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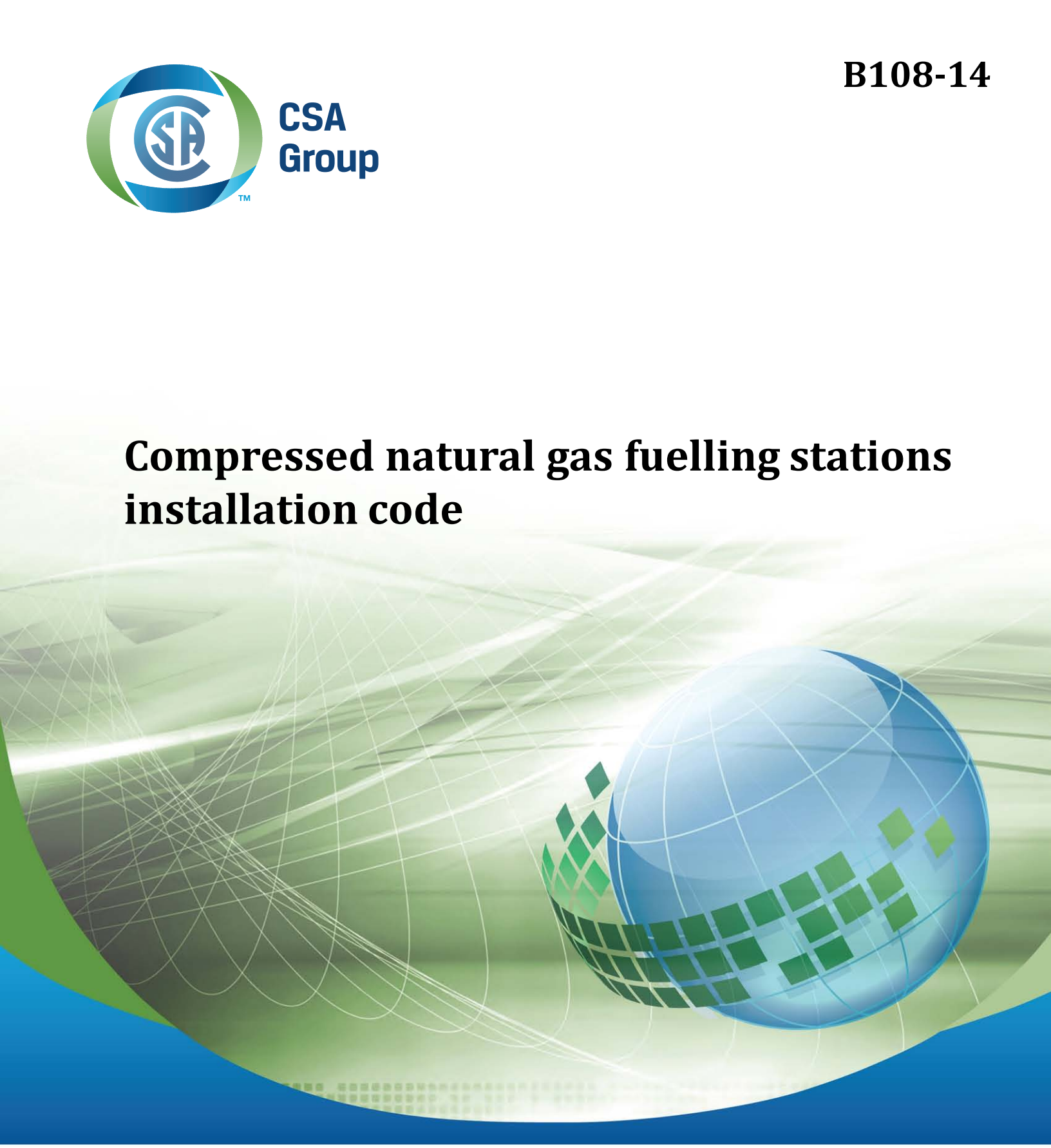
Compressed natural gas fuelling stations installation code



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Preface

This is the third edition of CSA B108, *Compressed natural gas fuelling stations installation code*. It supersedes the previous editions published in 1999 and 1995.

This Code was prepared by the CSA B108 Subcommittee on NGV fuelling stations installation code, under the jurisdiction of the Technical Committee on Natural gas powered vehicles and fuelling and had been formally approved by the Technical Committee(s) and the Interprovincial Gas Advisory Council.

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 Code is stated in its Scope, it is important to note that it remains the responsibility of the users of the Code to judge its suitability for their particular purpose.*

3) *This publication 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 publication.*

4) *To submit a request for interpretation of this Code, please send the following information to* ***inquiries@csagroup.org*** *and include "Request for interpretation" in the subject line:*

a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*

b) *provide an explanation of circumstances surrounding the actual field condition; and*

c) *where possible, phrase the request in such a way that a specific "yes" or "no" answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at ***standardsactivities.csa.ca****.*

5) *This Code is subject to review five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to* ***inquiries@csagroup.org*** *and include "Proposal for change" in the subject line:*

a) *Standard designation (number)*

b) *relevant clause, table, and/or figure number;*

c) *wording of the proposed change; and*

d) *rationale for the change.*

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1 Scope

1.1
This Code applies to compressed natural gas fuelling stations that may be employed for fleet and public dispensing operations.

1.2
The scope of this Code does not include fuelling vehicles with liquefied natural gas (LNG). At LNG facilities that also include CNG vehicle fuelling, this Code applies only to facilities downstream of the isolation valve at the outlet of the natural gas vaporizer.

1.3
In this Code, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the code; “should” is used to express a recommendation or that which is advised but not required; “may” is used to express an option or that which is permissible within the limits of the code; and “can” is used to express possibility or capability.

1.4
All references to “kPa (psi)” throughout this Code are to be considered gauge pressures, unless otherwise specified.

1.5
This Code contains SI (Metric) units corresponding to the yard/pound quantities, the purpose being to allow the Code to be used in SI (Metric) units. If a value for a 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 shall be provided.

Note: *IEEE/ASTM SI 10 or ISO 80000-1 are used as a guide in making metric conversion from yard/pound quantities.*

Where the word “gallon” is used in this Code, it indicates a U.S. Gallon equivalent to 3.785 liters water capacity.

Note: *This code was developed originally using the imperial system of measurement and subsequently converted to metric units having three (3) significant digits. Every attempt has been made to provide accurate conversion values, When designing systems using these values engineering judgment needs to be applied.*

