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

中华人民共和国机械行业标准

JB/T 3818-1999

Hydraulic machine—Specification

液压机 技术条件

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Foreword

This standard is revision of JB 3818-84 Hydraulic press—Specification. Comparison with JB 3818-84, main differences of this Standard are as follows:

- Changed the requirements for safety protection;
- Changed the requirements for drawing and technical documents;
- Adjusted related tolerance class according to GB/T 1804-1992.

This Standard is implemented on January 1, 2000.

This Standard will replace JB 3818-84 from implementation date.

This Standard is proposed and under the jurisdiction of National Technical Committee on Forging Machinery of Standardization Administration of China.

Chief draft unit of this Standard: Tianjin Forging Press Factory.

This Standard was issued on December, 1984 for the first time.

Hydraulic machine—Specification

液压机 技术条件

JB/T 3818-1999

Replace JB 3818-84

1 Scope

This standard specifies the hydraulic machine's technical requirements, inspection rules, test methods, etc.

This Standard applies to a variety of small and medium sized hydraulic machine (hereinafter referred to as hydraulic machine) using mineral oil as transmission medium and pump individual drive.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 197-1981 General purpose screw threads--Tolerances and fits for diameter from 1 to 355mm

GB/T 1804-1992 General tolerances—Tolerances for linear and angular dimensions without individual tolerance indications

GB/T 5226.1-1996 Electrical equipment of industrial machines -- Part 1: General requirements

GB 17120-1997 Metalforming machinery—Safety requirements

JB/T 1829-1997 Metalforming machinery—General requirements

JB 3915-1985 Hydraulic press—Safety requirements

JB/T 8356.1-1996 Machine tool packaging—Technical requirements

JB/T 9954-1999 Hydraulic system of forging machinery—Cleanness

JB 9967-1999 Hydraulic press—Noise limits

3 Technical requirements

3.1 General requirements

3.1.1 Drawings and technical documents

The technical requirements of hydraulic machine drawings and technical documents shall comply with the provisions of the relevant current standard, and should be used in the production after approval in accordance with the prescribed procedures.

3.1.1.1 The design should be laid out rationally, with attractive appearance, safe and reliable performance, sensitive and light manipulation, no greater than 50N of manual operation force and no greater than 80N of pedal force.

3.1.1.2 Wear resistant measures should be taken for Important guide rail and uprights, pistons (or plungers), etc. The working surface (or strip surfaces) of the slide guide rail and the fuselage guide rails should keep necessary hardness difference.

3.1.1.3 The components and parts, components, or equipments whose weight is more than 15kg shall be easy to lift and install: if necessary, they shall be equipped with lifting holes or hooks (ring).

3.1.2 Types and parameters

The types, basic parameters and dimensions of a hydraulic machine shall be selected preferentially in accordance with the provisions of relevant standards. If no standard, manufacturing should in accordance with the drawings and technology documents by the established procedures.

3.1.3 Accuracy and rigidity

Hydraulic machine should have sufficient accuracy and rigidity, and shall comply with the provisions of relevant standards.

3.1.4 Supporting requirements

3.1.4.1 The hydraulic machines should be equipped with the necessary accessories and spare wearing parts. Special accessories shall be agreed by the user and the manufacturer to supply randomly or order separately.

3.1.4.2 Outsourcing parts and components (including hydraulic pressure, electric, pneumatic components and sealing elements, etc.) as well as cooperation parts of hydraulic machine should meet relevant standards, and these parts should have obtained

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