

MG COUPLING

The cast iron coupling for joining the hubless cast iron sanitary system.

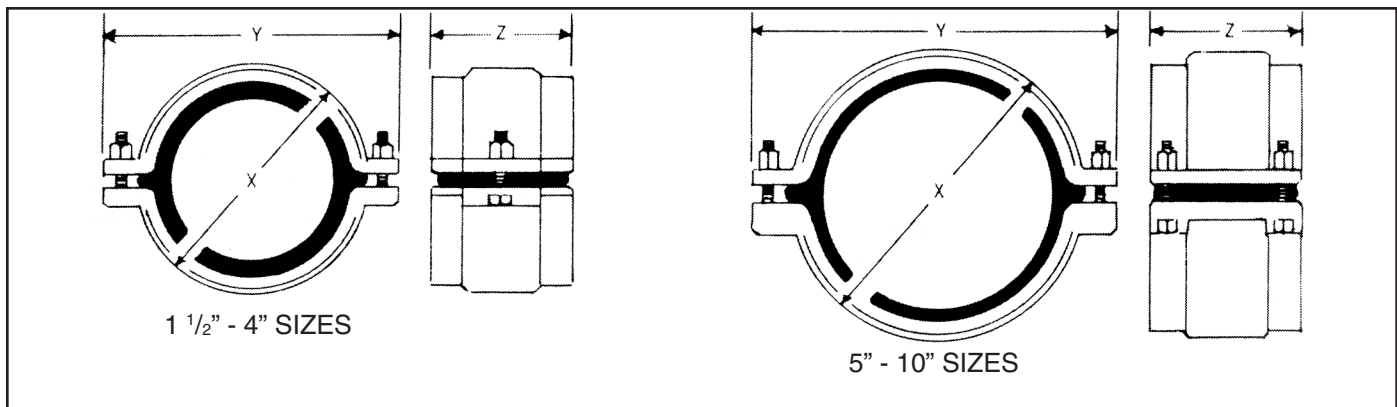


The MG COUPLING is designed to provide maximum joint strength and corrosion resistance in both above grade and below grade hubless cast iron sanitary systems. The MG COUPLING joint strength is derived from tightening the stainless steel nuts and bolts to 175 inch pounds torque. This uniform and precise joint strength allows the system to be supported in the same manner as lead and oakum hub and spigot pipe.

Laboratory tests have shown the MG COUPLING to be equal to and better than the corrosion resistance of the cast iron pipe it joins and superior in this respect to other pipe joints being used in underground systems.

MATERIAL SPECIFICATIONS

- Housing** Cast Iron (ASTM A-48/A-48M)
- Gasket** Neoprene (ASTM C-564)
- Bolts** 18-8 Stainless Steel (ANSI B18.2.1)
- Nuts** 18-8 Stainless Steel (ANSI B18.2.2)
- Manufactured to meet ASTM A-1056 Standards**



NOMINAL SIZE-INCHES		COUPLING DIMENSIONS-INCHES			BOLT DIMENSIONS-INCHES		Weight Each lbs.
Coupling Size	Pipe Diameter	Height X	Width Y	Depth Z	No.	Size x Length	
1 1/2"	1.90 ± .06	2 7/8	4 1/2	2 1/8	2	3/8 X 1 1/2	1.6
2"	2.35 ± .09	3 3/8	4 7/8	2 1/8	2	3/8 X 1 1/2	1.8
2 x 1 1/2"	2.35 ± .09	3 3/8	4 7/8	2 1/8	2	3/8 X 1 1/2	1.8
3"	3.35 ± .09	4 1/4	6	2 1/8	2	3/8 X 1 1/2	2.3
4"	4.38 ± .09	5 1/4	7	2 1/8	2	3/8 X 1 1/2	3.1
5"	5.30 ± .09	6 1/4	8 5/8	3 1/8	4	3/8 X 1 1/2	5.7
6"	6.30 ± .09	7 1/2	9 1/4	3 1/8	4	3/8 X 1 1/2	7.2
8"	8.38 ± .13	9 1/2	11 3/4	4	4	3/8 X 2	14.1
10"	10.56 ± .09	11 13/16	14 1/3	4	4	3/8 X 2 1/4	18.3

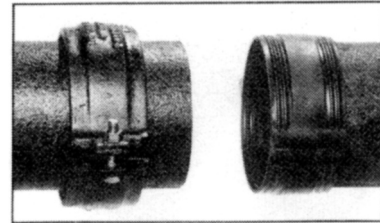


MG Piping Products Co.

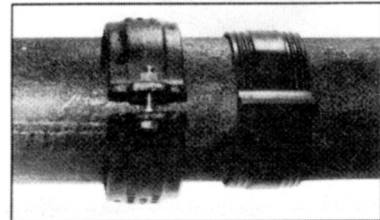
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INSTALLATION**PROCEDURES FOR MG COUPLING JOINT**

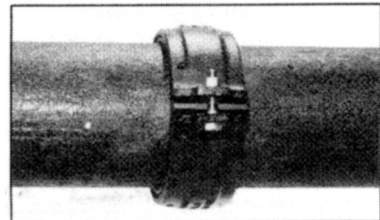
1. Place neoprene gasket on the end of one pipe and the clamp assembly on the end of the other pipe. (picture 1)
2. Fit both hubless pipe ends into neoprene gasket, firmly butting them against the internal center rib or shoulder between them. Make certain that the pipe and/or fittings to be joined are in proper alignment and that necessary support is available to maintain that alignment during installation. (picture 2)
3. Pull the loose clamp assembly over the gasket so that the gasket is completely covered, keeping the bolting flanges evenly separated. (picture 3)
4. Tighten nuts alternately and gradually to 175 inch pounds torque. (picture 4)
Use an accurate torque wrench.
5. When hubless pipe and fittings of standard (CISPI) dimensions and tolerances are used, the clamp bolting flanges at both ends of the MG COUPLING should be separated from each other by 1/16" to 3/16" after 175 inch pounds torque has been applied.
 - A. If the gasket leaks at the ears, it may be due to the outside diameter of the pipe or fittings exceeding the maximum dimension and tolerance allowed by the Cast iron Soil Pipe Institute specifications. A coating of gasket lubricant applied to the outside of the gasket and the inside of the casting may help the gasket seat properly. (insure that Step #4 above is followed carefully) If the leak continues, the outside diameter of the pipe or fittings should be measured to see if they meet CISPI specifications.
 - B. When installing MG COUPLINGS at 40°F and colder, it is recommended that the gasket be warmed to make it more flexible. A coating of gasket lubricant may be applied to the outside of the gasket and the inside of the cast iron housing to help the gasket seat properly. (Insure that Step #4 above is followed carefully)
6. In order to provide a sound joint with field cut lengths of pipe, the ends should be cut square. To minimize friction during fastening and thereby obtain maximum clamping force or holding power, pipe and surfaces that receive the gasket should be clean, clamp assembly alignment maintained, and fastener threads kept clean of dirt.



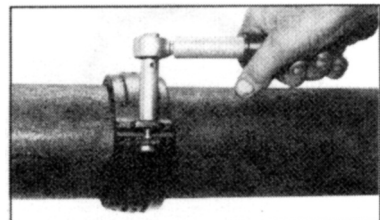
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HANGERS AND SUPPORTS

Hanger and support requirements for hubless cast iron pipe joined by the MG COUPLING shall be the same as that normally provided for corresponding lead and oakum hub (bell) and spigot cast iron pipe installations.

A. VERTICAL PIPING

Where MG COUPLING joints occur, the cast iron soil pipe shall be supported at not less than every story height and at its base.

B. HORIZONTAL PIPING

Where MG COUPLING joints occur, suspended cast iron soil pipe shall be supported at not more than five (5) foot intervals; except that pipe exceeding five (5) feet in length, may be supported at not more than ten (10) foot intervals. Supports shall be adequate to maintain alignment and prevent sagging and shall be placed within eighteen (18) inches of the coupling joints. For multi story testing, horizontal systems should be braced at all changes of direction, bends, and ends of runs to prevent movement.