

Submitted for recognition as an American National Standard

**DIESEL FUEL INJECTOR ASSEMBLY TYPE 27 (9.5 mm)**

1. SCOPE:

This document specifies the dimensional requirements necessary for the mounting and interchangeability of a type of fuel injector used in diesel engines.

2. FIELD OF APPLICATION:

This document applies to a clamp-mounted fuel injector of an integral nozzle and holder design with a 9.5 mm (nominal) holder shank diameter and a 5.5 mm (nominal) nozzle body tip diameter and deals with the interface between the injector and the engine. The internal construction of the injector remains optional with the manufacturer.

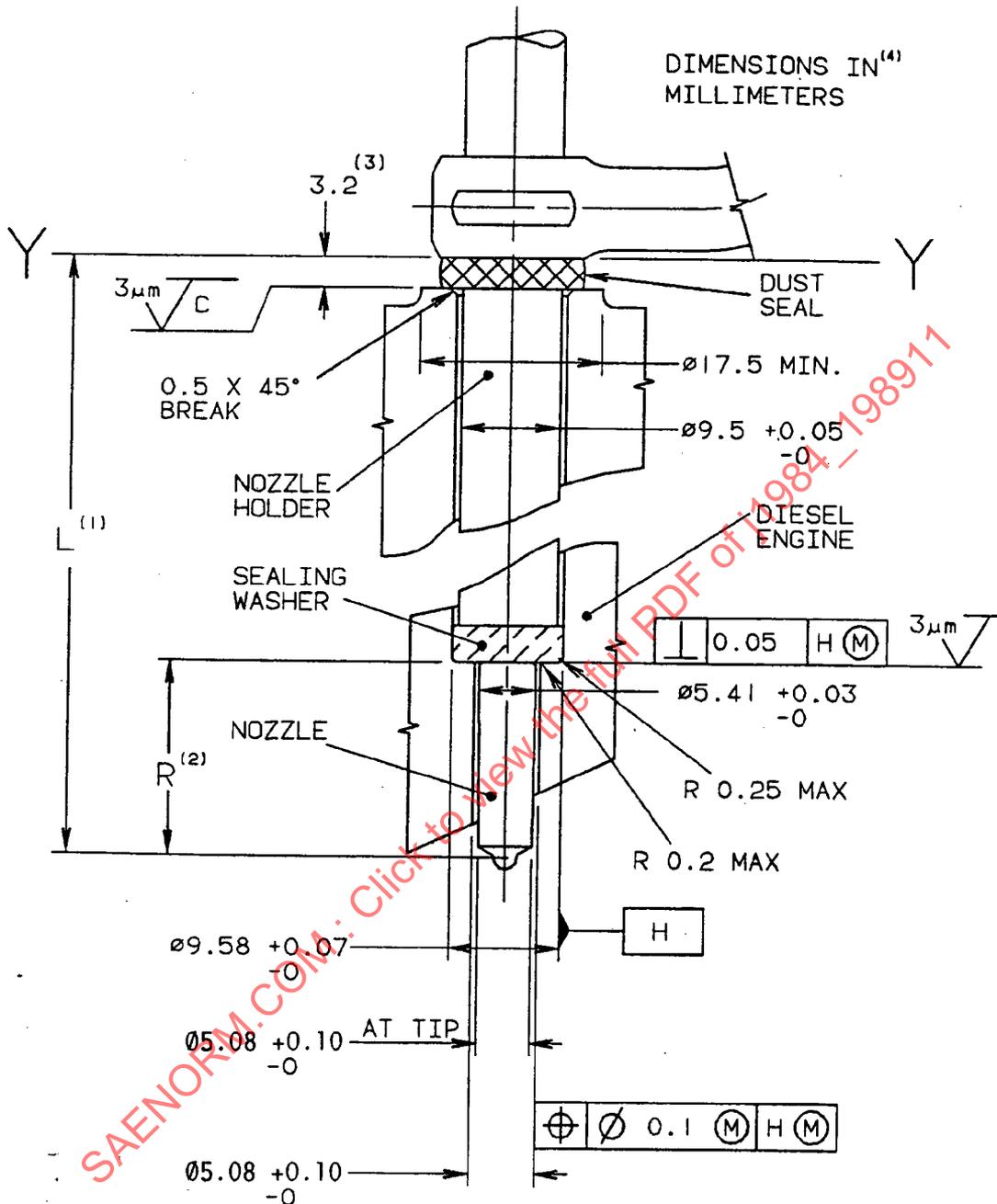
3. DESCRIPTION:

Fig. 1 illustrates interface dimensions and length "L" shank length plus the tip protrusion dimension from the holder. The location and dimensions of the fuel inlet, leak-off connections, and clamp design are not defined since they vary according to the particular application.

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<sup>1</sup>This dimension determines the distance between the reference plane (Y-Y) and the point of intersection of the nozzle orifices with the fuel injector axis.

<sup>2</sup>This dimension determines the distance between the compressed sealing washer and the point of intersection of the nozzle orifices with the fuel injector axis and varies with nozzle sac design.

<sup>3</sup>With commercial tolerances.

<sup>4</sup>Dimensions are conversions from existing English units.

FIGURE 1 - Dimensions and Tolerances

RATIONALE:

Not applicable.

RELATIONSHIP OF SAE STANDARD TO ISO STANDARD:

This document references ISO 2698.

REFERENCE SECTION:

Not applicable.

APPLICATION:

This document specifies the dimensional requirements necessary for the mounting and interchangeability of a type of fuel injector used in diesel engines.

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