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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 9119-2010

Replace GB/T 9119-2000, GB/T 2506-2005

Slip-on-welding plate steel pipe flanges

板式平焊钢制管法兰

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Foreword

The modification to series standards of GB/T 9112~9124—2010 *Steel Pipe Flange* adopts ASME B16.5—2009 *Pipe Flanges and Flanged Fittings (NPS 1/2~NPS 24)* and EN 1092-1:2007 *Flanges and Their Joints-Circular Flanges for Valves, Pipe Fittings and Accessories, PN Designated-Part 1: Steel Flange*. ASME B16.5—2009 is a complete standard about Class designated flanges, EN 1092-1:2007 is a complete standard about PN designated flanges. This series standards comprehensively adopt the above two standards, including relevant technical content about Class designated flanges and PN designated flanges. This series of standards consist of 13 standards. This standard is one of them.

The main differences between this standard and EN 1092-1:2007 standards are as follows:

——The format of this standard is different with and EN 1092-1:2007 standards;

——EN 1092-1:2007 standard excludes two nominal dimensions: DN 175 and DN 225. According to the operating requirements of Chinese users of marine flanges, this series standard add DN 175 and DN 225 that are only used for marine flanges for PN designated flanges.

This standard replaces GB/T 9119 —2000 *Plane and Raised Face Flat Welding Steel Pipe Flanges* and GB/T 2506 —2005 *Marine Pipe Flanges-Types (Quaternary)*, compared with original standard, the main changes are as follows:

—— Original GB/T 9119 —2000 and GB/T 2506 —2005 are integrated into one standard;

——According to EN 1092-1:2007 standard, the nominal pressure range of PN designated flanges is expanded to PN 2.5~PN 100 from PN 2.5~PN 40;

——Two nominal dimensions: DN 175 and DN 225 that are only used for marine flanges are added to PN designated flanges;

——According to EN 1092-1:2007 standard, dimension data of PN designated flanges are comprehensively modified;

——Add the applicable range table of various sealing face types.

This standard was proposed by China Machinery Industry Federation.

The Standard is centralized by the National Piping Accessories Standardization Technical Committee.

This standard is drafted by: China Productivity Center for Machinery, Jiangsu Haida Pipe Fitting Group Company LTD, Bengbu Zhongyuan Pipe Fittings Manufacturing Co., Ltd., Hebei Shengtian Group Baoyin High-Pressure Flange Pipe Fittings Co., Ltd., China State Shipbuilding Complex Technical Economy Institute, Zhejiang Chaoda Valve Co., Ltd., Baoyi Group Co., Ltd..

Main drafters of the Standard : Li Junying, Qiu Xiaolai, Liu Jian, Wang Qingyao, Li Baoyin, Feng Feng, Yan Jingwen, Luo Fayuan, and Chen Youjun.

The issuances of previous versions of the standard replaced by this standard are as follows:

——GB/T 9119.1~9119.10—1988, GB/T 9119—2000;

——GB/T 2506—1989, GB/T 2506—2005.

Slip-on-welding plate steel pipe flanges

1 Scope

This standard stipulates the types, dimensions, technical requirements and designations of the slip-on welding plate steel pipe flanges whose nominal pressure is designated with PN.

This standard applies to the slip-on welding plate steel pipe flanges with the nominal pressure from PN 2.5

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 (excluding corrections) 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 9112 Types and parameters for steel pipe flanges

GB/T 9124 Specification for steel pipe flanges

3 Type and dimension

3.1 The sealing face types of the slip-on welding plate steel pipe flanges designated with PN and the applicable nominal pressure and nominal dimension range are stipulated in Table 1.

Table 1 Sealing face types of the slip-on welding plate steel pipe flanges designated with PN and the applicable nominal pressure and nominal dimension range

Sealing face type	Nominal pressure							
	PN 2.5	PN 6	PN 10	PN 16	PN 25	PN 40	PN 63	PN 100
Flat face (FF)	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 800	DN 10 ~ DN 600	—	
Raised face (RF)	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 2000	DN 10 ~ DN 800	DN 10 ~ DN 600	DN 10 ~ DN 400	DN 10 ~ DN 350

3.2 Types of the slip-on welding plate steel pipe flanges shall comply with the regulations of Table 1 and Table 2, and the flange dimension shall comply with the regulations from Table 2 to Table 9.

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