

▲ Series 1124SDB as an anchor for connecting rods.

### Features and Applications:

- For use on Ductile Iron Pipe in mid-span restraint applications
- Minimum 2 to 1 Safety Factor
- Split design for ease of installation
- Constructed of ASTM A536 Ductile Iron
- For Submittal Reference Information please refer to the Series 1100 Brochure.

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

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

| Pressure Rating (PSI) |               |                             |              |
|-----------------------|---------------|-----------------------------|--------------|
| Nominal Pipe Size     | Series Number | Approximate Shipping Weight | Ductile Iron |
| 3                     | 1103SDB       | 9.4                         | 350          |
| 4                     | 1104SDB       | 10.7                        | 350          |
| 6                     | 1106SDB       | 15.1                        | 350          |
| 8                     | 1108SDB       | 18.8                        | 350          |
| 10                    | 1110SDB       | 38.0                        | 300          |
| 12                    | 1112SDB       | 46.7                        | 300          |
| 14                    | 1114SDB       | 65.7                        | 300          |
| 16                    | 1116SDB       | 73.6                        | 300          |
| 18                    | 1118SDB       | 80.3                        | 200          |
| 20                    | 1120SDB       | 89.5                        | 200          |
| 24                    | 1124SDB       | 151.6                       | 200          |
| 30                    | 1130SDB       | 218.6                       | 200          |
| 36                    | 1136SDB       | 258.6                       | 200          |
| 42                    | 1142SDB       | 467.2                       | 175          |
| 48                    | 1148SDB       | 554.1                       | 175          |
| 54                    | 1154SDB       | 785.0                       | 250          |
| 60                    | 1160SDB       | 1,136.3                     | 175          |

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

### Sample Specification

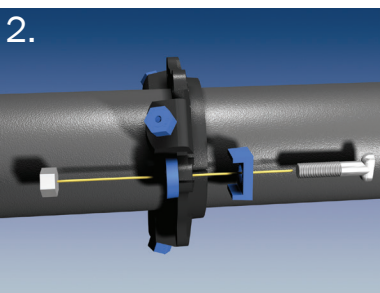
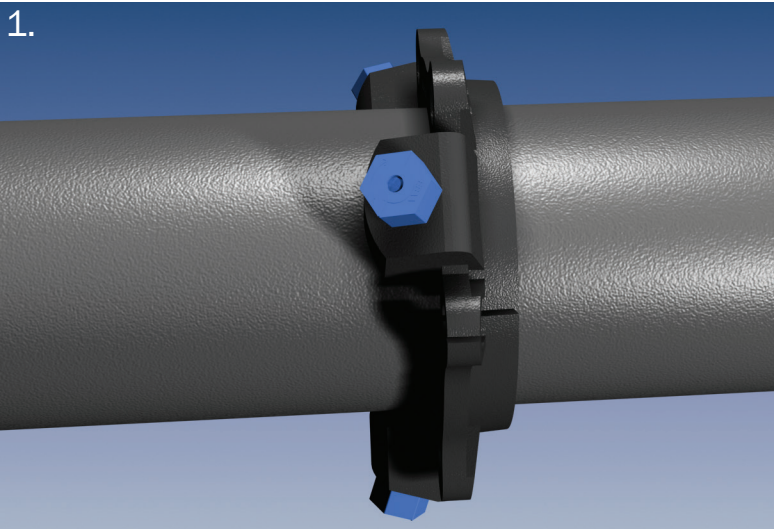
A mid span restraint anchor point on existing ductile iron pipe shall consist of the following: The restraint shall be split for ease of installation and manufactured of ductile iron conforming to ASTM A536. The restraint devices shall be coated using MEGA-BOND®. (For complete specifications on MEGA-BOND visit [www.ebaa.com](http://www.ebaa.com)). The split restraint ring, incorporating a plurality of individually-actuating gripping surfaces, shall be used to grip the pipe. The device shall have a minimum working pressure rating as shown in the product brochure. The restraint shall be the Series 1100SDB, as manufactured by EBAA Iron, Inc. or approved equal.

All EBAA 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.

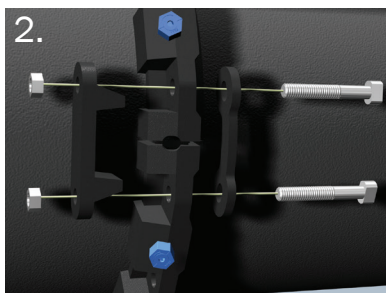


▲ Two Series 1124SDB as an anchor in a concrete "Dead Man" wall (polyethylene wrap, not depicted, must be used. See reverse side.).

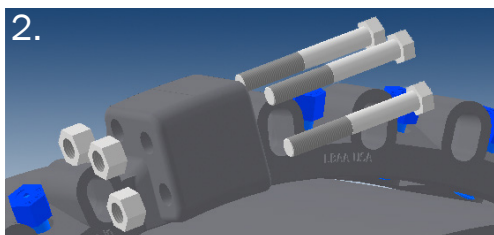
# Installation Instructions for Series 1100SDB



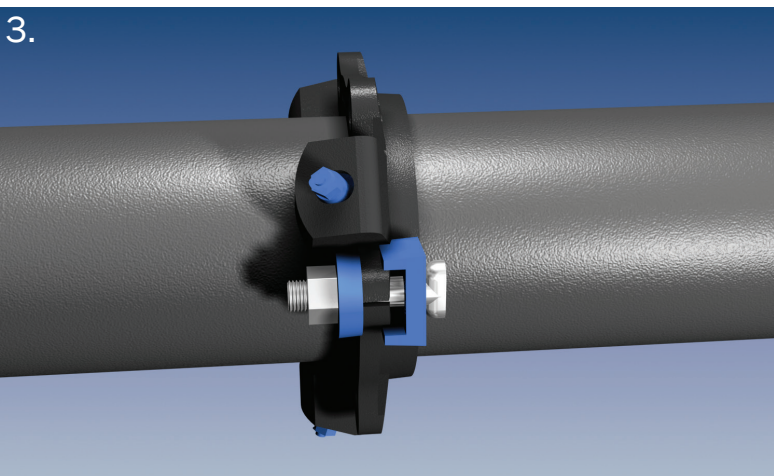
**3-8 inch**



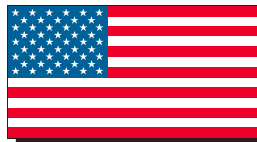
**10-48 inch**



**54-60 inch**



1. Remove the clamps from the split gland. Loosely assemble the halves on the pipe by assembling each clamp so that the angled surfaces of the clamp mate with the angled surfaces on each side of the split, and with the backup plate on the opposite side of the gland from the clamp. Insert the long T-bolt (provided) through the clamps and tighten hand tight.
2. Tighten the T-bolts/Machine Bolts. Tighten the bolts to the normal range of bolt torque [45-60 ft-lbs for 3 inch, 75-90 ft-lbs for 4 inch through 24 inch, 100-120 ft-lbs 30 inch through 36 inch, and 120-150 ft-lbs for 42 inch through 60 inch]. The use of a torque indicating wrench will facilitate this procedure.
3. Tighten the torque limiting twist-off nuts in a clockwise direction (direction indicated by an 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 twisted off.
4. If removal is necessary; use the  $\frac{5}{8}$ " ( $\frac{7}{8}$ " 1142SDB through 1154SDB, and  $1\frac{1}{8}$ " for 1160SDB) hex heads provided. If reassembly is required, assemble the joint in the same manner as above, tightening the wedge bolts to 90 ft-lbs (135 ft-lbs for 1124SDB through 1154SDB, and 165 ft-lbs for the 1160SDB).



## Important Note:

When used as an anchor within concrete, polyethylene wrap must be used to prevent concrete intrusion into the wedge pocket.

For Submittal Reference Information please refer to the Series 1100 Brochure.

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