INTERNATIONAL STANDARD

ISO 23429

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Gauging of hexagon sockets

Calibrage des six pans creux

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 23429 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Gauging of hexagon sockets

1 Scope

This International Standard specifies gauges for hexagon sockets with tolerances as specified in ISO 4759-1.

2 Normative references

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

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

3 Dimensions

For gauge dimensions see Figure 1 and Table 2.

For design rules for gauge dimensions see Table 1.

4 Designation

EXAMPLE A gauge for a hexagon socket with a width across flats of 10 mm is designated as follows:

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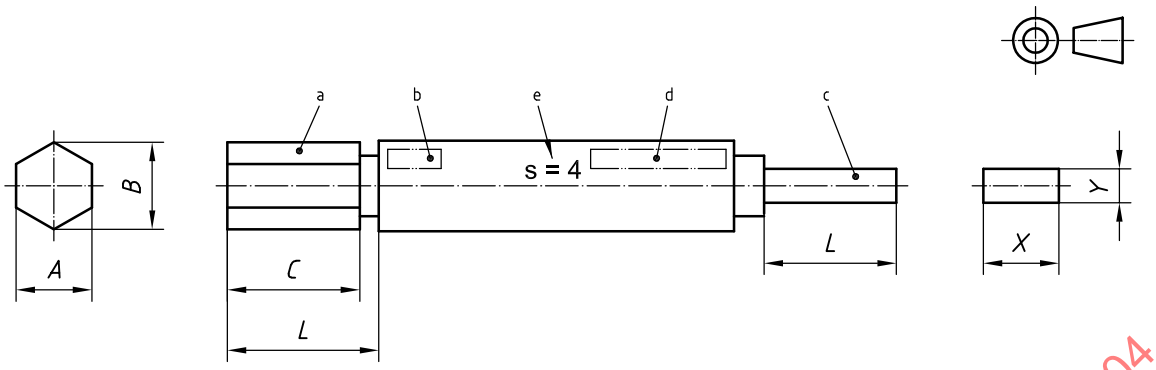
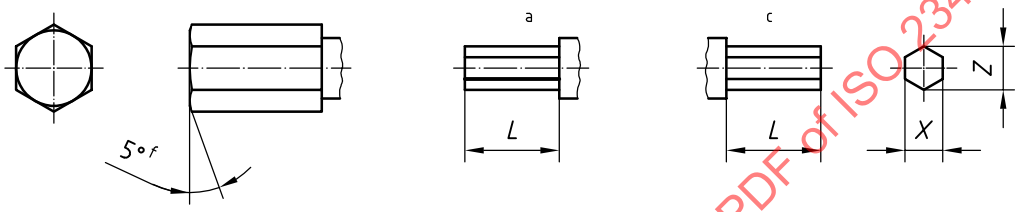


a) Regular construction



b) Optional constructions of GO members and NOT GO members for small sizes

a GO member.

b Panel for marking GO.

c NOT GO member.

d Panel for marking NOT GO.

e Socket size (width across flats).

f 5° chamfer optional.

Figure 1 — Gauge dimensions

Table 1 — Design rules for gauge dimensions

Dimensions in millimetres

Gauge type	Dimensions
GO gauge for dimension s[a]	$A_{max} = s_{min} - 0{,}001$ $A_{min} = A_{max} - 0{,}003\ (s \leqslant 2)$ $A_{min} = A_{max} - 0{,}005\ (s > 2)$
GO gauge for dimension e[b]	$B_{max} = e_{min} - 0{,}005$ $B_{min} = B_{max} - 0{,}005$
NOT GO gauge for dimension s	$X_{min} = s_{max} + 0{,}001$ $X_{max} = X_{min} + 0{,}002\ (s \leqslant 2)$ $X_{max} = X_{min} + 0{,}005\ (s > 2)$
[a] Width across flats of socket. [b] Width across corners of socket.	