

SERIES 1104DSC

4 inch MEGALUG® Restraint with M.J. Accessories
For Ductile Iron Pipe
For Regular or Compact Fittings
Spec-ANSI/AWWA C110/A21.10 or Spec-ANSI/AWWA C153/A21.53

INSTALLATION INSTRUCTIONS

Megalug Series 1100 is designed for use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51 (all thickness classes) when restraining mechanical joint pipe or fittings.

1. *Clean the socket and the plain end. Lubrication and additional cleaning should be provided by brushing both the gasket and the plain end with soapy water or an approved pipe lubricant meeting the requirements of ANSI/AWWA C111/A21.11, just prior to slipping the gasket onto the plain end for joint assembly. Place the gland on the plain end with the lip extension toward the plain end, followed by the gasket.
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 the gland lip against the gasket. Insert bolts and hand tighten nuts. Make deflection after joint assembly but before tightening bolts.
4. *Tighten the bolts to the normal range of bolt torque [45-60 ft-lbs for 2" through 3", 75-90 ft-lbs for 4" through 24", 100-120 ft-lbs for 30" and 36", and 120-150 ft-lbs for 42" and 48"] while at all time maintaining approximately the same distance between the gland and the face of the flange at all points around the socket. This can be accomplished by partially tightening the bottom bolt first, then the top bolt, next the bolts at either side, finally the remaining bolts. Repeat the process until all bolts are within the appropriate range of torque. The use of a torque indicating wrench will facilitate this procedure.
5. Tighten the torque limiting twist off nuts in a clockwise direction (direction indicated by arrow on top of nut) until all wedged are in firm contact with the pipe surface. Continue tightening in an alternate manner until all of the nuts have been twisted off.
6. If removal is necessary; use the 5/8" hex heads provided. If reassembly is required, assemble the joint in the same manner as above, tighten the wedge bolts to 90 ft-lbs. If the 1100 is removed from the pipe, be sure that all of the collar bolts and wedges are in place before the restraint is reassembled.

***THESE INSTRUCTIONS ARE REQUIREMENTS OF AWWA C600**

APPROXIMATE SHIPPING WEIGHT: 12 LBS.

0806-B



CONTENTS

- 1 - 4 inch Series 1104 MEGALUG Restraint
- 1 - 4 inch Standard M.J. Gasket
- 4 - 3/4 x 3 1/2 inch CORTEN T-Bolts & Nuts
- 1 - Gasket Lubrication Package

Restraints Made in the USA

For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600 or ASTM D2774

