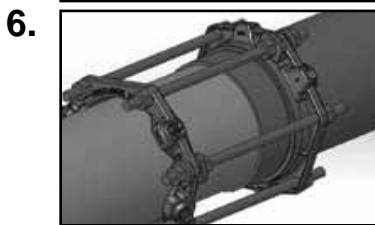
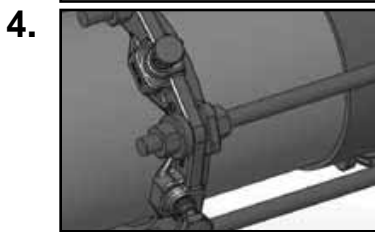
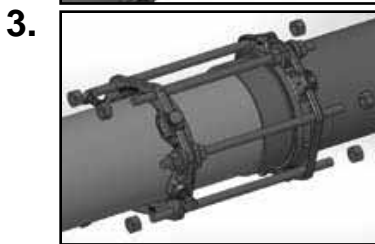
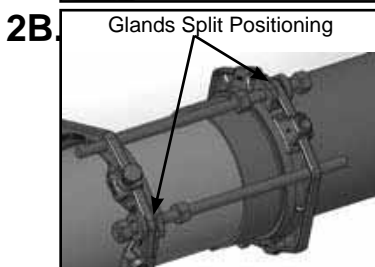
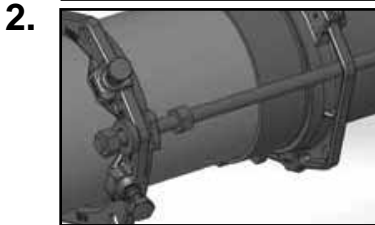
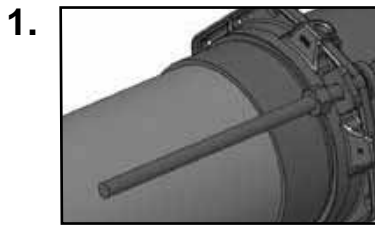


# Series UFR1490 3"-8" - Installation Instructions

## Split 1400 and Split Back-up Ring Joint Restraint for Ductile Iron Pipe Push-On Joints for New or Existing Pipe Installations



1. Back-Up Ring Assembly (Split 1400 without wedges): Loosely assemble the halves of the gland without wedges on the pipe with the lip extension facing toward the back of the pipe bell by installing a connecting rod through the Front Clamp and the Back Connector Plate, placing a nut finger tight on both sides. These nuts will be tightened in Step 6. Assemble the halves with the flat side of the Clamp to the outside of the gland half and the flat side of the Back Connector Plate to the outside of the gland as shown in Figure 1. Position the Back-Up Ring Assembly against the pipe bell.

2. Restraint Ring Assembly (Split 1400 with wedges and actuating screws): **Note: Align the split back-up ring and the split 1400 so the splits are NOT in line with each other. See 2B.** Loosely assemble the halves of the gland with wedges on the spigot end of the pipe with the lip extension toward the face of the pipe bell by installing a connecting rod through the Front Clamp and the Back Connector Plate, placing a nut finger tight on both sides. These nuts will be tightened in Step 6. Assemble the halves so the flat side of the clamp is to the outside of the gland half and the flat side of the Back Connector Plate is to the outside of the gland.

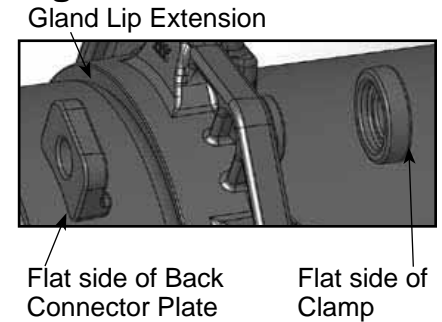
3. Using the installed connecting rods for measurement, position the split 1400 restraint ring assembly (with wedges) on the pipe spigot so that several threads of the rod will extend through the bolt holes of the split 1400 restraint ring assembly when it is connected to the back-up ring (split 1400 without wedges) and install the rods and nut in each of the bolt holes.

4. 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.

5. Tighten each Auto-Tork actuating screw by turning approximately 180° (1/2 turn), alternating among screws until the break away heads twist off. 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. The use of a torque wrench is recommended and required to ensure proper torque.

6. Tighten the outside nuts on the connecting rods on the opposite end from the split gland halves until the back-up ring is seated firmly against the back of the pipe bell. **Do not over-tighten.** Tighten all inside nuts on the connecting rods.

**Figure 1**



Refer to the FMB website (<http://www.fordmeterbox.com>) for additional and most recent instructions and product information.



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