



SURFACE VEHICLE STANDARD

J1949™

NOV2015

Issued 1988-10
Cancelled 2015-11

Superseded by ISO 2974

Road Vehicles - High Pressure Fuel Injection Pipe End -
Connections With 60 Degree Female Cone

RATIONALE

SAE J1949 has been cancelled because the content of this standard is fully covered by ISO 2974. Therefore, to eliminate such redundancy and confusion in coordinating the standards between ISO and SAE, this document is declared cancelled and superseded by ISO 2974.

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Documents

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This document is a word-for-word equivalent of ISO/DIS 2974.

- 1. Scope**—This SAE Standard specifies the dimensional requirements for the assembly of high-pressure pipe connections for compression-ignition (diesel) engine fuel injection equipment.

It applies to 60 degrees female cones with external threaded connectors types 1 and 2 (see Figures 1, 2, and 3), and to the internal threaded tube nuts and male cone type end assembly (see Figure 4) of high-pressure pipe connections for tubes with diameters up to 12 mm inclusive.

2. References

- 2.1 Applicable Publications**—The following publication forms a part of this specification to the extent herein.

- 2.1.1 ISO PUBLICATION**—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 261—ISO general purpose metric screw threads—General plan

ISO/DIS 2974—Diesel engines—High-pressure fuel injection pipe end-connection with 60° female cone

ISO 3508—Thread run-outs for fasteners with thread in accordance with ISO 261 and ISO 262

3. Requirements

- 3.1 Dimensions and Tolerances**—Figures 1 and 2 indicate the basic requirements for the connector at the fuel injector and fuel injection pump to allow interchangeability for high-pressure fuel injection pipe assemblies.

The 60 degree female cone and its relationship to the external thread of the connector shall meet the requirements of Figure 1: variations at the smaller end of the female cone as shown in Figure 3 are acceptable.

Dimensions and tolerances are given in Table 1. Details not specified are left to the manufacturer's choice.

With reference to dimension a in Figures 1 and 2, the external thread may be made optionally to type 1 or 2. However, it shall be possible to screw the GO-gauge for the thread up to the plane specified by dimension a for both types.