
Diesel engines — Base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems — Mounting dimensions

Moteurs diesels — Pompes d'injection en ligne à fixation par base plane et pompes d'alimentation à haute pression pour systèmes d'injection de carburant à rampe commune — Dimensions de montage

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain, and powertrain fluids*.

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.

This fifth edition cancels and replaces the fourth edition (ISO 7612:2009), which has been revised by removing Type 8 which is no longer in serial production and correcting a dimensional error in [Figure 2](#).

Diesel engines — Base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems — Mounting dimensions

1 Scope

This document specifies dimensional requirements for base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems for diesel (compression-ignition) engines.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 6519, *Diesel engines — Fuel injection pumps — Tapers for shaft ends and hubs*

3 Terms and definitions

No terms and definitions are listed in this document.

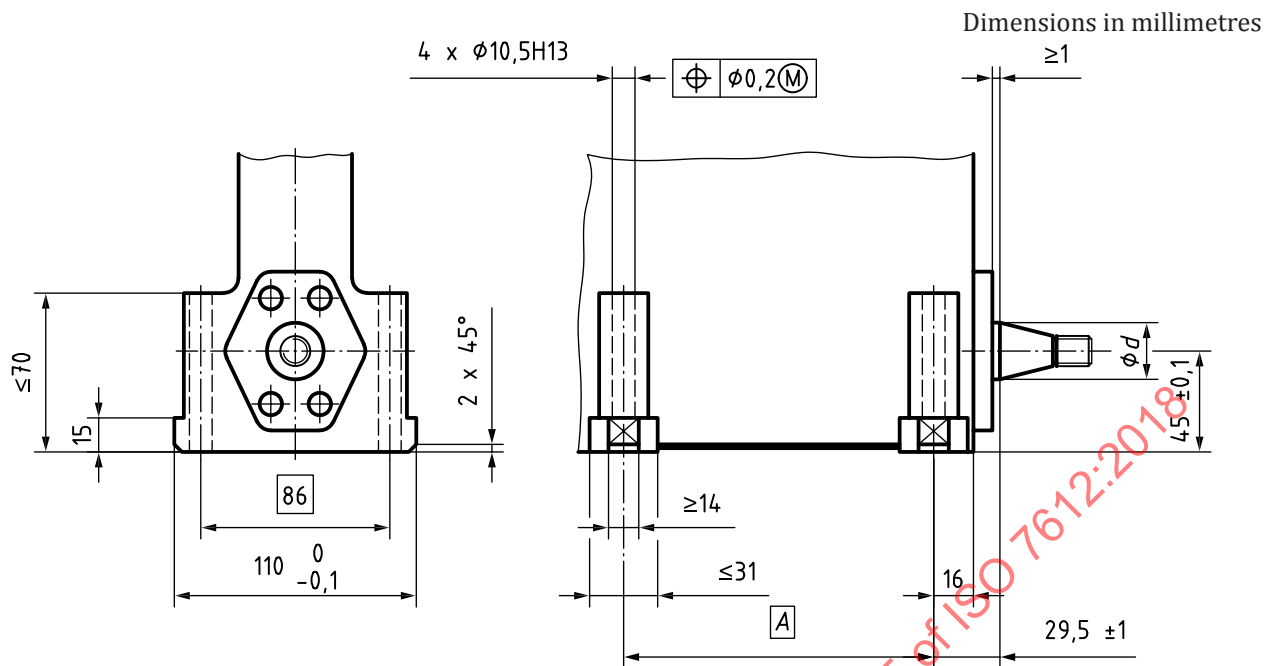
ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Dimensions and tolerances

Dimensions and tolerances are given in [Figures 1 to 7](#) and [Tables 1 to 4](#).

Dimensions and tolerances not given in this document are left to the manufacturer's choice.



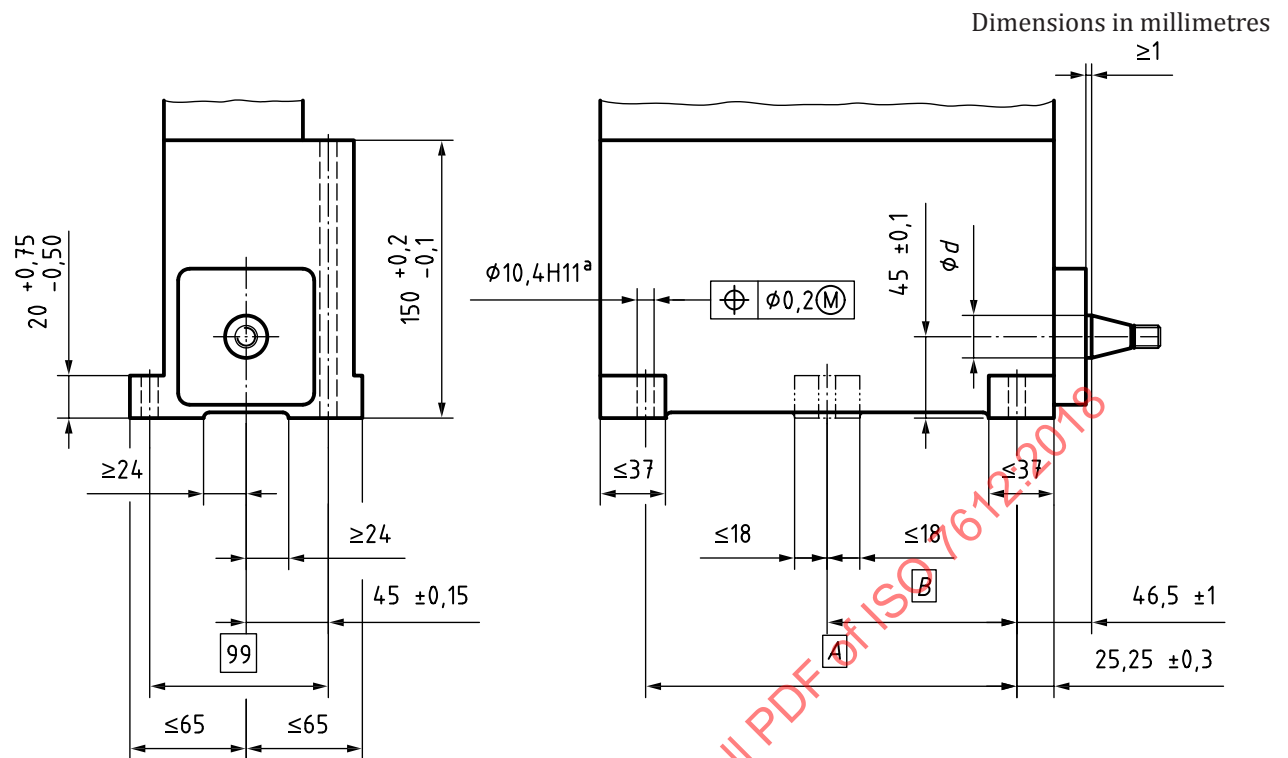
NOTE See [Table 1](#) for other dimensions.

Figure 1 — Base-mounted in-line fuel injection pump — Type 1

Table 1 — Base-mounted in-line fuel injection pump — Type 1

Number of cylinders	d^a nom. mm	A ref. mm
4	25 or 30	140
6		210
8		280
10		353
12		423

^a This dimension shall correspond to dimension d in ISO 6519.



^a 4 or 6 holes.

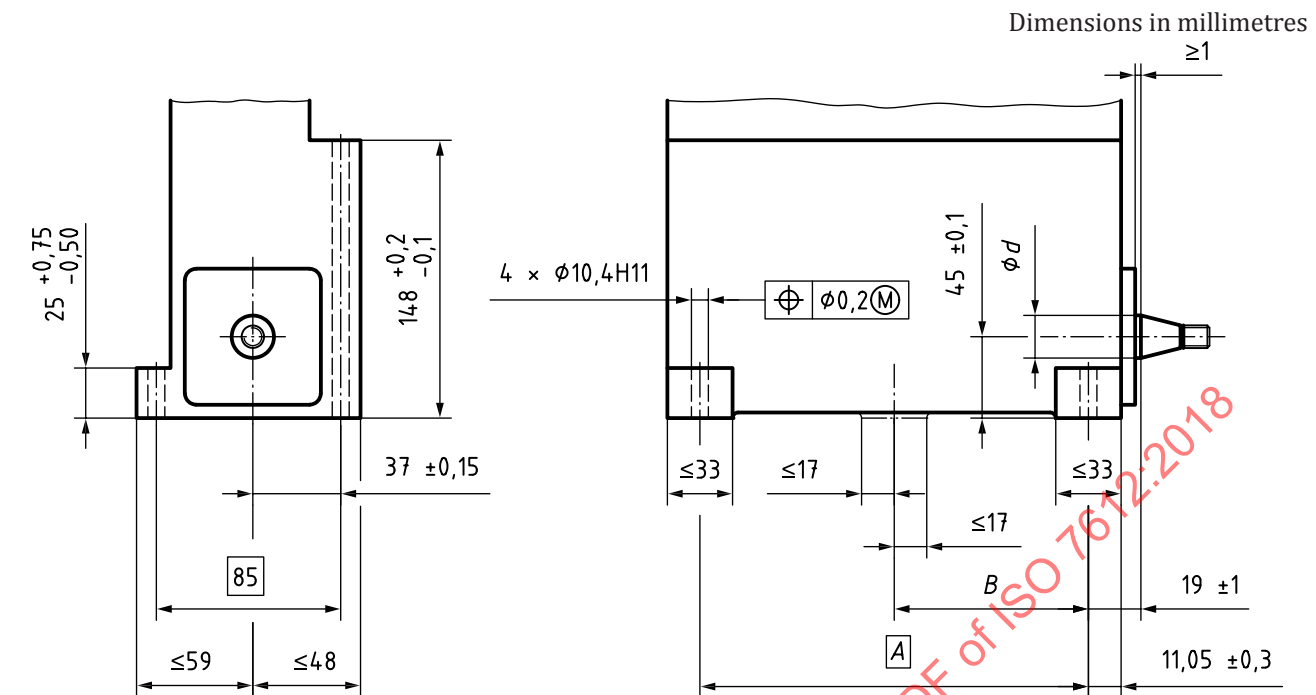
NOTE See Table 2 for other dimensions.

Figure 2 — Base-mounted in-line fuel injection pump — Type 2

Table 2 — Base-mounted in-line fuel injection pump — Type 2

Number of cylinders	d_a nom. mm	A ref. mm	B ref. mm	Number of fixing holes
4	25 or 30	133,5	—	4
6		206	—	4
8		278,5	139,25	6

^a This dimension shall correspond to dimension d in ISO 6519.



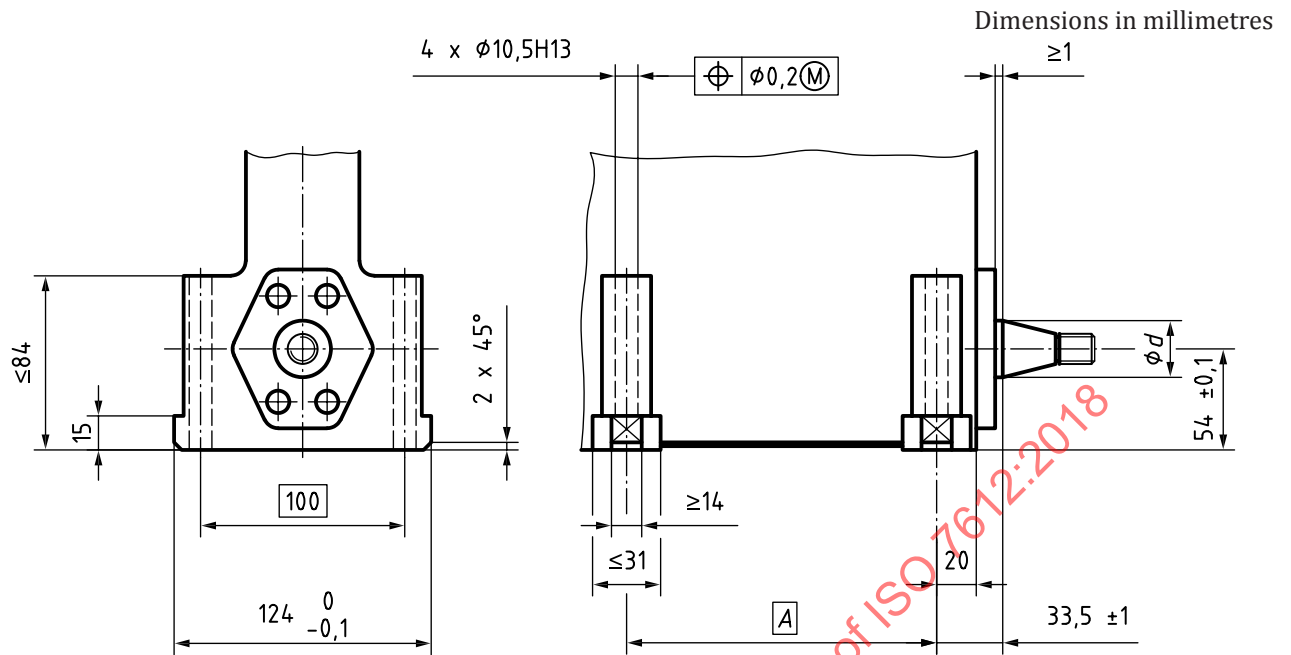
NOTE See [Table 3](#) for other dimensions.

Figure 3 — Base-mounted in-line fuel injection pump — Type 3

Table 3 — Base-mounted in-line fuel injection pump — Type 3

Number of cylinders	d^a nom. mm	A ref. mm	B $\pm 0,25$ mm
4	25 or 30	154	—
6		218	—
8		302	151

^a This dimension shall correspond to dimension d in ISO 6519.

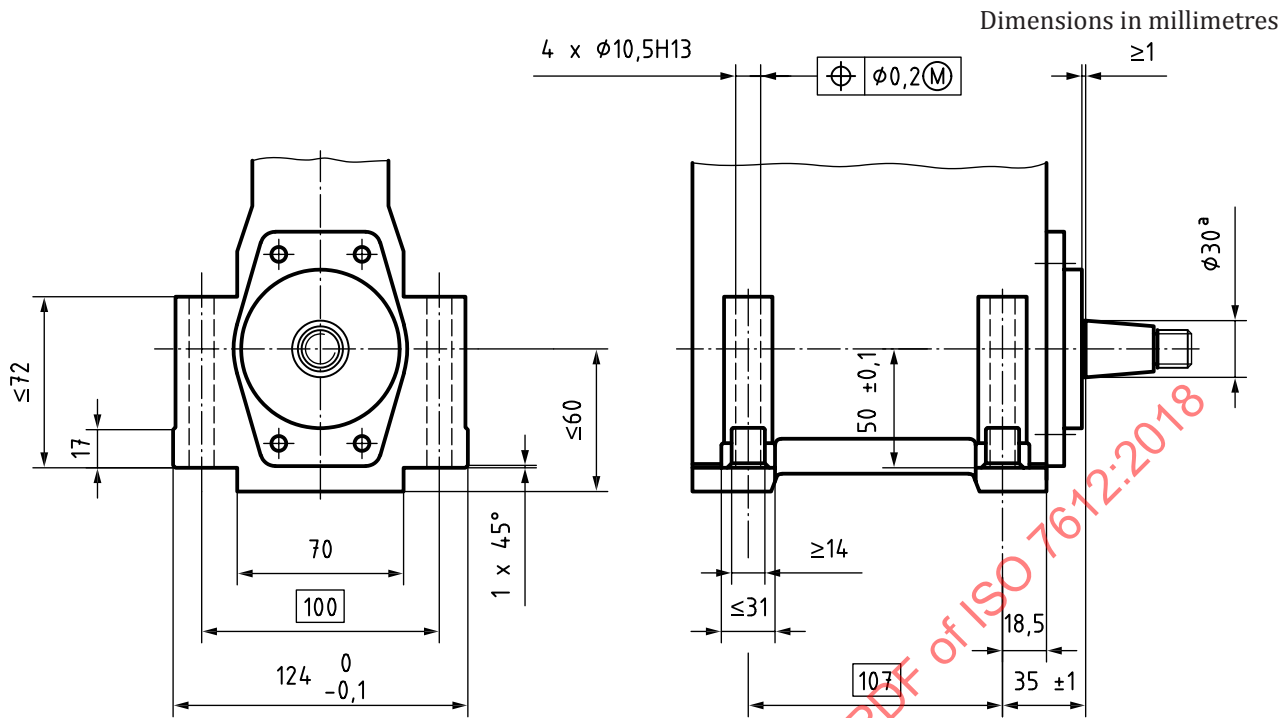


NOTE See Table 4 for other dimensions.

Figure 4 — Base-mounted in-line fuel injection pump — Type 4

Table 4 — Base-mounted in-line fuel injection pump — Type 4

Number of cylinders	d^a nom. mm	A ref. mm
4	30 or 35	132
6		202
8		272
^a This dimension shall correspond to dimension d in ISO 6519.		



a This dimension shall correspond to dimension d in ISO 6519.

Figure 5 — Base-mounted, two-cylinder, high-pressure supply pump — Type 5

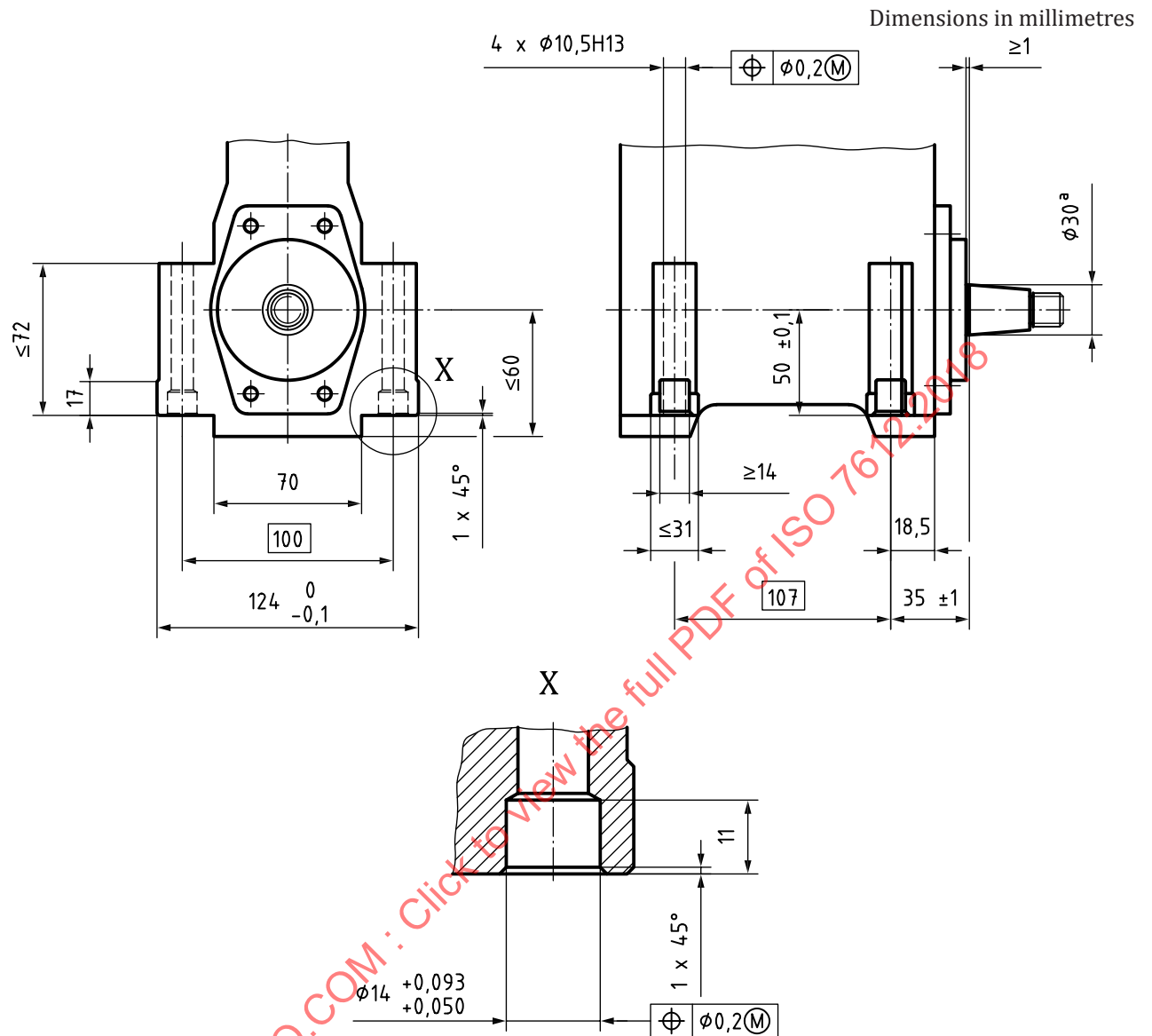


Figure 6 — Base-mounted, two-cylinder, high-pressure supply pump — Type 6