

MEGA-STOP®

Series 5000

Bell Protection System

Patent Pending

Properly and quickly assemble pipe joints each and every time. Improper installation and over-insertion can contribute to the build up of damaging stresses in pipe joints. The MEGA-STOP is a safe and economical “**over-insertion**” solution.

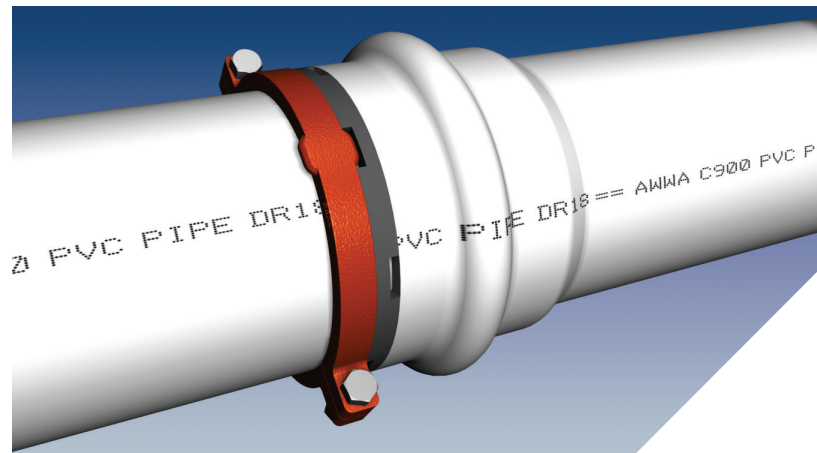


Image depicts 8 inch MEGA-STOP Bell Stop on 8 inch AWWA C900 PVC pipe.

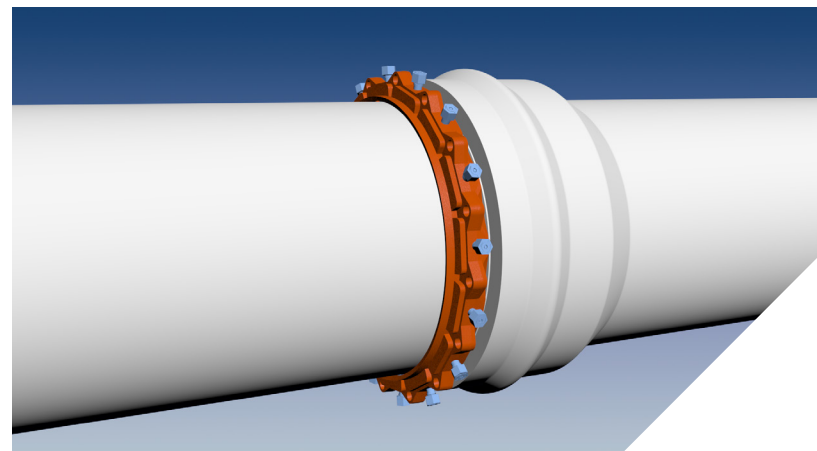


Image depicts 16 inch MEGA-STOP Bell Stop on 16 inch AWWA C900 PVC pipe. Twist-Off Nuts shown.

Nominal Pipe Size	Series Number	Approximate Weight (lbs)	Rated “Push” Load (Max. lbf)
4	5004	3.5	10,000
6	5006	6.5	10,000
8	5008	8.0	10,000
10	5010	11.5	10,000
12	5012	15.5	10,000
14	5014	47.6	10,000
16	5016	28.6	15,000
18	5018	61.8	15,000
20	5020	70.9	15,000
24	5024	92.9	15,000
30	5030	128.5	15,000
36	5036	161.3	15,000

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

Features and Applications:

- Allows for expansion/contraction of the pipe and permitted joint deflection with the exclusive Expansion Retention Spring—ERS
- Proper use assures assembly of every PVC joint is in compliance with the pipe manufacturer’s installation recommendations and requirements.
- Easy to install in the field
- Eliminates “lost” pipe resulting from over-insertion*
- Constructed of Traceable ASTM A536 Ductile Iron
- MEGA-BOND® Restraint Coating System
- For use on the pipe spigot at a C900 PVC Pipe or C907 PVC fitting bell
- **Conventional Open Cut Installation**
 - Facilitates quick, accurate, and proper assembly of PVC pipe joints
 - Simple, visual inspection of the assembled joint
 - Protects previously assembled joints**
- **Casing Installation**
 - Prevents over-insertion when pushing pipe through casings. The push load must be limited to the listed maximum rated push load
 - Maintains the ability of the pipe to expand and contract in response to changes in temperature and/or soil movement
- **Horizontal Directional Drilling Installation**
 - Optimal for short HDD applications such as road crossings and locations with frequent fitting requirements
 - Use of standard bell and spigot pipe saves money compared to specialty pipe joints
 - Does not require an extended entry pit or staging area typical of fused piping
 - Accommodates the need for multiple fittings in congested areas

*An over-inserted pipe joint can have a laying length that is more than two inches shorter than specified. In a pipeline of 25,000 feet that would result in a reduction of at least 208 feet or a loss of more than 10 pieces of pipe.

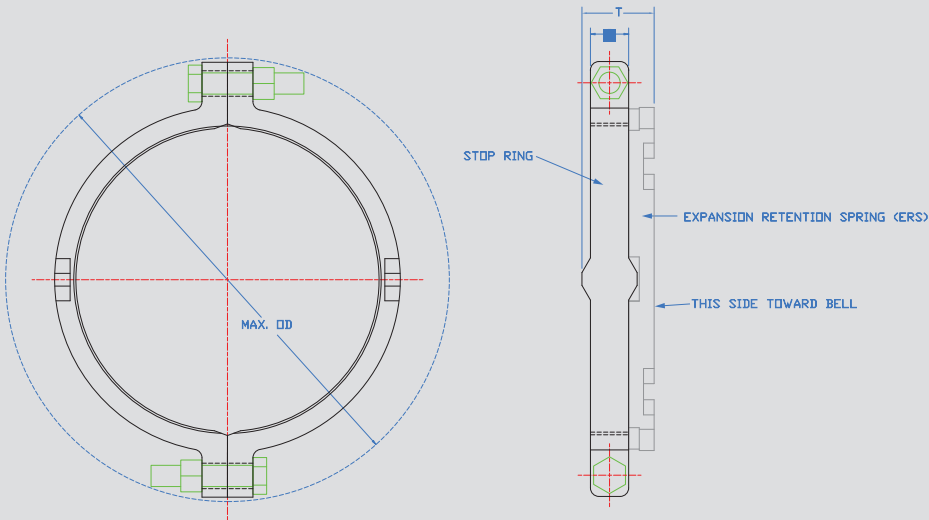
**The peak force required to assemble a push-on joint can cause previously assembled joints to be over-inserted unless measures are taken to prevent over-insertion.

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.

Series 5000 4 - 12 inch Submittal Reference Drawing

EBAA IRON

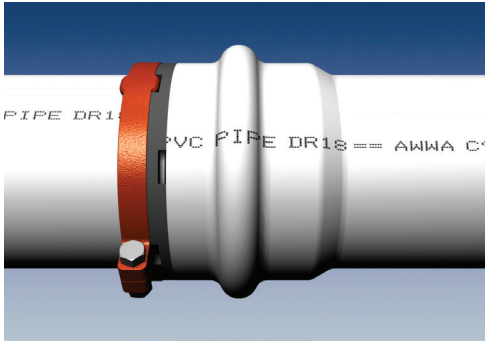
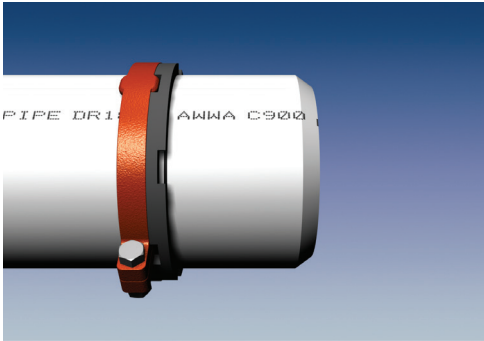
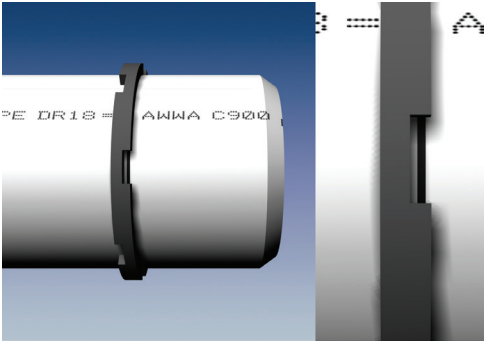
MADE IN USA



Nominal Pipe Size	Series Number	Push Load (lbs)	Maximum O.D.	C	T	Bolt (Qty - Size)
4	5004	10,000	9.2	1.13	1.88	2 - 5/8 x 3
6	5006	10,000	11.1	1.13	1.88	2 - 5/8 x 3
8	5008	10,000	13.1	1.13	1.88	2 - 5/8 x 3
10	5010	10,000	15.7	1.13	1.88	2 - 5/8 x 3½
12	5012	10,000	18.3	1.13	1.88	2 - 5/8 x 3½

NOTE: Dimensions are in inches (± 1%) and are subject to change without notice.

Installation Instructions



1.

The Series 5000 MEGA-STOP Bell Protection System is designed to prevent over-insertion of the spigot or plain end of the pipe into a push on pipe bell, while allowing the pipe to properly expand or contract. The Series 5000 MEGA-STOP is used on AWWA C900 PVC Pipe, and consists of one split serrated MEGA-STOP Bell Stop Ring and one Expansion Retention Spring (ERS).
2.

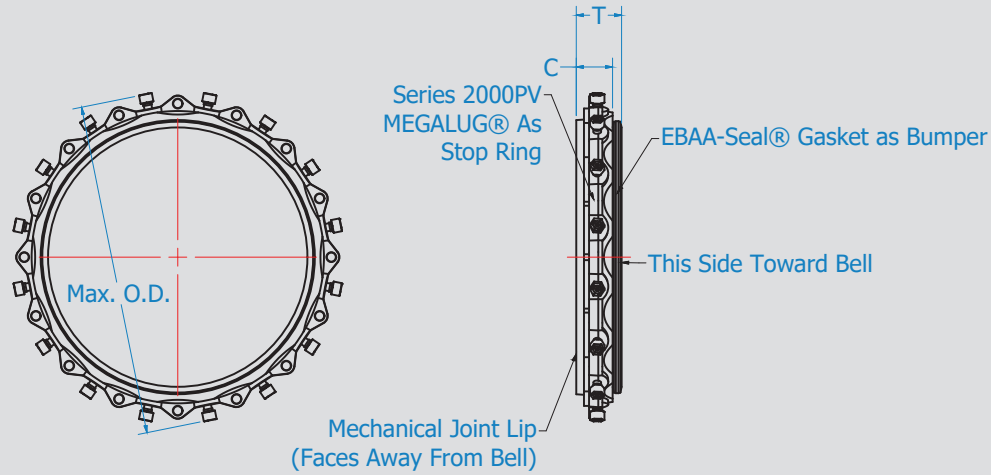
Place the Expansion Retention Spring (ERS) on the spigot and position it so that the manufacture’s reference mark is visible through the front notches. If the mark is missing due to fading or a cut pipe, place a mark at the pipe manufacture’s recommended measurement, chamfering the pipe may also be recommended by the pipe manufacturer. (The ERS is bidirectional. Once placed on pipe the notches nearest the pipe chamfer are the front notches.)
3.

Disassemble the halves of the MEGA-STOP and reassemble them on the spigot against the back side of the ERS with the extensions of the MEGA-STOP inside of the notches on the back side of the ERS. Tighten the side bolts evenly to a torque of 70 ft-lbs.
4.

Assemble the joint in accordance with the pipe or fitting manufacture’s installation instructions.

EBAA IRON

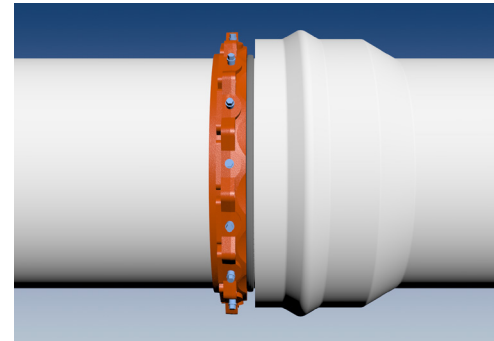
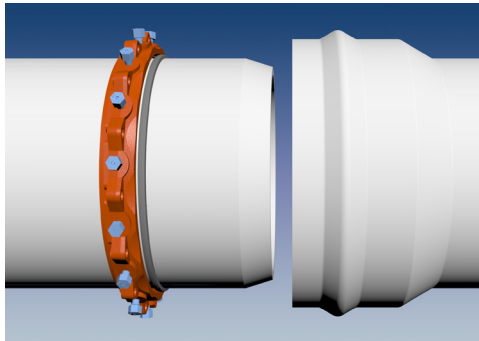
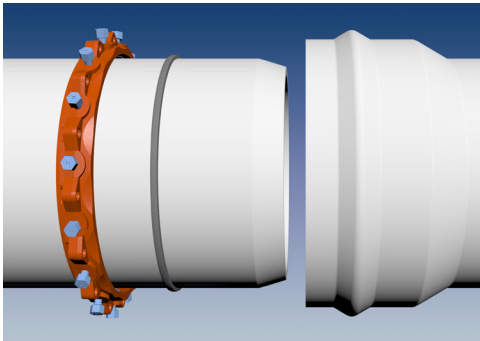
MADE IN USA



Nominal Pipe Size	Series Number	Push Load (lbs)	Maximum O.D. w/ Nuts Twisted Off	C	T	Wedge Count
14	5014	10,000	20.90	3.00	3.88	10
16	5016	15,000	23.00	3.00	3.88	12
18	5018	15,000	25.10	3.00	3.88	12
20	5020	15,000	27.20	3.00	3.88	14
24	5024	15,000	31.50	3.50	4.38	16
30	5030	15,000	37.70	3.50	4.75	20
36	5036	15,000	44.00	3.50	4.75	24

NOTE: Dimensions are in inches ($\pm 1\%$) and are subject to change without notice.

Installation Instructions



1. The Series 5000 MEGA-STOP Bell Protection System is designed to prevent over-insertion of the spigot or plain end of the pipe into a push-on pipe bell, while allowing the pipe to properly expand or contract. The Series 5000 MEGA-STOP is used on AWWA PVC Pipe, and consists of one wedge-style MEGA-STOP Bell Stop Ring and one Expansion Retention Spring (ERS).
2. Place the 2000PV restraint on spigot end of pipe with lip facing away from bell.
3. Place EBAA Seal gasket on spigot end of pipe.
4. Assemble bell and spigot per manufactures recommendations with respect to the insertion reference line.
5. Slide gasket flush with bell of pipe as shown above.
6. Slide 2000PV restraint flush with gasket and tighten the torque limiting twist-off nuts in a clockwise direction (direction indicated by arrow on top of nut) until all wedges are in firm contact with the pipe surface. Continue tightening in an alternating manner until all of the nuts have been twisted off.

Sample Specification

Devices for the prevention of “over-insertion” of AWWA C900 PVC Pipe spigots or plain ends into push-on bell joints shall consist of the following: The bell stop shall be manufactured of ductile iron conforming to ASTM A536. The bell stop shall be coated using MEGA-BOND® (For complete specifications on MEGA-BOND visit www.ebaa.com.) The device shall incorporate a Expansion Retention Spring allowing compensation for expansion and contraction of the pipe, along with visual inspection viewports of the PVC pipe insertion reference mark. The combination of the two shall be the Series 5000 MEGA-STOP® Bell Protection System, as manufactured by EBAA Iron, Inc.



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