

Materials Specification – 3 for DUCTILE IRON WATERWORKS FITTINGS

1. GENERAL:

Ductile iron fittings shall be manufactured in accordance with AWWA C110, or C153 as applicable with the following additional requirements or exceptions.

2. JOINT TYPE:

Fittings installed in the City and County of Denver or Total Service Areas shall be furnished with mechanical joint ends conforming AWWA C111 with tee-head bolts and hexagon nuts fabricated from a high-strength, low alloy steel known in the industry as Cor-Ten, Usalloy, or Durabolt.

Accessories for the mechanical joint consisting of the gasket, gland and fasteners shall be furnished and packaged separately from the fittings. Each package shall be labeled in such a manner as to provide for proper identification and the number of units per package or bundle.

3. PRESSURE RATING:

Ductile iron fittings, nominal size 3 inch through 24 inch shall have a pressure rating of 350 psi, and nominal size 30 inch through 42 inch shall have a pressure rating of 250 psi.

4. MATERIAL STRENGTH:

The grade of iron shall be 70-50-05.

5. LININGS AND COATINGS:

Ductile iron fittings shall be coated with an asphaltic material and lined with cement-mortar and given a seal coat of asphaltic material in accordance with AWWA C104. Ductile iron fittings may also be lined and coated with fusion-bonded epoxy in accordance with AWWA C116.

6. CERTIFICATION:

The manufacturer shall furnish a sworn statement that the inspection and all of the specified tests have been made and the results thereof comply with the requirements of the applicable Standard(s) herein specified. A copy of the Certification including compliance with NSF/ANSI 61 shall be sent to Denver Water.

7. ACCEPTABLE MANUFACTURERS:

Tyler Pipe Industries
United States Pipe and Foundry Company
Griffin Pipe Products Company
Union Foundry Company
Star Pipe Products
Sigma

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