

ICS 47.020.20

CCS U57



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

GB/T 12920-2008

Replacing GB/T 12920-1991

General specification for pneumatic system of ship

船用气动系统通用技术条件

Issued on: February 3, 2008

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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 12920-1991 "Marine Air Systems General technical conditions." This standard compared with GB/T 12920-1991, the main changes are as follows:

- Increased air intake and other signs;
- Modified tilt swing, vibration;
- Added "line of air flow rate of not more than 30m/s";
- Increasing the electrical circuit diagram pneumatic circuit diagram and consistency requirements;
- Increasing the various elements of the system requirements;
- Increased emergency stop or emergency reset means;
- Increased overvoltage protection;
- Increasing the pneumatic system diagram the specific instructions (air intake, test points, and the vent orifice fittings, gas supply pipe ends and means should be A logo, each pipe should loop number.);
- Increased requirements for air tank;
- Increased the maximum recommended working pressure and flow;
- Increased support line spacing specifications;
- Increased noise limits. The standard proposed by China State Shipbuilding Corporation. This standard by the National Marine Machinery Standardization Technical Committee. This standard was drafted. China Shipbuilding Technology and Economy Research Institute, Guangdong Zhaoqing Global purification equipment Limited. The main drafters of this standard. Wang away, Qi Chao, Ma Tao, Xiao-Dong Lin. This standard replaces the

standards previously issued as follows:

--- GB/T 12920-1991. Marine Air Systems General technical conditions

1 Scope

GB/T 12920-2008 is the Chinese national standard on general specification for pneumatic system of ship, 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 February 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 August 2008.

Classification: ICS 47.020.20, 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 pneumatic system (hereinafter referred to as pneumatic systems) components and accessories selection, requirements, test methods, inspection rules, marking Chi, packaging, transport and storage. This standard applies to the design and production of various marine and offshore engineering pneumatic system.

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 191 Packaging - Pictorial signs (GB/T 191-2000, eqv ISO 780.1997)

GB 150 steel pressure vessels

GB/T 786.1 hydropneumatic graphic symbols

GB/T 2346 Fluid power systems and components - Nominal pressures (GB/T 2346-2003, ISO 2944.2000, MOD) 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 3783 Marine low-voltage electrical basic requirements (GB/T 3783-1994, neq IEC 971-1)

GB 4208 housing protection (IP Code) (GB 4208-1993, eqv IEC 529. 1989)

GB 5226.1 Safety of machinery electrical equipment Part 1. General requirements (GB/T 5226.1-2002, idt IEC 204-1.2000)

GB/T 12241 valve general requirements (GB/T 12241-2007, ISO 4126-1.1991, MOD)

GB/T 16769 Metal Cutting Machine noise level measurement method (

GB/T 16769-1997, neq ISO /DIS230-5.2. 1996)

GB/T 17446 Fluid power systems and components Terminology (GB/T 17446-1998, idt ISO 5598. 1985)