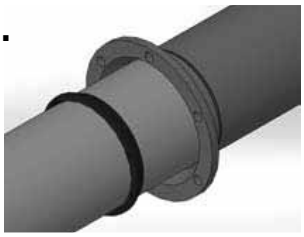
Series UFR1405 3"-8" - Installation Instructions

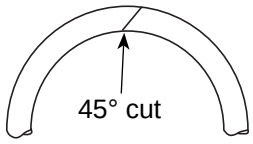
Split 1400 Joint Restraint Gland with Gasket for Ductile Iron Pipe for New or Existing Pipe Installations

1.



1. Clean the existing socket and pipe. Replace the existing gasket if necessary with a field-cut split gasket containing a single cut at a 45° angle as illustrated in Figure 1B. Apply an instant cyanoacrylate adhesive (Super Glue) to the gasket split after placing the gasket on the pipe with the tapered end toward the socket. Lubricate the gasket and pipe with an approved pipe lubricant meeting AWWA C111. Press the lubricated gasket firmly and evenly into the socket recess.

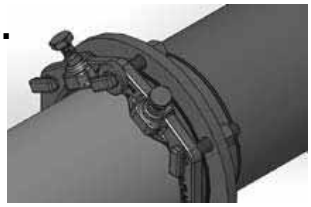
1B.



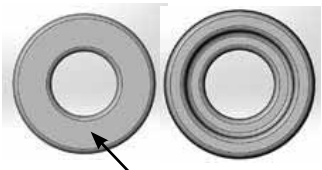
2.

2. With the piping in place, set the UFR1405 split gland sections on the pipe with the lip extension oriented toward the socket. Orient the split in the gland 90° from the split in the gasket as illustrated in figure 4B. Loosely assemble the halves of the gland by installing the tee-head bolts hand tight in all solid holes, not the holes created by connecting the gland halves.

3.



3. Assemble the halves so the flat side of the clamp is to the outside of the gland half. Insert tee-head bolts through the clamps and hand tighten.

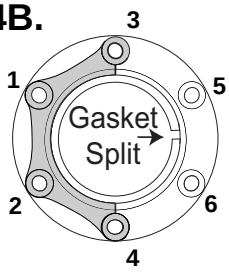


Clamp Flat Side Faces Away from Split Gland

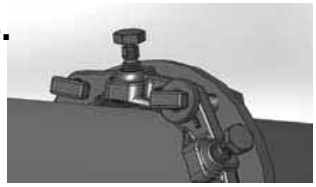
4.

4. If using a split gasket, begin tightening the tee-head bolts to approximately 20-30 ft-lbs on the side 180° from the gasket split as shown in figure 4B. Then tighten the remaining bolts to approximately 20-30 ft-lbs by working towards the split in the gasket. Complete tightening the tee-head bolts to the torque recommended in AWWA C111 (45-60 ft-lbs on 3", 75-90 ft-lbs on 4"-8" sizes) Tighten in an alternating manner, (6 o'clock, 12 o'clock, 3 o'clock, 9 o'clock) 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 recommended torque range. Use of a torque wrench is recommended, and required to ensure proper torque.

4B.

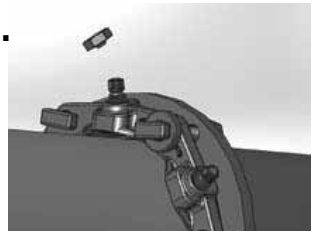


5.



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 the screws are hand tight.

6.



6. Tighten each Auto-Tork actuating screw by turning approximately 180° (1/2 turn), alternating among screws until the break away heads twist off. Use a torque wrench to ensure a torque of 75-110 ft-lbs has been applied to actuating screws. **Note:** To re-use or re-install after the Auto-Tork break-off heads have been removed; tighten the 5/8" hex head of the actuating screw to 75 ft-lbs. Also, while it is not a requirement, it is always a good practice to recheck the tee-head bolt torque prior to backfilling.

The Ford Meter Box Co., Inc.
775 Manchester Avenue, P.O. Box 443, Wabash, Indiana, USA 46992-0443
Telephone: 260-563-3171 FAX: 800-826-3487 Overseas FAX: 260-563-0167
http://www.fordmeterbox.com