Series 2000SV

Restraint for Existing ANSI/AWWA C900-07 PVC Pipe at Mechanical Joint Fittings

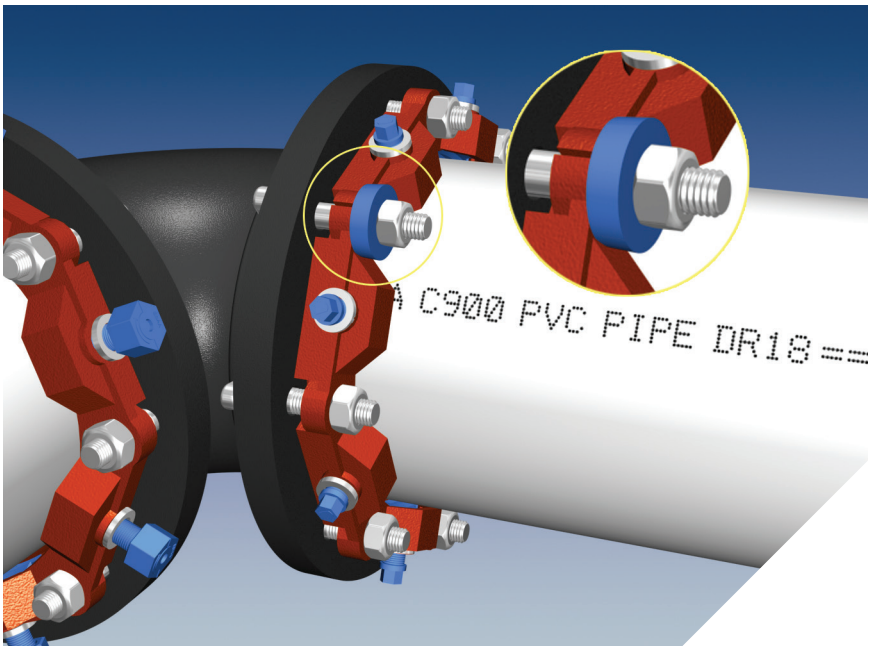


Image depicts Series 2010SV on 10 inch AWWA C900 PVC pipe.

Features and Applications:

- Sizes 3 inch through 12 inch
- Constructed of ASTM A536 Ductile Iron
- MEGA-BOND® Restraint Coating System For more on MEGA-BOND refer to www.ebaa.com
- The mechanical joint follower gland is incorporated into the restraint
- Split design for ease of installation at existing mechanical joints
- All 2000SV's are furnished as packaged accessories complete with appropriate restraint, gasket, lubrication and fastening hardware

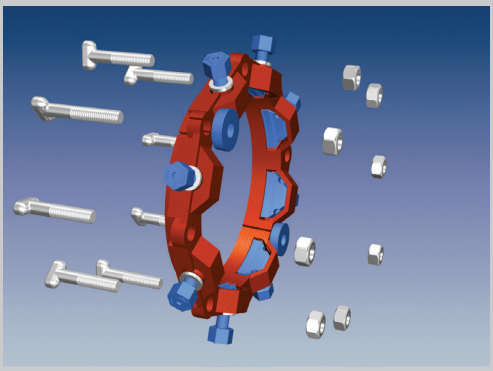
For use on water and waste water pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600, C605, or ASTM D2774.

Nominal Pipe Size	Series Number	Shipping Weights	Pressure Ratings (PSI) DR18	DR25
3	2003SV	10.7	150	100
4	2004SV	13.5	150	100
6	2006SV	19.4	150	100
8	2008SV	27.4	150	100
10	2010SV	32.5	150	100
12	2012SV	38.6	150	100

NOTE: For applications or pressure other than the ones shown, please contact EBAA.

For Larger Pipe Size Applications

Series 1100SV
Available in sizes 14 inch through 30 inch for C900-10 PVC Pipe

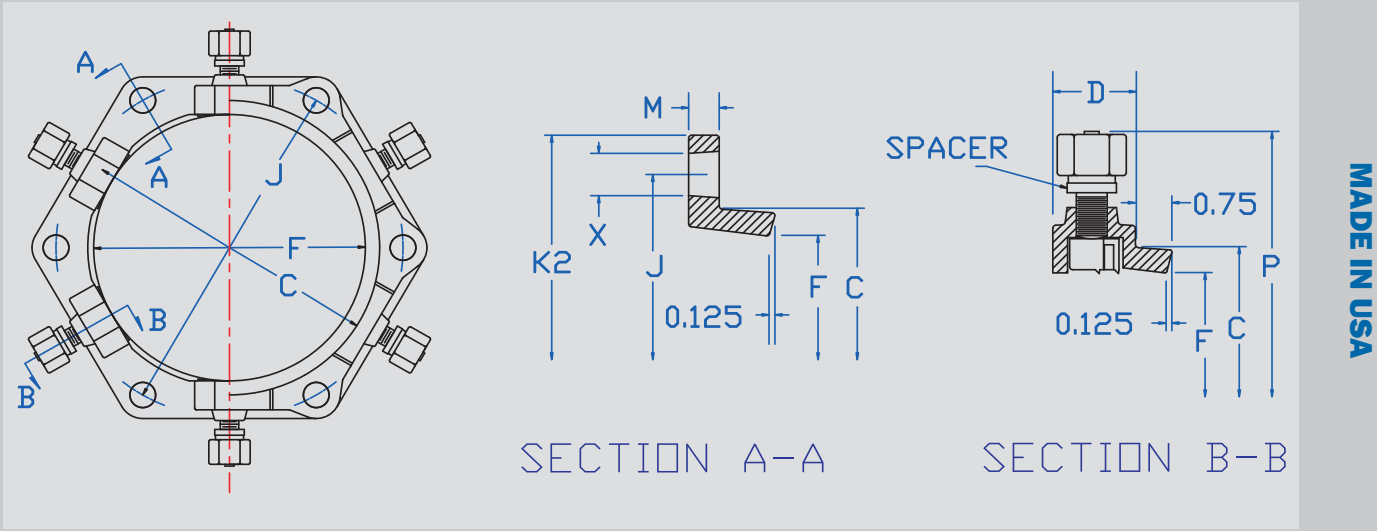


Sample Specification

Restraint for existing AWWA PVC pipe at existing mechanical joints, shall consist of the following: The Restraint Ring shall be split to ease installation on existing pipe systems, manufactured of ductile iron conforming to ASTM A536, and incorporate a plurality of individually actuating gripping surfaces to grip the pipe. The Restraint Ring shall be coated using MEGA-BOND® Restraint Coating System (MEGA-BOND specifications can be found at ebaa.com). The restraint system shall have a sufficient number of fastening bolts to connect the ring to the mechanical joint. The restraint shall have a minimum working pressure of the following: AWWA DR18 PVC pipe, 150 PSI; AWWA DR25 PVC pipe, 100 PSI. The restraint shall be the Series 2000SV as manufactured by EBAA Iron, Inc. or approved equal.

Series 2000SV Submittal Reference Drawing

EBAA IRON



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Nominal Pipe Size	Series Number	C	D	F	M	P	P*	X	J	K2	Wedge Qty	Bolt Qty	Weight (lbs.)
3	2003SV	4.84	1.55	3.60	0.50	9.8	8.6	¾	6.19	7.69	4	4	7.0
4	2004SV	5.92	1.68	4.90	0.50	10.5	9.5	⅞	7.50	9.13	4	4	8.8
6	2006SV	8.02	1.68	7.00	0.50	13.0	12.1	⅞	9.50	11.13	6	6	12.1
8	2008SV	10.17	1.68	9.15	0.62	14.5	13.6	⅞	11.75	13.38	6	6	16.3
10	2010SV	12.22	2.10	11.20	0.62	17.0	16.0	⅞	14.00	15.63	8	8	26.0
12	2012SV	14.32	2.10	13.30	0.75	19.0	18.1	⅞	16.25	17.88	8	8	31.4

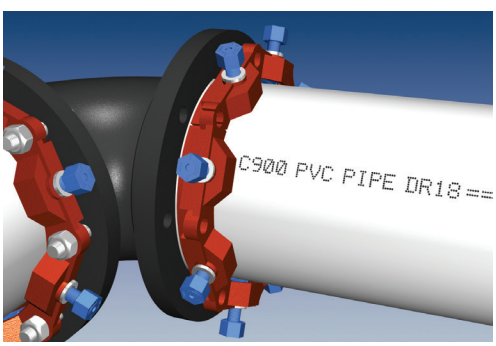
NOTE: Dimensions are in inches and are subject to change without notice.
*With Twist-Off Nuts twisted off.

Installation Instructions

The EBAA Iron Series 2000SV is designed for restraining existing PVC pipe at mechanical joint fittings or other appurtenances. (This product is not intended for use as a restraining anchor in the mid span of a pipe.)

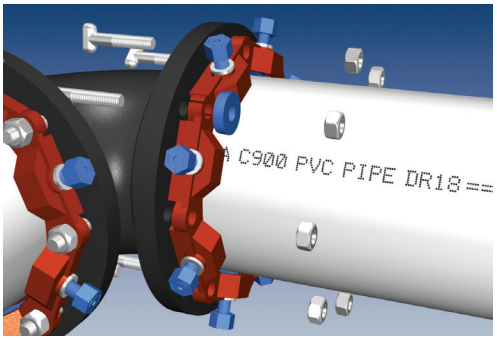
1. Identify the pipe. The 2000SV is for use with PVC pipe. The 4 inch through 12 inch size may be used on C900-07, and IPS PVC pipe. Check to see if the spacers under the screws are in place. If the pipe is C900-07 or is ductile iron O.D., proceed with spacers in place. If the pipe is IPS O.D., remove the spacers. Since 3 inch restraints are only used with one pipe diameter, no spacers are used.

2. Clean and clear the existing joint. Replace the existing gasket with a field cut gasket if necessary. Lubrication and additional cleaning should be provided by brushing the gasket and the plain end with soapy water or an approved pipe lubricant meeting the requirements of ANSI/AWWA C111/A21.11.

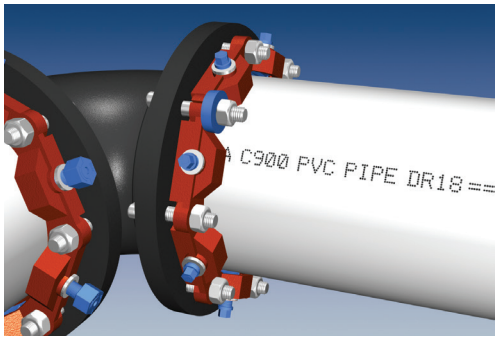


3. Remove the clamps from the split gland. Loosely assemble the halves on the pipe by installing the T-bolts. Hand tighten everywhere except at each split.

4. Assemble each clamp so that the angled surfaces of the clamp mate with the angled surfaces on each side of the split. Insert the long T-bolts (provided) through the clamps and hand tighten.



5. Tighten the T-bolts. Tighten the bolts to the normal rang of bolt torque [45-60 ft-lbs for 3 inch and 75-90 ft-lbs for 4 inch through 12 inch] 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, next bolt 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 indicating wrench will facilitate this procedure.



6. Tighten the torque limiting twist off nuts in a clockwise direction (direction indicated by arrow on top of nut) until all wedges are in firm contact with the pipe surface. Continue tightening in an alternate manner until all of the nuts have twisted off.

7. If reassembly is required, assemble the joint in the same manner as above; tighten the wedge bolts to 70 ft-lbs.

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