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**NATIONAL STANDARD**

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

中华人民共和国国家标准

**GB/T 9118-2010**

**Replace GB/T 9118.1~9118.2-2000**

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**Loose Hubbed Steel Pipe Flanges with  
Welding Neck Collor**

对焊环带颈松套钢制管法兰

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Inspection and Quarantine of the People's Republic of  
China and the Standardization Administration of the  
People's Republic of China**

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## Foreword

GB/T 9112~9124-2010 "Steel Pipe Flanges" series standards are modified in relation to ASME B16.5-2009 "Pipe Flanges and Flanged Fittings (NPS ½~NPS 24" and EN 1092-1:2007 "Flanges and Their Joints-Circular Flanges for Pipes, Valves, Fittings and Accessories, PN Designated-Part 1: Steel Flanges". ASME B16.5-2009 is a complete standard of Class-designated flanges, and EN 1092-1:2007 is a complete standard of PN-designated flanges. Such standards comprehensively adopt above-mentioned two standards, including relevant technical content of Class-designated and PN-designated flanges. Such standards cover 13 items and this standard is the one hereof.

The main differences between this standard and ASME B 15.5-2009 are as follows:

- Preparation format of this standard differs from that of ASME B16.5-2009;
- ASME B16.5-2009 covers the flange data with nominal pressure of Class 400, but such data are not included in this standard;
- ASME B16.5-2009 covers the flange data with nominal dimension of NPS 3½, but such data are not included in this standard;
- ASME B16.5-2009 adopts inch bolt and the bolt hole diameter also adopts inch dimension, but this series of standard changes to metric bolt and the screwed hole diameter also adopts metric dimension.

This standard replaces GB/T 9118.1-2000 "Loose Hubbed Steel Pipe Flanges with Welding Neck Collar with Raised Face" and GB/T 9118.2-2000 "Loose Hubbed Steel Pipe Flanges with Welding Neck Collar with Ring Joint Face"; the main changes compared with the original standard are as follows:

- Merge the original 2 standards for loose hubbed steel pipe flanges with welding neck collar into one standard;
- Conduct overall modification for dimension data of Class-designated flanges according to ASME B16.5-2009;
- Add application scope tables of various sealing face types;
- Revise the designations;
- Modify the nominal pressure designation of flanges belonging to American system in the original standard according to ASME B16.5-2009: change PN 20 to Class 150, PN 50 to Class 300, PN 110 to Class 600, PN 150 to Class 900, PN 260 to Class 1500, and PN 420 to Class 2500.

This standard is proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of the National Technical Committee on Pipe Fitting of Standardization Administration of China.

Drafting organizations of this standard: Zhejiang Chaoda Valve Co., Ltd., China Productivity Center for Machinery.

Chief drafting staff of this standard: Qiu Xiaolai, Li Junying, Feng Feng, Wang Hanzhou, Yan Jingwen.

The previous editions of the standards replaced by this standard are as:

- GB/T 9118.1~9118.8-1988 and GB/T 9118.1~9118.2-2000.

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## **1 Scope**

This standard specifies types, dimensions technical requirements and designations of loose hubbed steel pipe flanges with welding neck collar with Class-designated nominal pressure.

This standard is applicable to loose hubbed steel pipe flanges with welding neck collar with nominal pressure of Class 150~Class 2500.

## **2 Normative References**

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the normative document is applicable to this standard.

GB/T 9112 "Types and Parameters for Steel Pipe Flanges"

GB/T 9124 "Specification for Steel Pipe Flanges"

## **3 Types and Dimensions**

**3.1** The sealing face type and applicable nominal pressure as well as nominal dimension range of Class-designated loose hubbed steel pipe flanges with welding neck collar shall be in accordance with those specified in Table 1.

**Table 1 Sealing Face Type and Applicable Nominal Pressure as well as Nominal Dimension Range of Class-designated Loose Hubbed Steel Pipe Flanges with Welding Neck Collor**

Sealing face	Nominal pressure
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