



Standard Specification for Valve Label Plates¹

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1. Scope

1.1 This specification covers the materials, dimensions, inscription, and methods of inscribing for shipboard valve label plates.

1.2 Fasteners shall be ordered separately and are not included in this specification.

1.3 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

[A240 Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications](#)

[B36/B36M Specification for Brass Plate, Sheet, Strip, and Rolled Bar](#)

[B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate \(Metric\) B0209_B0209M](#)

[B580 Specification for Anodic Oxide Coatings on Aluminum](#)

[D709 Specification for Laminated Thermosetting Materials](#)

2.2 Other Documents:

[American Bureau of Shipping Rules for Building and Classing Steel Vessels³](#)

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060, <http://www.eagle.org>.

ANSI Y14.38 Abbreviations and Acronyms for Use on Drawings and Related Documents⁴

3. Classification

3.1 Label plates shall be classified by type, grade, class, size, and letter size in accordance with material and method of inscribing, method of attachment, thickness of sheet, strip, or plate, dimensions, and letter size to be used.

3.2 Types and Materials:

3.2.1 *Type I*—Anodized aluminum, engraved.

3.2.2 *Type II*—Anodized aluminum, metal photo.

3.2.3 *Type III*—Stainless steel, engraved.

3.2.4 *Type IV*—Brass, engraved.

3.2.5 *Type V*—Plastic, engraved.

3.3 Grades and Methods of Attachment:

3.3.1 *Grade A*—Adhesive on metal bracket (backing plate) (Sizes A through J).

3.3.2 *Grade B*—Metal strapping or screw (Sizes A through J).

3.3.3 *Grade C*—Welding (Sizes A through J) See also the American Bureau of Shipping Standards.

3.3.4 *Grade D*—Secured by handwheel nut (Sizes K through R).

3.3.5 *Grade E*—Connection to valve stem, bonnet, or flange (Size S).

3.4 Class and Thickness:

3.4.1 *Class 1*— $\frac{1}{8}$ in.

3.4.2 *Class 2*—16 gage.

3.4.3 *Class 3*—20 gage.

3.4.4 *Class 4*—24 gage.

3.5 *Size and Dimensions:* (length by width) or (outside diameter (OD) by inside diameter (ID).)

3.5.1 *Size A*—Rectangular 2 by $\frac{7}{8}$ in.

3.5.2 *Size B*—Rectangular 2 by $1\frac{1}{2}$ in.

3.5.3 *Size C*—Rectangular 3 by $\frac{7}{8}$ in.

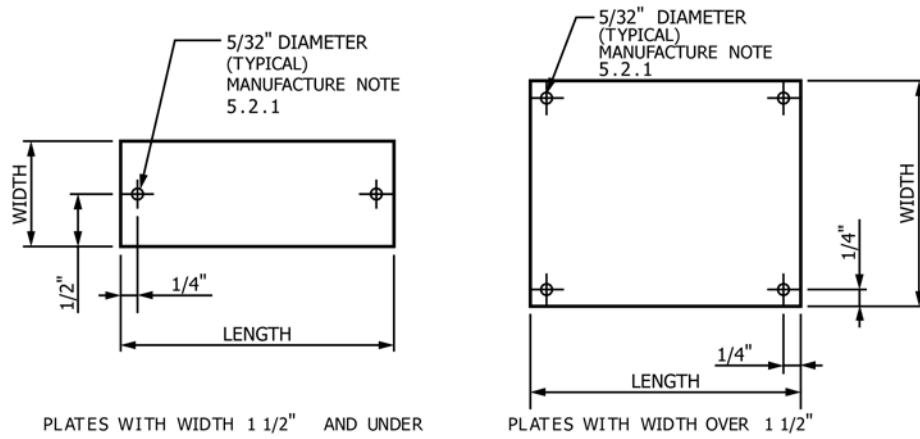
3.5.4 *Size D*—Rectangular 3 by $1\frac{1}{2}$ in.

3.5.5 *Size E*—Rectangular 3 by $2\frac{1}{4}$ in.

3.5.6 *Size F*—Rectangular 4 by $\frac{7}{8}$ in.

3.5.7 *Size G*—Rectangular 4 by $1\frac{1}{2}$ in.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.



PLATES WITH WIDTH 1 1/2" AND UNDER

PLATES WITH WIDTH OVER 1 1/2"

FIG. 1 Plate for Sizes A–J

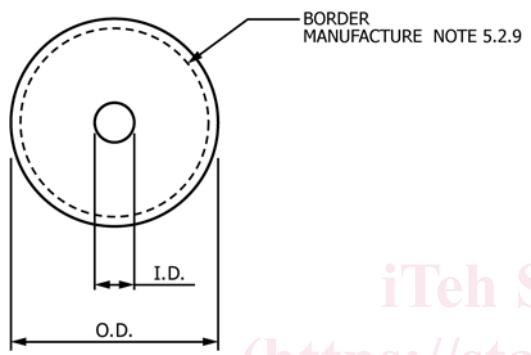


FIG. 2 Plate for Sizes K–R

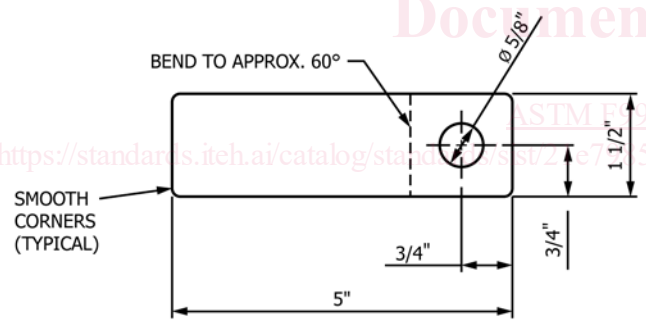


FIG. 3 Plate for Size S

- 3.5.8 Size H—Rectangular 4 by 2 1/4 in.
- 3.5.9 Size J—Rectangular 4 by 3 1/4 in.
- 3.5.10 Size K—Circular 1 3/16 by 5/16 in.
- 3.5.11 Size L—Circular 1 1/2 by 5/16 in.
- 3.5.12 Size M—Circular 1 3/4 by 3/8 in.
- 3.5.13 Size N—Circular 2 by 3/8 in.
- 3.5.14 Size P—Circular 2 3/4 by 7/16 in.
- 3.5.15 Size R—Circular 3 by 1/16 in.
- 3.5.16 Size S—Rectangular, 5 by 1 1/2 in. with 5/8-in. diameter hole (see Fig. 3). (To be used with Type 3, Grade E only).

3.6 Letter Size:

- 3.6.1 Letter Size 1—5/16-in. letter, approximately three letters per inch.
- 3.6.2 Letter Size 2—1/4-in. letter, approximately four letters per inch.

- 3.6.3 Letter Size 3—3/16-in. letter, approximately five letters per inch.
- 3.6.4 Letter Size 4—1/8-in. letter, approximately eight letters per inch.

4. Ordering Information

4.1 Orders for material under this specification shall include the following:

- 4.1.1 ASTM Designation and year of issue.
- 4.1.2 Type.
- 4.1.3 Grade.
- 4.1.4 Class.
- 4.1.5 Size.
- 4.1.6 Letter size.
- 4.1.7 Color of lettering (if other than default color black, standard red words, or white when plastic is used).
- 4.1.8 Inscription (as to be put on label).
- 4.1.9 *Optional characteristics:*
 - 4.1.9.1 A first option is to indicate “to suit” instead of a size of plate when ordering and the engraver will fit the plate to suit the applicable requirements.
 - 4.1.9.2 A second option is to indicate “to suit” instead of a letter size when ordering and the engraver will fit the lettering (minimum of 1/8-in. letter size) onto the plate size chosen.
 - 4.1.9.3 When nonstandard colors are needed for the label plates, the purchaser should specify.
 - 4.1.9.4 When a letter style other than gothic lettering or arabic numerals is required, the purchaser should specify.

5. Materials and Manufacture

5.1 Materials:

- 5.1.1 Stainless steel, Specification A240, Type 316.
- 5.1.2 Brass, Specification B36/B36M, UNSC 26000.
- 5.1.3 Aluminum, Specification B209, Alloy 5052.
- 5.1.4 Plastic, Specification D709, Grade ES.
- 5.1.5 Spar varnish.

5.2 Manufacture:

- 5.2.1 Holes shall not be provided in rectangular plates unless the method of attachment (grade) is Grade B. In this case approximately 1/2-in. left and right margins shall be provided.
- 5.2.2 Edges of label plates shall be smooth.