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भारतीय मानक मसौदा
बंधको – मीटरी सूक्ष्म अंतराल वाली चूड़ी सहित षट्कोणीय शीर्ष वाले काबले –
उत्पाद ग्रेड ए और बी
(IS 13726 का तीसरा पुनरीक्षण)

Draft Indian Standard

Fasteners — Hexagon Head Bolts, with Fine Pitch Thread —
Product Grades A and B
(*Third Revision of IS 13726*)

ICS 21.060.10

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Last date for receipt of comment is
15 August 2023

General Engineering and Fasteners Standards Sectional Committee, PGD 37

NATIONAL FOREWORD

This Indian Standard (Third Revision) which is identical with ISO 8765 : 2022 ‘Fasteners — Hexagon head bolts, with fine pitch thread — Product grades A and B’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the General Engineering and Fasteners Standards Sectional Committee and approval of the Production and General Engineering Division Council.

This standard was originally published in 1994 and subsequently revised in 2002 and 2011. The third revision of this standard has been undertaken to align it with the latest version of ISO 8765.

The major changes in this revision are as follows:

- a) Tables for dimensions have been entirely restructured, so that the user can find the specified values in a reliable manner (no risk of picking the wrong dimension) (*see 4* and Annex A);
- b) M18×2 has been added;
- c) $d_{w,min}$ for M14×1.5 has been corrected to 19.64 mm;
- d) The rules for the shortest and greatest standard lengths have been added, and they have been amended accordingly;
- e) For steel bolts, property class 5.6 has been deleted and property class 12.9/12.9 has been added;
- f) For stainless steel bolts, grades D4 and D6 and property class 80 have been added;
- g) Non-ferrous metal bolts have been deleted; and
- h) Specifications for marking and labelling have been added as **6**.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 225 Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions	IS 8536 : 2021 Fasteners — Bolts, Screws, Studs and Nuts — Symbols and Descriptions of Dimensions	Identical with ISO 225 : 2010
ISO 262 ISO general purpose metric screw threads — Selected sizes for screws, bolts and nuts	IS 4218 (Part 4) : 2001 ISO general purpose metric screw threads: Part 4 Selected sizes for screws, bolts and nuts (<i>second revision</i>)	Identical with ISO 262 : 1998
ISO 888 Fasteners — Bolts, screws and studs — Nominal lengths and thread lengths	IS 4206 : 2018 Dimensions for nominal lengths and thread lengths for bolts, screws and studs (<i>second revision</i>)	Identical with ISO 888 : 2012
ISO 898-1 Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread	IS 1367 (Part 3) : 2017 Technical supply conditions for threaded steel fasteners: Part 3 Mechanical properties of fasteners made of carbon steel and bolts, screws and studs (<i>fifth revision</i>)	Identical with ISO 898-1 : 2013
ISO 965-1 ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data	IS 14962 (Part 1) : 2018 ISO General Purpose Metric Screw threads — Tolerances: Part 1 Principles and basic data (<i>first revision</i>)	Identical with ISO 965-1 : 2013
ISO 3269 Fastener — Acceptance inspection	IS 1367(Part 17) : 2005 Technical supply conditions for threaded steel fasteners: Part 17 Inspections, sampling and acceptance procedure (<i>fourth revision</i>)	Identical with ISO 3269 : 2000

ISO 3506-1 Fasteners — Mechanical properties of corrosion-resistant stainless-steel fasteners — Part 1: Bolts, screws and studs with specified grades and property classes	IS 1367 (Part 14/Sec 1) : 2018 Technical supply conditions for threaded steel fasteners: Part 14 Mechanical properties of corrosion-resistant stainless-steel fasteners, Section 1 Bolts, screws and studs (<i>fourth revision</i>)	Identical with ISO 3506-1 : 2009
ISO 4042 Fasteners — Electroplated coating systems	Doc No. PGD 37 (19630) Technical supply conditions for threaded steel fasteners: Part 11 Electroplated coating systems (<i>fifth revision</i>)	Identical with ISO 4042 : 2023
ISO 4753 Fasteners — Ends of parts with external ISO metric thread	IS 1368 : 2018 Dimensions for ends of parts with external ISO metric threads (<i>fourth revision</i>)	Identical with ISO 4753 : 2011
ISO 4759-1 Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C	IS 1367 (Part 2) :2002 Technical supply conditions for threaded steel fasteners: Part 2 Tolerances for fasteners — Bolts, screws, studs and nuts — Product grades A, B and C (<i>third revision</i>)	Identical with ISO 4759-1 : 2000
ISO 6157-1 Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements	IS 1367 (Part 9/Sec 1) : 1993 Technical supply conditions for threaded steel fasteners: Part 9 Surface discontinuities Section 1 Bolts, screws and studs for general applications (<i>third revision</i>)	Identical with ISO 6157-1 : 1988
ISO 6157-3 Fasteners — Surface discontinuities — Part 3: Bolts, screws and studs for special requirements	IS 1367 (Part 9/Sec 2) : 1993 Technical supply conditions for threaded steel fasteners: Part 9 Surface discontinuities Section 2 Bolts, screws and studs for special applications (<i>third revision</i>)	Identical with ISO 6157-3 : 1988
ISO 8991 Designation system for fasteners	IS 1367 (Part 16) : 2002 Technical supply conditions for threaded steel fasteners: Part 16 Designation system for fasteners (<i>third revision</i>)	Identical with ISO 8991 : 1986

ISO 8992 Fasteners — General requirements for bolts, screws, studs and nuts	IS 1367 (Part 1) : 2014 Technical supply conditions for threaded steel fasteners: Part 1 General requirements for bolts, screws, studs and nuts (<i>fourth revision</i>)	Identical with ISO 8992 : 2005
ISO 10683 Fasteners — Non-electrolytically applied zinc flake coating systems	IS 10683 : 2018 Fasteners — Non-electrolytically applied zinc flake coating systems	Identical with ISO 10683 : 2018

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 1891-4	Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality

The standard also makes a reference to the BIS Certification Marking and packaging of the product. Details of which are given in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained on the rounded off value should be the same as that of the specified value in this standard

National Annex A
(National Foreword)

A-1 PACKAGING

The packaging of hexagon head bolts shall be in accordance with IS 1367 (Part 18) : 1996 ‘Industrial fasteners — Threaded steel fasteners — Technical supply conditions: Part 18 Packaging’.

A-2 BIS CERTIFICATION MARKING

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations frames thereunder, and the product(s) may be marked with the Standard Mark.

NOTE: The technical content of draft standard is not available on website. For details please refer to ISO 8765 : 2022 or contact:

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