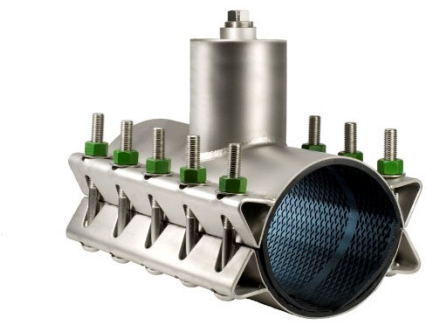
The lugs shall have a pass-through bolt design, to avoid alignment problems and allow tightening from either side of the pipe. Bolts shall not be integrally welded to the sleeve. Bolting lug shall be triangular design with a maximum of 3" bolt center spacing. Bolting hardware shall be a minimum of 304 Stainless Steel. The bolts shall be track head type and furnished with permanently lubricated heavy-hex nuts and stainless washers.

The full circumferential gasket shall be molded of synthetic rubber compounded for use with water salt solutions, mild acids, bases and sewage. The gasket shall have a gridded surface, be a full 1/4" thick with 304 stainless steel bridge plates molded flush into the gasket and have a raised hydromechanical outlet seal to seal against line surges and water hammer.

Sleeve pressure rating:

250 PSI working pressure, hydrostatic test pressure of 300 PSI. For higher pressures, contact JCM Industries.

Sleeves provided standard with 3/4” test port on cap.
JCM 100 Series Repair Sleeves are ANSI/NSF Standard 61, Standard 61 Annex G & ANSI/NSF 372 Certified.



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.

NSF Certified to NSF/ANSI 61 & 372

JCM Industries, Inc.
P. O. Box 1220
Nash, TX 75569-1220

Call 800-527-8482 or 903-832-2581
Fax 800-874-9524 or 903-838-6260

Visit: www.jcmindustries.com
Email: sales@jcmind.com
Effective 02/14/19

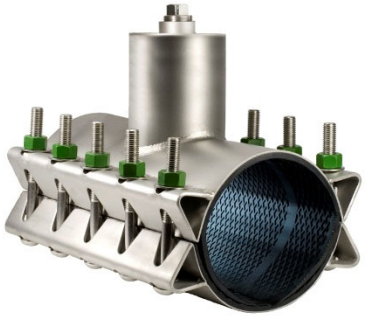
JCM Industries, Inc.

Pipe Fittings & Fabrications for Repair - Connection - Branching

Material Specifications

JCM 159 Abandoned Corporation Stop Cap Sleeve Type 1

Body:	Stainless Steel, 18-8 Type 304
Bolts:	Stainless Steel, 18-8 Type 304
Cap Extension:	Schedule 10 Stainless Steel Pipe
Test Port:	Stainless Steel, 18-8 Type 304
Gasket:	Full circumferential Virgin Styrene-Butadiene Rubber (SBR) - Compounded for use with water, salt solutions, mild acids and bases. Per ASTM D-2000 M4AA 607. Standard temperature range from -40° to 150°F (-40° to 65°C) constant, maximum intermittent 180° F (82°C).
Optional Gasket:	EPDM available upon request.
	For applications on high temperatures or chemical pipelines, contact JCM Industries Technical Services.



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Pipe Fittings & Fabrications for Repair - Connection - Branching

Specification

JCM 159 Abandoned Corporation Cap sleeve Type 2
Carbon Steel Sleeve with Outlet Seal Gasket

Sleeve 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 hydromechancial activated lip, captured in a recessed groove around the outlet; 3/4" 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.

Cap construction shall be carbon steel

The lugs shall have a pass-through bolt design, to avoid alignment problems and allow tightening from either side of the pipe. Bolts shall not be integrally welded to the sleeve. Bolting lug shall be triangular design. The bolts shall be track head type and furnished with heavy-hex nuts and washers.

Sleeve pressure rating 250 PSI.

JCM 100 Series Repair Sleeves are ANSI/NSF Standard 61, Annex G and ANSI/NSF Standard 372 Certified.

NSF Certified to NSF/ANSI 61 & 372

Material Specifications

JCM 159 Abandoned Corporation Cap Sleeve Type 2
Carbon Steel with Outlet Seal Gasket

Body:	ASTM 283 Grade C, ASTM 285 Grade C, ASTM A-36 Steel or equal.
Bolts:	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
Cap Extension:	Carbon steel
Test Port:	Stainless Steel, 18-8 Type 304
Finish:	Corrosion resistant shop coat primer.
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:	250 PSI. For higher pressures contact JCM Technical Services.

Options:

Fusion applied epoxy coating, per ANSI/AWWA C213
Electro Coated Hardware, per Powercron 590-534
Stainless Steel Hardware (304 or 316)

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NSF Certified to NSF/ANSI 61 & 372

JCM Industries, Inc.

Pipe Fittings & Fabrications for Repair - Connection - Branching

Specification

JCM 159 Abandoned Corporation Cap Sleeve Type 3
All Stainless Steel Sleeve with Outlet Seal Gasket

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 hydromechancial activated lip, captured in a recessed groove around the outlet; 18-8 Type 304 stainless steel hardware and nuts. Stainless steel 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.

Cap construction shall be stainless steel.

The lugs shall have a pass-through bolt design, to avoid alignment problems and allow tightening from either side of the pipe. Bolts shall not be integrally welded to the sleeve. Bolting lug shall be triangular design. Bolting hardware shall be a minimum of 304 Stainless Steel. The bolts shall be track head type and furnished with permanently lubricated heavy-hex nuts and stainless washers.

Sleeve pressure rating 250 PSI.

JCM 100 Series Repair Sleeves are ANSI/NSF Standard 61, Annex G and ANSI/NSF Standard 372 Certified.

NSF Certified to NSF/ANSI 61 & 372

JCM Industries, Inc.

Pipe Fittings & Fabrications for Repair - Connection - Branching

Material Specifications

JCM 159 Abandoned Corporation Cap Sleeve Type 3
All Stainless Steel with Outlet Seal Gasket

Body:	Stainless Steel, 18-8 Type 304
Bolts:	Stainless Steel, 18-8 Type 304
Cap Extension:	Schedule 10 Stainless Steel Pipe
Test Port:	Stainless Steel, 18-8 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 -40ºF to 212ºF (-40ºC - 100ºC) Gasket suitable for water, salt solutions, mild acids, bases, and sewage.
Service Rating:	250 PSI. For higher pressures contact JCM Technical Services.

JCM 100 Series Repair Sleeves are ANSI/NSF Standard 61, Annex G and ANSI/NSF Standard 372 Certified.

Certified to NSF/ANSI 61 & 372