

Tc 22

INTERNATIONAL STANDARD

ISO 9102

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Road vehicles — Compression-ignition engines — Screw-in injection nozzle holders, types 24, 25 and 26

iTeh STANDARD PREVIEW
*Véhicules routiers — Moteurs à combustion interne à allumage par compression —
Porte-injecteurs vissés, types 24, 25 et 26*
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[ISO 9102:1990](https://standards.iteh.ai/catalog/standards/sist/3fad5b63-45ac-477d-920c-0ad15c906bd6/iso-9102-1990)

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Reference number
ISO 9102 : 1990 (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 9102 was prepared by Technical Committee ISO/TC 22,
Road vehicles.

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Road vehicles — Compression-ignition engines — Screw-in injection nozzle holders, types 24, 25 and 26

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1 Scope

This International Standard specifies dimensional requirements for the mounting of injection nozzle holders in compression ignition (diesel) engines. <https://standards.iteh.ai/catalog/standards/sist/3fad5b63-45ac-477d-920c-0ad15c906bd6/iso-9102-1990>

The location of the fuel inlet and leak-off connections are not defined since they vary according to the particular application.

This International Standard applies to screw-in injection nozzle holders of types 24, 25 and 26.

2 Dimensions and tolerances

2.1 Nozzle holder with integral heat shield, type 24

Injection nozzle holders of type 24 with integral heat shield shall meet the requirements shown in figure 1 and table 1.

2.2 Nozzle holders without heat shield

2.2.1 Nozzle holder, type 25

Injection nozzle holders of type 25 without heat shield shall meet the requirements shown in figure 2 and table 1.

2.2.2 Nozzle holder, type 26

Injection nozzle holders of type 26 without heat shield shall meet the requirements shown in figure 3 and table 1.

3 Other specifications

Dimensions and requirements not given in this International Standard are left to the discretion of the manufacturer.

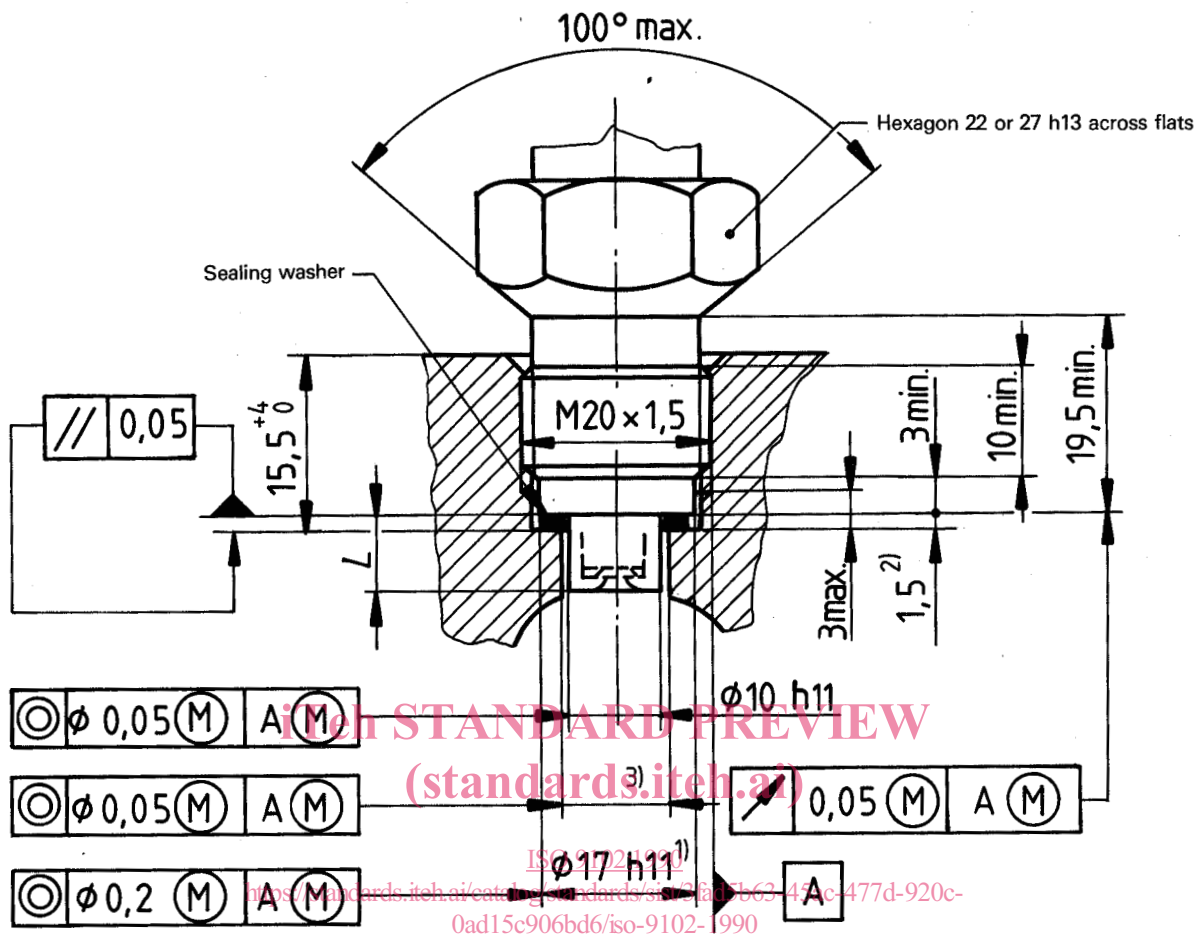


Figure 1 – Screw-in injection nozzle holder, type 24

Table 1
Dimensions in millimetres

Nozzle holder, type	L ± 0,2
24	3,5 or 8 or 13
25	8 or 13
26	7

1) In cases where narrow mounting conditions exist, this shaft diameter may be reduced to 15 h11, but this shall be agreed between the screw-in injection nozzle holder manufacturer and the engine manufacturer.

2) With commercial tolerances (before compression).

3) The determination of this diameter in the cylinder head is left to the manufacturer's choice. For this purpose, the maximum value for the heat shield diameter, which is given as a result of the maximum material principle (M) and the maximum tolerance value of the cylinder head hole, shall be taken into account. The clearance shall be kept to a minimum to facilitate nozzle cooling.

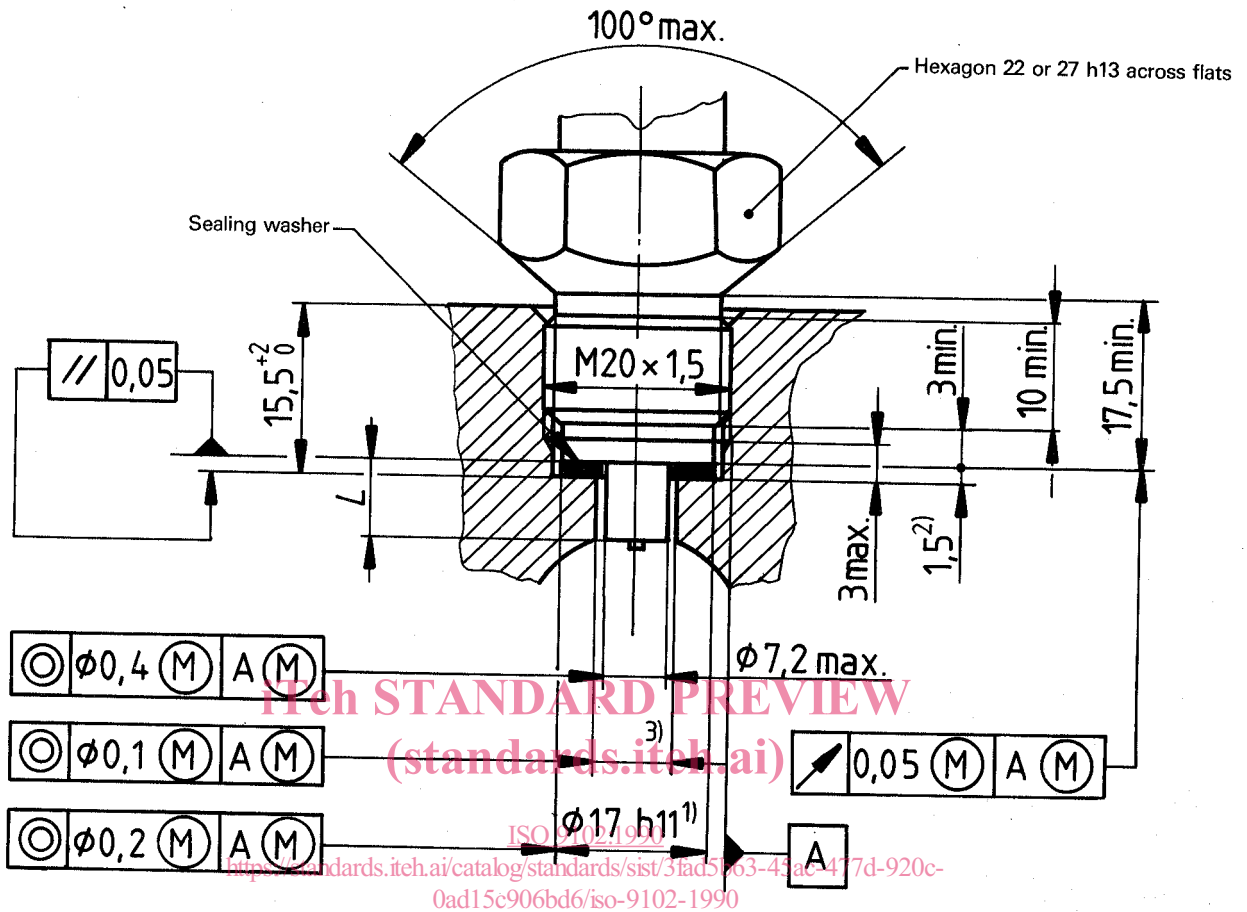


Figure 2 — Screw-in injection nozzle holder, type 25

1) In cases where narrow mounting conditions exist, this shaft diameter may be reduced to 15 h11, but this shall be agreed between the screw-in injection nozzle holder manufacturer and the engine manufacturer.

2) With commercial tolerances (before compression).

3) The determination of this diameter in the cylinder head is left to the manufacturer's choice. For this purpose, the maximum value for the nozzle stem, which is given as a result of the maximum material principle (M) and the maximum tolerance value of the cylinder head hole, shall be taken into account. The clearance shall be kept to a minimum to facilitate nozzle cooling.

Dimensions in millimetres

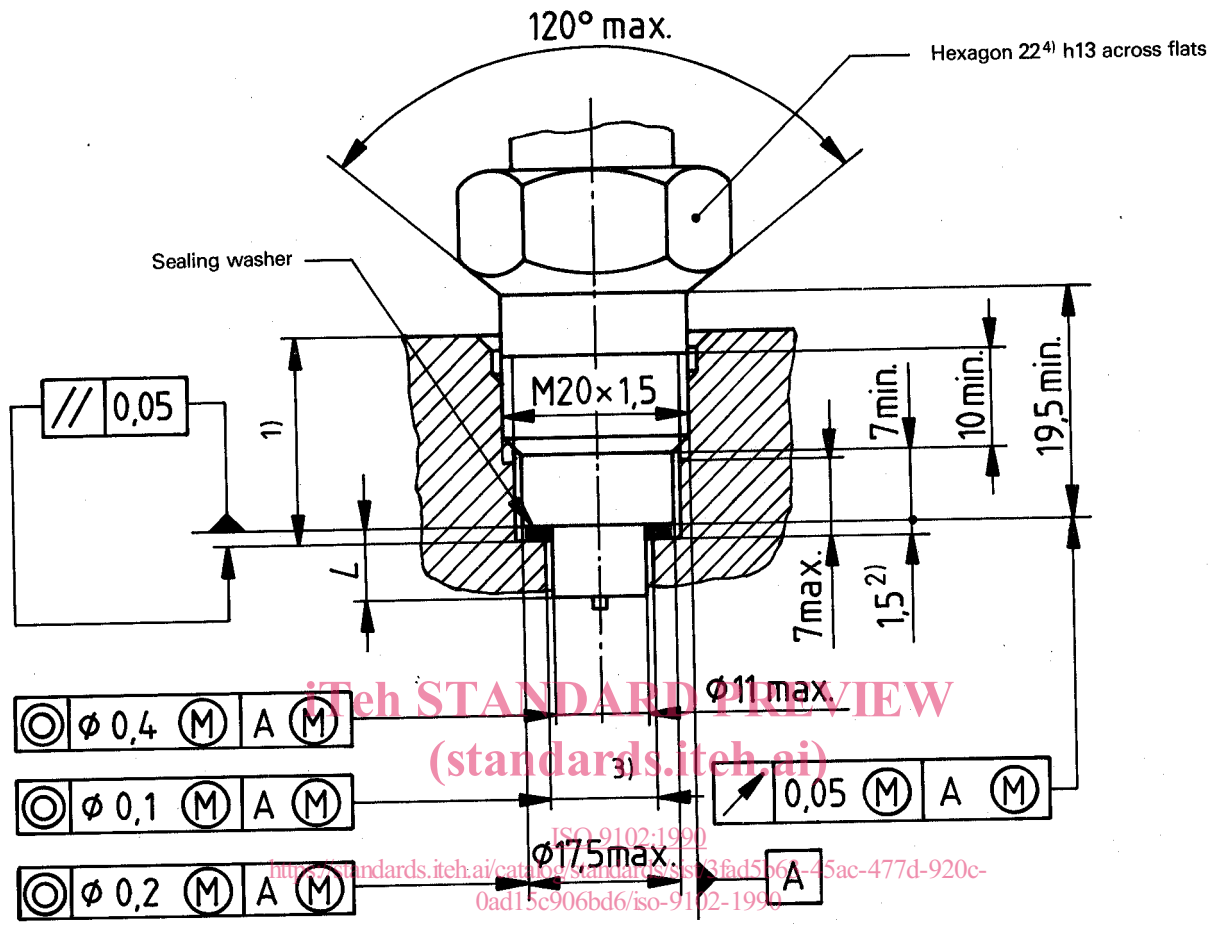


Figure 3 — Screw-in injection nozzle holder, type 26

- 1) The maximum depth of the cylinder head hole shall be chosen to ensure that there is no interference with the thread runout on the injector. The minimum thread engagement shall be suitable for the recommended tightening torque.
- 2) With commercial tolerances (before compression).
- 3) The determination of this diameter in the cylinder head is left to the manufacturer's choice. For this purpose, the maximum value for the nozzle stem, which is given as a result of the maximum material principle (M) and the maximum tolerance value of the cylinder head hole, shall be taken into account. The clearance shall be kept to a minimum to facilitate nozzle cooling.
- 4) Provisionally, a hexagon size of 21 mm may be used.

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