

**SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS
SPECIFICATIONS FOR GRAY-IRON AND DUCTILE-
IRON FITTINGS
REVISED AUGUST 2004**

1. **SCOPE**

This specification covers ductile-iron fittings 3 inches through 48 inches in size designed and manufactured for use with gray-iron, ductile-iron, PVC C-900 or PVC C905 pipe. Standard, compact and anchor fittings included herein are of the following types of joints:

Flanged
Mechanical Joint

2. **GENERAL REQUIREMENTS**

- a. Except as otherwise modified or supplemented herein, the latest revision of AWWA Standard C110 for Gray-Iron and Ductile-Iron Fittings, 3 inch through 48 inch for Water and other Liquids and AWWA Standard C153 for Ductile-Iron Compact Fittings, shall govern the design, manufacture, and testing of all fittings under this specification.
- b. For 3 through 24-inch size range, the pressure rating of all fittings shall be a minimum of 250 psi. The working pressure for all fittings of size greater than 24 inches shall be a minimum of 150 psi unless a change in pressure rating is directed by purchase documents.
- c. Fittings shall be furnished with the types of end combination specified.
- d. Anchor fittings shall be furnished in size and type or length as specified.

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- e. Flanged fittings shall be faced and drilled in accordance with ANSI Specification B16.1, Class 125.

- f. The exterior of all fittings shall be provided with a petroleum asphaltic coating in accordance with the latest revision of AWWA Standard C110. The interior of flanged fittings supplied under this specification shall be either cement-mortar lined in accordance with the latest revision of AWWA Standard C104 or lined with a petroleum asphaltic material in accordance with the latest revision of AWWA Standard as specified. The interior of all other fittings supplied under this specification shall be cement-mortar lined in accordance with the latest revision of AWWA Standard C104.

- g. Fittings for 2-inch size shall be manufacturers' standard design designed in accordance with applicable design standards of AWWA C110.