



Standard Specification for Docking/Drain Plug and Boss Assemblies [Metric]¹

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1. Scope

- 1.1 This specification provides design, construction, and purchasing criteria for docking/drain plug and boss assemblies.
- 1.2 Assemblies are intended for installation in shell, rudder, and tank bottom plate from 8 through 38 mm.
- 1.3 Assemblies shall be installed at the lowest point of a tank or rudder for draining during dry docking.
- 1.4 The values stated in SI units are to be regarded as the standard.

2. Referenced Documents

- 2.1 *ASTM Standards*:²
B 164 [Specification for Nickel-Copper Alloy Rod, Bar, and Wire](#)
- 2.2 *Other Documents*:
ABS Rules for Building and Classing Steel Vessels³
ANSI B2.1 Standard Pipe Threads Except Dryseal⁴

3. Classification

- 3.1 Docking plugs and bosses shall be classified as follows:
 - 3.1.1 *Type I*—Docking plug and bosses for plating from 8 to 15 mm (see Fig. 1).
 - 3.1.2 *Type II*—Docking plug and bosses for plating greater than 15 to 38 mm (see Fig. 2).

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 (See Section 3).
 - 4.1.3 Optional nonstandard materials.

5. Materials and Manufacture

- 5.1 *Materials*:
 - 5.1.1 *Boss*—ABS Grade A or B, plate or bar.
 - 5.1.2 *Plug*—Specification B 164 rod or bar.
 - 5.1.3 Other materials may be substituted to suit hull construction as approved by regulatory bodies.
- 5.2 *Manufacture*:
 - 5.2.1 Plugs and bosses shall be machined.
 - 5.2.2 Threads shall be in accordance with ANSI B2.1.

6. Dimensions and Tolerances

- 6.1 Dimensions shall be as indicated in Fig. 1 and Fig. 2.
- 6.2 Tolerance shall be ± 1.5 mm.
- 6.3 Mass shall be as follows:

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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>.

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