

Series 15MJG06 restraining a mechanical joint fitting with a mechanical joint gland.

### Features and Applications:

- For restraining AWWA C900 PVC pipe systems using mechanical joint fittings and mechanical joint gland
- **MEGA-BOND®** Coating System  
For more information on MEGA-BOND, visit our website at [www.ebaa.com](http://www.ebaa.com)
- Minimum 2 to 1 Safety Factor
- Split design for ease of installation
- Constructed of 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.

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

Nominal Pipe Size	Series Number	Approximate Shipping Weight	Pressure Ratings (PSI)		
			DR14 Class 200	DR18 Class 150	DR25 Class 100
4	15MJG04	7.6	200	150	100
6	15MJG06	10.6	200	150	100
8	15MJG08	13.8	200	150	100
10	15MJG10	27.2	200	150	100
12	15MJG12	29.9	200	150	100

NOTE: For applications or pressures other than those shown, please contact EBAA for assistance.  
Derate pressure rating if not all connecting bolts were used.



Restraint Ring Tooth Impressions on PVC Pipe.

### Sample Specification

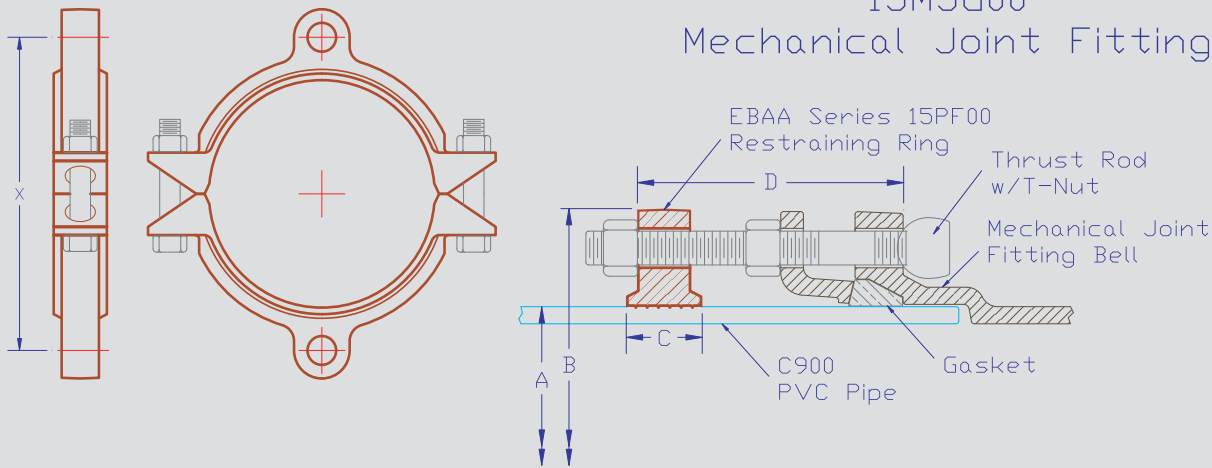
Restraint for mechanical joints utilizing AWWA C900 PVC pipe systems shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. Side clamp bolts shall be of SAE J429 Grade 5 material. A split serrated ring shall be used to grip the pipe in conjunction with a sufficient number of bolts connecting the serrated restraint to the joint. The combination shall have a pressure rating as mentioned in the most current product brochure. The restraint devices shall be coated with MEGA-BOND. (For complete specifications on MEGA-BOND visit [www.ebaa.com](http://www.ebaa.com).) The restraint for mechanical joint fittings shall be the Series 15MJG00, both as manufactured by EBAA Iron, Inc., or an approved equal.

# Series 15MJG00 Submittal Reference Drawing

EBAA IRON

MADE IN USA

## 15MJG00 Mechanical Joint Fitting



Nominal Pipe Size	Series Number	A Pipe O.D.	B Max Restraint O.D. (Casing Clearance)	C Restraining Ring Width	D Restraining Ring Location	T-Bolt Qty. and Size	* Thrust Bolt Qty. and Size	X Thrust Bolt Circle (Min. - Max.)
4	15MJG04	4.80	9.25	1.25	6	2 - 3/4 x 3.50	2 - 3/4 x 8	7.5
6	15MJG06	6.90	11.25	1.63	6	4 - 3/4 x 3.50	2 - 3/4 x 8	9.5
8	15MJG08	9.05	14.75	1.63	6	4 - 3/4 x 4.00	2 - 3/4 x 9	11.32 - 13.00
10	15MJG10	11.10	16.85	2.15	6	4 - 3/4 x 4.00	4 - 3/4 x 9	13.48 - 14.94
12	15MJG12	13.10	19.45	2.15	6	4 - 3/4 x 4.00	4 - 3/4 x 9	15.94 - 17.66

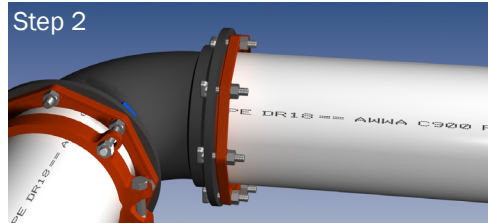
NOTE: Dimensions are in inches and are subject to change without notice.

\*Derate pressure if not all connecting bolts were used.

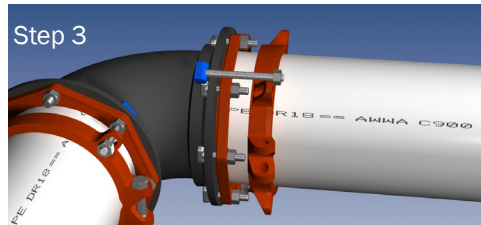
## Installation Instructions

for both C900 PVC Pipe and Ductile Iron Pipe

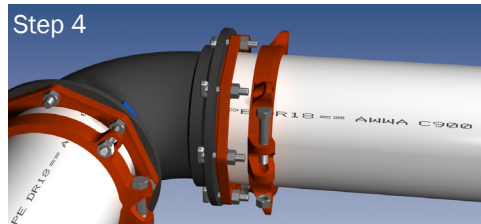
1. Identify the pipe. The Series 15MJG00 is designed for restraining C900 PVC pipe at ductile iron Mechanical Joint (MJ) fittings with MJ glands. The restraint is a split, serrated ring installed behind the MJ gland. The 15MJG00 utilizes Rods with T-nuts in lieu of the standard MJ t-Bolt lengths to facilitate the restraint position.



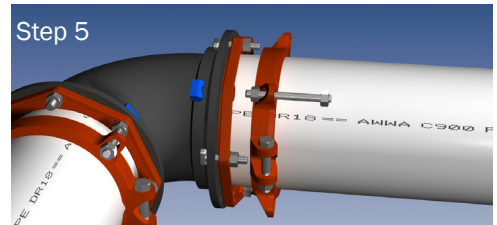
2. Set aside the split restraint and longer bolts and install the MJ gland per AWWA C600. The bolt torques for 4 inch through 12 is 75-90 ft-lbs. The use of a torque-indicating wrench will facilitate the procedure



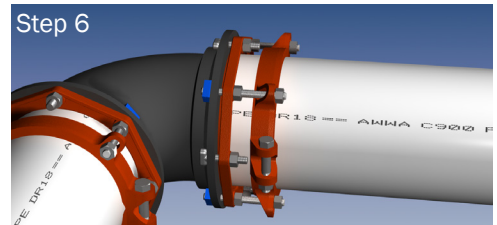
3. Using a longer bolt as a gauge, place one half of the restraint onto the pipe so the bolt holes of the restraint and the MJ gland align. Allow enough room on the longer bolts to fully engage the nuts with several threads showing.



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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