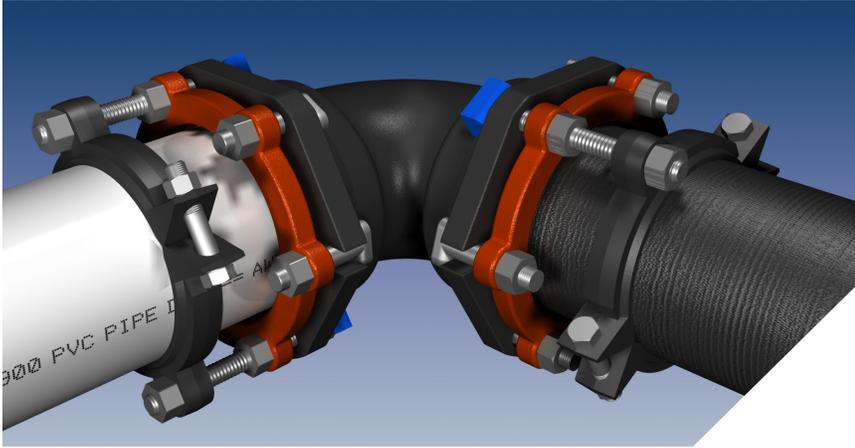


Series 15MJG00TD

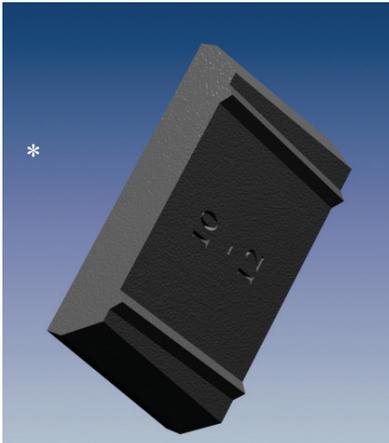
Restraint for Ductile Iron Pipe or C900 PVC Pipe at Mechanical Joint Fittings



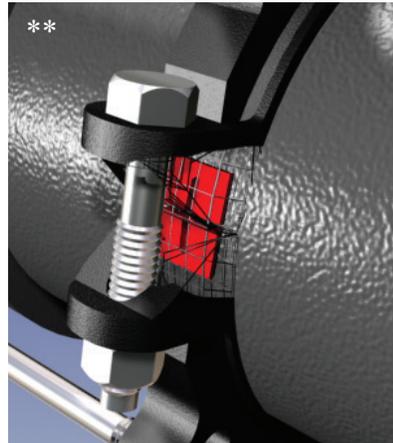
Series 15MJG06GTD restraining both ductile iron pipe and C900 PVC pipe at a M.J. fitting with an M.J. gland.

Features and Applications:

- Restraint for Ductile Iron Pipe at ductile iron fittings, meeting ANSI/AWWA C151/A21.51 and ANSI/AWWA C150/A21.50
 - Restraint for AWWA C900 PVC Pipe at ductile iron fittings
 - Minimum 2 to 1 Safety Factor
 - **MEGA-BOND®** Restraint Coating System
For more on MEGA-BOND refer to www.ebaa.com
 - Constructed of ASTM A536 Ductile Iron
 - MJ gland is supplied
- For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600, C605, or ASTM D2774.



*Tru-Dual Inserts are heat treated for hardness to ensure proper restraint on ductile iron pipe.



**Two inserts are located near the clamp points on each half of the split serrated ring. This design provides maximum restraint on both ductile iron pipe and C900 PVC pipe enabling the product to be truly Tru-Dual.

Sample Specification

Restraint for mechanical joints on AWWA C900 PVC pipe and Ductile Iron pipe systems shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. Side clamp bolts shall be of SAE J429 Grade 5 material. A split, serrated ring, with a sufficient number of heat treated Tru-Dual inserts for gripping both Ductile Iron Pipe and PVC pipe, shall be utilized to grip the pipe in conjunction with a sufficient number of bolts connecting the serrated restraint to the joint. The restraint devices shall be coated using MEGA-BOND®. (For complete specifications on MEGA-BOND visit www.ebaa.com.) The restraint for mechanical joint fittings with mechanical joint glands shall be the Tru-Dual Series 15MJG00TD, both as manufactured by EBAA Iron, Inc., or approved equal.

All EBAA restraint 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	Approx. Weight	Pressure Ratings PSI			
			D.I. Pipe	C900 PVC Pipe		
			DIP	DR14 Class 200	DR18 Class 150	DR25 Class 100
4	15MJG04TD	9.64	350	200	150	100
6	15MJG06TD	12.7	350	200	150	100
8	15MJG08TD	16.7	250	200	150	100
10	15MJG10TD	33.0	250	200	150	100
12	15MJG12TD	35.0	250	200	150	100

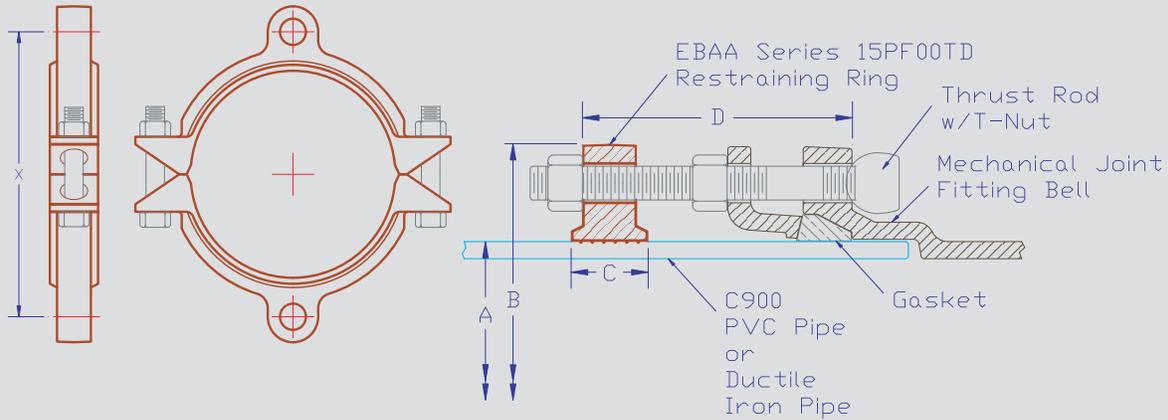
NOTE: For applications or pressures not shown, please contact EBAA. De-rate pressure if not all connecting rods were used.

Series 15MJG00TD Submittal Reference Drawing

EBAA IRON

15MJG00TD Mechanical Joint Fitting

MADE IN USA



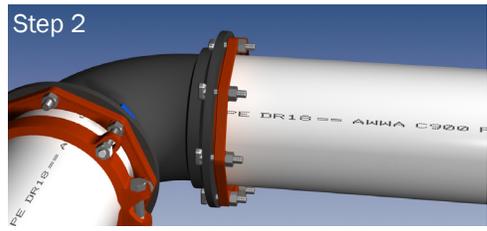
Nominal Pipe Size	Series Number	A Pipe O.D.	B Max Restraint O.D. (Casing Clearance)	C Restrainer Ring Width	D Restrainer Ring Location	T-Bolt Qty. and Size	Thrust Bolt Qty. and Size	X Thrust Bolt Circle (Min. - Max.)
4	15MJG04TD	4.80	9.25	1.25	6	2 - 3/4 x 3.50	2 - 3/4 x 8	7.5
6	15MJG06TD	6.90	11.25	1.63	6	4 - 3/4 x 3.50	2 - 3/4 x 8	9.5
8	15MJG08TD	9.05	14.75	1.63	6	4 - 3/4 x 4.00	2 - 3/4 x 9	11.32 - 13.00
10	15MJG10TD	11.10	16.85	2.15	6	4 - 3/4 x 4.00	4 - 3/4 x 9	13.48 - 14.94
12	15MJG12TD	13.10	19.45	2.15	6	4 - 3/4 x 4.00	4 - 3/4 x 9	15.94 - 17.66

NOTE: Dimensions are in inches and are subject to change without notice.
*Derate pressure if not all connecting bolts were used.

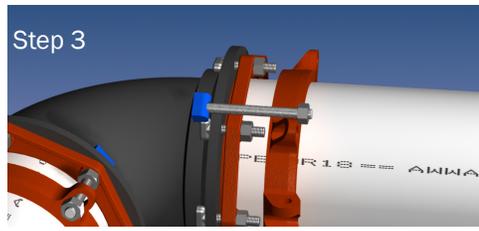
Installation Instructions

for both C900 PVC Pipe and Ductile Iron Pipe

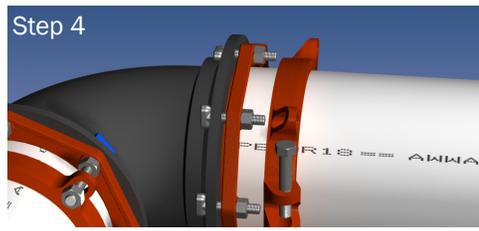
1. Identify the pipe. The Series 15MJG00TD is designed for restraining C900 PVC and Ductile Iron pipe at ductile iron Mechanical Joint (MJ) fittings with MJ glands. The restraint is a split, serrated ring installed behind the MJ gland. The 15MJG00TD utilizes Rods with T-nuts in lieu of the standard MJ t-Bolt lengths to facilitate the restraint position.



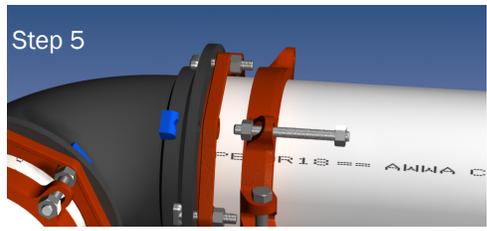
2. Set aside the split restraint and longer bolts and install the MJ gland per AWWA C600. The bolt torques for 4 inch through 12 is 75-90 ft-lbs. The use of a torque-indicating wrench will facilitate the procedure.



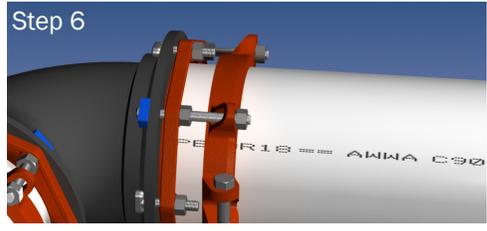
3. Using a longer bolt as a gauge, place one half of the restraint onto the pipe so the bolt holes of the restraint and the MJ gland align. Allow enough room on the longer bolts to fully engage the nuts with several threads showing.



4. Install the second half of the restraint to align with the first. Tapping each half into place may be necessary. Before installing the side bolts double check the position by using the longer bolts as gauges. Make sure the ID of the restraint is touching the pipe. Side bolts are to be evenly tightened to 110 ft-lbs of torque (60 ft-lbs on 4 inch and 6 inch). A torque indicating wrench will help facilitate this.



5. Each of the longer bolts should have two nuts: one to tighten against the MJ gland and one to snug up against the restraint ring with a few threads showing. One at a time, remove a shorter bolt that aligns with the restraint bolt hole and replace with the longer bolt, remembering to "run" one nut up to engage against the MJ gland. This nut should be to the same torque as the original one removed (see step 2 for torque values). Do this for all remaining bolts holes of the restraint.



6. Once all bolts are in place and the MJ gland nuts have been retightened to torque, put the remaining nuts on the bolt behind the restraint. Hand tighten the nuts behind the restraint. Do not over tighten the nuts behind the restraint to move the plain-end of the pipe further into the joint.



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