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

GB/T 16303-2024

Replacing GB/T 16303-2009

**Ships and marine technology - Launching appliances for
free-fall lifeboats**

船舶与海上技术 自由降落式救生艇降放装置

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. This document replaces GB/T 16303-2009 "Ships and Marine Technology - Free-fall Lifeboat Launching Appliances" and Compared with GB/T 16303-2009, in addition to structural adjustments and editorial changes, the main technical changes are as follows: Changed "Scope" (see Chapter 1, see Chapter 1 of the.2009 edition);

a) The terms "winch hoisting load" and "winch lowering load" have been deleted (see 3.6 of the.2009 edition);

b) Added "Inspection Classification" (see 6.1);

c) The requirements for "type inspection" and "factory inspection" have been changed (see 6.2, 6.3, and 7.1,

7.2 of the.2009 edition);

d) Added "Packaging", "Storage and Transportation" requirements (see 7.2, 7.3);

e) The "Inspection and Maintenance" requirement has been deleted (see Chapter 8 of the.2009 edition).

f) Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Technical Committee for Standardization of Ship Outfitting (SAC/TC 129). This document was drafted by: China Shipbuilding Industry Corporation Comprehensive Technical and Economic Research Institute, CSSC Oasis Zhenjiang Marine Auxiliary Machinery Co., Ltd., Shanghai Ship Research and Design Institute, Jiangsu Jiaoyan Marine Equipment Co., Ltd., Nantong COSCO Kawasaki Ship Engineering Co., Ltd., Hunan Jinhang Ship Ship Manufacturing Co., Ltd., Taizhou Zhonggang Machinery Equipment Co., Ltd., China Shipbuilding Industry Corporation No. 708 Research Institute, China Shipbuilding Industry Corporation Co., Ltd.

Engineering Management Center, Beijing Institute of Standardization. The main drafters of this document are. Zeng Hongli, Liu Wei, Jiang Yuliang, Sui Guozhong, Ni Weiping, Liu Yutao, Ding Yufei, Li Jiale, Lu Mingfeng, Wu Guangming, Feng Shuhuan, Sui Guoce, Zhang Zonglin, Gong Yingbin, Yao Yu, Chai Wei, Lin Jing, Lin Changwei, Sun Yaogang, Zhu Jiashuai, Ji Jing, Wang Jian, and Wang Lirui. This document was first issued in.1996, revised for the first time in.2009, and this is the second revision. Ships and Maritime Technology Free-fall lifeboat launching device

1 Scope

GB/T 16303-2024 is the Chinese national standard on ships and marine technology - launching appliances for free-fall lifeboats, 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 26 October 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2025. Classification: ICS 47.020.50, CCS U27. 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 document specifies the requirements, test methods, inspection specifications for free-fall lifeboat launching appliances (hereinafter referred to as free-fall appliances). regulations, labeling, packaging, transportation and storage. This document is applicable to the installation of free-fall lifeboat launching devices (including recovery devices) installed on ships or offshore platforms using inclined slides. Design, manufacture and acceptance of equipment).

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the latest version (including all amendments) applies to this document. In this document.

GB/T 2346 Nominal pressure series for fluid transmission systems and components

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components

GB/T 3893 Terminology and symbols for deck machinery in shipbuilding and offshore structures

GB/T 4208-2017 Degrees of protection provided by enclosures (IP Code)

GB/T 7932 General rules and safety requirements for pneumatic systems and their components

ISO 15516 Ships and marine technology - Launching appliances for davit-launched lifeboats appliances for davitlaunched lifeboats) IMOMS C.4 8 (6 6) International Code on Life-saving Appliances appliance (LSA) code] MARPOL 73/

78 Protocol of 1978 relating to the International Convention for the Prevention of Pollution from Ships, 1973 the international convention for the prevention of pollution from ships 1973)

3 Terms and Definitions

For the purposes of this document, the terms and definitions defined in GB/T 3893, ISO 15516, IMO MSC.48 (66) and the following apply.

3.1 maximum working load The load acting on the runners or spreaders when a free-lowering appliance is lowering a fully loaded lifeboat for which it is intended.

3.2 lightest launching load The load acting on the runners or spreaders when a free-lowering appliance is lowering an empty lifeboat for which it is intended.

3.3 maximum recovering load When the free-falling device recovers the heaviest empty lifeboat with operators (not less than 3 persons) for which it is applicable, the force acting on the sling load.