



Pipe Restrainers series 1100G2

1100G2C Bell Restrainers for AWWA CI OD C900/C909 PVC/PVCO and Ductile Iron Pipe Joints (Formerly Series 9100)
Sizes 4" - 12"

4"-12" SERIES 1100G2 INSTALLATION INSTRUCTIONS



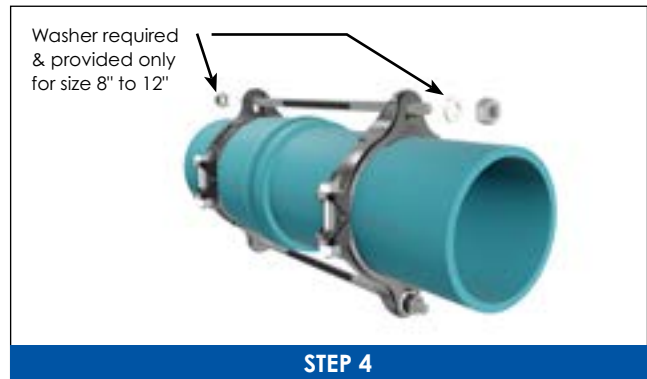
Assemble the spigot end of first pipe into the second pipe's bell per the pipe manufacturer's instructions.



Assemble one restrainer behind the bell of pipe. Make sure that the open end of the restrainer ears are toward the joint. Evenly tighten the restrainer clamping bolts to the recommended torque shown below, ensuring the gap between pads on both sides remain even. Use one of the restraint rods as a guide to position the restraint on spigot end. Mark a reference line such that the restraint rod ends extend past each nut approximately 1/2". **NOTE: The length of the PVC pipe bell varies from manufacturer to manufacturer. Please contact Star Pipe Products if rod length is too short.**



Assemble the second restrainer on the spigot end of pipe. Make sure that the open end of the restrainer ears are toward the joint. After aligning the second restrainer with the first one, tighten the clamping bolts to recommended torque evenly such that the gap between pads on both sides remain even.



Insert the restraining rods through the restrainer ears. Place a washer (Provided and required only for sizes 8"-12") on each end of restrainer ear as shown. Snug tighten all nuts such that rods stick out approximately 0.50" past the nut on each end. **Caution: Do not over-tighten restraining nuts. Turn nut to hand tight plus half turn.**

CLAMPING BOLTS TORQUE (MINIMUM)		
PIPE SIZE (IN)	C900/C909 (FT-LBS)	DI PIPE (FT-LBS)
4-10	100	110
12	130	130

STAR® PIPE PRODUCTS



Pipe Restrainers series 1200G2

1200G2C Restrainers for C900/C909 PVC/PVCO Pipe and PVC Pressure Fittings w/Ductile Iron Pipe OD (Formerly Series 9200)
Sizes 4" - 12"

4" - 12" SERIES 1200G2 INSTALLATION INSTRUCTIONS



STEP 1

Insert the pipe into fitting bell per fitting manufacturer's instructions.



STEP 2

Assemble harness behind the bell of fitting using clamping bolts and nuts supplied. Evenly tighten to recommended torque.



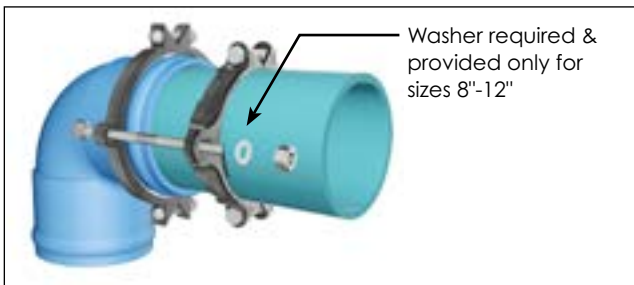
STEP 3

Using one of the T-bolts / rods (provided) mark a reference line such that the T-bolt / rod end extends past the nut by approximately 1/2".



STEP 4

Make sure the open end of the restrainer ears are toward the joint. Tighten serrated restrainer clamp bolts evenly to recommended torque making sure the gap between bolt pads on both sides remain even.



STEP 5

Insert the T-bolts / rods (provided) through harness and restrainer as shown. Place a washer (Provided and required only for sizes 8" to 12") on each end of rod behind the restrainer ears. Snug tighten the nuts so that the spigot end is secured into the bell end. **Caution: Do not over - tighten restraining nuts. Turn nut to hand tight plus half turn.**

CLAMP BOLT TORQUE (MINIMUM)	
PIPE SIZE (IN)	C900/C909 (FT-LBS)
4-10	100
12	130

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