

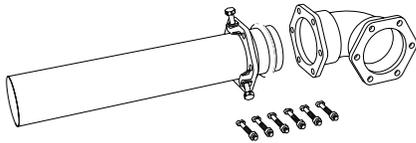
Water, Sewer & Drain Fittings B-19

800-EJP-24 HR

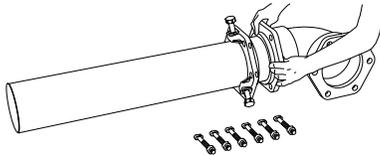
Mechanical Joint Restraints

B

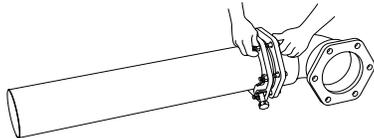
Installation Instructions:



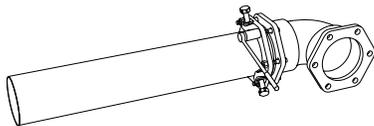
1. Clean the socket and plain end. Lubricate gasket and plain end with soapy water (or approved lubricant) just prior to slipping the gasket onto the plain end for assembly. Place the gland on the plain end with the lip extension toward the plain end, followed by the gasket with the narrow edge of the gasket toward the plain end.



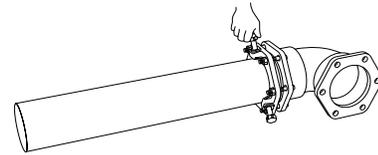
2. Insert the pipe into the socket and press the gasket firmly and evenly into the gasket recess. Keep the joint straight during assembly.



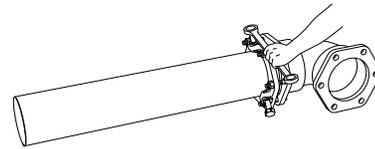
3. Push the gland toward the socket and center it around the pipe with gland lip against the gasket. Insert T-bolts and hand tighten nuts. Make deflection after joint assembly but before tightening bolts.



4. Tighten the T-bolts to the torque recommended in AWWA C111 (75-90 ft. lbs in 4" - 24" sizes, 100-120 ft. lbs in 30" - 36" sizes, 120-150 ft. lbs. in 42" - 48" sizes). Tighten in an alternating manner, maintaining the same gap between the gland and the face of the MJ bell at all points around the socket. Repeat the process until all bolts are within the approximate torque range. Use of a torque wrench is recommended.



5. After correct assembly of the mechanical joint, bring all wedges in contact with the pipe surface by turning the Auto-Tork[®] actuating screws in a clockwise direction until contact is made and the screw is "hand tight."



6. Tighten each Auto-Tork[®] actuating screw by turning approximately 180° in a clockwise direction, alternating between screws until the break-away heads twist off. Never turn a single head over 180° without alternating to another screw.

Sample Specification:

Restraint for standardized mechanical joints shall be incorporated in the design of the follower gland and shall impart multiple wedging action against the pipe, increasing its resistance as the pressure increases. The assembled joint shall maintain its flexibility after burial and shall maintain its integrity by a controlled and limited expansion of each joint during the wedging action. Restraining glands shall be manufactured of high strength ductile iron conforming to the requirements of ASTM A536, Grade 65-45-12. Wedging mechanisms shall be manufactured of ductile iron, heat treated to a hardness of 370 BHN minimum. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee head bolts conforming to the requirements of ANSI/AWWA A21.11/C111 and ANSI/AWWA A21.53/C153 of latest revision. Twist-off nuts shall be incorporated in the design of the wedge activation screws to insure proper torque. The mechanical joint restraining device shall have a water working pressure rating of 350 psi minimum (in sizes 4" thru 16") with a safety factor of at least 2:1 against separation when tested in a dead-end situation.