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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Ships and marine technology - Manholes with bolted covers

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(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is equivalent to ISO 5894:2018 "Manhole Covers for Ships and Offshore Technology":

This document has made the following minimal editorial changes:

---Added notes about signs in Figures 1 to 4:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the requirements for bolted watertight and oiltight manhole covers for ships, except pressure vessels:

This document specifies the dimensions of hull openings and the number, size and location of fasteners:

This document is applicable to manhole covers with coamings, flat or embedded manhole covers:

The manufacturing node of the manhole cover is determined by the manufacturer:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

3 Terms and definitions

There are no terms or definitions to be defined in this document:

4 Types and nominal dimensions

All dimensions are in millimeters:

According to the nominal size, manhole covers should be divided into AO type, AE type, BO type, BE type, CO type or DO type (see Figure 1~Figure 4 and Table 1~

Table 6):

The dimensions of the manhole cover and the spacing of fasteners should be in accordance with Figures 1 to 11 and Tables 1 to 7:

The nominal dimensions $l_1 \times b_1$ should correspond to the net opening length and width, see Table 1 to Table 6:

The threads of fasteners (nuts and bolts) should comply with ISO 262:

The thickness of the cover plate, seat plate and coaming plate should be selected by the user according to the values specified in Tables 1 to 6: Classification society rules and regulations may A higher value can be requested:

Figures 1 to 4 show manhole covers with coaming, flat and embedded: In order to ensure the interchangeability of cover plates and gaskets, the

Dimensions and fastener coordinates shall be consistent with those given in this document:

Figures 1 to 4 illustrate the connection form of welded studs, and other reliable connection forms of bolts and seat plates are allowed: