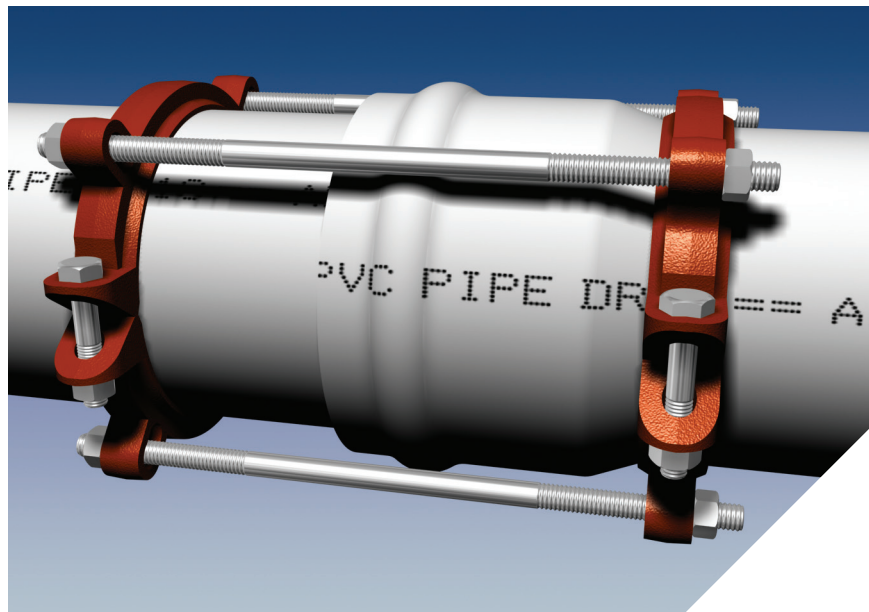


# Series 1600

Bell Restraint Harness for C900 PVC Pipe  
Split Serrated Ring on the Plain End Pipe;  
Split Non-Serrated Ring behind the Bell



Series 1610 on 10 inch AWWA C900 PVC Pipe.

## Features and Application:

- For use on AWWA C900 PVC pipe bells
- Minimum 2 to 1 Safety Factor
- **MEGA-BOND®**  
Restraint Coating System  
For more on MEGA-BOND refer to [www.ebaa.com](http://www.ebaa.com)
- Split design for ease of installation
- Constructed of ASTM A536 Ductile Iron
- Available in accessory packages

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

In accordance with AWWA C600, all air must be expelled from the line before hydrostatic testing.

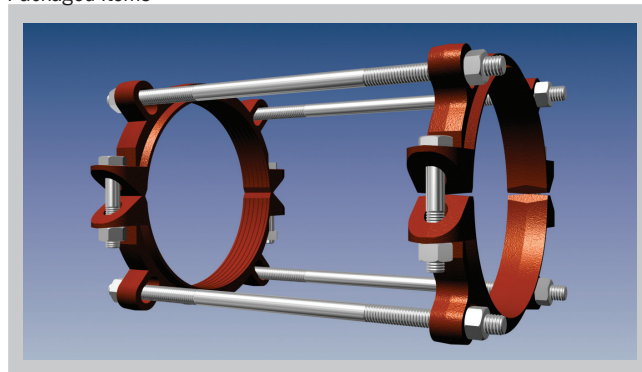
Nominal Pipe Size	Series Number	Approximate Shipping Weight	Pressure Rating (AWWA C900 PVC)		
			DR14 Class 200	DR18 Class 150	DR25 Class 100
4	1604	13.9	200	200	100
6	1606	20.7	200	200	100
8	1608	26.6	200	200	100
10	1610	54.1	200	200	100
12	1612	59.9	200	200	100

NOTE: For applications or pressures other than those shown, please contact EBAA for assistance.

## Sample Specification

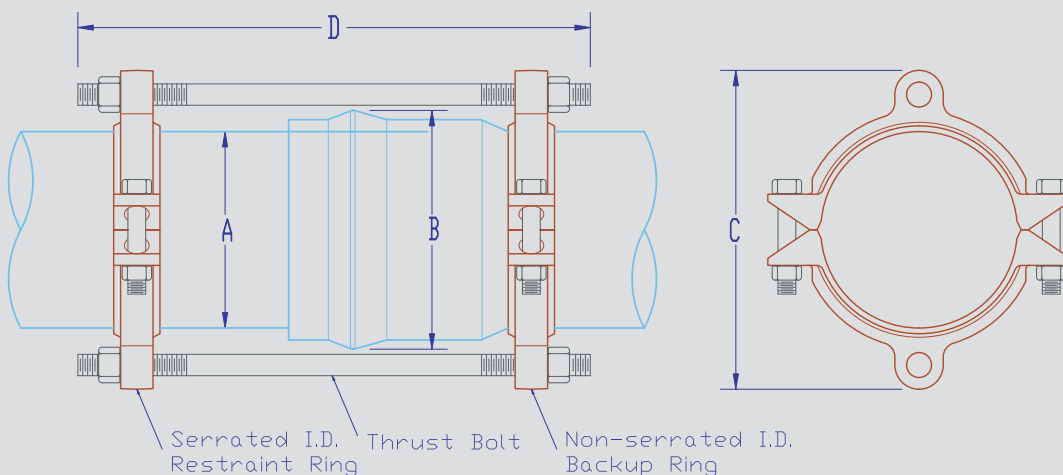
Restraint for PVC pipe bell (AWWA C900) shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. The restraint devices shall be coated using MEGA-BOND. (For complete specifications on MEGA-BOND visit [www.ebaa.com](http://www.ebaa.com).) Side clamp bolts shall be of SAE J429 Grade 5 material. A split ring shall be used behind the pipe bell. A split serrated ring shall be used to grip the pipe, and a sufficient number of bolts shall be used to connect the bell ring and the gripping ring. The combination shall have a minimum working pressure rating shown in the Pressure Rating Table on the product brochure. The restraint shall be the Series 1600, as manufactured by EBAA Iron, Inc., or approved equal.

Packaged Items



## Series 1600 Submittal Reference Drawing

EBAA IRON

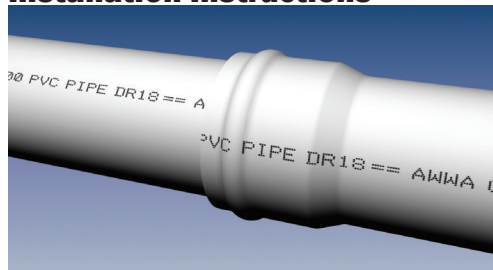


MADE IN USA

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	1604	4.80	6.75	9.25	13	2 - 3/4 x 13
6	1606	6.90	8.75	11.25	18	2 - 3/4 x 18
8	1608	9.05	12.25	14.75	18	2 - 3/4 x 18
10	1610	11.10	14.20	16.85	22	4 - 3/4 x 22
12	1612	13.20	16.90	19.45	22	4 - 3/4 x 22

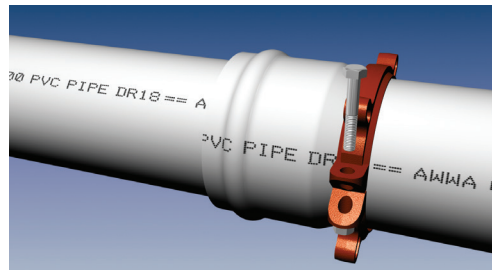
NOTE: Dimensions are in inches and are subject to change without notice.

### Installation Instructions



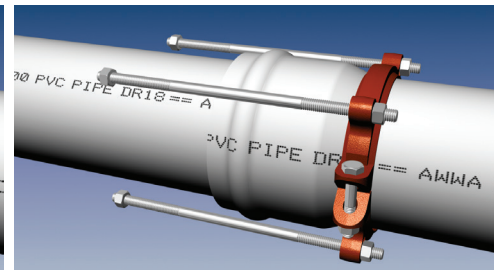
The Series 1600 is designed for restraining push-on, C900 PVC pipe bells. It has a split, serrated restraint ring on the spigot and a split non-serrated ring behind the bell.

1. Assemble the push-on joint per the pipe manufacturer's instructions.

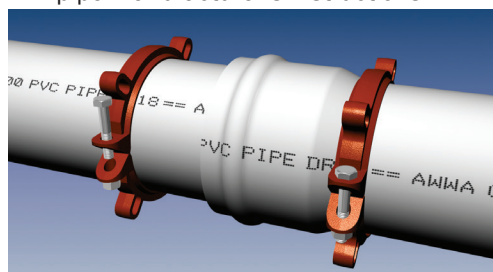


2. Install both halves of the non-serrated bell ring around the pipe behind the bell. Install the side bolts and tighten each to 60 ft-lbs (110 ft-lbs on 8 inch, 10 inch and 12 inch).

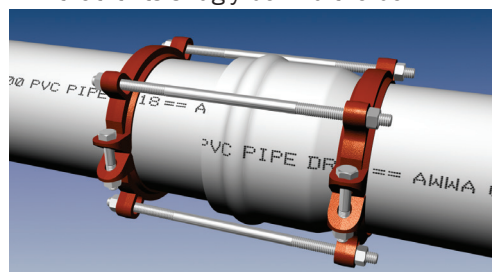
3. Slide the bell ring toward the bell so that it fits snugly behind the bell.



4. Remove the side bolts from the 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.

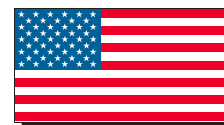


5. Install both halves of the restraint ring at the proper location, tapping each half into place. Make sure that the complete ID of the ring is touching the pipe before installing the side bolts. Tighten the side bolts evenly to 60 ft-lbs torque (110 ft-lbs on 8 inch, 10 inch and 12 inch).



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.

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