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

GB/T 802.4-2009

Hexagon cap nuts - Welding type

六角低球面盖形螺母 焊接型

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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 part of GB /Part 4 T 802's. 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. Low spherical hexagonal cap nut welded

1 Scope

Part 4 of China's national standard for acorn nuts, covering welded hexagon low-dome cap nuts. Two things distinguish this member from the rest of the series. Its size range runs to M64, far above the others, which puts it into structural and heavy machinery fastening rather than the general engineering sizes; and its cap is a low spherical dome rather than a full one, which keeps the nut's overall height down - on a large nut a full dome would add a great deal of length, and where fasteners project into a walkway or a working space that matters. The welded construction is what makes the large sizes possible, since forming a deep cap integrally at M64 is not practical. This part covers thread sizes M4 to M64 in property classes 5 and 6 and in grades A1-50, CU3 and CU6, in product grade A up to 16 mm and grade B above.

This section GB/T 802 specifies the thread size is M4 ~ M64, property class 5,6, A1-50, CU3 or CU6 grade products Class A and class B Hexagon welding low spherical 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 references, the latest version applies 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 3098.10 Mechanical properties of fasteners non-ferrous metal manufacturing bolts, screws, studs and nuts (GB/T 3098.10- 1993, eqv ISO 8839. 1986)

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)

3 Dimensions

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