



Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use¹

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1. Scope

1.1 This specification covers black and hot-dipped galvanized welded and seamless steel pipe in sizes NPS 1/2 (Note 1) to NPS 10 inclusive, with wall thicknesses as given in Table 1 and Table 2. Pipe having other wall thicknesses may be furnished provided such pipe complies with all other requirements of this specification and the outside diameter is as given in Table 2. Pipe ordered under this specification is intended for use in fire protection systems. The pipe may be bent, but it is not intended for bending made at ambient temperature wherein the inside diameter of the bend is less than twelve times the outside diameter of the pipe being bent (Note 2).

NOTE 1—The dimensionless designator NPS (nominal pipe size) has been substituted in this standard for such traditional terms as “nominal diameter,” “size,” and “nominal size.”

NOTE 2—Successful bending of pipe is a function of equipment and technique as well as pipe properties.

1.2 This pipe is suitable for joining by the following methods:

1.2.1 *Light-Weight Fire Protection Pipe*— Rolled groove, welding, and fittings for plain end pipe. See Table 1 for dimensions.

1.2.2 *Standard-Weight Fire Protection Pipe*—Cut or rolled groove, threading, welding, and fittings for plain end pipe. See Table 2 for dimensions.

1.2.3 For pipe having dimensions other than those of Table 1 and Table 2, the joining method must be compatible with the pipe dimensions. A complete listing of standard light weight dimensions appears in ASME B36.10 and B36.19.

1.3 The following precautionary caveat pertains only to the test method portion, Sections 8, 9, and 10, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel, and Related Alloys and is the direct responsibility of Subcommittee A01.09 on Steel Pipe.

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1.4 The values stated in inch-pound units are to be regarded as the standard. The SI equivalents may be approximate.

2. Referenced Documents

2.1 ASTM Standards:

A 90 Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings²

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment³

A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products⁴

A 865 Specification for Threaded Couplings, Steel, Black or Zinc-Coated (Galvanized) Welded or Seamless, for Use in Steel Pipe Joints⁵

B 6 Specification for Zinc⁶

E 213 Practice for Ultrasonic Examination of Metal Pipe and Tubing⁷

E 309 Practice for Eddy-Current Examination of Steel Tubular Products Using Magnetic Saturation⁷

2.2 ASME Standards:

B1.20.1 Pipe Threads, General Purpose, Inch⁸

B36.10 Welded and Seamless Wrought Steel Pipe⁸

B36.19 Stainless Steel Pipe⁸

2.3 Federal Standard:

Fed. Std. No. 123 Marking for Shipments (Civil Agencies)⁹

2.4 Military Standards:

MIL-STD-129 Marking for Shipment and Storage⁹

MIL-STD-163 Steel Mill Products, Preparation for Shipment and Storage⁹

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

² Annual Book of ASTM Standards, Vol 01.06.

³ Annual Book of ASTM Standards, Vol 01.05.

⁴ Annual Book of ASTM Standards, Vol 01.03.

⁵ Annual Book of ASTM Standards, Vol 01.01.

⁶ Annual Book of ASTM Standards, Vol 02.04.

⁷ Annual Book of ASTM Standards, Vol 03.03.

⁸ Available from ASME International, Three Park Avenue, New York, NY 10016-5990.

⁹ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.