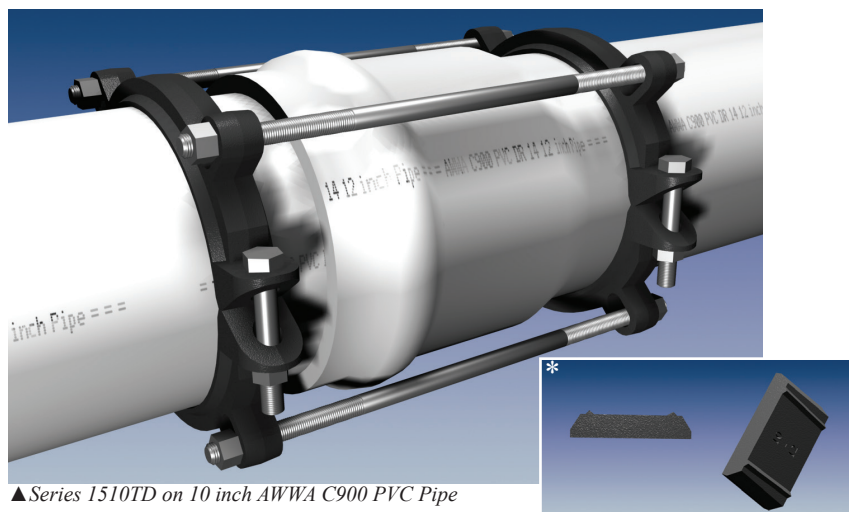
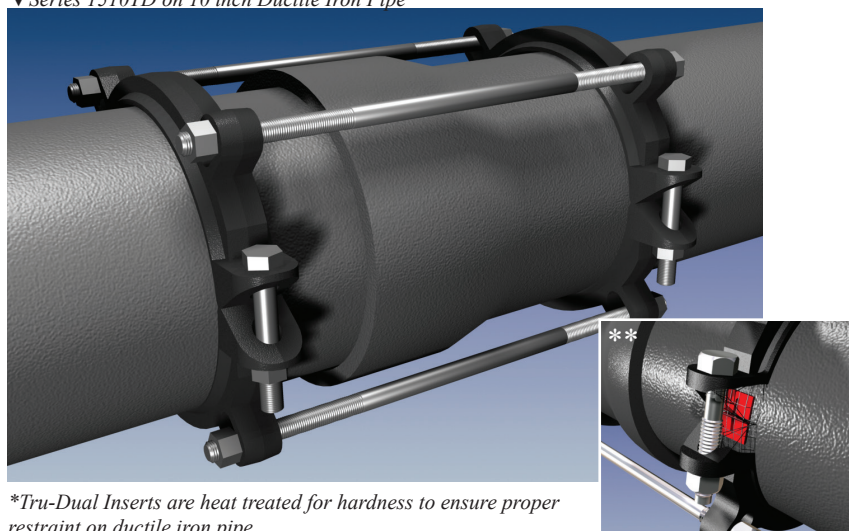


Bell Restraint Harness for Ductile Iron & C900 PVC Pipe
Split Serrated Restraint Rings on Both Sides of the Bell



▲ Series 1510TD on 10 inch AWWA C900 PVC Pipe

▼ Series 1510TD on 10 inch Ductile Iron Pipe



*Tru-Dual Inserts are heat treated for hardness to ensure proper restraint on ductile iron pipe.

**Two inserts are located near the clamp points on each half of the split serrated ring. This design provides maximum restraint on both ductile iron pipe and C900 PVC pipe enabling the product to be truly Tru-Dual.

Features and Applications:

- Restraint for Ductile Iron Pipe at Push-On Bells, meeting ANSI/AWWA C151/A21.51 and ANSI/AWWA C150/A21.50
- Restraint for AWWA C900 PVC Pipe at Push-On Bells
- Minimum 2 to 1 Safety Factor
- **MEGA-BOND®** Restraint Coating System
For more on MEGA-BOND refer to www.ebaa.com
- Split design for ease of installation
- Constructed of ASTM A536 Ductile Iron

For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600, C605, or ASTM D2774.

EBAA Iron products are not designed, intended, or approved for use with compressed air or any gas service. All entrapped air must be completely removed from the pipeline prior to pressurization, testing, or placing the line into service. Failure to eliminate air pockets may result in improper product performance or hazardous conditions.

Sample Specification

Restraint at push-on pipe joints for Ductile Iron pipe and PVC pipe (AWWA C900) shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. The restraint devices shall be coated using MEGA-BOND®. (For complete specifications on MEGA-BOND visit www.ebaa.com.) Side clamp bolts shall be of SAE J429 Grade 5 material. A split serrated ring, with a sufficient number of heat treated Tru-Dual® inserts for gripping both Ductile Iron Pipe and PVC pipe, shall be utilized behind the pipe bell. A split serrated ring, with a sufficient number of heat treated Tru-Dual inserts for gripping both Ductile Iron Pipe and PVC pipe, shall be used to grip the spigot, plain end pipe. A sufficient number of bolts shall be used to connect the bell ring and the gripping ring. The restraint shall be the Series 1500TD, as manufactured by EBAA Iron, Inc., or approved equal.

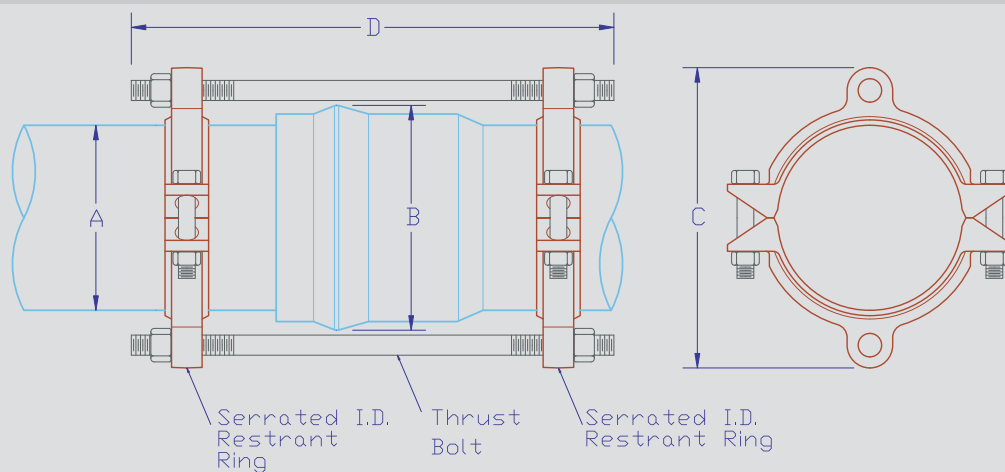
All EBAA restraint products intended for installation on ductile iron pipe are designed for and limited to use on ductile iron pipes that comply with the requirements of ANSI/AWWA C151/A21.51 and have a Brinell Hardness or equivalent measurement value that does not exceed 230BHN. These requirements apply to the entire pipe wall profile at all restraining wedge engagement points and to the full penetration depth of each restraining wedge.

Nominal Pipe Size	Series Number	Approx. Weight	Pressure Rating (PSI)			
			D.I. Pipe	PVC Pipe		
			DIP	DR14	DR18	DR25
4	1504TD	15.2	350	200	150	100
6	1506TD	20.2	350	200	150	100
8	1508TD	27.7	250	200	150	100
10	1510TD	53.0	250	200	150	100
12	1512TD	57.0	250	200	150	100

NOTE: For applications and pressures not shown, please contact EBAA.

Series 1500TD Submittal Reference Drawing

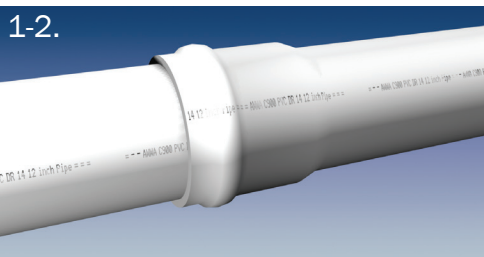
EBAA IRON



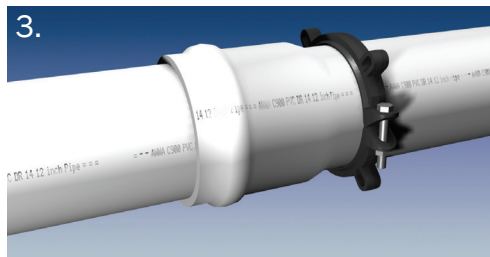
MADE IN USA

Nominal Pipe Size	Series Number	A Pipe O.D.	B Maximum Bell O.D. Cleared	C Max. Restraint O.D. (Casing Clearance)	D Overall Length	Thrust-Bolt (Number - Size)
4	1504TD	4.80	6.75	9.25	13	2 - 3/4 x 13
6	1506TD	6.90	8.75	11.25	18	2 - 3/4 x 18
8	1508TD	9.05	12.25	14.75	18	2 - 3/4 x 18
10	1510TD	11.10	14.20	16.85	22	4 - 3/4 x 22
12	1512TD	13.20	16.90	19.45	22	4 - 3/4 x 22

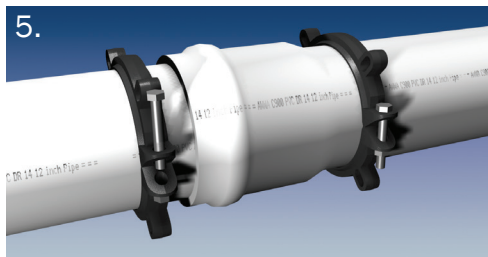
NOTE: Dimensions are in inches and are subject to change without notice.



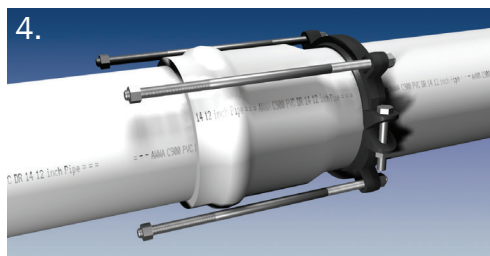
- The Series 1500TD is designed for restraining Ductile Iron pipe or C900 PVC pipe at push-on joints. It has a serrated split restraint ring with heat treated inserts on the spigot and behind the bell.
- Assemble the push-on joint per the pipe manufacturer's instructions.



- 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).



- 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).



- 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.



- 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.

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