



SLOVENSKI STANDARD SIST EN ISO 4015:2022

01-september-2022

Nadomešča:
SIST EN 24015:1996

Vezni elementi - Vijaki s šeststrobo glavo z zmanjšanim stebлом (premer stebra ≈ premer navoja) - Razred izdelave B (ISO 4015:2022)

Fasteners - Hexagon head bolts with reduced shank (shank diameter ≈ pitch diameter) - Product grade B (ISO 4015:2022)

Sechskantschrauben mit Schaft, Dünnschaft (Schaftdurchmesser ≈ Flankendurchmesser) - Produktklasse B (ISO 4015:2022)

Fixations - Vis à tête hexagonale partiellement filetées à tige réduite (diamètre de tige ≈ diamètre sur flanc de filet) - Grade B (ISO 4015:2022)

Ta slovenski standard je istoveten z: EN ISO 4015:2022

ICS:

21.060.10 Sorniki, vijaki, stebelni vijaki Bolts, screws, studs

SIST EN ISO 4015:2022

en,fr,de

EUROPEAN STANDARD

EN ISO 4015

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2022

ICS 21.060.10

Supersedes EN 24015:1991

English Version

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This European Standard was approved by CEN on 25 September 2021.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 4015:2022) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 4015:2022 has been approved by CEN as EN ISO 4015:2022 without any modification.

INTERNATIONAL
STANDARD

ISO
4015

Second edition
2022-06

**Fasteners — Hexagon head bolts with
reduced shank (shank diameter \approx
pitch diameter) — Product grade B**

*Fixations — Vis à tête hexagonale partiellement filetées à tige réduite
(diamètre de tige \approx diamètre sur flanc de filet) — Grade B*

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ISO 4015:2022(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 11, *Fasteners with metric external thread*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 185, *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 4015:1979), which has been technically revised.

The main changes are as follows:

- the indentation on the head and the washer-face under the head have been left to the choice of the manufacturer, however limits for dimensions have been added;
- tables for dimensions have been restructured;
- M3,5, M7 and M18 have been added;
- $d_{w,min}$ has been changed for sizes $d \leq M5$ from $s_{min} - IT16$ to $s_{min} - IT15$ in order to have a larger bearing surface area and thus less contact pressure, and its values for $d > M5$ have been recalculated in accordance with ISO 4759-1 without rounding off;
- values for $k_{w,min}$ have been recalculated in accordance with ISO 4759-1 without rounding off;
- value for e_{min} has been corrected for M3;
- addition of property class 6.8 for steel bolts and property class 50 for stainless steel bolts;
- non-ferrous metal bolts have been deleted;
- specifications for marking and labelling have been added as [Clause 6](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.