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

GB/T 12928-2008

Replacing GB 12928-1991

**Marine reciprocating air compressor for medium pressure and
low pressure**

船用中低压活塞空气压缩机

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard replaces GB/T 12928-1991 "Marine Medium pressure piston air compressor", GB/T 12933-1991 "Marine low pressure piston Air compressors. " This standard compared with GB/T 12928-1991, GB/T 12933-1991, the main technical content of the following changes.

- The GB/T 12928-1991, GB/T 12933-1991 merge revisions to GB/T 12928 new version;
- Redefined the scope of the rated discharge pressure is less than 4.0MPa marine air compressor included in the range;
- Modify the reference standard;
- Increased chapters Terms and definitions;
- Two basic parameters of the original standard products combined into Tables 1 and 2;
- Table 4 of the air compressor main parts of the material put forward specific requirements;
- Table 5 for each type of air compressor sound power indicator classification and requirements have been adjusted;
- Table 6 increased the volume flow 51m³/h ~ 119m³/h lubricating oil consumption requirements of this file;
- The marine requirements and test conditions to environmental adaptability requirements and test, and modify specific values;
- Increased fuel consumption and cooling water consumption of the test method;
- Amend Table 9 (test items and order). The standard proposed by China Shipbuilding Industry Corporation. This standard by the China Machinery Standardization Technical Committee Marine deck machinery and auxiliary machinery spaces under the jurisdiction of the Technical Committee. This standard was drafted. China Shipbuilding Industry Corporation seventh four Institute. The main drafters of this standard. Gu Junwei, Levay Jian, Luo Shan Ju Yi. This standard replaces the standards previously issued as follows:

--- GB/T 12928-1991, GB/T 12933-1991. Marine low pressure piston air compressor

1 Scope

GB/T 12928-2008 is the Chinese national standard on marine reciprocating air compressor for medium pressure and low pressure, 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 3 March 2008 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 September 2008. Classification: ICS 47.020.30, CCS U47. 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 Marine low pressure piston air compressor (hereinafter referred to as "compressor") classification, requirements, test methods, inspection rules And signs, packaging, transportation and storage. This standard applies to the motor drive of rated discharge pressure of 3.0MPa, 1.0MPa and 0.7MPa marine, the low pressure piston Air compressor design, production, testing and acceptance. Diesel driven air compressor and other marine rated discharge pressure is less than 4.0MPa marine air compressor can also be implemented by reference.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 669 high-quality carbon structural steel

GB/T 700 carbon structural steel (GB/T 700-2006, ISO 630.1995, NEQ)

GB/T 1173 cast aluminum (

GB/T 1173-1995, neqASTMB26.1992)

GB/T 1176 Cast Copper Alloys conditions (GB/T 1176-1987, neq ISO 1338. 1977) GB/T 1348 Ductile Iron

GB/T 2506 Marine lap welding steel flanges (four into bits) Identification colors

GB 3033.1 Ships and marine technology pipeline system inclusions Part 1. Main colors and media (GB 3033.1- 2005, ISO 14726-1.1999, IDT) GB/T 3077 alloy steel

GB/T 3853-1998 displacement compressors Acceptance Test (eqv ISO 1217.1996)

GB/T 4975 General term displacement compressors (GB/T 4975-1995, eqv ISO 3857. 1977)

GB/T 4980 Determination of volumetric compressor noise

GB/T 9439 Gray Iron Castings

GB/T 10746 Marine welded steel flanges (four into bits) Measurement and evaluation of

GB/T 16301-2008 ship engine room auxiliaries vibration intensity GB/T 13306 signs

3 Terms and Definitions

GB/T 4975 and the following terms and definitions apply to this standard

3.1 Conditions by the rated speed and discharge pressure compressor mutually determined.