



**JCM 143 BELL JOINT LEAK CLAMP**  
Ductile Iron, Cast Iron and C-900 PVC Bell/Spigot Joints  
**Sizes 4" - 12"**  
**INSTALLATION INSTRUCTIONS**

1. Clean pipe surface of all dirt, rust, mud or loose scale from pipe ends. Inspect the pipe surface where gaskets will contact the pipe for any gouges, grooves, irregularities or imperfections that will interfere with the gasket seal. *Repairs to caulk joint should be complete and provide a smooth, flat surface for the gasket seat.* Measure the cleaned pipe diameter to confirm proper size of bell joint leak clamp for application. Inspection of the pipe's integrity for product application is the responsibility of the end user. **\*TIP\*** *Difficult to reach or cramped areas on the backside or underside of the pipe can be visually checked by using a mirror.*
2. Lubricate the gasket with soapy-water solution. Do not use oil based pipe lubricant. Install the gasket (key locked cut for installation) on the spigot side of the joint with the flat side facing toward the pipe bell. For large or oversized cast iron pipe an additional "key cut" gasket extender has been included to lengthen the gasket if needed. Slide the gasket toward the joint so that flat side of the gasket meets up with the face of the bell (the tapered side will fit into the ductile iron pusher ring). Interlock the key locked cut.
3. Interlock the ductile iron clamp ring segments on the spigot side of the joint. *Ensure that the ductile iron clamp ring joint is rotated 90° (1/4 turn) from the gasket joint.*

On the bell side of the joint install the second set of clamp ring segments in the same manner. Interlock the segments. To ensure proper gasket compression, rotate the ductile iron clamp ring one bolt hole turn from the spigot ductile iron ring (*i.e. do not align clamp ring joints or gasket joints*). Starting from the bell side to the spigot side, install a track head bolt through the bolts holes to hold the segments together. Complete installation by inserting the track head bolts through the segments and over the joint into the corresponding bolt holes of the opposite clamp rings. Loosely assemble nuts on the ends of the bolts. (Note: 8", 10" and 12" fittings have an additional set of long bolts to accommodate extended bells.)

4. Hand tighten the nuts and ensure the ductile iron spigot ring is centered on the pipe and is making full contact with the face of the gasket. Tighten the nuts evenly until the spigot gasket compresses against the joint and the leak stops. Tighten nuts to approximately 60 - 70 ft. lbs. of torque.

To ensure integrity of installation, wait 15 minutes, inspect for leaking, and confirm bolt torque. If necessary, retighten bolts evenly as required to stop the leak.



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Interlock the ductile iron clamp ring segments on the spigot side of the joint. **Ensure that the ductile iron clamp ring joint is rotated 90° (1/4 turn) from the gasket joint.**

On the bell side of the joint install the second set of clamp ring segments in the same manner. Interlock the segments. To ensure proper gasket compression, rotate the bell side ductile iron clamp ring one bolt hole turn from the spigot ductile iron ring (*i.e. do not align clamp ring joints or gasket joints*). Starting from the bell side to the spigot side, install a track head bolt through the bolts holes to hold the segments together. Complete installation by inserting the track head bolts through the segments and over the joint into the corresponding bolt holes of the opposite clamp rings. Loosely assemble nuts on the ends of the bolts.

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