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**GB**

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

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**GB/T 801-2021**

Replacing GB/T 801-1998

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**Cup head square neck bolts with small head and short neck -**

**Product grade B**

(ISO 8678:1988, MOD)

小半圆头低方颈螺栓 B 级

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## Table of Contents

|                                                      |    |
|------------------------------------------------------|----|
| Foreword.....                                        | 3  |
| 1 Scope .....                                        | 6  |
| 2 Normative references.....                          | 6  |
| 3 Terms and definitions.....                         | 7  |
| 4 Types and dimensions.....                          | 7  |
| 5 Technical conditions and reference standards ..... | 9  |
| 6 Marking .....                                      | 10 |

## Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020, *Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents*.

This document is one of the series national standards of "Square Neck Bolts", of which the following documents has been issued:

- GB/T 10, Countersunk head square neck bolts;
- GB/T 12, Cup head square neck bolts;
- GB/T 14, Mushroom head square neck bolts;
- GB/T 794, Strengthened cup head square neck bolts;
- GB/T 801, Cup head square neck bolts with small head and short neck - Product grade B.

This document replaces GB/T 801-1998 *Cup head square neck bolts with small head and short neck - Product grade B*; compared with GB/T 801-1998, in addition to editorial changes, the main technical changes of this document are as follows:

- a) Remove the "variety of commodity fasteners, which shall be preferred" (see Chapter 1 of the 1998 edition);
- b) Unify the referenced thread standards as GB/T 193 and GB/T 9145 (see Chapter 2, Table 2; Chapter 2 and Table 2 of the 1998 edition);
- c) Remove GB/T 5779.3 from the requirements for surface defects of steel bolts (see Table 2 of the 1998 edition);
- d) Add stainless steel material and technical requirements (see Table 2).

This document revises and adopts ISO 8678:1988 *Cup head square neck bolts with small head and short neck - Product grade B*.

Add a chapter "Terms and Definitions" to this document.

The technical differences between this document and ISO 8678:1988 and the reasons are as follows:

- Use the normatively cited GB/T 5276 to replace ISO 225, to adapt to the technical conditions in China (see Chapter 4);
- Use the normatively cited GB/T 3106 to replace ISO 888, to adapt to the technical conditions in China (see Table 1);

# Cup head square neck bolts with small head and short neck - Product grade B

## 1 Scope

This document specifies the type, size, technical conditions and marking of cup head square neck bolts with small head and short neck.

This document is applicable to cup head square neck bolts with small head and short neck with thread specifications of M6 ~ M20, performance grades of 4.8, 8.8, 10.9, A2-70, A4-70, A2-50, A4-50 and product grade of B.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

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 193, General purpose metric screw threads - General plan (GB/T 193-2003, ISO 261:1998, MOD)

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

GB/T 3098.1, Mechanical properties of fasteners - Bolts, screws and studs (GB/T 3098.1-2010, ISO 898-1:2009, MOD)

GB/T 3098.6, Mechanical properties of fasteners - Stainless steel bolts, screws and studs (GB/T 3098.6-2014, ISO 3506-1:2009, MOD)

GB/T 3103.1, Tolerances for fasteners - Bolts, screws, studs and nuts (GB/T 3103.1-2002, idt ISO 4759-1:2000)

GB/T 3106, Fasteners - Bolts, screws and studs - Nominal lengths and thread lengths (GB/T 3106-2016, ISO 888:2012, MOD)

GB/T 5267.1, Fasteners - Electroplated Coatings (GB/T 5267.1-2002, ISO 4042:1999, IDT)

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