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.

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.

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Series Number</th>
<th>Approximate Weight (lbs)</th>
<th>Rated “Push” Load (Max. lbf)</th>
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NOTE: For applications or loads other than those shown, please contact EBAA for assistance.
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).

1. Place the Expansion Retention Spring (ERS) on the spigot and position it so that the manufacturer’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 bi-directional. Once placed on pipe the notches nearest the pipe chamfer are the front notches.)

2. 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.

3. Assemble the joint in accordance with the pipe or fitting manufacturer’s installation instructions.
**Installation Instructions**

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).

1. Place the Mega-Stop stop ring on spigot with the flange of the ring facing the bevelled end of the spigot. The flange is marked with “This side towards bell”.

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 manufacturer’s recommended measurement, chamfering the pipe may also be recommended by the pipe manufacturer. (The ERS is bi-directional. Once placed on pipe the notches nearest the pipe chamfer are the front notches.

3. Slide the Mega-Stop Stop Ring toward back side of the ERS until the flange of the stop ring is fully contacting the ERS.

4. Tighten the torque limiting twist-off nuts in a clockwise direction (direction indicated by arrow on top of the 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.

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

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