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Diesel Fuel Injector Assembly—Types 8, 9, 10, and 11

1. **Scope**—This SAE Standard specifies the dimensional requirements necessary for the mounting and interchangeability of four types of fuel injectors in diesel engines. Two of the types specified are flats-located injectors.

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

- 1.1 **Field of Application**—This document is applicable to nozzle holder types 8 and 10 of an unspecified means of angular location and flats-located types 9 and 11 with a 17.0 mm (nominal) shank diameter. The internal construction of the fuel injector remains optional with the manufacturer.

2. References

- 2.1 **Related Publication**—The following publication is provided for information purposes only and is not a required part of this document.

- 2.1.1 ISO PUBLICATION—Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002.

ISO 3539—Road vehicles—Injection nozzle holder with body, types 8 and 10, and injection nozzle holder with fixing flats, types 9 and 11

3. **Dimensions and Tolerances**—With the aid of detail enlargement “Z”, Figures 1 and 2 illustrate the length and diameters of the nozzle, sealing washer, nozzle retaining nut, and the nozzle holder as related to the interface between the injector and the bore in the engine.

Note that two basic nozzle body diameters 7 and 9 mm are shown.

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

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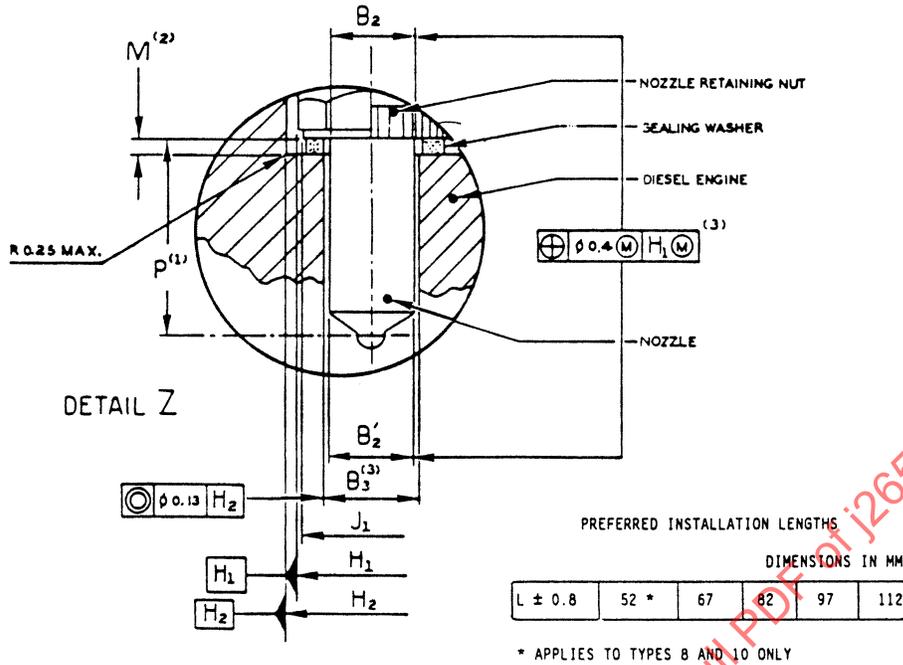
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DIMENSIONS IN MM

NOZZLE HOLDER TYPES	H ₁	H ₂	H ₃	B ₂ (B ₂ > B ₂)	B ₂	B ₃ (3)	J ₁	M(2)	p(1)
8 AND 9	17.0 MAX	17.1 ^{+0.1} ₀	16.9 MAX	9.2 MAX	8.9 ^{+0.3} ₀	---	14.5 MIN	1.5 NOM	20.0 ^{+0.7} ₀
10 AND 11				7.2 MAX	6.9 ^{+0.3} ₀				

- (1) Y-Y and the center of the nozzle tip radius on the nozzle axis which is generally the apex of orifice spray.
- (2) With commercial tolerances (before compression).
- (3) The determination of the diameter B₃ in the cylinder head is left to the manufacturer's choice. For that purpose the maximum value for the nozzle shank which is given as a result of the Maximum Material Principle (M) and the maximum tolerance value of the cylinder head hole must be taken into account. The clearance shall be kept to a minimum to facilitate nozzle cooling.

FIGURE 1—NOZZLE HOLDER WITH BODY TYPES 8 AND 10

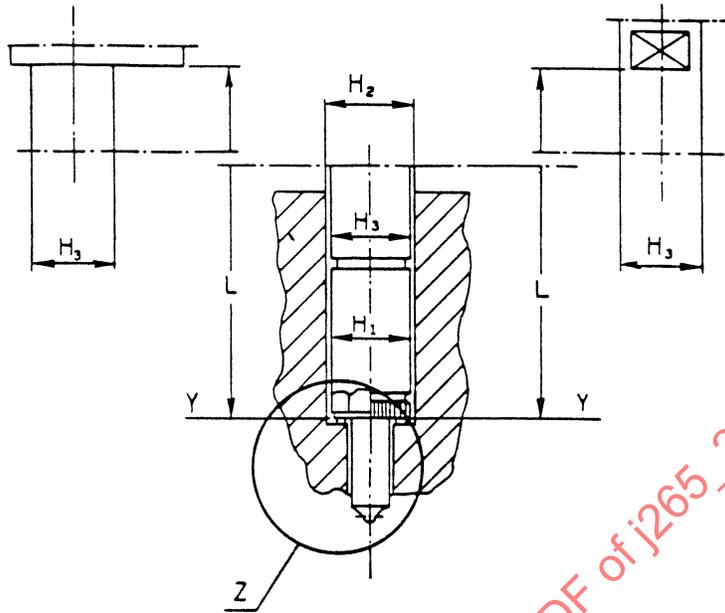


FIGURE 2—NOZZLE HOLDER WITH TWO FIXING FLATS TYPES 9 AND 11

PREPARED BY THE SAE DIESEL FUEL INJECTION EQUIPMENT STANDARDS COMMITTEE

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