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

GB/T 9116.1-2000

Replacing GB/T 9116.1-2000; GB/T 9116.2-2000; GB/T 9116.3-2000; GB/T 9116.4-2000

**Hubbed slip-on-welding steel pipe flanges
(English Translation)**

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Foreword

GB/T 9112 ~ 9124-2010 "steel pipe flanges" series Standard is a modified ASMEB16.5-2009 "pipe flanges and flanged pipe Member (NPS1/2 ~ NPS24) "and EN1092-1:2007" Flanges and their connecting pipes, valves, fittings and accessories, circular flange, PN labeled Part 1. steel flanges. " ASMEB16.5-2009 is a complete standards for Class marks flange, EN1092-1:2007 is a complete standard PN mark on the flange. This series of standards using a combination of the above two criteria, including Mark the relevant technical content Class flange and flange PN mark. This series of standards for a total 13 standard, this standard is one of a standard.

This standard ASMEB16.5-2009 and EN1092-1:2007 standard main difference is as follows.

--- The preparation of this standard format ASMEB16.5-2009 and EN1092-1:2007 different standards;

--- ASMEB16.5-2009 standard includes data Class400 nominal pressure of the flange, this standard does not incorporate Class400 Flange data;

--- ASMEB16.5-2009 standard includes flange nominal size of the data NPS31/2, this standard does not NPS31/2 law LAN data;

--- ASMEB16.5-2009 standard with inch bolt, bolt aperture is also used in inch sizes, this series of standards to metric screw Bolts, threaded aperture also uses metric dimensions;

--- EN1092-1:2007 standard does not include ring joint face flange, according to our users' requirements, this series of standards increased Ring joint face flange PN tag.

This standard replaces GB/T 9116.1-2000 "flat, raised face with neck flat welding steel pipe flanges", GB/T 9116.2-2000 "uneven surface with neck flat welding steel pipe flanges ", GB/T 9116.3-2000" tongue and groove with a neck flat welding steel pipe flanges "and GB/T 9116.4-2000" ring Connecting surface with a neck flat welding steel pipe flanges ", compared with the original standard main changes are as follows.

--- The original four with neck flat welding steel pipe flanges standards into one standard;

- According to EN1092-1:2007 standard, the flange nominal pressure range PN labeled expanded from the original to PN6 ~ PN40 PN6 ~ PN100;
- According to EN1092-1:2007 standard, the male flange PN labeled nominal size range expanded from the original DN10 ~ DN600 to DN10 ~ DN1000;
- According to EN1092-1:2007 standard, PN flange marked increase in the O-ring sealing surface type;
- According to EN1092-1:2007 standard, flange dimensions data PN-labeled comprehensive revision;
- According ASMEB16.5-2009 standard, flange dimensions data Class marks a comprehensive modification;
- Increasing the variety of sealing surface of the scope of application form;
- Marked revised;
- According ASMEB16.5-2009, belonging to the original standard flange nominal inter-American system has been modified tag; PN20 to Class150, PN50 to Class300, PN110 to Class600, PN150 to Class900, PN260 to Class1500.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee pipe accessories.

This standard was drafted. Hebei Shengtian Group Bao silver high-pressure pipe flanges Limited, Zhejiang Chaoda Valve Co., Ltd., the raw machine Productivity Promotion Center, Jiangsu Haida Tube Holdings Limited.

1 Scope

This standard specifies the nominal pressure and marked with a PN with Class labeled with neck flat welding steel pipe flange type, size, technical requirements and tags.

This standard applies to nominal pressure PN6 ~ PN100 and Class150 ~ Class1500 with neck flat welding steel pipe flanges.

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 9112 steel pipe flanges with type parameters GB/T 9124 steel pipe flanges

3 Type and size

3.1

with Hubbed welding steel pipe flanges PN labeled type and size 3.1.1 with Hubbed welding steel pipe flange sealing surface type and application of PN and PN-labeled nominal size range according to Table 1 Provisions.

Table 1 marked with a PN with neck flat welding steel pipe flange sealing surface type and application of nominal pressure and nominal size range

Sealing surface

Type

Nominal

PN6 PN10 PN16 PN25 PN40 PN63 PN100 flat (FF) DN10 ~ DN300 DN10 ~ DN600 DN10 ~ DN1000 DN10 ~ DN600 -Raised face (RF) DN10 ~ DN300 DN10 ~ DN600 DN10 ~ DN1000 DN10 ~ DN600 DN10 ~ DN150 Convex surface (MF) - DN10 ~ DN600 DN10 ~ DN1000 DN10 ~ DN600 DN10 ~ DN150 Tongue and groove (TG) - DN10 ~ DN600 DN10 ~ DN1000 DN10 ~ DN600 DN10 ~ DN150 O-ring face (OSG) - DN10 ~ DN600 DN10 ~ DN1000 DN10 ~ DN600 -3.1.2 with PN labeled with neck flat welding steel pipe flange type shall comply with Figs. 1 to 5, the flange sealing surface size should be consistent Specified in Table 2, the other flange dimensions shall comply with the provisions in Tables 3 to 9.