

PRECAUTIONS:

- 1) Check diameter of pipe to make sure it is the correct (DIOD) size.
- 2) Confirm the pipe is round and not outside its specifications.
- 3) When cleaning pipe plain end, use scale removal tools where appropriate to assure all scale and debris has been properly removed.
- 4) Make sure no foreign materials lodge between the gasket and pipe or between the Gripper Ring Fingers and the pipe.
- 5) Hand tighten all nuts to snug then incrementally tighten using a Star Pattern until contact has been made with each Mechanical Stop. Only tighten nuts (2-3) turns at a time maintaining approximately the same distance between the Follower Gland and the flange face at all points around the socket. Do not torque nuts beyond the limits of the bolts.
- 6) Do not strike or pry restraint with hammers, shovels or other equipment.
- 7) Contact Tyler Union Engineering for reuse after line has been pressurized.
- 8) Polyethylene or suitable wrap must be used if encasing restraint in concrete, or for use with corrosive soils.
- 9) Contact Tyler Union Engineering for directional drilling applications or for use on above ground applications without earth support.
- 10) TruGrip restraints are designed and tested to only provide axial load restraint as specified.

COMMON INSTALLATION ERRORS:

- 1) Bolts not tightened in a STAR PATTERN or tightened too much at a time. The bolts should be tightened partially or incrementally, only (2-3) turns at a time, in a STAR PATTERN such that the Follower Gland remains approximately parallel with the face of the bell flange during the assembly process.
- 2) Nuts not snugly hand tightened before using a driver.
- 3) Contact not fully made with all the mechanical stops.
- 4) Gasket was not fully seated or pressed into the socket prior to inserting T-bolts. This is required for proper sealing and to expose sufficient threads to hand start the nuts. The joint should be kept straight, not deflected, while seating the gasket.
- 5) Over deflection of the joint beyond the specified maximums.
- 6) Gasket not warmed before use in cold weather (below 40F or 5C)
- 7) Gasket lubricant not used or not properly used.

See other side for additional information



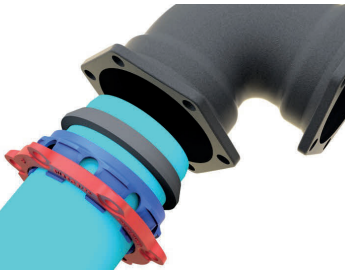
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TruGrip™ Installation Instructions

Rev: 3.25.26

- For use with Mechanical Joint Sockets conforming to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53.
- BLACK gland 1000 series for ductile iron pipe conforming to ANSI/AWWA C151/A21.51.
- RED gland 2000 series for PVC pipe conforming to AWWA C900 and C909.
- Not for use with IPS O.D. PVC pipe, Transition Gaskets or Plain End fittings
- Working pressures equal to the pipe rating up to 350psi with proper installation.

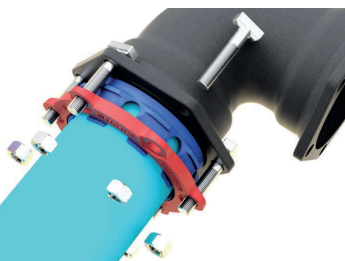


1) Clean the socket & pipe plain end. Lubricate gasket O.D. and/or socket and gasket I.D. and/or pipe plain end with soapy water or approved pipe lubricant meeting ANSI/AWWA C111/A21.11. Place the TruGrip restraint onto the pipe with the lip extension toward the pipe plain end followed by the gasket with the narrow edge of the gasket toward the pipe plain end.



2) Insert the gasket along with the pipe into the fitting socket and fully seat or press in the gasket firmly and evenly into the gasket socket, keeping the joint straight and aligned with no deflection.

Use 3/4" x 4.0" T-bolts for (4"- 12") pipe diameters. Make sure the threads are clean and free of debris. Nuts should freely hand turn on at least the first 1" of threads. Use 3/4" x 4.5" T-bolts for (14"- 18") and 3/4" x 5.0" for (20"- 24").



3) Push the TruGrip restraint toward the MJ bell and center it around the pipe with the lip extension evenly and firmly against the seated gasket. Insert the T-head bolts with the T-head on the fitting side. **For proper assembly, snugly hand tighten all nuts before using a driver.** Make any joint deflection after hand tightening the nuts and before applying further torque. Maximum Post Assembly Deflection is 3 degrees for (4"-12") pipe diameters, 2 degrees for (14"-16") and 1.5 degrees for (18"-24").



4) While tightening the bolts, it is essential that the follower gland be brought up toward the bell flange evenly, maintaining approximately the same distance between the follower gland and the face of the bell flange at all points around the flange. This can be accomplished by **partially tightening each bolt only (2-3) turns at a time in a (STAR PATTERN)** until the follower gland evenly contacts each of the mechanical stops on the gripper ring. **Inspect or feel to make sure the follower gland is in contact with each of the mechanical stops to ensure complete assembly of the joint.** Do not torque beyond the limits of the bolts.

Note: In cold weather (below 40F) warm the gasket prior to using to facilitate assembly and sealing of the joint.



See other side for additional information