



# JCM Industries, Inc.

**Fittings & Fabrications  
for Repair - Connection - Branching  
All Types and Sizes of Pipe**

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## JCM 118 FABRICATED CARBON STEEL REPAIR SLEEVE JCM 4118 ALL 304 STAINLESS STEEL FABRICATED REPAIR SLEEVE

The JCM 118 Repair Sleeve is designed to provide immediate repair for pipe with large damaged areas, irregular pressure surges, high working pressure service and other unique application parameters. Engineered specifically for the internal pressure forces involved with large holes, gouges and large diameter pipe and its working characteristics, the JCM 118 is available in pipe sizes up through 120" and larger with several design options for the specific application. The JCM 4118 is the same fitting, fabricated of all 304 stainless steel (also available as 6118 in all 316 stainless steel).

**Features built into the design of the JCM 118 include:**

**Reinforcement of the Pipe Wall** - strong, yet lightweight steel (pressure vessel quality) directly reinforces the pipe wall on the circumference of the pipe.

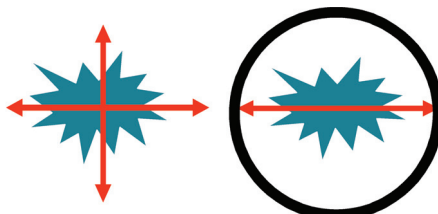
**Heavy Duty Design** - large fitting components, spacious bolt holes and heavy hardware combine to make installations in less than ideal environments easy and fast. The JCM 118 especially lends itself for easier underwater and low visibility installation applications.

**Maximum Gasket Sealing** - heavy duty materials provides high levels of bolt torque transferred directly to gasket sealing compression. Higher bolt torques maintain greater working pressures.

**Minimal Pipe Excavation** - the JCM 118 sleeve requires limited pipe exposure around the damaged area. Full section joint exposure of underground pipelines is eliminated.

**Low Profile Stance** - the hydro-mechanical lip gasket is trapped both internally and externally in a recessed groove that provides a low profile stance on the pipe eliminating the chance of gasket displacement or "blow-out" in high pressure applications.

**Availability** - The JCM 118 Repair Sleeve is available from JCM on both an emergency and a contingency basis. Timely delivery and installation prevents extensive pipe damage, content loss and environmental violations.



Simple and fast repair.  
The damaged area falls within the "Inside Diameter (I.D.) of the gasket" trapping (encompassing) the hole within the gasket area. Repair Sleeve gasket loads faster and provides greater gasket compression on the pipe.

Typical Application:  
Repair  
Temporary/Permanent  
Especially Recommended for  
Large Diameter Pipe  
High Working Pressures



Splits  
Holes  
Punctures  
Corroded Areas  
Gouges

For application parameters,

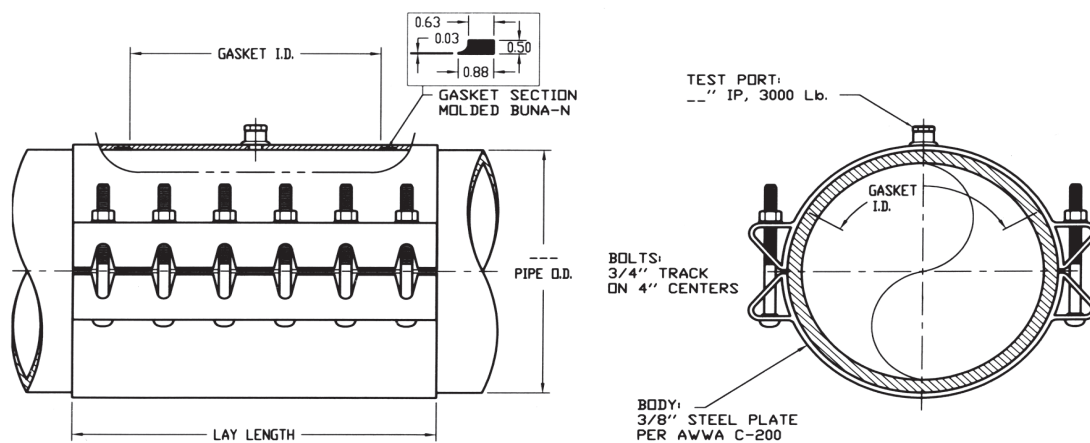
## JCM 118 Fabricated Repair Sleeve Material Specifications

**Body:** ASTM A36, ASTM A516 Grade 70 or equal. Optional 304 or 316 Stainless Steel.

**Bolts:** Corrosion resistant, high strength low alloy ASTM A242, A193 B5, B7. Optional A193 B8 304 stainless steel or 316 stainless steel.

**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.

**Finish:** Heavy coat of corrosion resistant shop coat primer which is an excellent base for bitumastic coal tar or similar field coatings. Optional Fusion Epoxy Coating available.



Available Options:  
 Carbon Steel Construction  
 Stainless Steel Construction  
 With/without Threaded Outlet  
 Epoxy Coated  
 Alloy Hardware  
 Stainless Steel Hardware  
 Custom Repair Sizes

