



# Series 2004TDM

Tandem Mechanical Joint Restraint for C900 PVC at Mechanical Joint Fittings

## Installation Instructions

1. Identify the pipe. The 4 inch through 54 inch restraint sizes may be used on C900-16 PVC (or later), and the 4 inch through 12 inch sizes may be used on IPS PVC, or C906 HDPE pipe. Check to see if the spacers under the restraint's Twist-Off Nuts are in place. If the pipe is C900 or is ductile iron O.D., proceed with spacers in place. If the pipe is IPS O.D., remove the spacers. Sizes 3 inch and 14 inch through 24 inch restraints will not use spacers.
2. Clean the mechanical joint socket and the plain end of the pipe. Lubrication should be liberally applied by brushing both the gasket and plain end with an approved pipe lubricant meeting the requirements of ANSI/AWWA C111/A12.11 just prior to slipping the gasket onto the pipe for joint assembly. Place the restraint gland on the pipe with the lip extension toward the plain end. The 2000TDM series has two mechanical joint restraint glands, place both onto the pipe with the lip extensions towards the plain end in series of each other followed by the gasket with the narrow edge of the gasket toward the plain end. The gasket provided may be the EBAA-Seal™ Improved Mechanical Joint Gasket. This gasket is bi-directional and has no front or back. The use of a pipe wall stiffening insert is required on High Density Polyethylene (HDPE) pipe.  
  
NOTE: In cold weather it is preferable to warm the gasket to facilitate assembly of the joint.
3. Insert the pipe into the mechanical joint socket and press the gasket firmly and evenly into the gasket recess. Keep the joint straight during assembly.
4. Push the restraint glands towards 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.
5. Tighten the bolts in a star pattern to the normal range of bolt torque (45-60 ft-lbs. for 3 inch, 75-90 ft-lbs. for 4 inch through 24 inch, 100-120 ft-lbs. for 30-inch and 36-inch, and 120-150 ft-lbs. for 42-inch and 48-inch.). At all times maintain 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. In large sizes (30-48 inch), five or more repetitions may be required. The use of a torque-indicating wrench will facilitate the procedure.
6. Utilize a star pattern and tighten the torque limiting twist-off nuts in a clockwise direction (direction indicated by the arrow on the top of the nut) until all wedges are in firm contact with the pipe surface. Continue tightening in an alternating manner until all of the nuts have been twisted off.
7. If removal is necessary, utilize the 5/8 inch hex heads provided. If reassembly is required, assemble the joint in the same manner as above; tighten the screws to 60 to 80 ft-lbs. If the Series 2000PV restraint is removed from the pipe, be sure that all of the screws, spacers (if required), and wedges are in place before the restraint is reassembled.

NOTE: Steps 2-5 are requirements of AWWA C600.

APPROXIMATE SHIPPING WEIGHT: 23.14 lbs.



## CONTENTS

Qty.	Description
2	4 inch 2000PV MEGALUG® Restraint
1	4 inch EBAA-SEAL® Gasket
4	3/4 in. by 7 in. Heavy Hex Bolt w/T-Nut
1	Gasket Lubricant Packets

## Restraints Made in The USA

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

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