

ANSI A21.12-1971
(AWWA C112-71)

Revision of
A21.12-1965
(AWWA C112-65)

REAFFIRMED

AMERICAN NATIONAL STANDARD

for

2-in. AND 2¼-in. CAST-IRON PIPE, CENTRIFUGALLY CAST, FOR WATER OR OTHER LIQUIDS

PUBLISHED BY AMERICAN WATER WORKS ASSOCIATION

SPONSORS

AMERICAN GAS ASSOCIATION

AMERICAN SOCIETY FOR TESTING AND MATERIALS

AMERICAN WATER WORKS ASSOCIATION

NEW ENGLAND WATER WORKS ASSOCIATION

*Revised Edition Approved by American National Standards Institute, Inc.
Aug. 31, 1971*

AMERICAN WATER WORKS ASSOCIATION

Incorporated

2 Park Avenue, New York, N.Y. 10016



Documents

Document Sharing Hub

American National Standard

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions. Producers of goods made in conformity with an American National Standard are encouraged to state on their own responsibility in advertising, promotion material, or on tags or labels, that the goods are produced in conformity with particular American National Standards.

CAUTION NOTICE This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this standard no later than 5 yr from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, 1430 Broadway, New York, N.Y. 10018, (212) 868-1220.

© Copyright 1971 by the American Water Works Assn., Inc.
Printed in USA

Foreword

*This foreword is provided for information and is not a part of
ANSI A21.12 (AWWA C112)*

American National Standards Committee A21 on Cast-Iron Pipe and Fittings was organized in 1926 under the sponsorship of the American Gas Association, the American Society for Testing and Materials, the American Water Works Association, and the New England Water Works Association. The present scope of Committee A21 activity is

Standardization of specifications for cast-iron and ductile-iron pressure pipe for gas, water, and other liquids, and fittings for use with such pipe. These specifications to include design, dimensions, materials, coatings, linings, joints, accessories, and methods of inspection and test.

The work of Committee A21 is carried out by subcommittees. The scope of Subcommittee 1-Pipe includes

The periodic review of all current A21 standards for pipe, the preparation of revisions and new standards when needed, as well as other matters pertaining to pipe standards.

Before A21.12 (AWWA C112) was issued in 1965, existing American Standards for cast-iron water pipe covered only sizes 3 in. and larger, although 2-in. and 2½-in. pipe had been used extensively by water utilities for a number of years. Both sizes had been purchased in accordance with manufacturers' standards or, since 1959, in accordance with Federal Specification WW-P-360a.

Subcommittee 1 reviewed the 1965 edition and submitted a proposed revision to American National Standards Committee A21 in 1970.

Major Revision—Pressure Tests (Sec. 12-9)

A manufacturer's option for an air test in lieu of the hydrostatic test is added. An air test will provide an effective leak-detection test for pipe of sizes covered by this standard.

Options

This standard includes certain options that, if desired, must be specified in the invitation for bids and on the purchase order. Also, a number of items must be specified to describe completely the pipe required. The following summarizes these details and available options and lists the sections of the standard where they can be found:

1. Size, joint type, and laying length—Table 12-1.
2. Special joints—Sec. 12-3.1.
3. Certification by manufacturer—Sec. 12-4.2.
4. Inspection by purchaser—Sec. 12-5.
5. Bituminous inside coating—Sec. 12-8.3. Experience has indicated that bituminous inside coating is not complete protection against loss in pipe capacity due to tuberculation. Cement linings are recommended for most waters. As noted in Sec. 12-8.2, cement linings will be furnished unless otherwise specified.
6. Special coatings and linings—Sec. 12-8.4.
7. Written transcripts of foundry records—Sec. 12-12.