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

GB/T 3106-2016

**Fasteners -- Bolts, screws and studs -- Nominal lengths and
thread lengths**

(English Translation)

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T3106-1982, Nominal Lengths for Bolts, Screws and Studs -and Thread Lengths for General Purpose Bolts. Compared with GB/T 3106-1982, the main technical differences are as follows.

- it changes the name of the standard;
- it adds symbols and terms (Chapter 3);
- it adds the designation of lengths and thread lengths (Chapter 4);
- it gives limiting dimensions in accordance with product grades (Table 1); and
- it changes "thread lengths for general purpose bolts" into "dimensions for thread lengths".

This Standard was redrafted by reference to ISO 888.2012, Fasteners - Bolts, Screws and Studs - Nominal Lengths and Thread Lengths (English edition).

The technical differences between this Standard and ISO 8673.2012 and their reasons are as follows.

- in the Normative References, it uses Chinese standards to replace the international standards (Chapter 2), in order to meet Chinese basic standards of fasteners.

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee on Fasteners (SAC/TC 85).

The responsible drafting organizations of this Standard. China Productivity Center for Machinery.

The drafting organizations of this Standard. Shanghai Jinma High Strength Fastener Co., Ltd., Shaoxing Sunny High Strength Fasteners Co., Ltd. and Aozhan Industrial Co., Ltd.

This Standard shall be interpreted by the Secretariat of the National Standardization Technical Committee on Fasteners.

The previous edition replaced by this Standards is as follows.

-- GB/T 3106-1982.

Fasteners - Bolts, Screws and Studs -
Nominal Lengths and Thread Lengths

1 Scope

This Standard specifies the nominal lengths and thread lengths for bolts, screws and studs used in product standards and other relevant documents, for example parts drawings.

This Standard applies to bolts, screws and studs whose thread is in accordance with GB/T 192.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced document (including any amendments) applies to this Standard.

GB/T 2 Fasteners - Ends of Parts with External Thread (GB/T 2-2016, ISO 4753:2011, MOD)

GB/T 192 General Purpose Metric Screw Threads - Basic Profile (GB/T 192-2003, ISO 4759-1:2000)

GB/T 3103.1 Essential Oils and Aromatic Extracts - Determination of Residual Benzene Content (GB/T 3103.1-2002, ISO 4759-1.2000, IDT)

GB/T 5276 Fasteners - Bolts, Screws, Studs and Nuts - Symbols and Description of Dimensions (GB/T 5276-2015, ISO 225.2010, MOD)

3 Symbols

b thread length

b1 thread length of one end for double-end stud

b2 thread length of the other end for double-end stud

bm thread length of the stud metal end

d nominal diameter of the thread

l nominal length (of bolt, screw or stud)

-- lg, max = lnom - b

-- ls, min = lg, max - 5P

b) for slotted or recessed screws and similar screws (e.g. pan head, cheese head, countersunk head specified in GB/T 5276) and studs, the tolerance for b is .

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