



Standard Specification for Door Fittings, for Watertight /Gastight /Airtight, Weathertight, and Non-Tight Doors, for Marine Use¹

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1. Scope

1.1 This specification covers the principal design and type of material for manufacturing fittings for watertight/gastight/airtight, weathertight, and non-tight doors, for marine use. Note that “gastight” is commercial terminology which also means “airtight” in naval terminology.

1.2 The fittings are intended for use on all doors for marine use, except joiner and expanded metal doors.

2. Referenced Documents

2.1 ASTM Standards:

A 36/A36M Specification for Carbon Structural Steel²

A 240/A 240M Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels³

A 276 Specification for Stainless and Heat-Resisting Steel Bars and Shapes⁴

A 563 Specification for Carbon and Alloy Steel Nuts⁵

A 668 Specification for Steel Forgings, Carbon and Alloy, for General Industrial Use⁴

B 140/B 140M Specification for Copper-Zinc-Lead Red Brass or Hardware Bronze Rod, Bar and Shapes⁶

B 210 Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes⁷

2.2 Military Standards:

MIL-P-24441 Epoxy-Polyamide Paint⁸

MIL-P-17578A Packing Material, Plastic (for Dogs for Watertight Closures) (Symbol 1425)⁸

MIL-C-81706 Coating, Aluminum and Aluminum Alloys⁸

DOD-STD-2138 Metal Sprayed Coating Systems for Corrosion Protection⁸

2.3 Federal Specifications:

QQ-C-390 Copper Alloy Castings⁸

TT-E-490 Enamel-Silicone Alkyd Copolymer, Semi-gloss, Exterior⁸

2.4 ANSI Standard:

A2.6 Standard for Fire Tests of Window Assemblies⁹

2.5 AISI Standard:

316 Low Alloy Stainless Steel (Cres 316)¹⁰

3. Classification

3.1 The dogs and hinges shall be classified as given in Table 1.

TABLE 1 Classification of Dogs and Hinges

Type	Description
Dog:	
A	Fitted to door
B	Fitted to door frame
Hinge:	
A	With clenched pin
B	With clenched pin secured with cotter pin

4. Ordering Information

4.1 Ordering for fittings shall be indicated on the purchase order prepared for doors, with reference to this specification noted.

4.2 When ordering fittings, indicate the following:

4.2.1 Type,

4.2.2 Quantity,

4.2.3 Marking (see Section 8), and

4.3 Inspection and acceptance of fittings shall be agreed upon between the purchaser and the supplier.

5. Materials and Manufacture

5.1 The material shall be as specified in Tables 2-4.

5.2 All securing screws and fasteners shall be of stainless steel, Type 316.

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting.

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² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 01.03.

⁴ Annual Book of ASTM Standards, Vol 01.05.

⁵ Annual Book of ASTM Standards, Vol 15.08.

⁶ Annual Book of ASTM Standards, Vol 02.01.

⁷ Annual Book of ASTM Standards, Vol 02.02.

⁸ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁹ Available from American National Standards Institute, 25 W. 43rd St., 4th Floor, New York, NY 10036.

¹⁰ Available from American Iron and Steel Institute, 1101 17th St., NW, Suite 1300, Washington, DC 20036.