

INTERNATIONAL
STANDARD

ISO
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Socket wrenches for spark- and glow-plugs

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Reference number
ISO 11168:1995(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.

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.

International Standard ISO 11168 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 10, *Spanners and wrenches*.

Annex A of this International Standard is for information only.

[ISO 11168:1995](https://standards.iteh.ai/standard/iso-11168-1995)

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1 Scope

This International Standard specifies the dimensions and the technical requirements for socket wrenches for spark- and glow-plugs.

based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

The wrenches described in the present International Standard are for hand operation and are designed to drive spark and glow diesel plugs with hexagon drive.

ISO 691:1983, *Wrench and socket openings — Metric series — Tolerances for general use.*

2 Normative references

ISO 1174:1975, *Assembly tools for bolts and screws — Driving squares for power socket wrenches and hand socket wrenches.*

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements

3 Dimensions

The dimensions shown in figure 1 are given in millimetres in table 1 (see also figure 2).

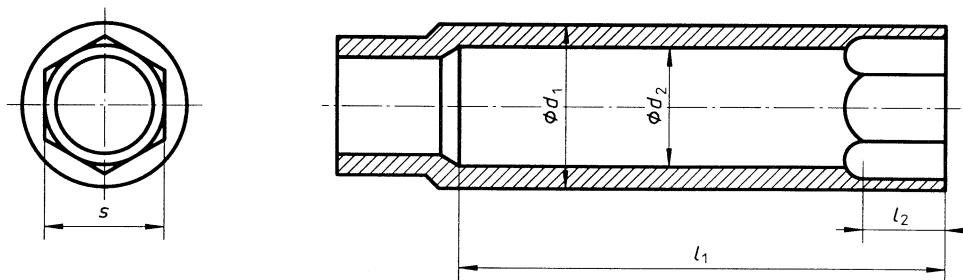


Figure 1 — Socket wrench for spark- and glow-plugs

Table 1 — Wrench dimensions

| Width across flats | | d_1 max. | d_2 min. | l_1 min. | l_2 | | | |
|--------------------|-----------------------|---------------|---------------|---------------|-------|------|--|--|
| nom. | tol. | | | | max. | min. | | |
| 12 | $+0,24$ $+0,04$ | 17,5 | 11 | 40 | 13,0 | 9,5 | | |
| 14 | $+0,27$ $+0,05$ | 19,5 | 11 | 40 | | | | |
| 16 | $+0,18$ $+0,05$ 1) | 22 | See figure 2 | | | | | |
| 19 | $+0,36$ $+0,06$ | 25,5 | 18 | 56 | | | | |
| 20,8 | $+0,36$ $+0,06$ | 27,5 | 20 | 67 | | | | |
| 22,2 | $+0,36$ $+0,06$ | 29 | 21 | 70 | | | | |
| 25,5 | $+0,36$ $+0,06$ | 33 | 24 | 74 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

1) The maximum tolerance + 0,18 varies from that of ISO 691 to improve the socket hexagon interface with spark-plug hexagon, in order to reduce the probability of the socket being tipped and contacting the insulator causing damage.

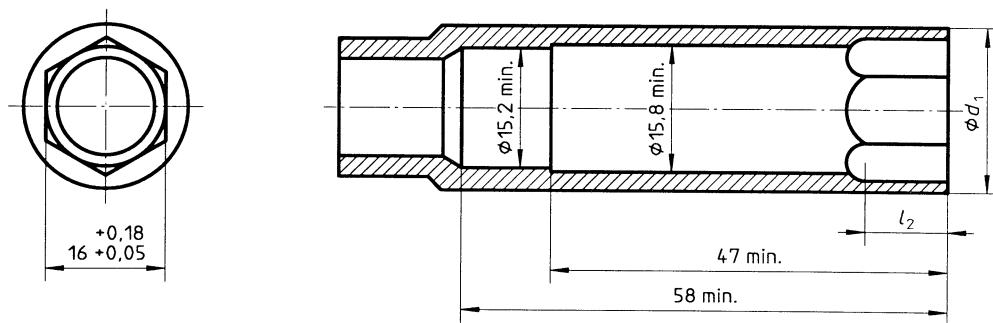


Figure 2 — Socket wrench for spark- and glow-plugs 16 mm across the flats