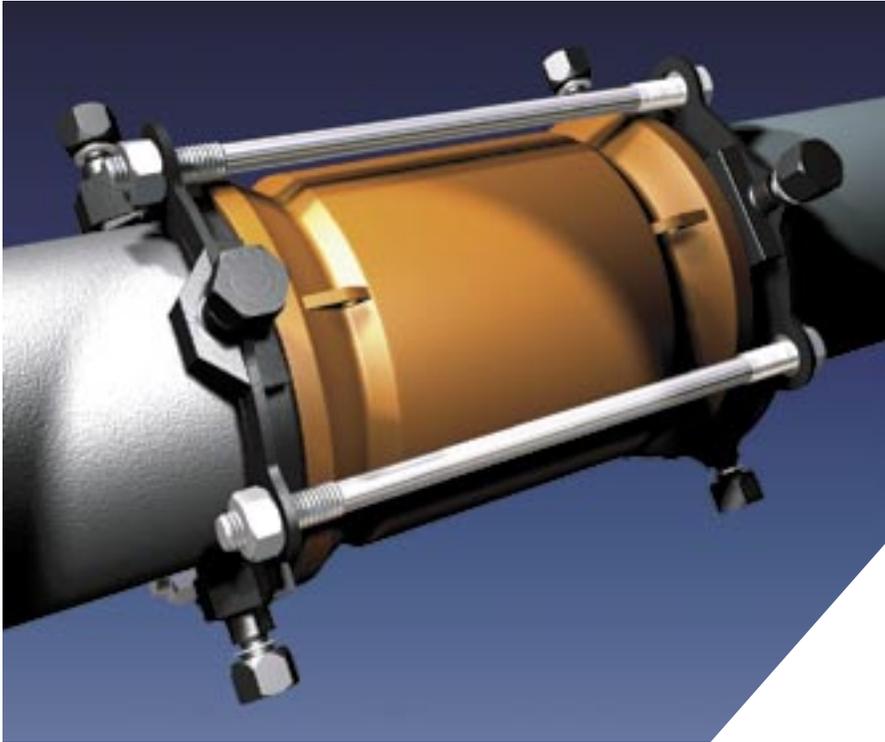


MEGA-COUPLING

SERIES 3800

Restrained Coupling



The **3800** is a restrained coupling for use in the joining of two plain end pipes of the same or dissimilar materials. This device provides axial restraint to the rated pressures listed below, with a minimum factor of safety of 2:1. The 3800 is an economical alternative to the harnessing of unrestrained repair type couplings.

For Use on:

- Ductile Iron
- Steel
- PVC Pipe
(AWWA C900 and ASTM 2241)

Features:

- Fusion Bonded Epoxy Body
- Corrosion Resistance, low alloy, high strength bolts and nuts per ANSI/AWWA C111/A21.11
- 65-45-12 Ductile Iron construction

Meets or exceeds the applicable requirements of :

- AWWA C219
- ASTM A536
- ANSI/AWWA C111/A21.11
- ASTM D2000

Pressure Ratings Table

Nominal Pipe Size	Series Number	Approximate Shipping Weight	Ductile Iron Pipe	Steel Pipe	C900 PVC			ASTM 2241 PVC	
					DR-14	DR-18	DR-25	SDR-21	SDR-26
4	3804	28	250	250	200	150	100	200	160
6	3806	36	250	250	200	150	100	200	160
8	3808	54	250	250	200	150	100	200	160
10	3810	73	250	250	200	150	100	200	160
12	3812	81	250	250	200	150	100	200	160

Note: For applications on pressures other than these shown, please contact EBAA for assistance.
NOT for use on plain end fittings.

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

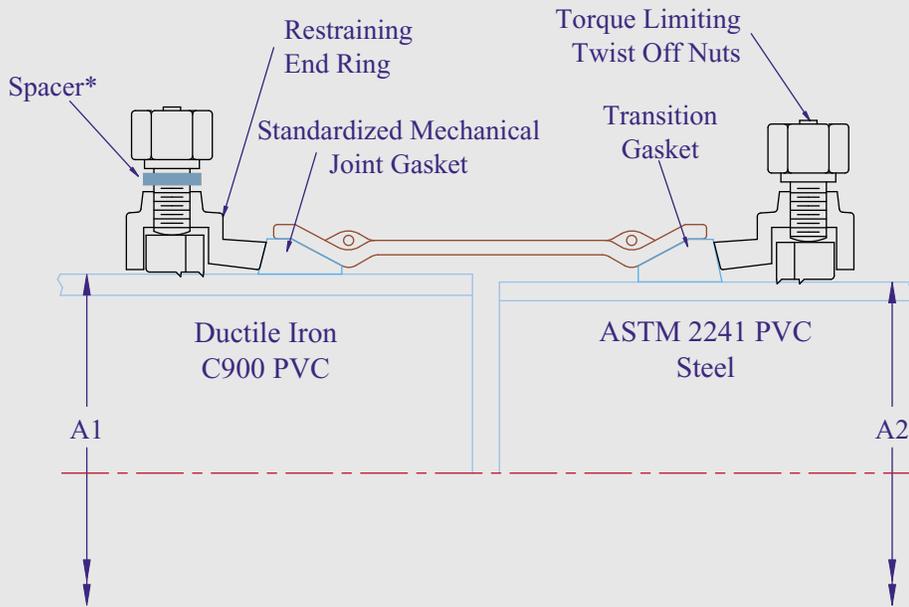
Sample Specification

Joint Restraint to prevent axial separation shall be incorporated into the design of the sleeve or coupling used to connect two pipe plain ends. The restraint mechanism shall consist of a plurality of individually actuated gripping surfaces to maximize restraint capability. Torque limiting twist off nuts shall be used to insure proper actuating of the restraint devices. Ductile Iron components shall be of a minimum of 65-45-12 ductile iron meeting the requirements of ASTM A536 of the latest revision and shall be tested in accordance with said standard. The restrained joining system shall meet the applicable requirements of AWWA C219, ANSI/AWWA C111/A21.11, and ASTM D2000. The restrained joining system shall be EBAA Iron Series 3800 or approved equal.

Series 3800 Submittal Reference Drawing

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* ONLY remove spacer if installing on ASTM 2241 PVC or Steel pipe.

Nominal Pipe Size	Series Number	A1 Pipe O.D. (Maximum)	A2 Pipe O.D. ** (Minimum)	B Over All Length	C Max. Restraint O.D. *** (Casing Clearance)	D Thrust Bolt (Number - Size)	E Barrel Length	Maximum Deflection
4	3804	4.80	4.50	13.0	9.5	2-5/8 x 14	7.5	5°
6	3806	6.90	6.63	13.0	12.1	4-5/8 x 14	7.5	5°
8	3808	9.05	8.63	13.0	13.6	4-5/8 x 14	7.5	5°
10	3810	11.10	10.75	13.0	16.0	6-5/8 x 14	7.5	5°
12	3812	13.20	12.75	13.0	18.1	6-5/8 x 14	7.5	5°

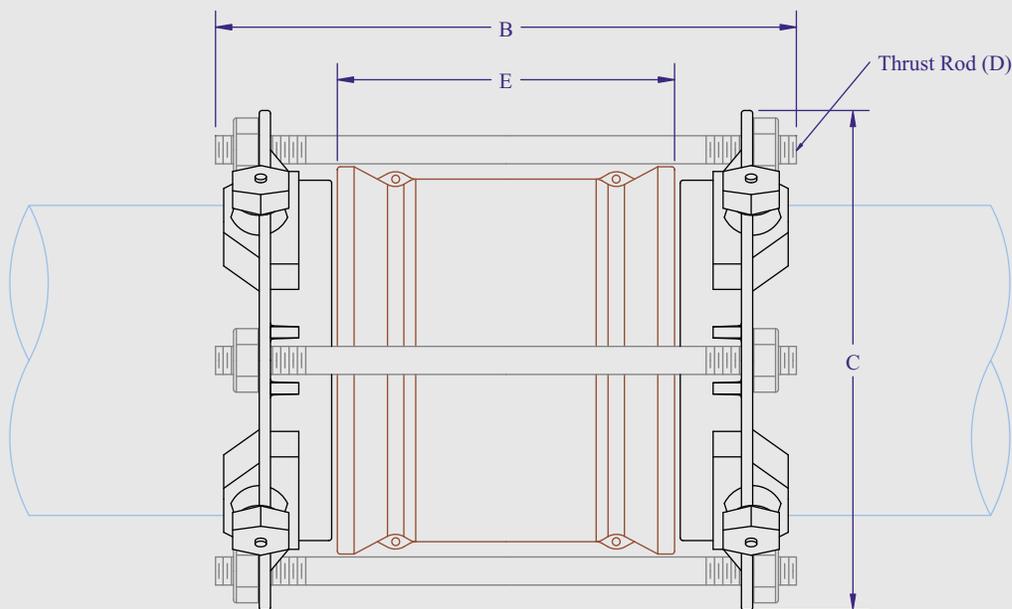
** Requires the use of a "transition gasket".

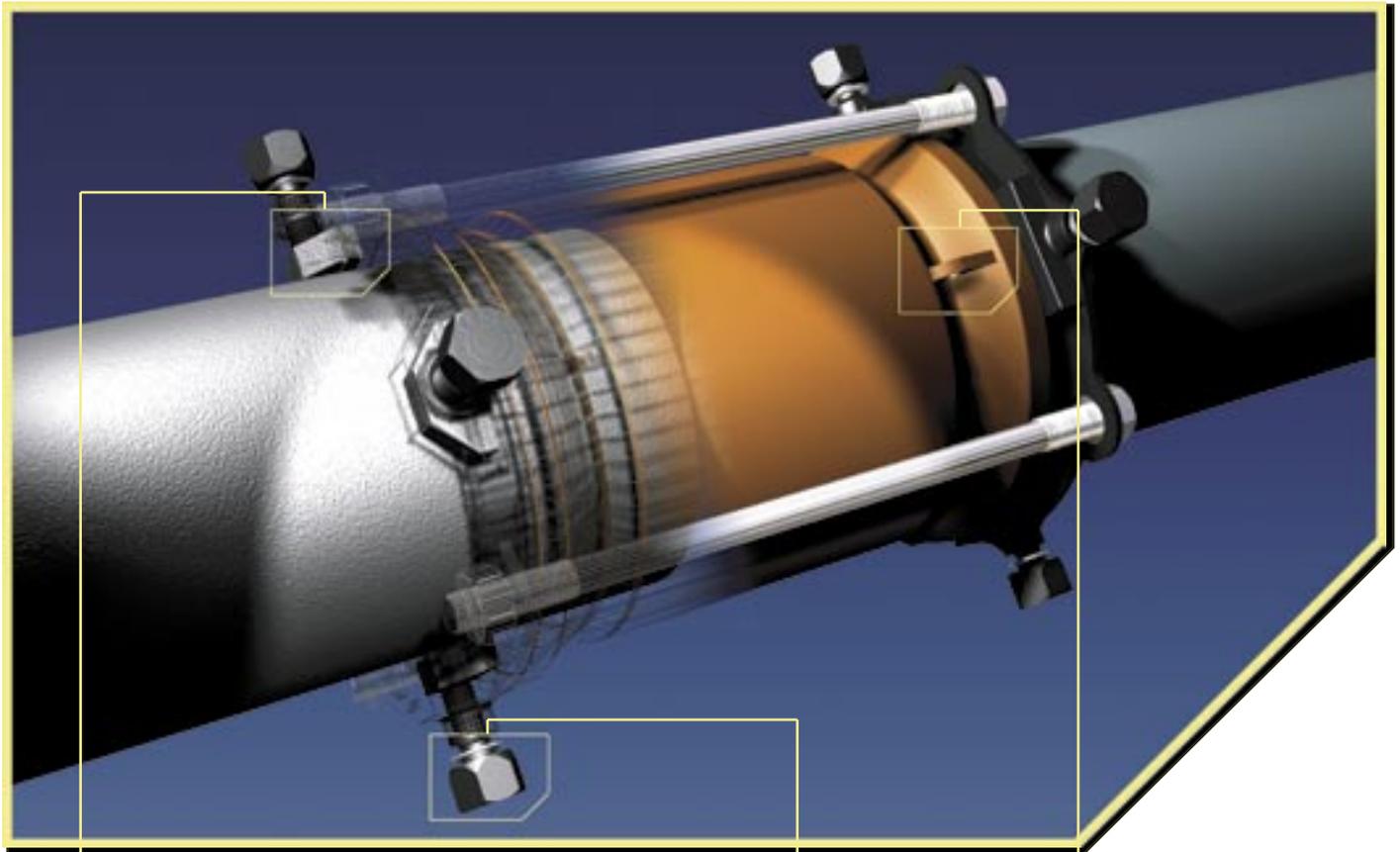
*** As installed with nuts twisted off.

Series 3800 Submittal Reference Drawing

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Gripping Wedge

The gripping wedge works along the same principles as EBAA Iron, Inc.'s

Series 1100 Megalug® and Series 2000PV Megalug® gripping wedges. Once set to the proper torque by the Twist-Off Nuts the wedge then evenly "grips" the pipe preventing axial movement. The "grip" strength grows as the thrust grows allowing for a truly dynamic restraint.

Torque Limiting Twist-Off Nuts

The Twist-Off Nuts, which were designed and developed by the engineers of EBAA Iron, Inc., are specifically made to "twist-off" at the correct ft.-lbs of torque. This allows for proper installation and eliminates the need for expensive torque wrenches, which can become cumbersome in field application. Accommodation for ASTM 2241 PVC and Steel pipes are made by simply unscrewing of the wedge actuating screws, removing the spacer, and then replacing the wedge actuating screws.



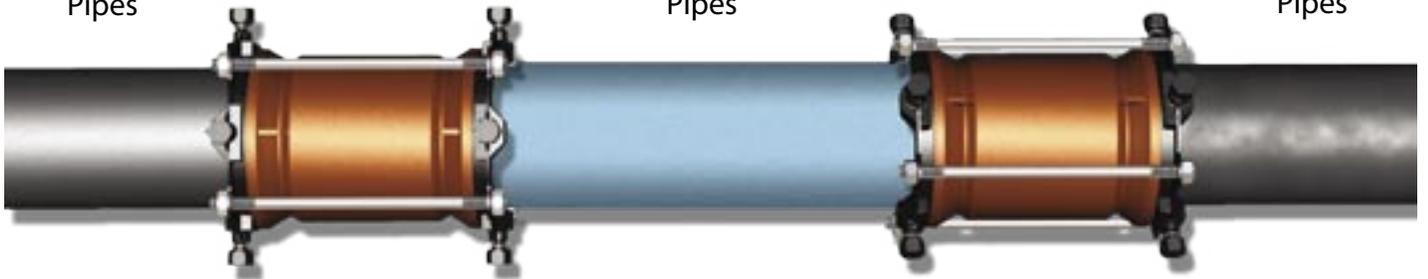
Fusion Bonded Epoxy Coated Sleeve

The Sleeve is coated with a fusion bonded epoxy to give long term corrosion protection. The coating is applied to a minimum of 15 mils and is Holiday tested with a 1500 V spark test in accordance to ANSI/AWWA C213

Ductile Iron Pipes

PVC Pipes

Steel Pipes



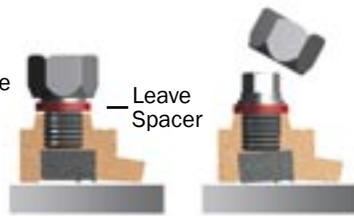
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Spacer Instructions

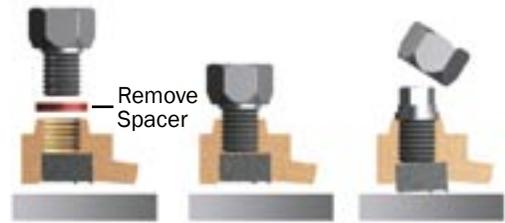
C900 PVC Pipe

For installation on C900 PVC pipe, use as received and install per instructions.



ASTM 2241 PVC Pipe (IPS O.D.)

For installation on ASTM 2241 sized pipe, remove spacers and replace screws. Install per instructions.

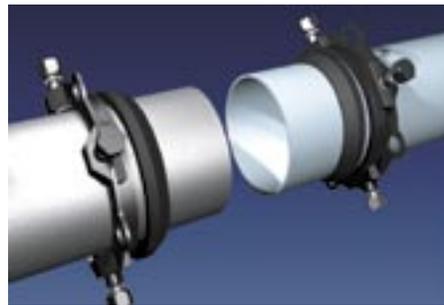


Installation Instructions



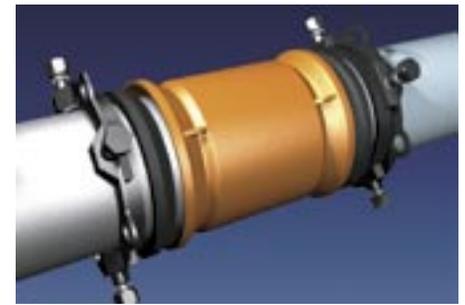
1. Identify the pipe. The spacers under the actuating screws must be removed for use on steel and ASTM 2241 PVC pipe. The spacers must remain in place for use on ductile iron and C900 PVC pipe. (see Spacer Instructions above)

Clean and inspect the pipe ends. Beveling of the ends is not necessary.



2. Place the end rings on the pipes with the lip extensions toward the pipe ends. Lubricate and install the proper gaskets on the pipe ends with the tapers toward the pipe ends.

(SMJ gaskets must be used with ductile iron and C900 PVC pipe. Transition gaskets must be used with steel and ASTM 2241 pipe).



3. Center the sleeve body over the ends of the pipes while maintaining a 1/2" to 1" gap between the pipe ends. Slide the gaskets and end rings toward the sleeve body.



4. Install the threaded rods and hand tighten the nuts on each end.

Gradually tighten the nuts in an alternating manner to 60-75 ft. lbs. while maintaining the same distance between the rings and the ends of the body at all points around the rings.



5. Hand tighten the actuating screws until all wedges are touching the pipes. Continue tightening the screws in an alternating manner until the torque limiting heads twist off. The screws may bottom out during this step.



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