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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 9125-2010

Replace GB/T 9125-2003

Fasteners for pipe flange joints

管法兰连接用紧固件

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Contents

Foreword	1
1 Scope	1
2 Normative References	1
3 Type and dimension, property level and material designation	2
3.1 Hexagon bolt	2
3.2 Double end studs	2
3.3 Stud bolt	3
3.4. Nut	4
4 Material and mechanical property of fasteners	6
4.1 Commodity fasteners	6
4.2 Special fasteners of pipe flange	6
5 Surface treatment	7
6 Test methods	7
6.1 Commodity fasteners	7
6.2 Special fasteners of pipe flange	7
7 Acceptance inspections	8
7.1 Commodity fasteners	8
7.2 Special fasteners of pipe flange	8
8 Designation and packaging	8
8.1 Commodity fasteners	8
8.2 Special fasteners of pipe flange	8
9 Designation	9
9.1 Designation	9
9.2. Examples of Designation	9
Annex A (Informative) Method for calculating length of fasteners for pipe flange joints	10
Annex B (Informative) Operating guide of fasteners for pipe flange joints	15

Foreword

This standard replaces GB/T 9125 —2003 *Fasteners for Pipe Flange Joints*, compared with original standard, the main revisions are as follows:

- Add dimension specification of commodity fasteners and length specification of special fasteners according to EN1515-1:1999 *Flanges and Their Joints-Bolting-Part 1: Selection of Bolting* (English version);
- Add common materials of fasteners;
- Add code of special fasteners;
- Set surface treatment, test method, acceptance inspection, etc. in a separate chapter, and adjust some contents;
- Modify chapters of designation, mark and packaging and relevant content;
- Modify some contents about calculation of bolt length in Annex A;
- Modify and improve Annex B according to EN1515-1:1999.

In this standard Annex A and Annex B are informative Annexes.

This standard was proposed by China Machinery Industry Federation.

The Standard is under the jurisdiction of the National Piping Accessories Standardization Technical Committee.

This standard is drafted by: Zhejiang Gaoqiangdu Fasteners Co., Ltd., China Productivity Center for Machinery (CPCFM), CNPC Huadong Engineering Corporation, Zhoushan Zhengyuan Standard Parts Co., Ltd.

Main drafters of the Standard : Li Junying, Ge Haiquan, Ding Baoping, Liu Jian, Liu Hongfu, Lin Zhongyue, Feng Feng and Ge Shaohui.

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

- GB/T 9125—2003.

Fasteners for pipe flange joints

1 Scope

This standard stipulates the type and dimension, material and mechanical property and other technical requirements of fasteners for pipe flange joints.

This standard is applicable to fasteners for pipe flange joints of steel flanges, cast iron flanges, copper alloy, composite flanges and other materials.

The fasteners in this standard include hexagon bolts, double end studs, stud bolts, hexagon nuts and large hexagon nuts.

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 2 Fasteners-Ends of parts with external thread (GB/T 2-2001, idt ISO 4753: 1999)

GB/T 90.1 Fasteners--Acceptance inspection (GB/T 90.1-2002, idt ISO 3269: 2000)

GB/T 90.2 Fasteners--Marking and packaging

GB/T 196 General purpose metric screw threads—Basic dimensions (GB/T 196-2003, ISO 724: 1993, MOD)

GB/T 197 General purpose metric screw threads—Tolerances (GB/T 197-2003, ISO 956-1: 1998, MOD)

GB/T 699 Quality carbon structural steels

GB/T 901 Double end studs (clamping type)-Product grade B

GB/T 1220 Stainless steel bars

GB/T 1229 High strength large hexagon nuts for steel structures

GB/T 1237 Designation system for fasteners (GB/T 1237-2000, eqv ISO 8991: 1986)

GB/T 3077 Alloy structure steels

GB/T 3098.1 Mechanical properties of fasteners—Bolts, screws and studs (GB/T 3098.1-2000, idt ISO 898-1: 1999)

GB/T 3098.2 Mechanical properties of fasteners—Nuts—Coarse thread (GB/T 3098.2-2000, idt ISO 898-2: 1992)

GB/T 3098.6 Mechanical properties of corrosion-resistant stainless-steel fasteners-Part 6: Bolts, screws and studs (GB/T 3098.6-2000, idt ISO 3506-1: 1997)

GB/T 3098.15 Mechanical properties of fasteners-Nuts made of stainless-steel (GB/T 3098.15-2000, idt ISO 3506-2: 1997)

GB/T 5782 Hexagon head bolts (GB/T 5782-2000, eqv ISO 4014: 1999)

GB/T 6170 Hexagon nuts, style 1 (GB/T 6170-2000, eqv ISO 4032: 1999)

JB/T 4730 Nondestructive testing of pressure equipments



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