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

中华人民共和国行业标准

NB/T 47008-2010 (JB/T 4726)

Replace JB 4726-2000

**Carbon and Alloy Steel Forgings for Pressure
Equipments**

承压设备用碳素钢和合金钢锻件

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Contents

Foreword	I
1 Scope	1
2 Normative References	1
3 Terms and Definitions	2
4 Ordering Information	2
5 Technical Requirements	3
6 Test Methods	9
7 Inspection Rules	10
8 Marking and Quality Certificate	12
Appendix A (Normative) Additional Requirements	13

Foreword

There have been some significant changes in this standard over JB 4726-2000:

——Design pressure in application scope has been improved to less than 100MPa from not larger than 35MPa;

—— Add five steel grades, namely 20MnNiMo, 15NiCuMoNb, 12Cr2Mo1V, 12Cr3Mo1V and 10Cr9Mo1VNb;

——Degrade phosphorus and sulfur contents of a majority of steel grades;

——Add tensile property index of nominal thickness less than or equal to 100mm for 20Mn and 16Mn steel grades of forgings;

——Improve strength index of 15CrMo and 12Cr1MoV steel forgings;

——Improve impact power index of all the steel forgings;

——Describe clearly that the Grade I forgings are only applicable to 20, 35 and 16Mn steel grades of nominal thickness less than or equal to 100mm.

The Appendix A in this standard is normative.

This standard is proposed by and under the jurisdiction of the National Technical Committee on Boilers and Pressure Vessels of Standardization Administration of China (SAC/TC 262).

Drafting organizations of this standard: Hefei General Machinery Research Institute, China National General Machinery Engineering Corporation, China Special Equipment Inspection and Research Institute, China First Heavy Industries, Anhui Bureau of Quality and Technical Supervision, Shanghai Power Equipment Research Institute, Wuxi flange forging Co., Ltd and Jiangyin Fangyuan Ringlike Forging& Flange Co., Ltd

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National Technical Committee on Boilers and Pressure Vessels of Standardization Administration of China (SAC/TC 262) is in the charge of the explanation of this standard.

This part replaces the following editions in turn:

——JB 4726-1994;

——JB 4726-2000.

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NB/T 47008-2010 (JB/T 4726)

Carbon and Alloy Steel Forgings for Pressure Equipments

承压设备用碳素钢和合金钢锻件

1 Scope

This standard specifies the technical requirements, test methods and inspection rules, etc. for carbon steel and alloy steel forgings for pressure equipments.

This standard is applicable to carbon steel and alloy steel forgings for pressure equipments with a design temperature not less than -20°C and design pressure below 100Mpa.

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, only the dated versions apply to this standard. For undated references, the latest edition of the normative document (include all the amendments) is applicable to this standard.

GB/T 222-2006 Permissible Tolerances for Chemical Composition of Steel Products

GR/T 223 Methods for Chemical Analysis of Iron, Steel and Alloy

GB/T 228 Metallic Materials-Tensile Testing at Ambient Temperature (ISO 6892:1998 (E))

GBIT/229-2007Metallic materials-Charpy pendulum impact test method (ISO 148-1:2006)

GB/T 23 1.1 Metallic Materials-Vickers Hardness Test-Part 1: Test Method (ISO 6506-1:2005)

GB/T 4336 Standard Test Method for Spark Discharge Atomic Emission Spectrometric Analysis of Carbon and Low-Alloy Steel (Routine Method)

GB/T 4338 Metallic Materials-Tensile Testing at Elevated Temperature (ISO 783:1999)

GB/f 6394 Metal-methods for Estimating the Average Grain Size (ASTM E112:1996)

GB/T 10561 Steel-Determination of Content of Nonmetallic Inclusions-Micrographic Method Using Standards Diagrams (ISO 4967: 1998)

GB/T 20066 Steel and Iron-Sampling and Preparation of Samples for the Determination of Chemical Composition (ISO 14284:1996)

JB/T 4730.3 Non-destructive Testing of Pressure Equipment Part Three: Ultrasonic

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