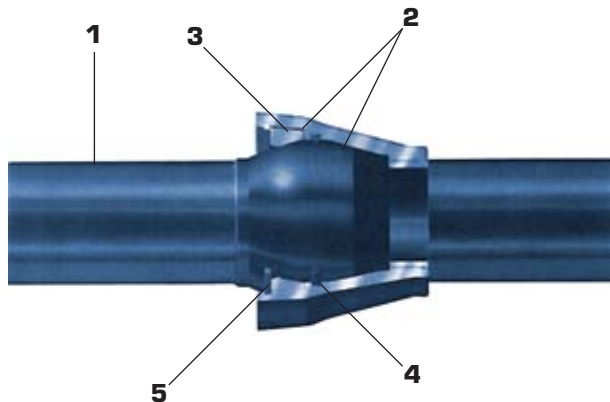


Pipe A-5

Ductile Iron Pipe

SNAP-LOK™ River Crossing Pipe



Assembly Instructions:

1. Thoroughly clean the bell socket including the gasket groove, ball contact area, snap-ring and locking ring grooves. This is important since river crossing joint leaks are expensive to repair. Wash or blow any debris out of the socket to ensure a leak-free joint.
2. Coat the gasket cavity and ball contact area with Griffin pipe joint lubricant.
3. The river crossing joint utilizes an O-ring type gasket. Insert the gasket into the lubricated groove. Make sure the gasket is completely seated. Apply a generous coating of lubricant to the exposed gasket surface.
4. Discard any packing material holding the ring to the ball. Thoroughly clean all dirt and debris from the ball and visually inspect the ball for any damage. Apply lubricant to the entire outer surface of the ball. Do not let any dirt or debris stick to the lubricant in the socket or the ball.
5. Insert the ball into the socket using reasonably straight alignment. Push the pipe straight home with the aid of a push-bar or backhoe. Take precautions not to damage the ball during assembly.
6. Slide the restraining ring into the socket exposing the full depth of the lock ring groove.
7. Insert the stainless steel locking ring into its groove. The ring may be forced into the socket if necessary. Cut the small wire-tie allowing the locking ring to expand into the groove. Verify that the lock ring is fully seated - a screwdriver can be hammered against one end of the ring until movement is noticed. SNAP-LOK™ River Crossing Pipe

MECH-LOK™ Rigid Restrained Joint

Certain pipeline construction projects require rigid restrained joint pipe for use on bridges or other elevated structures. The MECH-LOK joint combines the proven mechanical joint with a rigid restraining system. This product can be used on long span piers at 40 ft. spacings.



4" - 24" MECH-LOK™

Assembly Instructions:

1. Assemble the mechanical joint as per the standard recommended procedure. Use reasonably straight alignment of the two pipe sections during assembly. Keep the MJ gland square with the MJ flange. Hand-tighten the nuts on the MJ gland.
2. Slide the MECH-LOK restraining ring over the bolts and hand tighten the nuts.
3. For non-rigid pipelines, tighten the nuts on the MJ gland using an open-end adjustable wrench. Uniformly tighten the nuts to the 120-150 ft.-lb torque range.
4. For applications that require subsequent joint deflection, the restraining nuts should be finger tightened.
5. For applications that require rigid joints, such as long span or bridge crossings, the restraining nuts should be tightened to the 120-150 ft.-lb torque range, prior to final tightening of the MJ nuts. This will ensure that the spigot is tight against the socket. After tightening the MJ bolts, retighten and torque the restraining nuts.