

HG

Professional Standard of the People's Republic of China

HG/T 20613-2009

Replace HG 20613-1997

钢制管法兰用紧固件 (PN 系列)

Bolting for Use with Steel Pipe Flanges

(PN Designated)

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China**

Bolting for Use with Steel Pipe Flanges

(PN Designated)

1. Scope

The standard specifies style, dimension, material, mark, technique requirements and application regulations for bolting of steel tube flange (PN designated).

The standard is applicable to bolting of steel tube flange HG/T 20592, which including hexagon head bolt, isometric studs, full thread studs and nut.

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.

- “Fasteners-Ends of parts with external thread” GB/T 2
- “Fasteners--Acceptance inspection” GB/T 90.1
- “Fasteners--Marking and packaging” GB/T 90.2
- “General purpose metric screw threads—Basic dimensions” GB/T 196
- “General purpose metric screw threads—Tolerances” GB/T 197
- “Double end studs (clamping type)-Product grade B” GB/T 901
- “Stainless steel bars” GB/T 1220
- “Alloy structure steels” GB/T 3077
- “Mechanical properties of fasteners—Bolts, screws and studs” GB/T 3098.1
- “Mechanical properties of fasteners—Nuts—Coarse thread” GB/T 3098.2
- “Mechanical properties of corrosion-resistant stainless-steel fasteners-Part 1: Bolts, screws and studs” GB/T 3098.6
- “Mechanical properties of fasteners-Nuts made of stainless-steel” GB/T 3098.15
- “Tolerances for fasteners--Bolts, screws, studs and nuts” GB/T 3103.1
- “Laminated rods” GB/T 5133
- “Hexagon bolts” GB/T 5782
- “Hexagon bolts with fine pitch thread” GB/T 5785
- “Hexagon nuts, style 1” GB/T 6170
- “Hexagon nuts, style 1, with fine pitch thread” GB/T 6171
- “Hexagon nuts, style 2” GB/T 6175
- “Hexagon nuts, style 2, with fine pitch thread” GB/T 6176
- “Fasteners-Surface discontinuities-Bolts, screws and studs for general requirements” GB/T 5779.1
- “Fasteners-Surface discontinuities-Nuts” GB/T 5779.2
- “Fasteners-Surface discontinuities-Bolts, screws and studs for special requirements” GB/T 5779.3
- “Steel Pipe Flanges (PN designated)” HG/T 20592
- “Specification for selection of Steel Pipe Flanges, Gaskets and Bolting (PN designated)” HG/T 20614
- “Nondestructive testing of pressure equipments” JB/T 4730
- “Phenolic aldehyde fibre glass moulding compounds for electrical insulation” JB/T 5822
- “Epoxy laminated glass fabric tube” JB/T 8150
- “The technical guide for high-temperature bolt of fossil-fired power plant” DL/T 439

3. Type, Specification and Dimension of Bolting

3.0.1 Types of the bolting.

Types of bolting used for steel pipe flange including hexagon head bolt, isometric studs, full thread screw stud, type I hexagonal nut and type II hexagonal nut

Hexagon bolts.

1 Type and dimension of hexagon bolts shall meet the requirements of GB / T- 5782 (coarse teeth) and GB / T 5785 (fine teeth). The end of the hexagon bolts shall use the chamfer side, as shown in figure 3.0.2, and bolt side chamfer shall comply with the provisions in GB/T2.

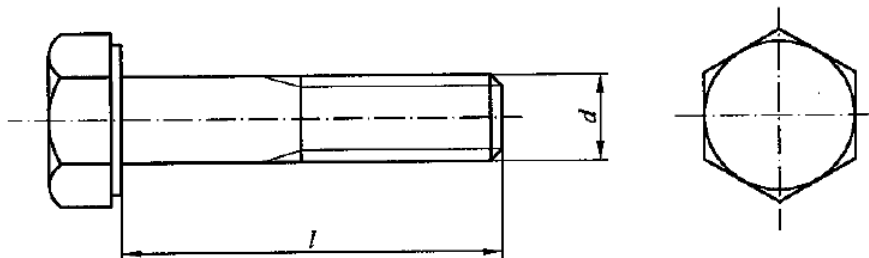


Figure 3.0.2 Hexagon bolts

2 Specification and performance of hexagon bolts shall be in accordance with Table 3.0.2.

Table 3.0.2 Specification and performance grade

| Standard | Specification | Performance grade (commercial grade) |
|--|---|---|
| GB/T 5782 (coarse thread) Grade A and Grade B | M10, M12, M16, M20, M24, M27, M30, M33 | 5.6 |
| | | 8.8 |
| GB/T 5785 (fin thread) Grade A and Grade B | M36×3, M39×3, M45×3, M52×4, M56×4 | A2-50 |
| | | A4-50 |
| | | A2-70 |
| | | A4-70 |

3.0.3 Isometric Studs.

1 The type and dimension of isometric studs should meet the requirement of GE/T 901, both ends of the studs should be with chamfer side, as shown in Figure 3.0.3 Thread dimensional and tolerance shall meet the requirements of GE / T 196 and GE / T 197, and the stud at both ends shall meet the requirements of chamfer side in GE / T 2.

2 Specifications and performance grades for isometric stud bolt according to Table3.0.3 provisions.

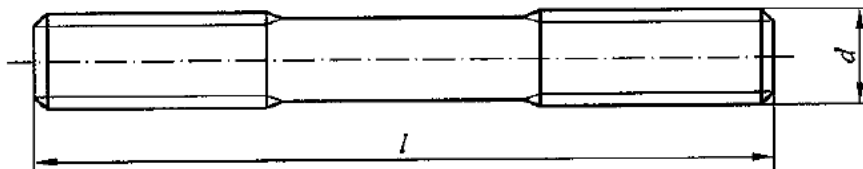


Figure 3.0.3 Isometric stud bolts

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