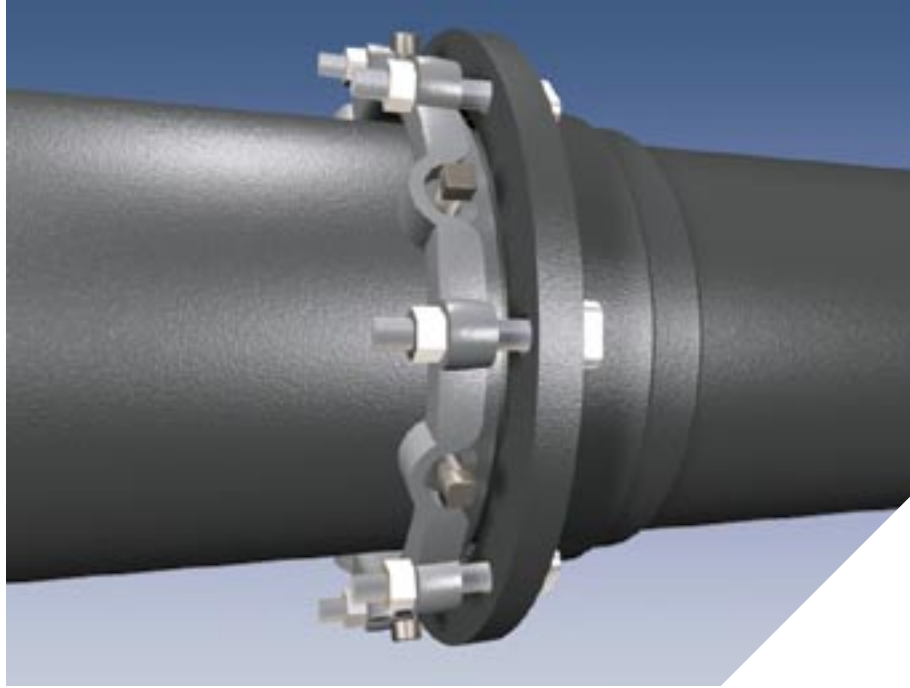


SERIES 1200

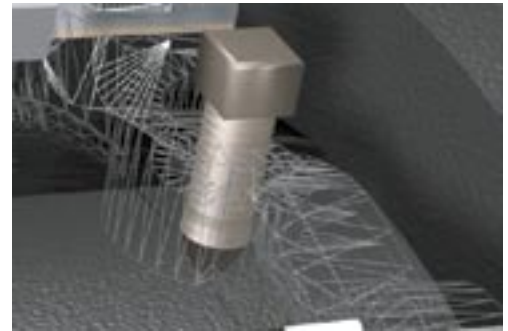
Mechanical Joint
Ductile Iron Retainer Gland



1212 on 12 pipe.

Features and Application:

- For use on Ductile Iron Pipe at mechanical joints.
- Minimum 2 to 1 Safety Factor.
- Set Screw design.
- Constructed of ASTM A536, 65-45-12 Ductile Iron.
- UL listed on all sizes.
- FM approved on sizes 4" through 10".
- For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600 or ASTM D2774.



Set Screw Design.

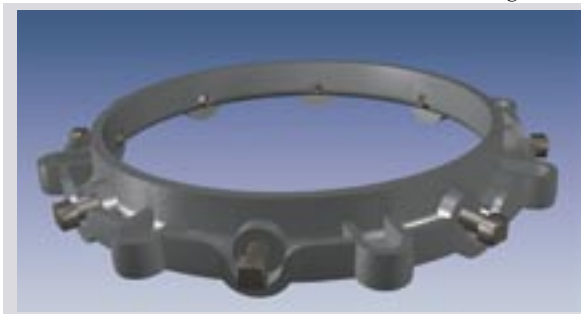
Nominal Pipe Size	Series Number	Approximate Shipping Weight	Pressure Ratings (PSI)
			Ductile Iron
4	1204	4.50	350
6	1206	7.80	350
8	1208	12.10	250
10	1210	13.30	200
12	1212	20.00	200

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

Sample Specification

Restraint for mechanical joints shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. The restraint gland shall have set screws manufactured out of ductile iron. The screws shall have a Rockwell hardness of C40-45 converted from Brinnell. The gland shall have a design to fit standard mechanical joints with standard T head bolts conforming to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 of latest revision. The combination shall have a working pressure as shown in the adjacent table. The restraint shall be the Series 1200 as manufactured by EBAA Iron, Inc. or approved equal.

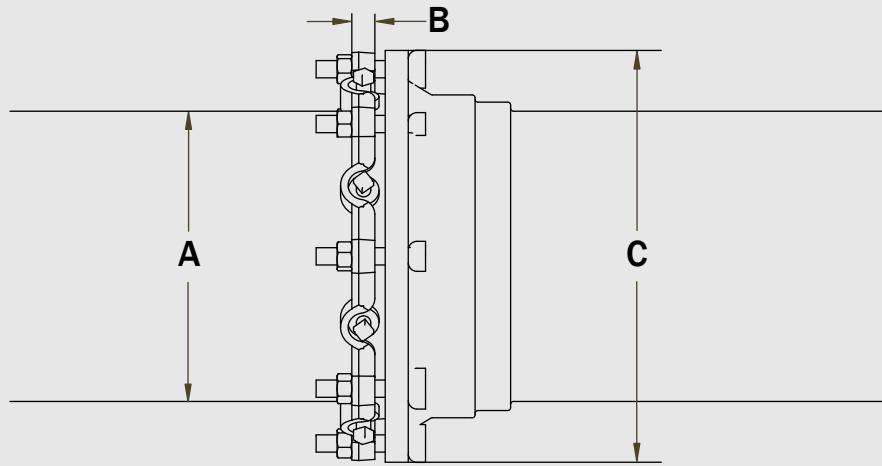
Packaged items.



Series 1200 Submittal Reference Drawing

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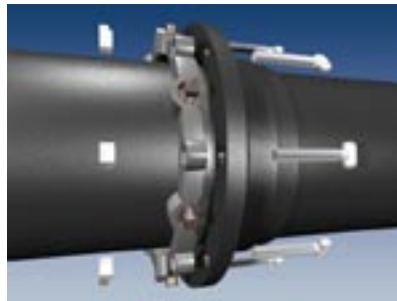
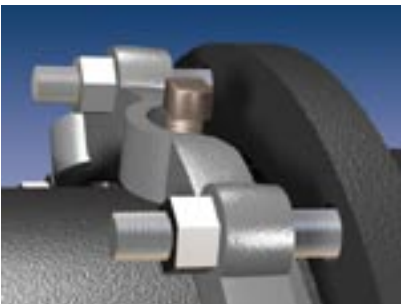
Nominal Pipe Size	Series Number	A Pipe O.D.	B Gland Thickness	C Max. O.D.
4	1204	4.80	.75	9.12
6	1206	6.90	.88	11.12
8	1208	9.05	1.00	13.37
10	1210	11.10	1.00	15.62
12	1212	13.20	1.00	17.88

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

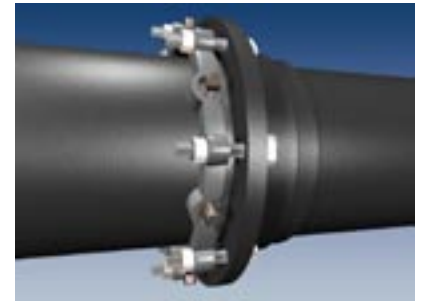
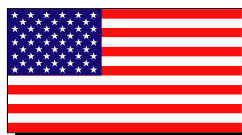
Installation Instructions



- EBAA Series 1200 is designed for use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51 class 50 or thicker when restraining mechanical joint pipe or fittings. The set screws must be backed out to clear the pipe prior to assembly.
- Clean the socket and the plain end. Lubrication and additional cleaning should be provided by brushing both the gasket and the plain end with soapy water or an approved pipe lubricant meeting the requirements of ANSI/AWWA C111/A21.11, just prior to slipping the gasket onto the plain end for joint assembly. Place the gland on the plain end with the lip extension toward the plain end, followed by the gasket.



- Insert the pipe into the socket and press the gasket firmly and evenly into the gasket recess. Keep the joint straight during assembly.
- Push the gland toward the socket and center it around the pipe with the gland lip against the gasket. Insert bolts and hand tighten nuts. Make deflection after joint assembly but before tightening bolts.
- Tighten the set screws in a clockwise direction until all are in firm contact with the pipe surface. After all set screws are in firm contact with the pipe, continue tightening in an alternate manner until all are tightened to 70 ft-lbs.



- Tighten the bolts to the normal range of bolt torque [75-90 ft-lbs.] while at all times maintaining approximately the same distance between the gland and the face of the flange at all points around the socket. This can be accomplished by partially tightening the bottom bolt first, then the top bolt, next the bolts at either side, finally the remaining bolts. Repeat the process until all bolts are within the appropriate range of torque. The use of a torque wrench will facilitate this procedure.

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NOTE: These instructions are requirements of AWWA C600