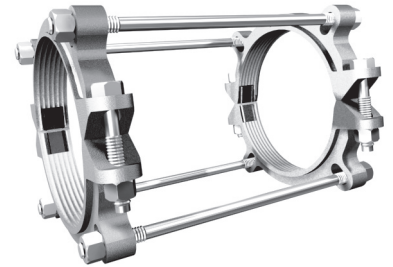


Tru-Dual® Series 1510TD

Bell Restraint Harness for Ductile Iron & C900 PVC Pipe
Split Serrated Restraint Ring on Both Sides of the Bell

Installation Instructions

1. The Series 1500TD is designed for restraining Ductile Iron pipe or C900 PVC pipe at push-on joints. It has a serrated split restraint ring with heat treated inserts on the spigot and behind the bell.
2. Assemble the push-on joint per the pipe manufacturer's instructions.
3. Install both halves of one of the serrated rings around the pipe behind the bell, tapping each half into place. Make sure that the complete ID of the ring is touching the pipe before installing the side bolts. Install the side bolts and tighten evenly to 60 ft-lbs torque (110 ft-lbs on 8 inch, 10 inch and 12 inch).
4. Remove the side bolts from the second serrated restraint ring. Use the tie bolts to determine the proper location of the restraint ring on the spigot. Allow enough room on the tie bolt to fully engage the nuts.
5. Install both halves of the restraint ring at the proper location, tapping each half into place. Make sure that the complete ID of the ring is touching the pipe before installing the side bolts. Tighten the side bolts evenly to 60 ft-lbs torque (110 ft-lbs on 8 inch, 10 inch and 12 inch).
6. Place nuts on the tie bolts and tighten until they are snug. Allow enough room on the tie bolt to fully engage the nut with several threads showing. Do not tighten these bolts enough to force the spigot further into the bell of the joint.



CONTENTS

Qty.	Description
2	10 in. 1500TD Restraint Rings
4	Low Alloy Steel Tie Rods w/ Nuts

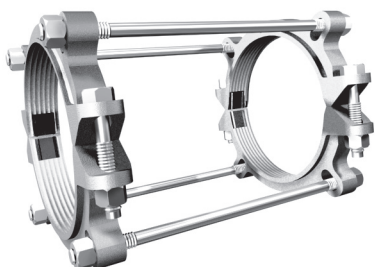
Restraints Made in The USA

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

APPROXIMATE SHIPPING WEIGHT: 53 lbs.

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