

INTERNATIONAL STANDARD

**ISO
2698**

Second edition
1993-07-15

Diesel engines — Clamp-mounted fuel injectors, types 7 and 28

*Moteurs à allumage par compression — Porte-injecteurs de combustible
complets à fixation par patte, types 7 et 28*

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Reference number
ISO 2698:1993(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 2698 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 7, *Injection equipment and filters for use on road vehicles*.

This second edition cancels and replaces the first edition (ISO 2698:1974), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

Diesel engines — Clamp-mounted fuel injectors, types 7 and 28

1 Scope

This International Standard specifies dimensions necessary for the mounting of fuel injectors in diesel (compression-ignition) engines.

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

This International Standard applies to clamp-mounted injectors of types 7 and 28 made of an integral nozzle and nozzle holder design with a 9,5 mm (nominal) injector shank diameter.

2 Dimensions and tolerances

2.1 Injectors, types 7 and 28

Dimensions and tolerances of injectors of types 7 and 28 are given in figures 1 and 2 respectively.

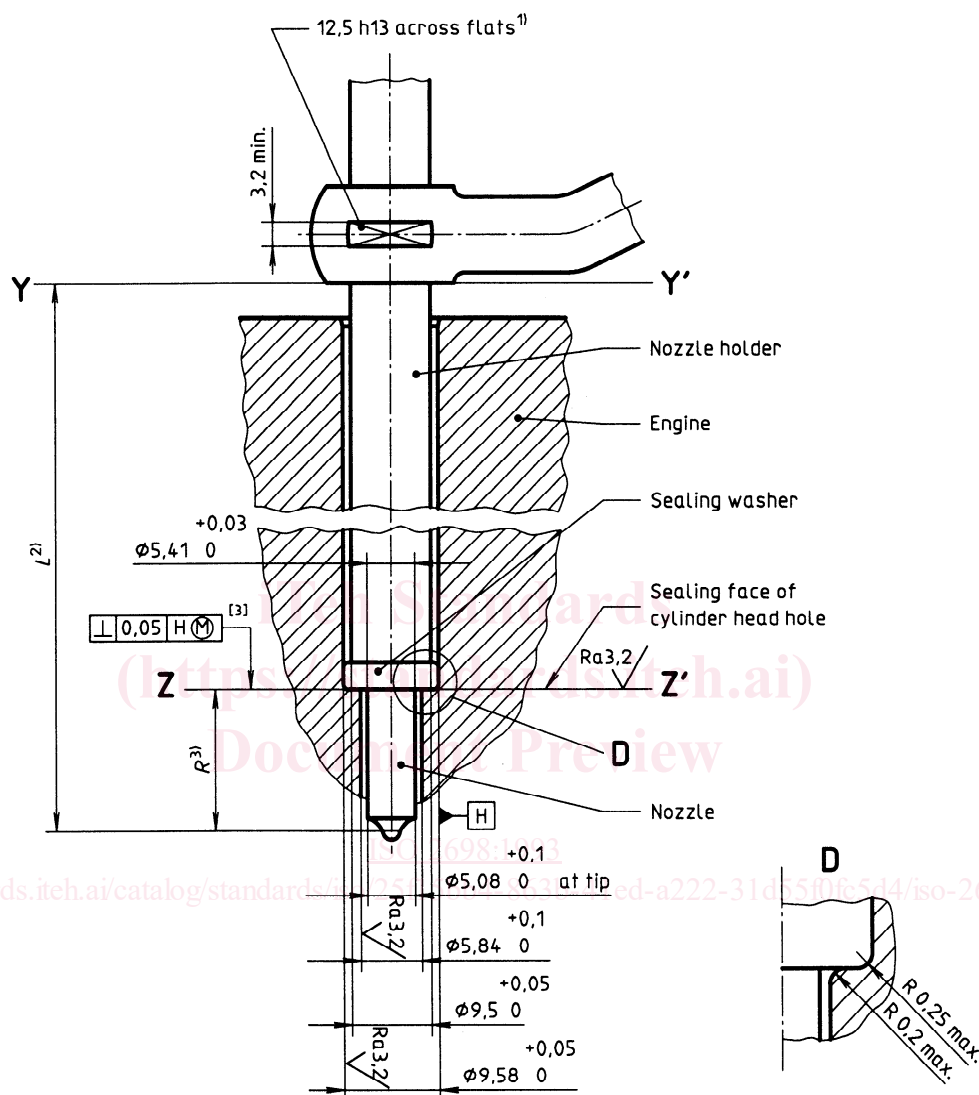
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Technical drawing of a nozzle assembly (Figure 1) showing a cross-section and a detail view. The cross-section shows a nozzle holder with a sealing washer and a nozzle. Dimensions include a 12,5 h13 cross flange, a 3,2 min. gap, and a 3,2(3) dimension. The detail view shows a 30° chamfer, a 17,5 min. diameter, and a 11,6 max. diameter. Surface finish is Ra3,2. The drawing is labeled with 'C' and 'Y'.

- Figure 1 — Clamp-mounted injector, type 7**

Dimensions in millimetres
Surface roughness values in micrometres^[2]



1) These flats are optional.

2) See 2.3.

3) This dimension determines the distance between the reference plane ZZ' and the point of intersection of the injection holes axes with the injector axis, when the sealing washer is compressed; it varies with nozzle sac design.

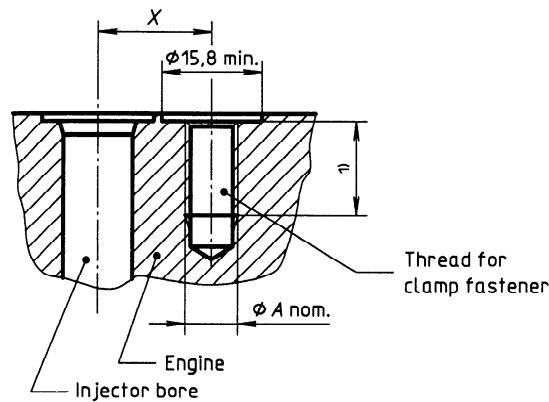
Figure 2 — Clamp-mounted injector, type 28

2.2 Clamp location

Dimensions and tolerances for the clamp location as related to the injector are given in figure 3.

Dimension *X* and thread diameter *A* for the clamp fastener, as given in table 1, are preferred values; they may vary with application, i.e. depending on cylinder head design.

Dimensions in millimetres



1) Minimum length as required by design.

Figure 3 — Clamp location for injectors, types 7 and 28

Table 1

Dimensions in millimetres

Injector type	<i>X</i> ± 0,3	<i>A</i> 1) nom.
7 and 28	18,4	M8 × 1,25
	25	M10 × 1,5
1) For fasteners of property class 10.9[1].		