STAR® PIPE PRODUCTS

Joint Restraint Products

Pipe Restrainers series 1100

1100C Bell Restrainers for AWWA C900 PVC Pipe and 1100S Bell Joint for IPS PVC Pipe

4" - 12" SERIES 1100 INSTALLATION INSTRUCTIONS



Assemble the spigot end of first pipe into the second pipe bell using standard procedure per pipe manufacturer.



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.



Assemble one restrainer behind the bell of pipe. Evenly tighten the restrainer clamping bolts to the recommended torque, ensuring the gap between pads on both sides remain even. Use one of the Restraint rods as a guide to position Restraint on spigot end. Mark a reference line such that the Restraint rod ends extend past each nut approximately 0.50".

NOTE: Due to variability of PVC Pipe bell lengths, please contact Star Pipe Products if rod lengths are short.



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

RECOMMENDED TORQUE (CLAMPING BOLTS)		
PIPE SIZE	RANGE OF TORQUE	
(IN)	(FT-LBS)	
4"-12"	90-110	

14" - 48" SERIES 1100 INSTALLATION INSTRUCTIONS

STEP 2



Assemble the spigot end of first pipe into the pipe bell using standard procedure per pipe manufacturer.



Insert the restraining rods through the restrainers as shown. Snug tighten the remaining nuts behind each restraint so that the spigot end is secured into the bell end.

Caution: Do not over-tighten the restrainer nuts. Turn nut to hand tight plus half turn.

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(TABLE B) CLAMPING BOLTS RECOMMENDED TORQU		
PIPE SIZE	RANGE OF TORQUE	
(IN)	(FT-LBS)	
4-12	90-110	
14-36	130 min.	
42-48	300-350	

® REGISTERED TRADEMARK OF STAR PIPE PRODUCTS

and towards the end of the spigot that allows sufficient room for threads on the rod ends to

fully engage nuts (provided). Full engagement

occurs when there are at least two threads

showing past the nut on the rod.