



**ANSI HGV 2-2014**  
*(reaffirmed 2019)*

# **Compressed hydrogen gas vehicle fuel containers**



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# Preface

This is the first edition of ANSI HGV 2, *Compressed hydrogen gas vehicle fuel containers*.

This Standard was prepared by the NGV 2/HGV 2 Technical Subcommittee on Standards for Compressed Natural Gas and Compressed Hydrogen Vehicle Fuel Containers, under the jurisdiction of the Joint Automotive Technical Committee, and had been formally approved by the Technical Committee, and the American National Standards Institute.

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# ANSI HGV 2-2014

## Compressed hydrogen gas vehicle fuel containers

### 1 Scope

#### 1.1 General

This Standard contains requirements for the material, design, manufacture, marking, and testing of serially produced, refillable Type HGV2 containers intended only for the storage of compressed hydrogen gas for on-road vehicle operation. These containers:

- a) are to be permanently attached to the vehicle;
- b) have a capacity of up to 1 000 liters (35.4 ft<sup>3</sup>) water capacity; and
- c) have a nominal working pressure that does not exceed 70 MPa.

#### 1.2 Alternative construction or materials

The construction of the containers, whether specifically covered by the various provisions of this Standard or not, is to be in accordance with reasonable concepts of safety, performance, and durability.

All specifications as to construction set forth herein are to be satisfied by the construction actually prescribed or such other construction as will provide at least equivalent performance.

#### 1.3 Units of measurement

This standard contains SI (metric) units corresponding to the yard/pound quantities, the purpose being to allow the standard to be used in SI (metric) units. IEEE/ASTM SI 10, or ISO 80000-1:2009, is used as a guide in making metric conversion from yard/pound quantities. If a value for measurement and a corresponding value in other units are stated, the first stated value is to be regarded as the requirement. The given corresponding value may be approximate. If a value for a measurement and a corresponding value in other units are both specified as a quoted marking requirement, the first stated unit, or both are to be provided.

#### 1.4 Terminology

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user shall satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

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