INTERNATIONAL STANDARD

ISO 7026

Third edition
1997-12-15

Diesel engines — Screw-in injection nozzle holders, types 20, 21, 21.1 and 27 for pintle nozzle size “S”, type “B”

Moteurs diesels — Porte-injecteurs vissés des types 20, 21, 21.1 et 27, pour injecteur à téton de taille «S» et de type «B»

Reference number
ISO 7026:1997(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 7026 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 7, *Injection equipment and filters for use on road vehicles*.

This third edition cancels and replaces the second edition (ISO 7026:1990), which has been revised to include injection nozzle holders of type 21.1.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

Diesel engines — Screw-in injection nozzle holders, types 20, 21, 21.1 and 27 for pintle nozzle size “S”, type “B”

1 Scope

This International Standard specifies dimensional requirements for the mounting of injection nozzle holders in compression-ignition (diesel) engines.

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 20, 21, 21.1 and 27.

These nozzle holders are used with the pintle nozzle size “S”, type “B”, specified in ISO 2697 [1)].

2 Dimensions and tolerances

2.1 Nozzle holders without heat shield

2.1.1 Nozzle holder, type 20, “long”

Injection nozzle holders of type 20 with nozzle protrusion of 1 mm ± 0,2 mm shall be as shown in figure 1.

2.1.2 Nozzle holder, types 21 and 21.1, “short”

Injection nozzle holders of type 21 and type 21.1 with nozzle protrusion of 13 mm ± 0,2 mm shall be as shown in figure 2.

2.2 Nozzle holder with integral heat shield, type 27

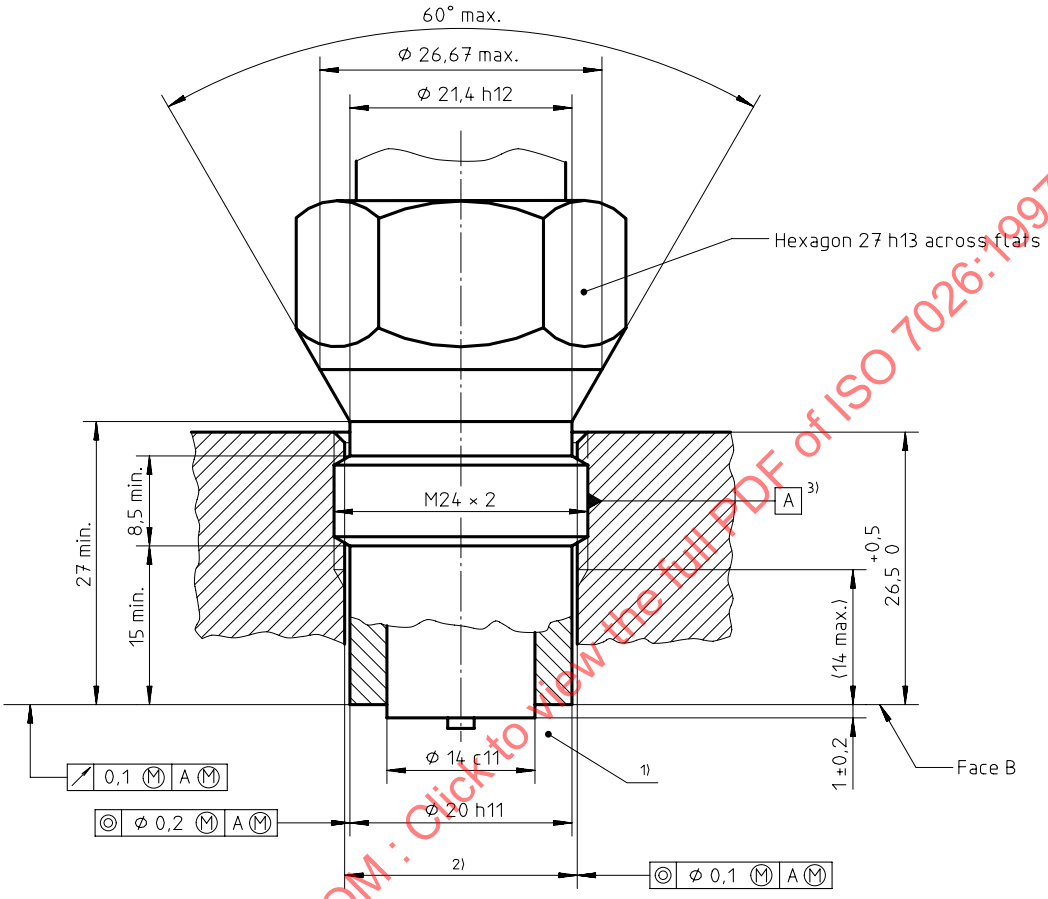
Injection nozzle holders of type 27 with heat shield protrusion of 14,1 mm ± 0,2 mm shall be as shown in figure 3.

3 Other specifications

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

1) ISO 2697:1974, *Road vehicles — Fuels injection nozzles — Size “S”.*

Dimensions in millimetres



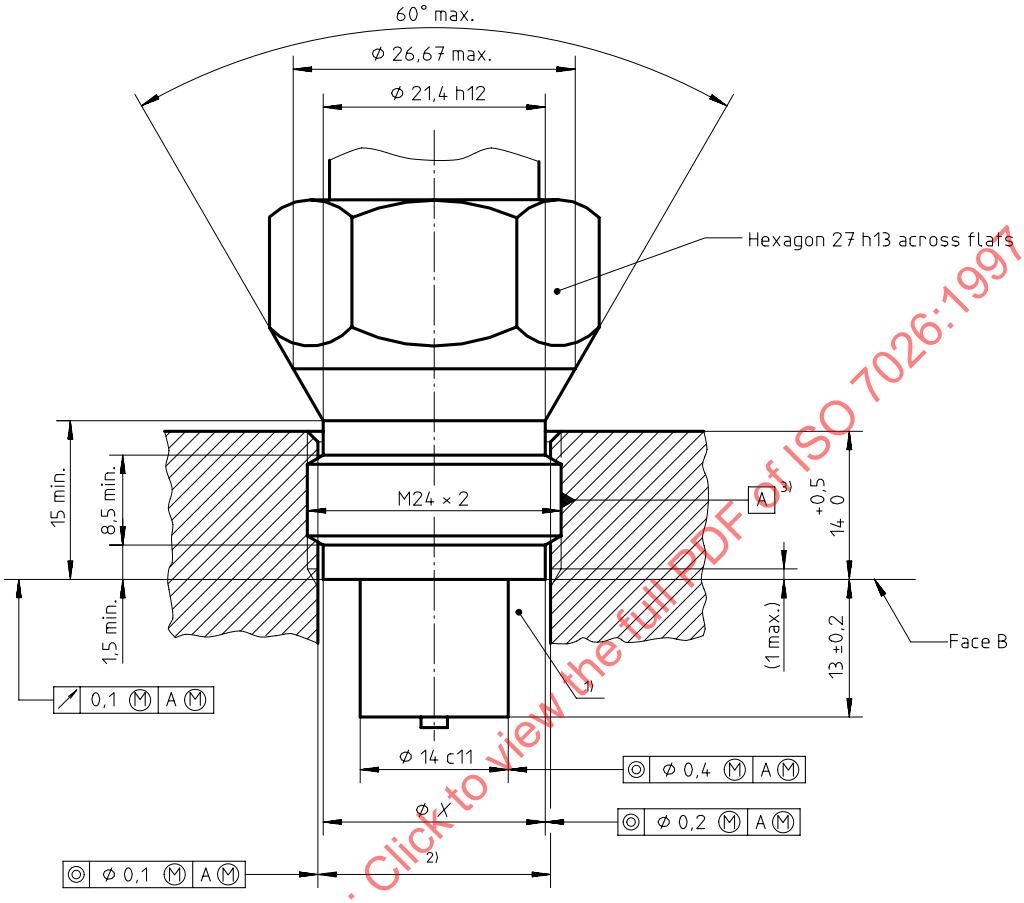
1) The manufacturer shall design an appropriate heat shield or washer such that the distance of face B from the upper face of the cylinder head is achieved.

2) 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 retaining nut which is given as a result of the maximum material principle Ⓜ and the maximum tolerance value of the cylinder head hole shall be taken into account. The clearance shall be kept to a minimum to avoid unnecessary heating of the nozzle.

3) Datum feature for the datum letter A is the pitch diameter; this refers to the nozzle holder thread as well as to the cylinder head thread.

Figure 1 — Screw-in injection nozzle holder, type 20

Dimensions in millimetres



Type	*X*
21	21 h11
21.1	20 h11

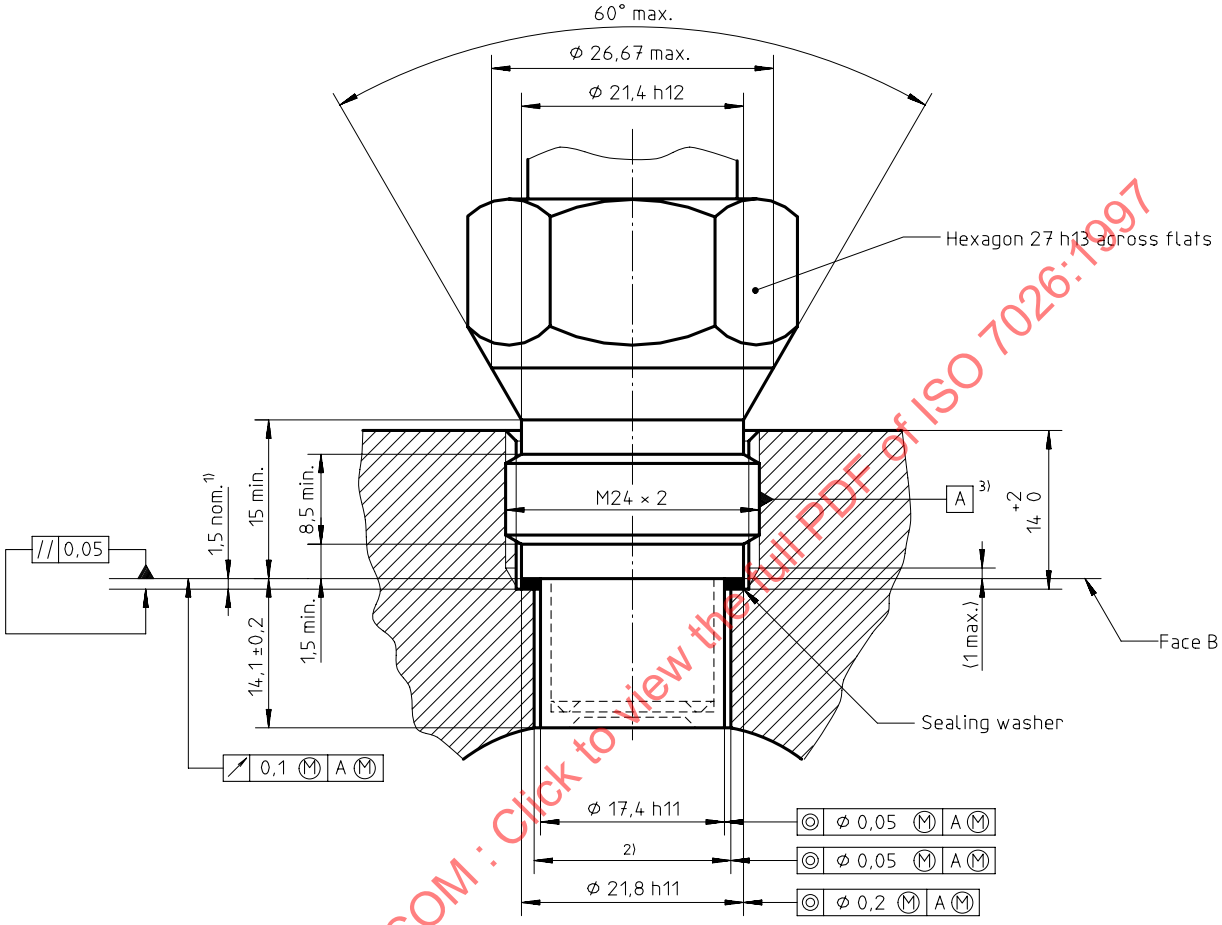
1) The manufacturer shall design an appropriate heat shield or washer such that the distance of face B from the upper face of the cylinder head is achieved.

2) 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 retaining nut which is given as a result of the maximum material principle Ⓜ and the maximum tolerance value of the cylinder head hole shall be taken into account. The clearance shall be kept to a minimum to avoid unnecessary heating of the nozzle.

3) Datum feature for the datum letter A is the pitch diameter; this refers to the nozzle holder thread as well as to the cylinder head thread.

Figure 2 — Screw-in injection nozzle holder, types 21 and 21.1

Dimensions in millimetres



1) With commercial tolerances (before compression).

2) 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 which is given as a result of the maximum material principle Ⓜ and the maximum tolerance value of the cylinder head hole shall be taken into account. The clearance shall be kept to a minimum to avoid unnecessary heating of the nozzle.

3) Datum feature for the datum letter A is the pitch diameter; this refers to the nozzle holder thread as well as to the cylinder head thread.

Figure 3 — Screw-in injection nozzle holder, type 27