

ICS 47.020.30

CCS U57



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

GB/T 13342-2007

Replacing GB/T 13342-1992

Specification for marine reciprocating hydraulic cylinder

船用往复式液压缸通用技术条件

Issued on: July 17, 2007

Implemented on: January 1, 2008

**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 replaces GB/T 13342-1992 "marine cylinder reciprocating General technical conditions." This standard compared with GB/T 13342-1992, there are the following changes.

- Increasing the terms and definitions;
- Ambient temperature from 5 °C to 65 °C;
- Cancel the tilt, swing, vibration and shock requirements;
- Respectively provide the ram cylinder and double acting hydraulic cylinder piston minimum threshold pressure;
- Reducing internal leakage and external leakage;
- Respectively provide a double-acting hydraulic cylinder and piston cylinder durability;
- Lowest steady speed respectively, by 8mm/s, 10mm/s increased to 4mm/s, 5mm/s;
- Increased piston hydraulic cylinder test circuit;
- Improving the internal cleanliness of the hydraulic cylinder. The standard proposed by China State Shipbuilding Corporation. This standard by the National Marine Machinery Standardization Technical Committee (SAC/TC137) centralized. This standard was drafted. China Shipbuilding Technology and Economy Research Institute, China Shipbuilding Industry Corporation Chongqing Hydraulic Electrical Co., China Shipbuilding Heavy Industry Zhongnan Equipment Co., Ltd. (388 plants), Wuhan Marine Machinery Co., Ltd. The main drafters of this standard. Wang away, Zheng Xiaobing, Lu Zhiyong, Chen Wensheng, Tang Min, Fan Yong, Cai Zhenzhong. This standard replaces the standards previously issued as follows:
 - GB/T 13342-1992. Marine reciprocating hydraulic cylinder General technical conditions

1 Scope

GB/T 13342-2007 is the Chinese national standard on specification for marine reciprocating

hydraulic cylinder, 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 17 July 2007 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 January 2008. Classification: ICS 47.020.30, CCS U57. 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 reciprocating cylinder (hereinafter referred to as hydraulic cylinders) requirements, test methods, inspection rules, signs and packaging. This standard applies to mineral oil-based hydraulic cylinders medium of design, manufacture, testing and acceptance.

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 699-1999 quality carbon structural steel

GB/T 786.1 hydropneumatic graphic symbols

GB/T 2879 hydraulic cylinder piston and piston seal groove dimensions and tolerances

GB/T 2880 hydraulic cylinder rod and piston seals for narrow cross-section dimensions and tolerances

GB/T 3098.1-2000 Mechanical properties of fasteners Bolts, screws and studs

GB/T 3323-2005 Metal fusion welded joints radiography

GB/T 3452.1 hydraulic and pneumatic rubber O-rings - Part 1. Dimensions, tolerances

GB/T 3452.2 O-shaped rubber ring appearance quality inspection standards

GB/T 3452.3 hydraulic and pneumatic rubber O-ring groove dimensions

GB/T 5777 seamless steel pipe ultrasonic testing method

GB/T 6402-1991 steel forgings ultrasonic inspection method

GB/T 6577 with the hydraulic cylinder piston seal housings incorporating bearing rings - Dimensions and tolerances

GB/T 6578 with piston rod wipers - Dimensions and tolerances

3 Terms and Definitions

In GB/T 17446 and established the following terms and definitions apply to this standard.

3.1 The minimum pressure of the hydraulic cylinder starts.

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