

ICS 47.020.70

CCS U65



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

GB/T 10104-2011

Replacing GB/T 10104-1995

Marine magnetic compass of class B

船用B级磁罗经

Issued on: December 30, 2011

Implemented on: June 1, 2012

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 10104-1995 "marine magnetic compass class B General technical requirements." This standard compared with GB/T 10104-1995, there are the following changes.

- Modify the "Range" and applicable Not applicable contents (see Chapter 1, Chapter 1, 1995 edition);
- Increasing the term "orientation reader" and "magnetic compass" (see Chapter 3);
- Added "impermanence gimbal plate Luo longitude freedom" (see 4.1.2.2);
- Remove the "point system support structure" (see the 1995 edition 4.2.7);
- Increase the chapter "environmental suitability" of the magnetic compass (see 4.17, 1995 edition 4.1.);

- Remove the "mold" requirements and test methods [see 1995 edition 4.1b) and 5.7];
- Increased "water" requirements and test methods (see 4.1.7.4 and 5.6.5);
- Modify the chapter heading "azimuth error" (see 432, 1995 version 4.4.2.);
- Removed "from the position of prevention" (see the 1995 edition 4.3.5);
- Modify the orientation Reader observation height in the range of " $-5^{\circ} \sim 10^{\circ}$ " (see 431, 1995 edition 4.4.1.);
- Added "DEVIATION measures" (see 4.2.6);
- Added "factory report" requirements (see

1 Scope

GB/T 10104-2011 is the Chinese national standard on marine magnetic compass of class b, in the field of shipbuilding and marine structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2012. Classification: ICS 47.020.70, CCS U65. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the class B marine magnetic compass, binnacle and azimuth reading device (referred magnetic compass and accessories) requirements, test methods, test Rules and signs, packaging, transportation, storage and so on. This standard applies to the gimbal with or without liquid magnetic compass. This standard does not apply to.

a) dry dial magnetic compass;

b) according to the above principle is different from the design of compass or does not comply with the given instructions compass.

Note. For less than 24m for the captain of a magnetic compass, this standard is no longer any rules.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references,

the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 3898 nautical magnetic compass term

GB/T 12267 Marine navigational equipment - General requirements and test methods CB/T 765-1997 electrical equipment, instruments and armament coating is applied to the technical conditions

3 Terms and Definitions

GB/T 3898 and defined the following terms and definitions apply to this document.

3.1 Azimuth reader azimuthreadingdevice It can be measured to obtain celestial azimuth and distance DOA means, such as azimuth circle, azimuth mirror.

3.2 Magnetic compass magneticcompass Filled by a point system, and the inner and outer gimbal supported liquid compass bowl, pot bearing compass pointing system composed of a single pivot instrument.

4.1.1 Structure and Materials

4.1.1.1 Magnetic compass Materials Magnetic compass should point system uses magnets having high coercive and coercive force of at least 18kA/m of material. In addition to pointing to the magnetic system Outer steel, other materials used in magnetic compass should be non-magnetic material.