



**CSA/ANSI NGV 5.2:23**  
National Standard of Canada  
American National Standard



# Vehicle fuelling appliances (VFA)



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*CSA/ANSI NGV 5.2:23  
Vehicle fuelling appliances (VFA)*



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# Technical committee on Natural Gas Transportation

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# ***Subcommittee on Vehicle Refuelling Appliances for Natural Gas Vehicles***

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# Preface

This is the second edition of CSA/ANSI NGV 5.2, *Vehicle fuelling appliances (VFA)*. It supersedes the previous edition published in 2017.

The following are major changes to this edition:

- a) addition of coverage for ANG appliances, incorporating coverage from CSA IR-7-16;
- b) addition of Table 8 to address constituent limits and additional natural gas properties;
- c) addition of test gas requirements under Clause 8.2.1 for testing to apply the physical characteristics of CSA Group standards “Test Gas A” used in performance testing under other CSA Group standards with specific reference to Test Gas A heating value and specific gravity (shown in Table 5 and taken from CSA/ASNI Z21.47/CSA 2.3);
- d) removal of the test method for verifying material adhesion and legibility;
- e) harmonization coverage to the extent possible with CSA/ANSI NGV 5.1; and
- f) added language for accessibility.

The first edition of CSA NGV 5.2 was developed using the requirements in CSA 12.6, *Vehicle refuelling appliances*; CSA/ANSI NGV 5.1, *Residential fuelling appliances*; and current code requirements. The CSA NGV 5.2/12.6 Technical Subcommittee reviewed coverage in CSA 12.6 and CSA/ANSI NGV 5.1 to create a new Standard that would resolve overlapping conflicting requirements and focus on coverage for vehicle fuelling appliances for other than residential applications. The document was designated CSA/ANSI NGV 5.2 to remove potential confusion in the field with equipment marked as complying with CSA 12.6.

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

For general information on the Standards of the Canadian Electrical Code, Part II, see the Preface of CAN/CSA-C22.2 No. 0, *General Requirements — Canadian Electrical Code, Part II*.

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 Compressed Natural Gas Vehicle (NGV) Fuelling Appliances, under the jurisdiction of the Natural Gas Transportation Technical Committee, and has been formally approved by the Technical Committee, American National Standards Institute, and the Interprovincial/Territorial Gas Advisory Council.

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.

## Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*