CSA/ANSI NGV 4.2:22
National Standard of Canada
American National Standard

Hose and hose assemblies for compressed natural gas (CNG) dispensing systems for natural gas vehicles (NGV)

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Interprovincial Gas Advisory Council

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Preface

This is the third edition of CSA/ANSI NGV 4.2, *Hose and hose assemblies for compressed natural gas (CNG) dispensing systems for natural gas vehicles (NGV)*. It supersedes the previous editions published in 2014 as CSA/ANSI NGV 4.2 • CSA 12.52, *Hoses for natural gas dispensing systems*, and in 1999 as ANSI/IAS NGV 4.2 • CSA 12.52, *Hoses for natural gas vehicles and dispensing systems*.

Major changes to this edition include:
- addition of bulk hose to the Scope;
- added bulk hose testing requirements;
- clarification about when testing is to be conducted with hose only or hose assemblies; and
- updated gas composition references to ASTM D8080.

This publication represents a Standard for the safe operation, substantial and durable construction, and performance testing of hose and hose assemblies used for natural gas dispensing systems for natural gas vehicles (NGV), within limitations given in the Scope of this Standard.

This Standard is based on proven engineering principles, research, and the combined expertise of gas utilities, manufacturers, users, and others having specialized experience.

Nothing in this Standard is to be considered in any way as indicating a measure of quality beyond compliance with the provisions it contains. It is designed to allow compliance of products which might exceed that specified in the provisions herein. In its preparation, full recognition has been given to possibilities of improvement through ingenuity of design. This Standard is subject to revision as further experience and investigation might show it is necessary and desirable.

Users of this Standard are advised that the devices/products/activities within its scope might be subject to regulation at the federal, state, provincial, or local levels. Users are strongly urged to investigate this possibility through appropriate channels. In the event of a conflict with this Standard, federal, state, provincial, or local regulations should be followed.

CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support of Natural Resources Canada.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Hoses for Natural Gas Vehicle Dispensing Systems, under the jurisdiction of the Technical Committee on Natural Gas Transportation and the Strategic Steering Committee on Transportation. It has been formally approved by the Technical Committee and by the Interprovincial/Territorial Gas Advisory Council (IGAC).

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group. This Standard was approved by the American National Standards Institute (ANSI) as an American National Standard.

Interpretations: The Strategic Steering Committee on Transportation has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant CSA