

ICS 23.020

CCS B90



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

GB/T 16774-2012

Replacing GB 16774-1997

Autoboosting caliber liquid nitrogen container

自增压式液氮容器

Issued on: December 31, 2012

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

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Foreword

Rules of the criteria based on GB/T 1.1-2009 given draft. This standard replaces GB 16774-1997, compared with GB 16774-1997, mainly for the following changes.

- Scope increased operating pressure and volume range of requirements;
- Increasing the NA range;
- Increased Chapter 3, "Terms and Definitions";
- The original "1 vertical self-pressurized liquid nitrogen containers schematic shape" and "2 horizontal self-pressurized liquid nitrogen containers schematic shape" with And "2 horizontal self-pressurized container structure diagram" "Figure 1 Schematic diagram of the vessel is pressurized from vertical";
- Original Chapter 3, "Models and Specifications" to Chapter 4, "category", and the original table 1 is adjusted to Appendix A (informative) "from pressurized containers Main models and specifications";
- Increased 5.3 "design" requirements;
- Canceled a 4.4 "technology requirements" and 4.5 "appearance requirements" requirements;
- An increase of 5.4 "made" requirement;
- Canceled a 5.4 "transportation test" requirements. This standard by the National Standardization Technical Committee of the boiler pressure vessel (SAC/TC262) and focal points. This standard is mainly drafted by: Leshan City in East Asia Electrical and Mechanical Services Ltd., Shanghai Gas Industry Association, Shanghai Jiaotong University, Shenyang new Limited light cryogenic containers Ltd., Chengdu Golden Phoenix Liquid Nitrogen Container Co., Ltd., China Special Equipment Inspection and Research

Institute, Shanghai Huayi Equipment Engineering The company, the State Quality Supervision and Inspection Center cryogenic vessels, Shanghai Institute of Special Equipment Inspection. The main drafters of this standard. Liu Yuanming, in Tong, Luxue Sheng, Wei-Ming Zhou, Chen Zhaohui, Weiyong Biao, Fan Yan, Li Zongji, Teng Junhua, Cao Zhiming, Wen Yonggang. This standard replaces the standards previously issued as follows:

--- GB 16774-1997. Liquid nitrogen from the pressurized container

1 Scope

GB/T 16774-2012 is the Chinese national standard on autobosting caliber liquid nitrogen container, in the field of fluid systems and general-purpose components. 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 31 December 2012 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 July 2013. Classification: ICS 23.020, CCS B90. 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.

1.1 standard austenitic stainless steel liquid nitrogen from the pressurized vessel (hereinafter referred to as self-pressurized containers) product classification, technical requirements, Test methods, inspection rules, marking, packaging and storage requirements.

1.2 This standard applies to storage medium is liquid nitrogen, working pressure is less than 0.1MPa, the effective volume of 50L ~ 800L, and the use of high vacuum Design of multi-layer insulation self-pressurized containers, manufacturing.

1.3 This standard does not apply to the following ranges from pressurized containers.

- With pressure storage of liquid nitrogen;
- Other cryogenic liquid oxygen storage and so on.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 150.1 pressure vessels - Part 1. General requirements

GB 150.2 pressure vessels - Part 2. Materials

GB 150.3 pressure vessels - Part 3. Design

GB/T 191-2008 packaging Pictorial marking Part 1

GB 567.1 bursting disc safety device. Basic requirements Part 2

GB 567.2 bursting disc safety devices. application, selection and installation Part 3

GB 567.3 bursting disc safety devices. Classification and mounting dimensions

GB/T 1226-2010 general pressure gauges

GB/T 3198-2010 aluminum and aluminum foil

GB/T 3280-2007 cold-rolled stainless steel sheet and strip

GB/T 12241-2005 general requirements for safety valves

GB/T 13550-1992 5A molecular sieve and test methods

GB/T 14976-2012 transmission fluid with stainless steel seamless pipe