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GB/T 16939-1997

钢网架螺栓球节点用高强度螺栓

High strength bolts for joints of space grid structures

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Foreword

This Standard is a part of National Standard series of bolts for steel structures. These series standards are as follows:

GB/T 1228-91 *High strength bolts with large hexagon head for steel structures*

GB/T 1229-91 *High strength large hexagon nuts for steel structures*

GB/T 1230-91 *High strength plain washers for steel structures*

GB/T 1231-91 *Specifications of high strength bolts with large hexagon head, large hexagon nuts, plain washers for steel structures*

GB/T 3632-1995 *Type and dimension for sets of torshear type high strength bolt hexagon nut and plain washer for steel structures*

GB/T 3633-1995 *Technical requirement for sets of torshear type high strength bolt hexagon nut and plain washer for steel structures*

The annex A of this Standard is informative annex.

The annex B of this Standard is normative annex.

This Standard was proposed by Ministry of Machine Building Industry of P. R. China.

This Standard was under the jurisdiction of National Technical Committee 85 on Fasteners of Standardization Administration of China.

Draft units of this Standard are Mechanical Engineering Research Institute of Ministry of Machine Building Industry, China Academy of Building Research, Central Research Institute of Building & Construction, Shanghai Great Wall High Strength Bolt Research Institute, Railway Construction Research Center of Ministry of Railways, Shanghai Technology Research Center of Material of Fastener and Weld Material, Shanghai High-strength Bolts Factory, Shanghai Jinma High Strength Fastener Co., Ltd, Xuzhou Feihong grids (Group) Co., Ltd and Xuzhou Tongyukongjian Structural Co., Ltd.

High strength bolts for joints of space grid structures

1. Scope

This standard specifies the high strength bolts for joints of space grid structures of M12 to M64×4 (hereinafter as bolts).

This Standard is applicable to connection of bolts for joints of space grid structures.

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 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 2-85	Fasteners--Ends of parts with external thread
GB 90-85	Acceptance inspection, marking and packaging of fasteners
GB 196-81	General purpose screw threads-Basic dimensions for diameter from 1 to 600mm
GB 197-81	General purpose screw threads--Tolerances and fits for diameter from 1 to 355mm
GB 228-87	Metallic materials--Tensile testing at ambient temperature
GB/T 230-91	Metallic materials—Rockwell hardness test
GB 699-88	Quality carbon structure steel -Technical requirements
GB 700-88	Carbon structure steel
GB 1237-88	Marking method for fastener
GB 1591-79	High strength low alloy structural steels
GB 3077-88	Alloy structure steels
GB 3098.1-82	Mechanical properties of fasteners—Bolts, screws and studs
GB 3103.1-82	Tolerances for fasteners-Bolts, screws and nuts
GB 5779.1-86	Fasteners-Surface discontinuities-Bolts, screws and studs for general requirements

3. Dimensions

3.1 Type and dimension of bolts shall be in accordance with Figure 1 and Table 1.



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