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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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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 7612 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 7, *Injection equipment and filters for use on road vehicles*.

This fourth edition cancels and replaces the third edition (ISO 7612:2006), which has been technically revised.

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

1 Scope

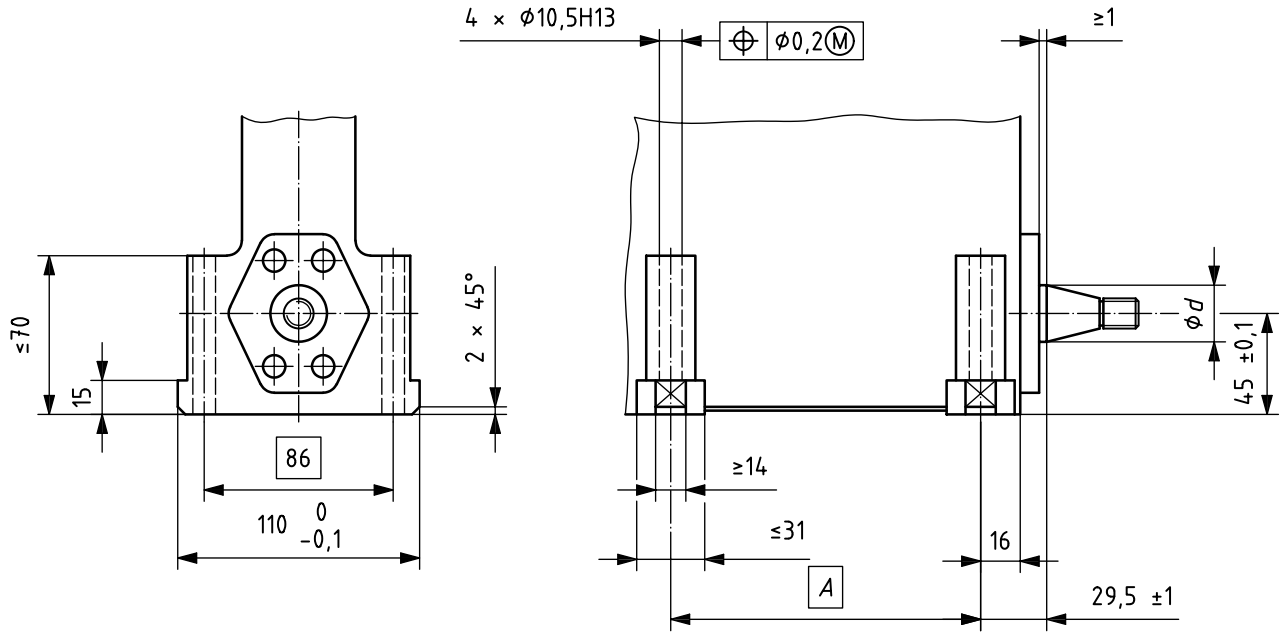
This International Standard specifies dimensional requirements for base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems for diesel (compression-ignition) engines.

2 Dimensions and tolerances

Dimensions and tolerances are given in Figures 1 to 8 and Tables 1 to 4.

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

Dimensions in millimetres



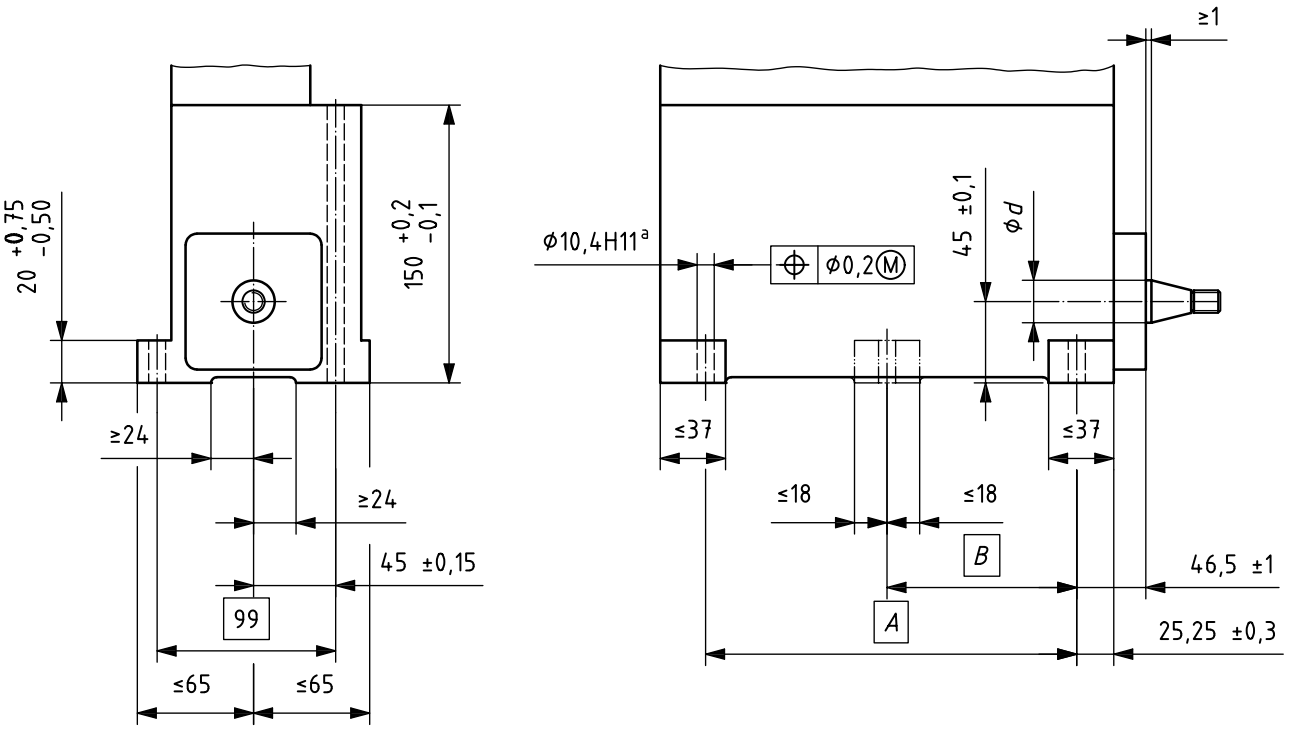
See Table 1 for other dimensions.

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] Corresponds to dimension d in ISO 6519.		

Dimensions in millimetres



See Table 2 for other dimensions.

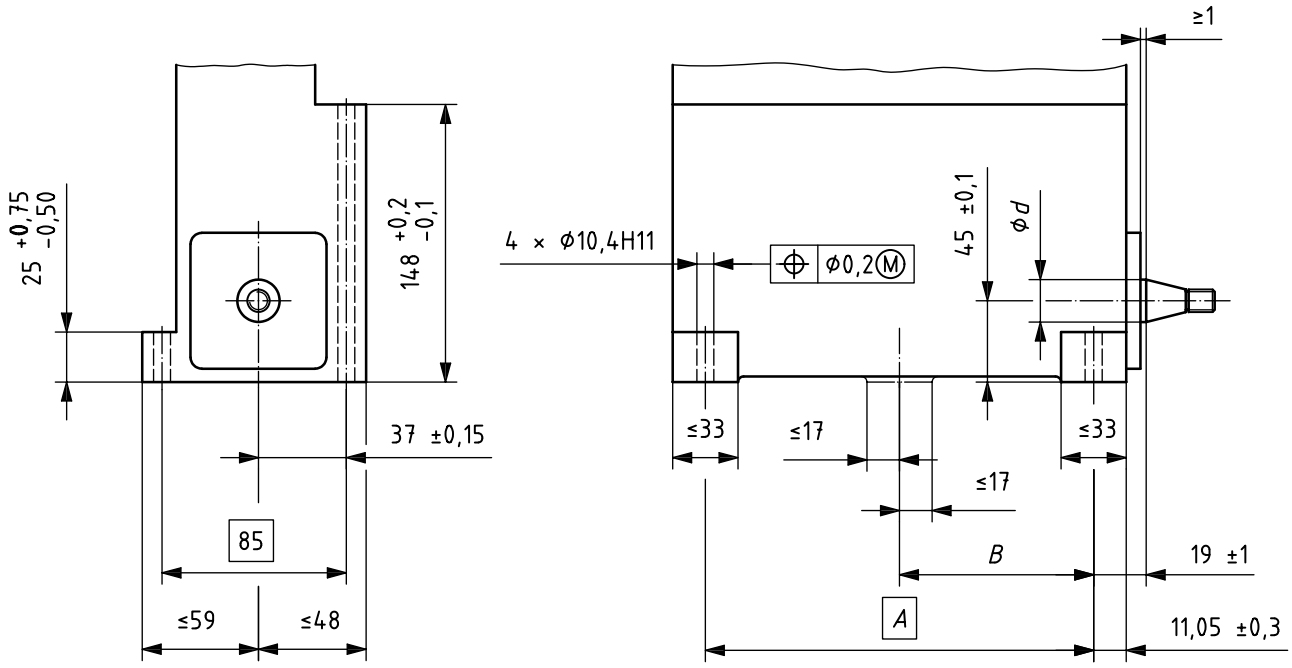
[a] 4 or 6 holes.

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] Corresponds to dimension d in ISO 6519.				

Dimensions in millimetres



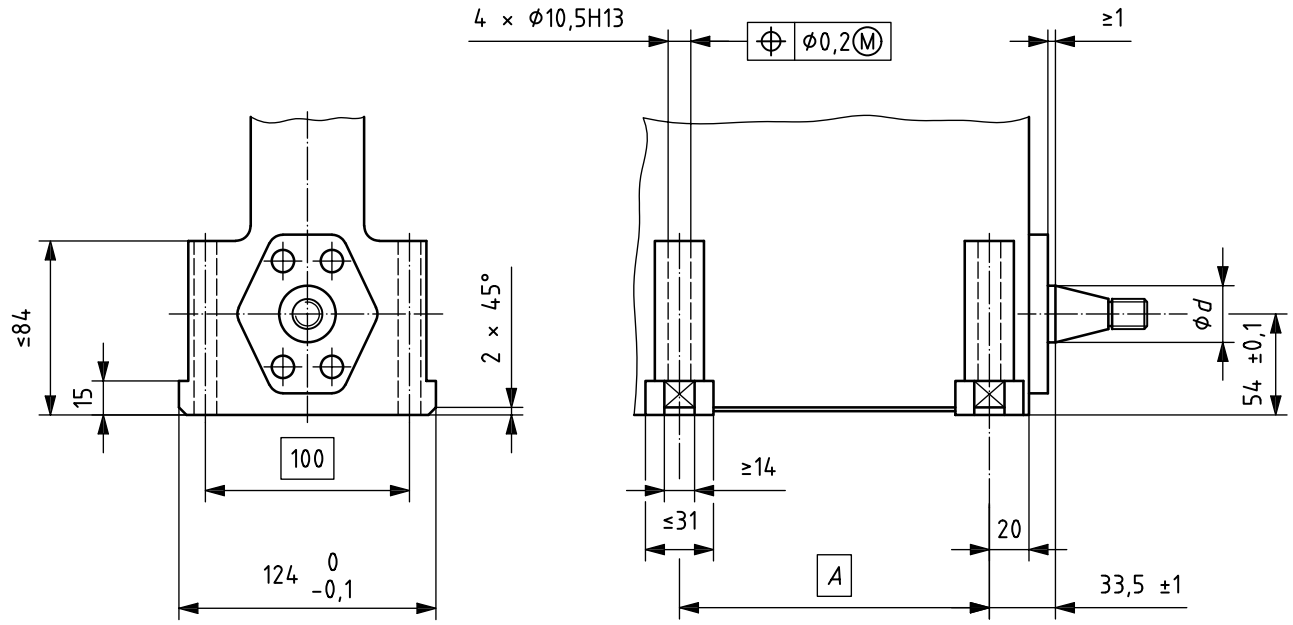
See Table 3 for other dimensions.

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] Corresponds to dimension d in ISO 6519.			

Dimensions in millimetres



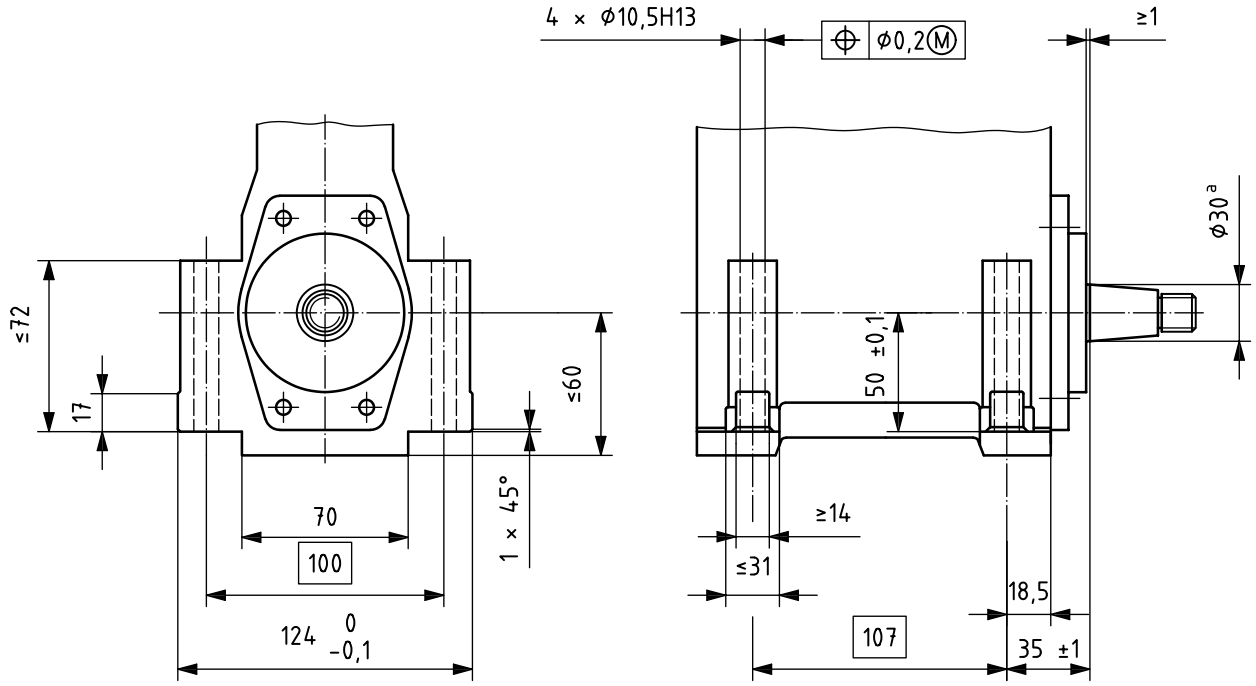
See Table 4 for other dimensions.

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 Corresponds to dimension d in ISO 6519.		

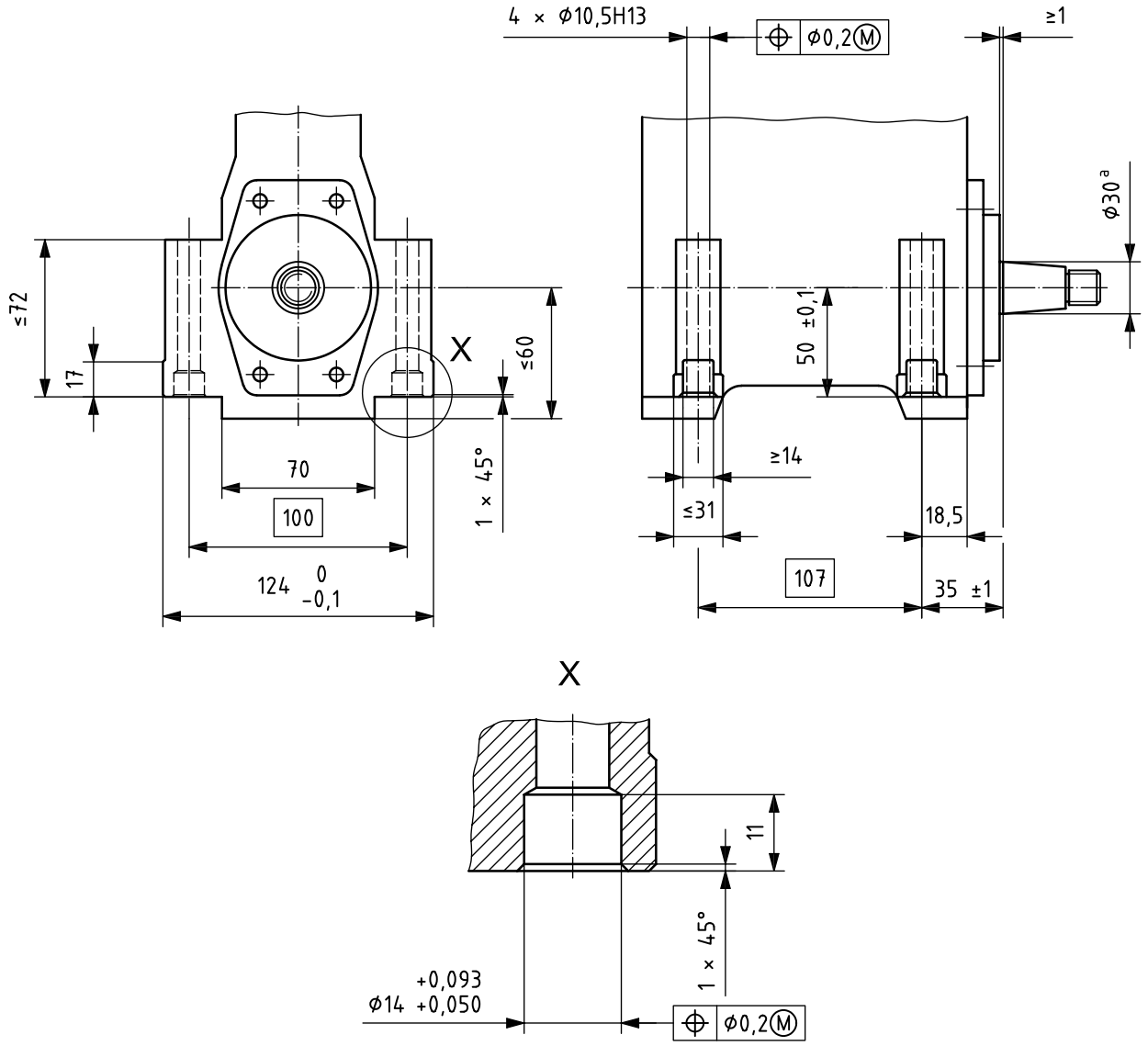
Dimensions in millimetres



a Corresponds to dimension d in ISO 6519.

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

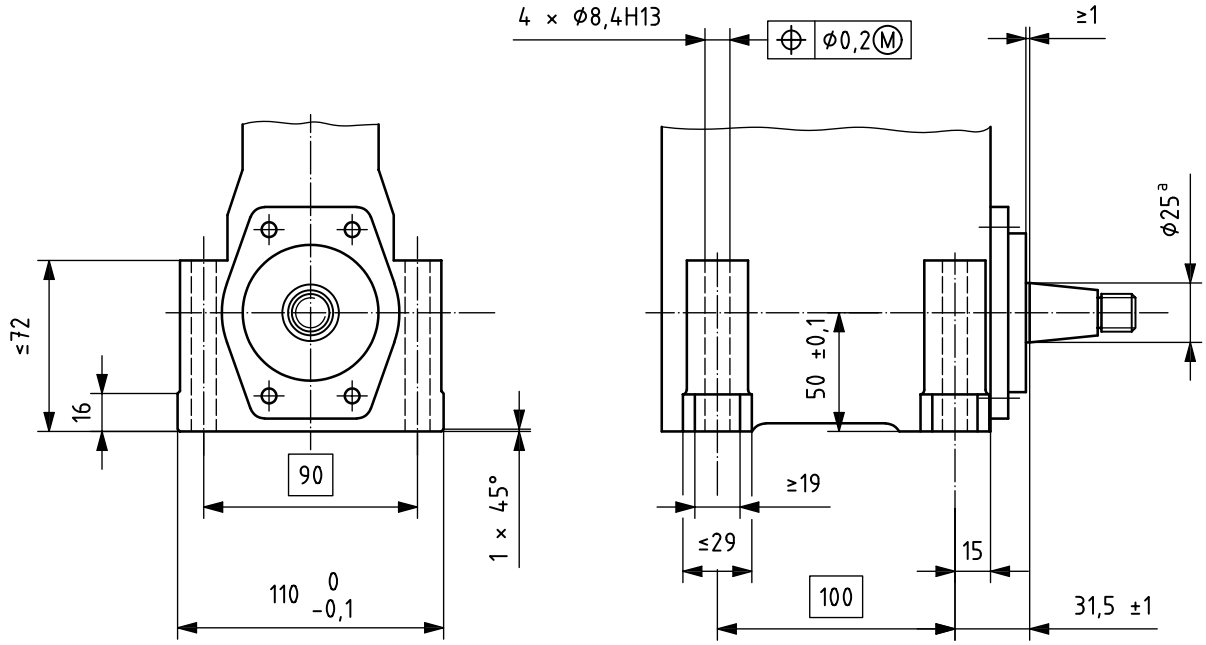
Dimensions in millimetres



a Corresponds to dimension d in ISO 6519.

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

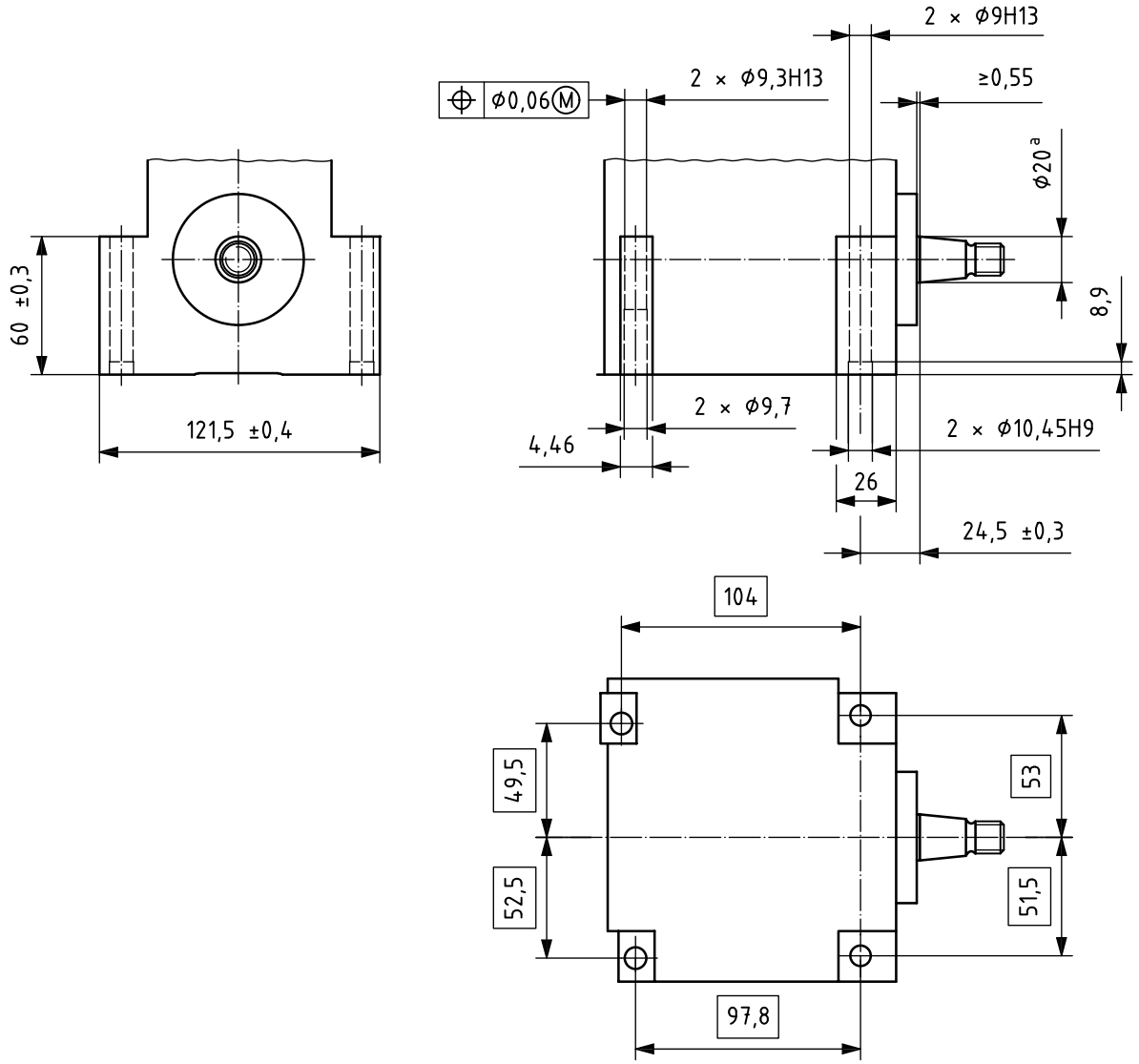
Dimensions in millimetres



[a] Corresponds to dimension d in ISO 6519.

Figure 7 — Base-mounted, two cylinder, high-pressure supply pump — Type 7

Dimensions in millimetres



a Corresponds to dimension d in ISO 6519.

Figure 8 — Base-mounted, three cylinder, high-pressure supply pump — Type 8

Bibliography

[1] ISO 6519, *Diesel engines — Fuel injection pumps — Tapers for shaft ends and hubs*

[2] ISO 7299-1, *Diesel engines — End-mounting flanges for pumps — Part 1: Fuel injection pumps*

[3] ISO 7299-2, *Diesel engines — End-mounting flanges for pumps — Part 2: High-pressure supply pumps for common rail fuel injection systems*

[4] ISO 7879, *Diesel engines — Cradle-mounted in-line fuel injection pumps — Mounting dimensions*

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