

BEXAR METROPOLITAN WATER DISTRICT MATERIALS SPECIFICATIONS

Section 008 Fitting Ductile Iron Coupling

008.1 Scope of Work/Description

This specification covers ductile iron couplings for use in connection of smooth end joints of cast iron, ductile iron, asbestos cement, steel or other types of pipe.

008.2 General Requirements

1. Sleeve or center ring shall be of nominal O.D. size, range and length specified. Sleeve shall be of Ductile Iron ASTM A536. Ends shall have a smooth inside taper to provide uniform gasket seal. Sleeve shall be given a shop coat of oil-modified urethane, corrosion-resistant paint.
2. Follower flanges or end rings shall be of the thickness determined by the coupling size, and shall be of ductile iron, ASTM-536. Flanges shall be identified by a color coded shop coat finish as described in Item 2a.
3. Gaskets shall be compression-type, formed with Virgin Styrene Budadiene Rubber (SBR), ASTM D2000 3 BA715, compounded with ingredients to produce permanence and resistance to set after installation. O.D. range shall be imprinted on the gasket in permanent ink (minimum).
4. Bolts and nuts shall be of high-strength, low-alloy steel, with nominal coarse thread, and hex nuts with black finish. Dimensions and minimum stress values shall be in accordance with AWWA/ANSI C111/A21.11.
5. Where specification states a cast transition or reducing coupling in place of a straight coupling, the sleeve and follower flange shall be of the same manufacturer and compatible for the specific use intended.
6. Quality control procedures shall be employed to insure that the sleeve, follower flanges, and gaskets are properly fabricated and free of any visible defects. Each coupling shall have a working-pressure rating not less than the following:

Minimum Working Pressure	
Pipe Size (inches)	Rating (psi)
16 and smaller	175
20	150

24	150
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008.3 Straight Coupling Ranges

Nominal Dia. x Min. Length	O.D. Range
4" x 6"	A. 4.80" - 5.10"
6" x 6"	A. 6.90" - 7.22"
8" x 6"	A. 9.05" - 9.45"
10" x 6"	A. 11.10" - 11.60"
12" x 6"	A. 13.20" - 13.50"
	B. 13.78" - 14.38"
16" x 6"	A. 17.40" - 17.80"
	B. 18.46" - 19.00"
20" 7"	A. 21.35" - 21.75"
	B. 21.75" - 22.25"
24" 10"	A. 25.00" - 25.80"
	B. 26.10" - 26.32"

BMWD may, at not cost to the manufacturer, subject random couplings to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting the entire order.

The attached qualified products list identifies specific manufactured items by catalog number that are approved.

*Ranges may be broadened, but not narrowed.

008.4 Approved Manufacturers and Models

Manufacturer	Model
Smith-Blair, Inc.	441
The Ford Meter Box Co., Inc.	FC1

END OF SECTION