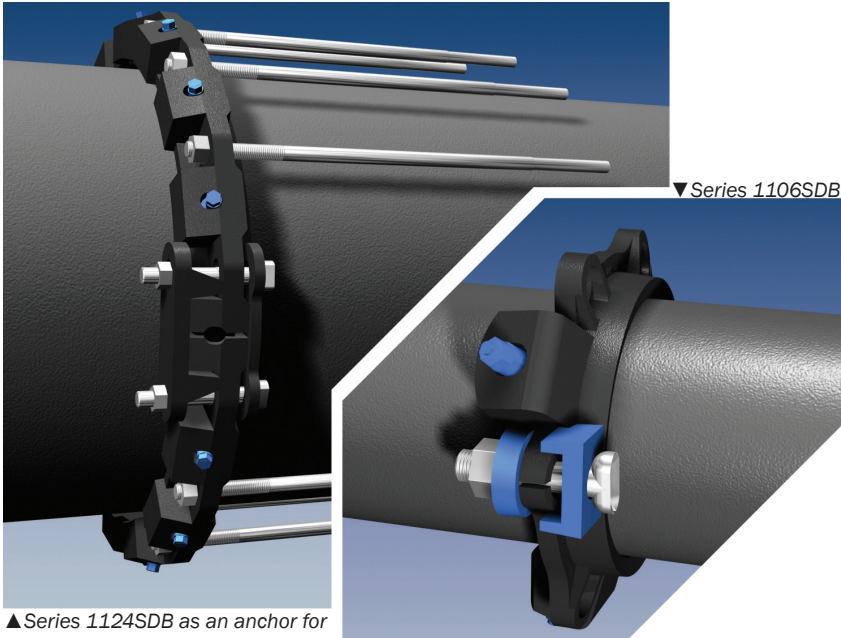


Series 1100SDB

Mid Span Restraint for Ductile Iron Pipe

U.S. Patent Nos

4,092,036 4,627,774 4,779,900 4,896,903 5,544,922



▲Series 1124SDB as an anchor for connecting rods.

▼Series 1106SDB

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.

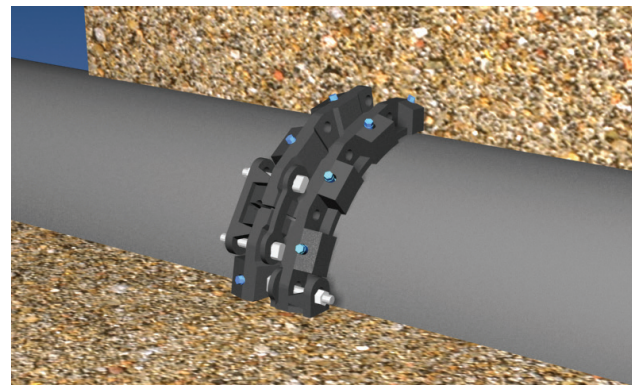
Sample Specification

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). 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.

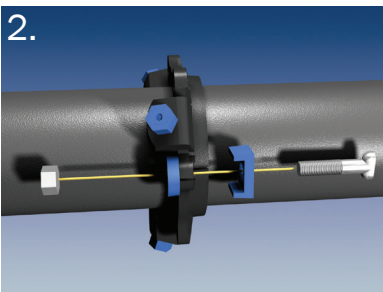
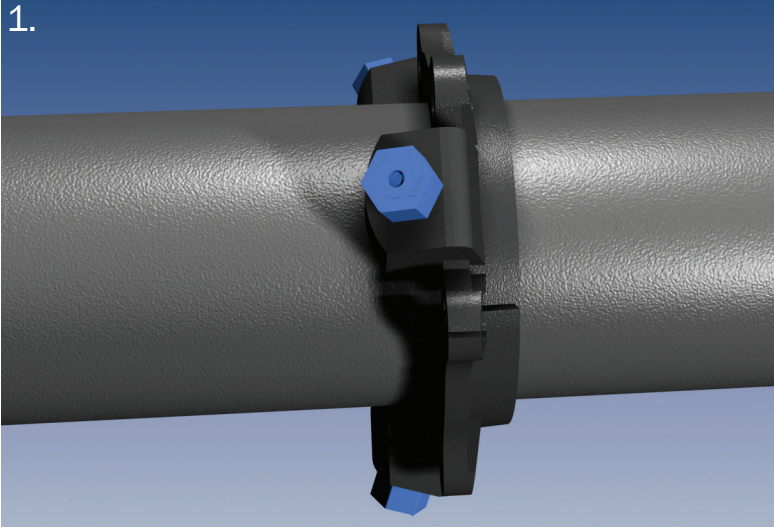
Nominal Pipe Size	Series Number	Approximate Shipping Weight	Pressure Rating (PSI)
			Ductile Iron
3	1103SDB	9.4	350
4	1104SDB	10.7	350
6	1106SDB	15.1	350
8	1108SDB	18.8	350
10	1110SDB	38.0	300
12	1112SDB	46.7	300
14	1114SDB	65.7	300
16	1116SDB	73.6	300
18	1118SDB	80.3	200
20	1120SDB	89.5	200
24	1124SDB	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.

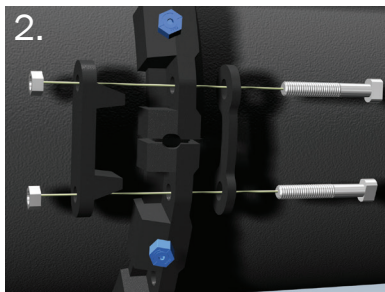


▲ Two Series 1124SDB as an anchor in a concrete "Dead Man" wall (polyethylene wrap, not depicted, must be used. See reverse side.).

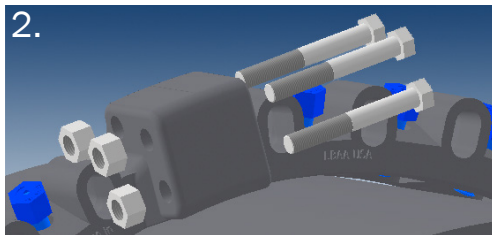
Installation Instructions for Series 1100SDB



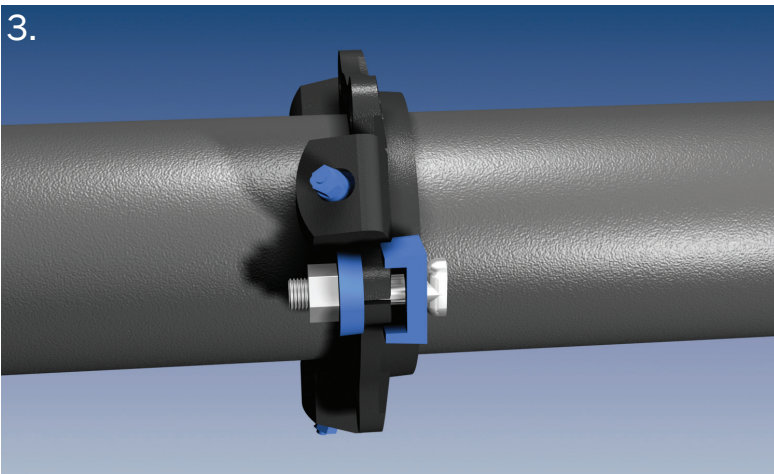
3-8 inch



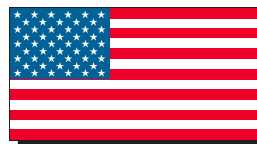
10-48 inch



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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