Designation: A 377 – 03

Standard Index of Specifications for Ductile-Iron Pressure Pipe[1]

This standard is issued under the fixed designation A 377; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This index identifies specifications that cover ductile-iron pressure pipe suitable for carrying water and other liquids under pressure.

NOTE 1—The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

2. Method of Designation

2.1 The ASTM designation for these specifications is not sufficient to describe the particular items which a purchaser may desire; therefore, the ANSI designation for the applicable American National Standards shown in Section 3 shall be specified in the inquiry, contract, and order.

3. Reference Specifications

3.1 Ductile iron pipe furnished in accordance with this index are covered by the following American National Standards:

ANSI/AWWA C151/A21.51, Ductile-Iron Pipe, Centrifugally Cast for Water,[2,3]

3.2 Other American National Standards relating to ductile-iron pipe are the following:

ANSI/AWWA C104/A21.4, Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water,[2,3]

ANSI/AWWA C105/A21.5, Polyethylene Encasement for Ductile-Iron Pipe Systems,[2,3]

ANSI/AWWA C106/A21.50, Thickness Design of Ductile-Iron Pipe,[2,3]

ANSI/AWWA C110/A21.10, Ductile-Iron and Gray-Iron Fittings, 3 in. through 48 in. (76 mm through 1219 mm) for Water,[2,3]

ANSI/AWWA C111/A21.11, Rubber–Gasket Joints for Ductile-Iron Pressure Pipe and Fittings,[2,3]

ANSI/AWWA C115/A21.15, Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges,[2,3]

ANSI/AWWA C116/A21.16, Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior Surfaces of Ductile-Iron and Gray-Iron Fittings for Water Supply Service,[2,3]

ANSI/AWWA C153/A21.53, Ductile Iron Compact Fittings for Water Service,[2,3]

ANSI/AWWA C600, Installation of Ductile-Iron Water Mains and Their Appurtenances, and[2,3]

ANSI/AWWA C606, Grooved and Shouldered Joints,[2,3]

NOTE 2—These specifications were prepared by appropriate subcommittees of American Water Works Association Committee A21 on Ductile Iron Pipe and Fittings. This committee was originally organized as an American National Standards Committee under the sponsorship of ASTM, American Gas Association (A.G.A), American Water Works Association (AWWA), and New England Water Works Association (NEWWA). The current sponsor is AWWA and the present scope of Committee A21 activity is to develop standards and manuals for ductile-iron and gray-iron fittings for use with such pipe. After these specifications were approved by Committee A21, they were approved as national standards by ANSI.

NOTE 3—The pipes described in these specifications have been designed for trench conditions and internal working pressures in accordance with the method developed by ANSI Standards Committee A21. These methods are described in ANSI/AWWA C150/A21.50, Thickness Design of Ductile-Iron Pipe.

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[1] This index is under the jurisdiction of ASTM Committee A04 on Iron Castings and is the direct responsibility of Subcommittee A04.12 on Pipes and Tubes.

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[2] Available from the American National Standards Institute, 25 W. 43rd St., 4th Floor, New York, NY 10036.

[3] Available from American Water Works Assoc., 6666 W. Quincy Ave., Denver, CO 80235.

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