



SURFACE VEHICLE STANDARD

J2600™

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Superseding J2600 NOV2012

Compressed Hydrogen Surface Vehicle Fueling Connection Devices

RATIONALE

SAE J2600 has been revised to reflect the incorporation of additional geometries for different pressures, and to modify, add, or delete testing requirements based on lessons learned as the state of the art has progressed. In addition, the document moved from a Recommended Practice to Standard.

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1. SCOPE

SAE J2600 applies to the design and testing of Compressed Hydrogen Surface Vehicle (CHSV) fueling connectors, nozzles, and receptacles. Connectors, nozzles, and receptacles must meet all SAE J2600 requirements and pass all SAE J2600 testing to be considered as SAE J2600 compliant.

This document applies to devices which have Pressure Classes of H11, H25, H35, H50 or H70.

1.1 Purpose

SAE J2600 is intended to:

- Prevent vehicles from being fueled with a Pressure Class greater than the vehicle Pressure Class;
- Allow vehicles to be fueled with Pressure Class equal to or less than the vehicle Pressure Class,
- Prevent vehicles from being fueled by other compressed gases dispensing stations;
- Prevent other gaseous fueled vehicles from being fueled by hydrogen dispensing stations.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J2574	Fuel Cell Vehicle Terminology
SAE J2578	Recommended Practice for General Fuel Cell Vehicle Safety
SAE J2579	Technical Information Report for Fuel Systems in Fuel Cell and Other Hydrogen Vehicles
SAE J2601	Fueling Protocols for Light Duty Gaseous Hydrogen Surface Vehicles
SAE J2601/2	Fueling Protocol for Gaseous Hydrogen Powered Heavy Duty Vehicles
SAE J2601/3	Fueling Protocol for Gaseous Hydrogen Powered Industrial Trucks
SAE J2719	Hydrogen Fuel Quality for Fuel Cell Vehicles
SAE J2799	70 MPa Compressed Hydrogen Surface Vehicle Fueling Connection Device and Optional Vehicle to Station Communications

2.1.2 IEEE Publications

Available from IEEE Operations Center, 445 Hoes Lane, Piscataway, NJ 08854-4141, Tel: 732-981-0060, www.ieee.org.

IEEE/ASTM SI 10 Use of the International System of Units: The Modern Metric System

2.1.3 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org

ASTM B117-09 Standard Practice for Operating Salt Spray (Fog) Apparatus.

ASTM D572 – 04 (Reapproved 2009) Standard Test Method for Rubber - Deterioration by Heat and Oxygen