

ICS 21.060.20

CCS J 13



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

GB/T 802.3-2009

Acorn hexagon nuts with flange - Welding type

六角法兰面盖形螺母 焊接型

Issued on: October 15, 2009

Implemented on: March 1, 2010

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

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Foreword

This section is one of the national standard "cap nut" product family standard. The series includes.

- a) GB/T 802.1 domed cap nut;
- b) GB/T 802.2 hex cap nut welded;
- c) GB/T 802.3 hex flange cap nut welded;
- d) GB/T 802.4 Hexagon low spherical cap nut welded;
- e) GB/T 802.5 metallic insert hexagon cap nut welded;
- f) GB/T 923 Hexagon cap nut. This section is GB/T 802 - Part 3. This part is proposed by China Machinery Industry Federation. This part of the National Standardization Technical Committee under the jurisdiction of the fastener. This section is responsible for drafting units. the machine Productivity Promotion Center, Zhangjiagang City Arts Co., Ltd. This part of the National Standardization Technical Committee Secretariat responsible for the interpretation of fasteners. This section is the first issue. Hexagon flange cap nut welded

1 Scope

Part 3 of China's national standard for acorn nuts, covering welded hexagon flange cap nuts. This member combines three features and is used where all three are needed together. The flange spreads the clamping load over a wider area, so the nut can be tightened against sheet metal or a soft material without pulling through and without a separate washer - which also means one fewer loose part on an assembly line. The closed cap protects the thread and removes the projection. And the welded construction is how such a nut is made: the cap is welded to the nut body rather than being formed with it, which is the practical route to the shape at these sizes. The result is a fastener common on vehicle and appliance assemblies where a bolt passes through thin panel. This part covers thread sizes M4 to M24 in property classes 6 and 8 and stainless grades A2-50, A2-70, A4-50 and A4-70, in product grade A up to 16 mm and grade B above.

This section GB/T 802 specifies the thread size is M4 ~ M24, property class 6,8, A2-50,

A2-70, A4-50 and A4-

70 Level, product grade A and B grades in welded hex flange cap nut. A grade for $D \leq 16\text{mm}$; class B for $D > 16\text{mm}$ Nut.

2 Normative references

The following documents contain provisions which, through reference

GB/T 802 of this text, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section. GB/T

90.1 fasteners acceptance inspection (GB/T 90.1-2002, ISO 3269.2000, IDT) GB/T

90.2 Fasteners marking and packaging

GB/T 196 common thread basic size (GB/T 196-2003,

ISO 724.1993, ISO generalpurposemetric screwthreads-Basicdimensions, MOD)

GB/T 197 common thread tolerance (GB/T 197-2003,

ISO 965-1.1998, ISO generalpurposemetric screwthreads-Tolerances-Part 1. Principlesbasicdata, MOD)

GB/T 1237 fasteners labeling method (GB/T 1237-2000, eqv ISO 8991. 1986)

GB/T 3098.2 Mechanical properties of fasteners - Nuts - Coarse thread (GB/T 3098.2-2000, idt ISO 898-2.1992)

GB/T 3098.4 Mechanical properties of fasteners fine thread (GB/T 3098.4-2000, idt ISO 898-6.1994)

GB/T 3098.15 mechanical properties of stainless steel fasteners nuts (GB/T 3098.15-2000, idt ISO 3506-2.1997)

GB/T 3103.1 Tolerances for fasteners - Bolts, screws and nuts (GB/T 3103.1-2002, ISO 4759-1.2000, IDT)

GB/T 5267.1 fasteners plating layer (GB/T 5267.1-2002, ISO 4042.1999, IDT)

3 Dimensions

Nut pattern dimensions shown in Figure 1 and Table 1. Size code and labeling in line with GB/T 5276.