

# JCM 114 Fabricated Mechanical Joint Repair Sleeve

Repair cast iron bells, split or leaking coupling and weld joints, or straight runs of pipe without costly shutdown or disruption to critical service.

**No Shutdown or Interruption of Critical Service** - by implementing a split fabricated mechanical joint design, the JCM 114 prevents costly down time and service disruption.

**True Mechanical Joint Design** - industrial grade, fabricated steel body and heavyweight pusher glands prevent the warpage and distortion experienced by lightweight repair sleeves using the split steel coupling designs. JCM 114 meets design criteria in AWWA C110/111, ANSI 21.10/21.11 for tolerances, dimensions and configuration of the time proven mechanical joint seal.



**Custom Built For Specific Application** - this versatile mechanical joint fitting is built to meet the specific requirements of special applications. Eliminates lost time due to field or factory modifications. JCM 114 sleeves are available for both limited space and full pipe section encapsulation.

**Typical Application:**  
Repair  
Temporary/Permanent  
Repair Pipe In Service

Cracked/Broken Pipe Joints  
Splits  
Holes  
Failed MJ Joints, Fittings or  
Couplings

**Strong and Lightweight** - the 114 sleeves are ideal for installations where strength, weight and continued service are critical. The reduced weight of high strength steel aids in installation and handling as well as minimizing weight load on the pipe.

**Available in Two Styles** - the 114 MJ Split Repair Sleeve for use on straight runs of pipe and the 114 MJ Bell Repair Sleeve which is fabricated to accommodate the specific dimensions of the bell, collar or coupling to be repaired.

**Optional Materials** - the fabrication process of the 114 construction allows for various material options for the finished product. The 114 is available in carbon steel with special coatings and fasteners, or is available fabricated of all stainless steel (304, 316).

## HOW TO ORDER

For pricing and engineering, the following information must be furnished:  
JCM 114 is available fabricated of 304 stainless steel or 316 stainless steel

### JCM 114 Mechanical Joint Split Repair Sleeve

The following information must be furnished.

Type of Pipe  
Pipe Outside Diameter  
Length Requirements  
Line Content  
Line Pressure  
Finish or Coating Requirements

### JCM 114 Mechanical Joint Bell Repair Sleeve

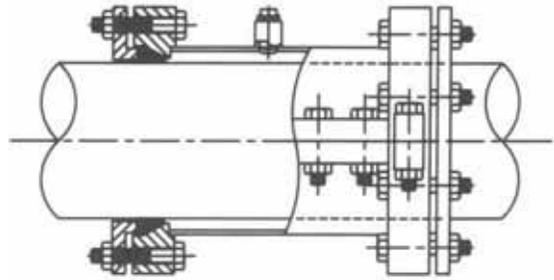
The following information must be furnished.

Type of Pipe  
Spigot or Pipe Outside Diameter  
Largest Bell or Coupling Dimension  
Length Requirements  
Line Content  
Line Pressure  
Finish or Coating Requirements



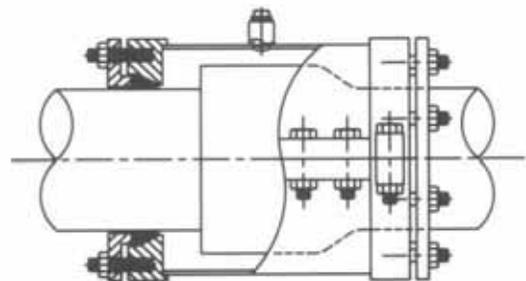
## JCM 114 Mechanical Joint Split Repair Sleeve

The **JCM 114 MJ Split Repair Sleeve** represents an unusually simple method of coupling or repairing straight runs of cracked or split cast iron pipe and severe longitudinal and circumferential breaks on critical service lines which can not be shut down. This product is made to order for all types and sizes of pipe.



## JCM 114 Mechanical Joint Bell Repair Sleeve

The **JCM 114 MJ Bell Repair Sleeve** is designed to permanently repair cracked cast iron bells, split or leaking couplings and leaking joints. By utilizing a split mechanical joint design, repairs to joints can be completed without down time or disruption to service. The JCM 114 is built to the application dimensions, ensuring a custom fit over the damaged area. These sleeves are ideal for installation where strength, weight and continued service are critical.



### JCM 114 Fabricated Mechanical Joint Repair Sleeve - Typical Specifications

#### JCM 114 Mechanical Joint Split Repair Sleeve

Repair Sleeves shall be of split mechanical joint design with separate end and side gaskets. The fittings shall be constructed of high strength steel, ASTM A285 Grade C or ASTM A-36. The mechanical joint end dimensions shall conform to AWWA standard C-110/C-111 with modification to allow for the specific pipe repair. Sleeves shall have a 3/4" outlet for venting and test purposes. Repair Sleeves shall be JCM 114 Mechanical Joint Split Repair Sleeve or approved equal. Repair Sleeves shall be ANSI/NSF Standard 61 Certified.

#### JCM 114 Mechanical Joint Bell Repair Sleeve

Repair Sleeve shall be split mechanical joint, with separate end and side gaskets, designed to accommodate the pipe joint area. The fittings shall be constructed of high strength steel, ASTM A285 Grade C or ASTM A-36. The mechanical joint end dimensions shall conform to AWWA standard C-110/C-111 with modification to allow for the specific pipe repair. Sleeves shall have a 3/4" outlet for venting and test purposes. Repair Sleeves shall be JCM 114 Mechanical Joint Bell Repair Sleeve or approved equal. Repair Sleeves shall be ANSI/NSF Standard 61, Annex G and ANSI/AWWA 372 Certified.

### JCM 114 Mechanical Joint Repair Sleeve - Material Specifications

- BODY:** ASTM A285 Grade C, ASTM A-36 Steel or equal. Optional 304 or 316 Stainless Steel.
- GLANDS:** ASTM A-36 Steel, Ductile Iron or equal. Optional 304 or 316 Stainless Steel.
- BOLTS:** Corrosion resistant, high strength low alloy A242. Optional Stainless Steel, 18-8 Type 304 or 316; Epoxy Coated Bolts.
- STUDS:** B7 Material
- GASKET:** Nitrile rubber compounded for use with water, salt solutions, mild acids and bases.
- FINISH:** Heavy coat of corrosion resistant shop coat primer. Optional Fusion Epoxy Coating (per ANSI/AWWA C-213) available.