



SURFACE VEHICLE STANDARD

J1418™

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Reaffirmed 2002-10
Cancelled 2015-11

Superseded by ISO 4093

Fuel Injection Pumps - High Pressure Pipes (Tubing) for Testing

RATIONALE

SAE J1418 has been cancelled because the content of this standard is fully covered by ISO 4093. Therefore, to eliminate such redundancy and confusion in coordinating the standards between ISO and SAE, this document is declared cancelled and superseded by ISO 4093.

CANCELLATION NOTICE

This Technical Report has been declared "CANCELLED" as of September 2015 and has been superseded by ISO 4093. By the action, this document will remain listed in the respective index, if applicable. Cancelled Technical Reports are available from SAE.

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This SAE Standard references ISO 4093.

Foreword—This Reaffirmed Document has been changed only to reflect the new SAE Technical Standards Board format.

1. **Scope**—This SAE Standard specifies the dimensional requirement of a range of high pressure pipes for use in the bench testing and setting of fuel injection pumps.

Only dimensions and requirements affecting the hydraulic characteristic of the pipes are defined. Other requirements, such as the type of end connections and shape of the pipes when bent, are not included. These depend on the connections provided at pump outlets and injector inlets, and on the design features of individual pumps and test benches.

2. **References**—There are no referenced publications specified herein.

3. **Description**—The range of pipes specified enables pump and engine manufacturers to choose suitable pipe sizes for pump deliveries up to 300 mm³ per stroke per cylinder. The particular pipe to be used shall be identified by the pump manufacturer in the test specification for each individual pump type and application.

4. **Dimension**—The seven standardized sizes of pipes are shown in Table 1. Dimensions are in millimeters.

5. **General Requirements**

- 5.1 The pipes may be of ferrous material, usually cold-drawn mild steel.
- 5.2 After end connections are made, any closing-in or reduction in opening of the pipe shall be removed to a depth of at least twice the length of the deformed end of the pipe. Any closing-in of the ends after extended use shall also be eliminated.
- 5.3 Pipes shall be cleaned internally after the ends are made and bent in order to remove extraneous matter.