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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Ships and marine technology — High holding power balance anchors

1 Scope

This document specifies the design and production requirements, test methods, marking and inspection certificate for high holding power balance anchors (hereinafter referred to as anchors).

It is applicable to the design, selection, production and acceptance of high holding power balance anchors.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3828, Shipbuilding and marine structures — Deck machinery — Vocabulary and symbols

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3828 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1

high holding power balance anchor HHPB anchor

anchor with a rotatory fluke that can be restored back to upright position by gravity once the anchor is hoisted from the sea bed, and with a holding power of at least twice that of an ordinary stockless anchor of the same mass

4 Design

4.1 Structure

An anchor is generally composed of a shank, a fluke, a head pin, a lateral pin, a shackle and an anchor shackle. The typical structure is shown in <u>Annex A</u>.

4.2 Basic specifications and dimensions

Anchors shall be designed as per the quantity required by outfitting. They shall be classified into different specifications based on the anchor theoretical mass. The corresponding basic dimensions are shown in <u>Table A.1</u>.