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

GB/T 37320-2019

**Ships and marine technology - Marine magnetic compasses,
binnacles and azimuth reading devices**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 25862.2009 "ship and marine technology marine magnetic compass, compass cabinet and azimuth readings instrument".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 15868-1995 Global Maritime Distress and Safety System (GMDSS) Marine Radio Equipment and Maritime Navigation Equipment

General requirements test methods and required test results (idt IEC 60945.1994)

This standard is proposed and managed by the National Marine Electrical and Electronic Equipment Standardization Technical Committee (SAC/TC531).

This standard was drafted. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute.

1 Scope

This standard specifies the structural and performance requirements for magnetic compasses, compasses, and azimuth readers for navigation and steering. According to ship design, regulations

Two types of compass cabinets.

This standard applies to liquid magnetic compass.

--- According to the relevant rules for navigation and steering when the ship is sailing;

--- has a direct reading system;

--- Reflective, projection or transfer type.

In this standard, the magnetic compass is composed of a pivoting guide system placed in a liquid-filled basin, and the pivot is often used inside and outside the basin.

The flat frame is supported. This standard contains magnetic compasses with impervious flat frames. The requirements for gimbals do not apply to such magnetic compasses.

This standard applies to.

---All applicable SOLAS Conventions (for ships with a total tonnage of not less than 150t for ocean-going voyages, and not for the total ton of ocean-going voyages)

Ships of not less than 500t) and ships of Class A magnetic compasses;

---All ships that do not apply to the SOLAS Convention and install Class A or Class B magnetic compasses;

--- Lifeboat/Lifeboat with Class B magnetic compass (detailed in Appendix H).

This standard does not apply to.

a) the magnetic compass of the dry dial;

b) a magnetic compass designed differently from the above principles or a magnetic compass that does not conform to the given description;

c) Hand-held magnetic compass.

See Appendix G for testing and certification of magnetic compasses, position and deviation adjustment requirements on board.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 3898-2008 Terms of nautical magnetic compass (ISO 1069.1973, IDT)

IEC 60945.2002 General requirements for marine navigation and radiocommunication equipment and systems - Test methods and test results

(Maritimenavigationandradiocommunicationequipmentandsystems-Generalrequirements-Methodsoftestingandrequiredtestresults)

IMOResolutionA.382(X) Proposal for Magnetic Compass Performance Standards (Recommendationsonperformancestand-

Ardsformagneticcompasses)

3 Terms and definitions

The following terms and definitions as defined in GB/T 3898-2008 apply to this document.

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