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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

Reference number
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword

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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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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

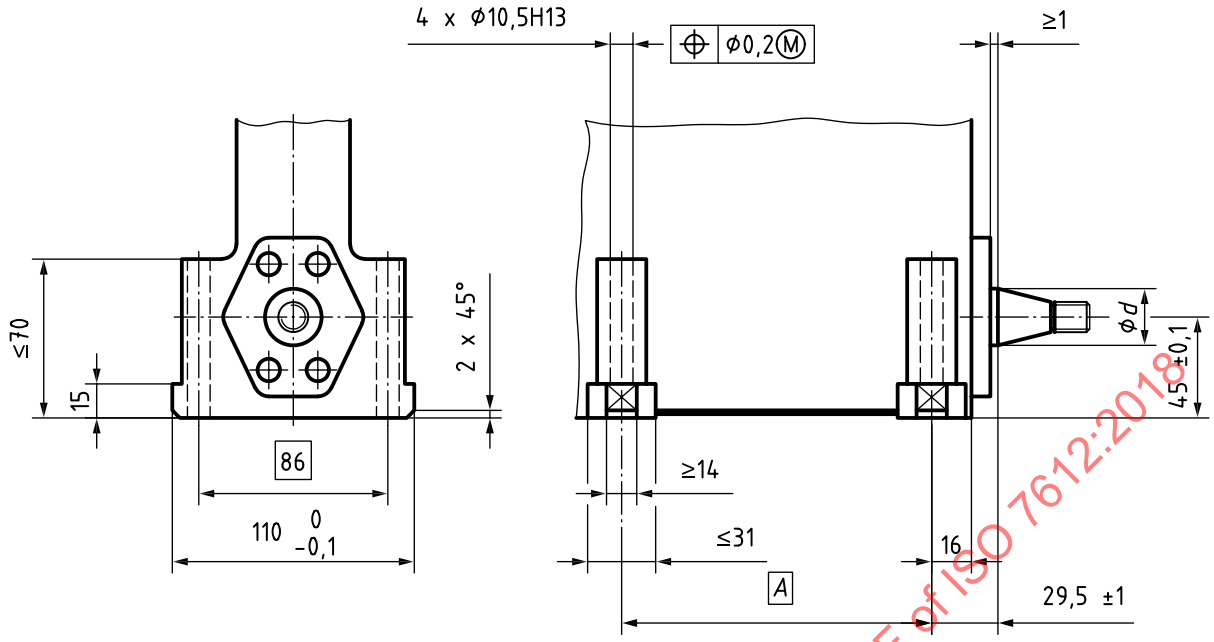
— IEC Electropedia: available at http://www.electropedia.org/

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.

Dimensions in millimetres



NOTE See Table 1 for other dimensions.

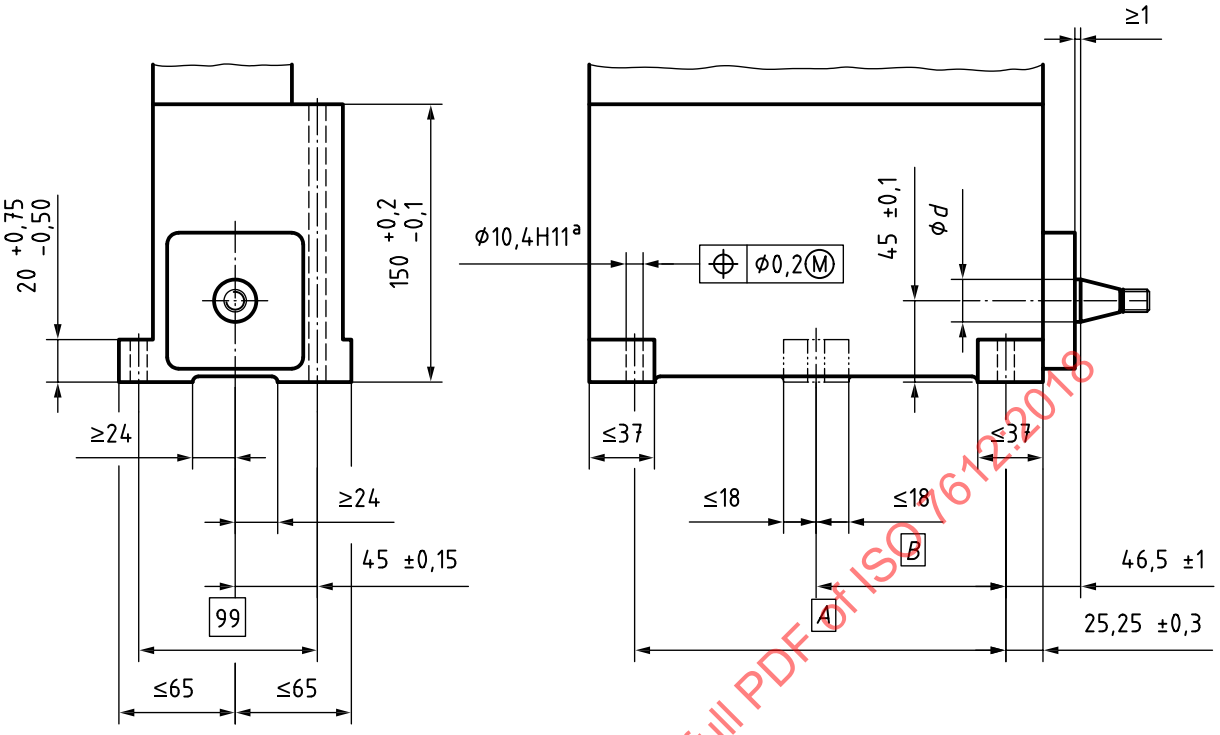
Figure 1 — Base-mounted in-line fuel injection pump — Type 1

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.

Dimensions in millimetres



a 4 or 6 holes.

NOTE See Table 2 for other dimensions.

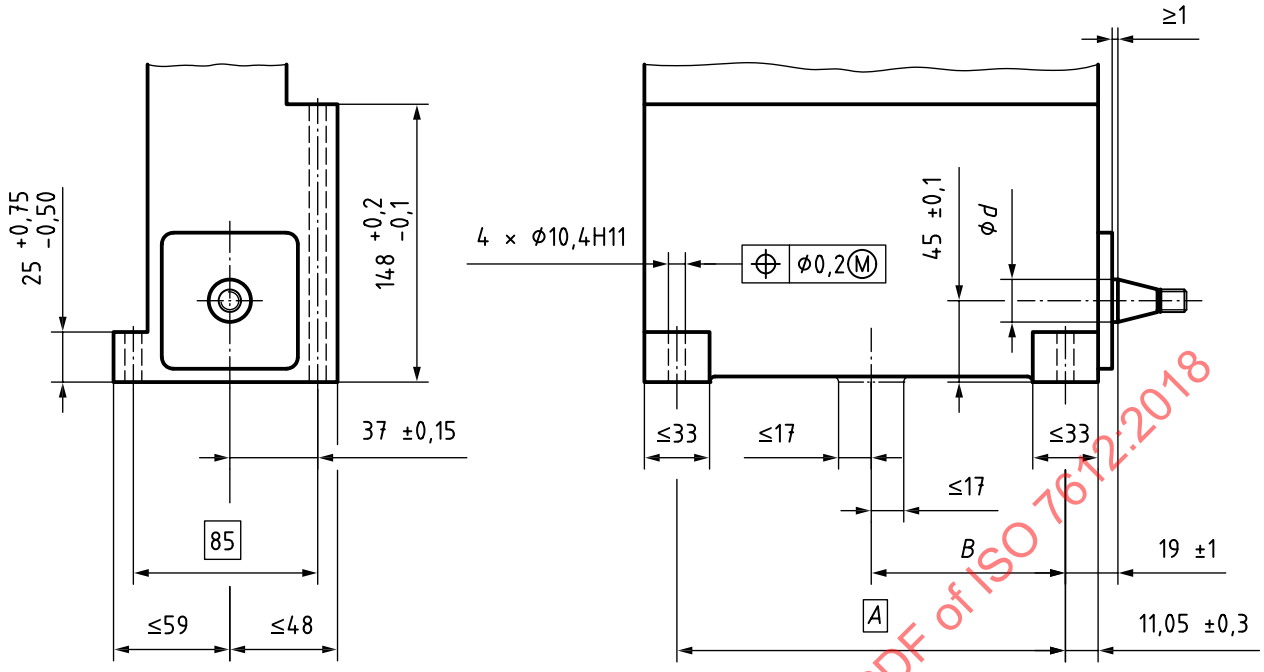
Figure 2 — Base-mounted in-line fuel injection pump — Type 2

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.

Dimensions in millimetres



NOTE See Table 3 for other dimensions.

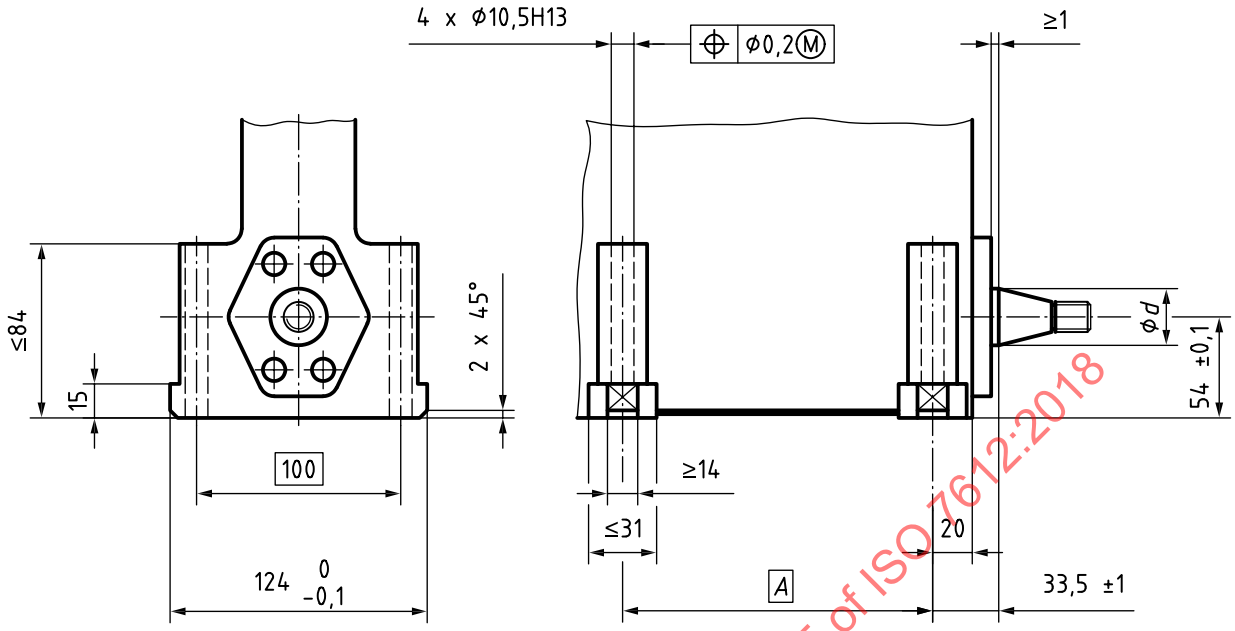
Figure 3 — Base-mounted in-line fuel injection pump — Type 3

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

Number of cylinders	*d*[a] nom. mm	*A* ref. mm	*B* ±0,25 mm
4	25 or 30	154	—
6		218	—
8		302	151

[a] This dimension shall correspond to dimension *d* in ISO 6519.

Dimensions in millimetres



NOTE See Table 4 for other dimensions.

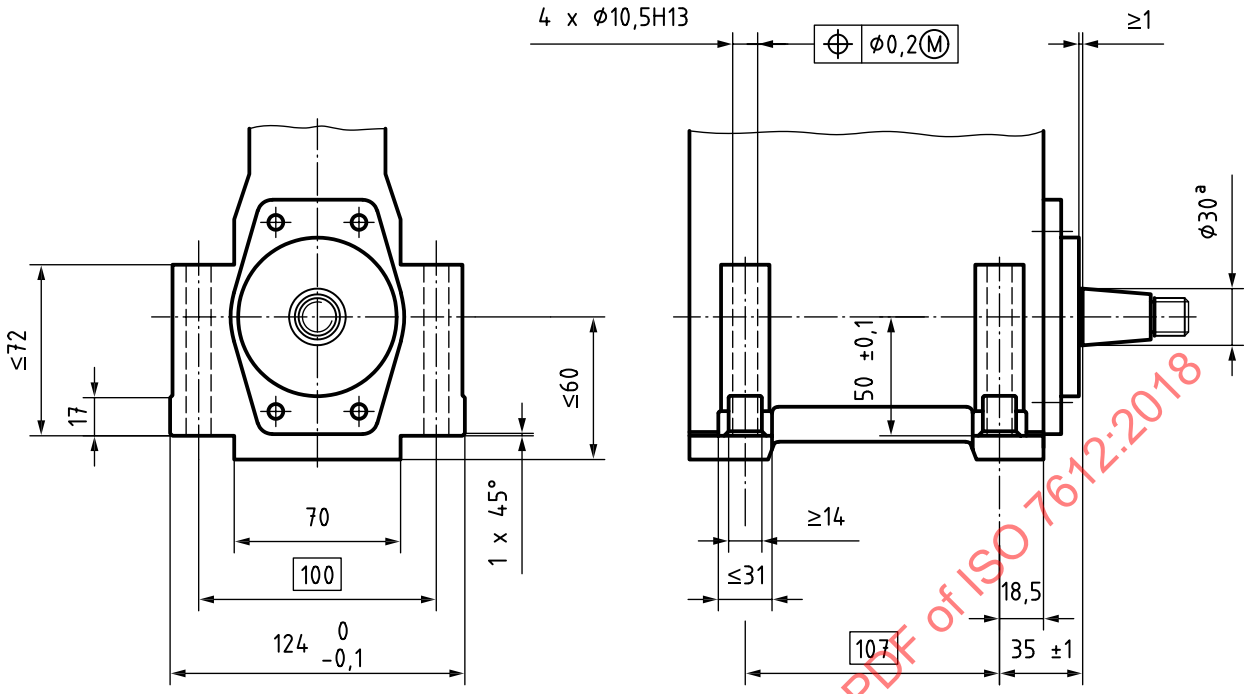
Figure 4 — Base-mounted in-line fuel injection pump — Type 4

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.

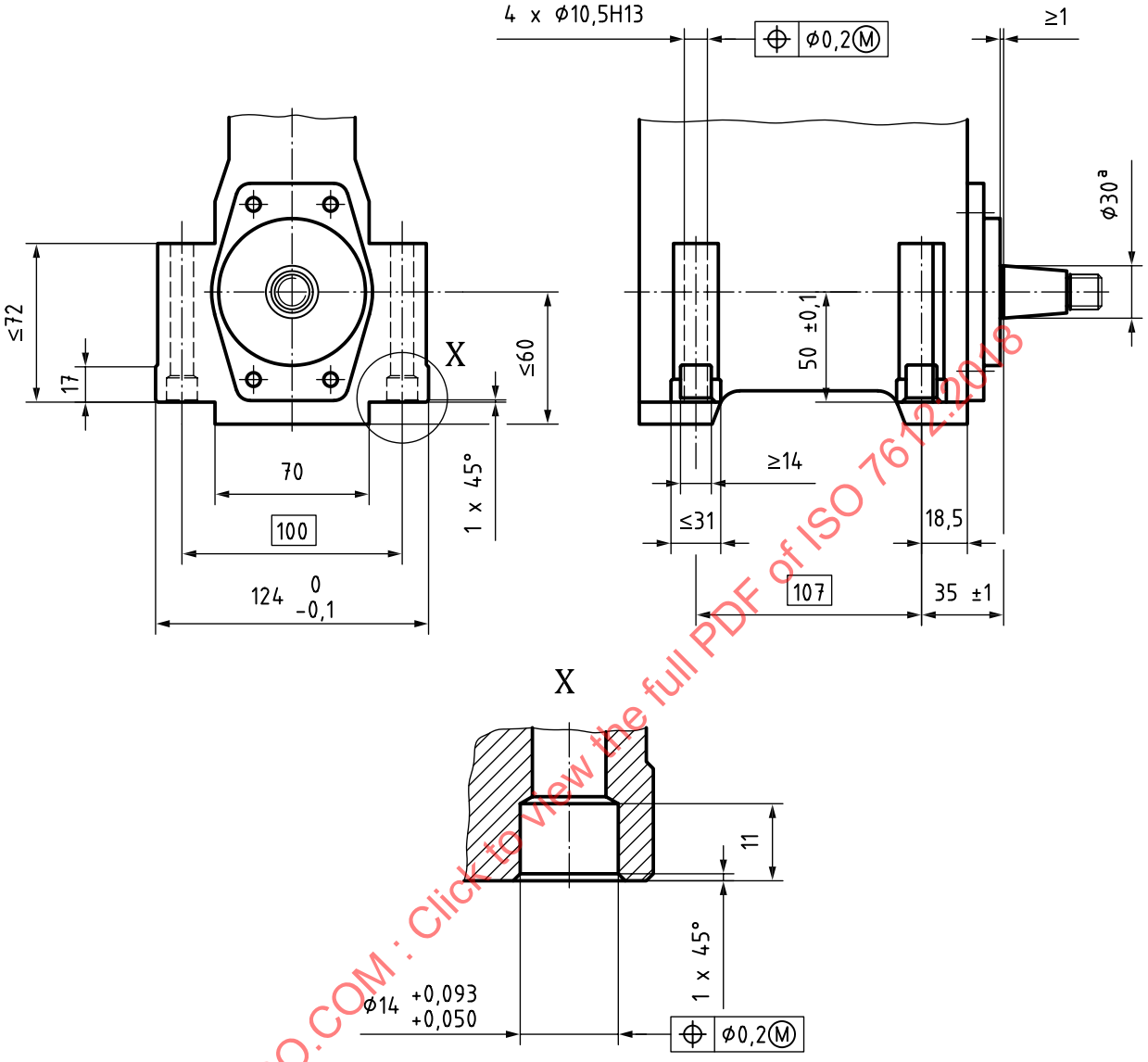
Dimensions in millimetres



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

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

Dimensions in millimetres



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

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