CSA Group

CSA/ANSI LNG 3.8-2018
(ISO 12614-8:2014, MOD)
National Standard of Canada

CSA/ANSI LNG 3.8-2018
Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 8: Excess flow valve
(ISO 12614-8:2014, MOD)

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ISO

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CSA/ANSI LNG 3.8-2018
June 2018

Title: *Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 8: Excess flow valve*

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National Standard of Canada

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Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 8: Excess flow valve

(ISO 12614-8:2014, MOD)

Prepared by
International Organization for Standardization

Reviewed by

CSA Group

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CSA/ANSI LNG 3.8-2018
Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 8: Excess flow valve
(ISO 12614-8:2014, MOD)

CSA Preface

This is the first edition of CSA/ANSI LNG 3.8, *Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 8: Excess flow valve*, which is an adoption, with North American deviations, of the identically titled ISO (International Organization for Standardization) Standard 12614-8 (first edition, 2014-07-01). At the time of publication, ISO 12614-8:2014 is available from ISO in English only. CSA Group will publish the French version when it becomes available from ISO.

For brevity, this Standard will be referred to as "CSA/ANSI LNG 3.8" throughout.

The North American deviations are intended to
a) correct inaccuracies; and
b) replace references to ISO and IEC Standards with references to U.S. and CSA Group Standards, where applicable.

This Standard is intended to be used in conjunction with CSA/ANSI LNG 3.1-2018, *Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 1: General requirements and definitions* (adopted ISO 12614-1:2014, with Canadian deviations) and CSA/ANSI LNG 3.2-2018, *Road vehicles — Liquefied natural gas (LNG) fuel system components— Part 2: Performance and general test methods* (adopted ISO 12614-2:2014, with Canadian deviations).

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

This Standard was reviewed for North American adoption by the CSA Subcommittee on Liquefied Natural Gas Vehicle Fueling Connection Devices, LNG 1, under the jurisdiction of the CSA Technical Committee on Natural Gas Transportation and the CSA Strategic Steering Committee on Transportation. It has been formally approved by the Technical Committee and by the Interprovincial 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. This Standard was approved by the American National Standards Institute (ANSI) as an American National Standard on June 1, 2018.

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a) Standard designation (number);
b) relevant clause, table, and/or figure number;
c) wording of the proposed change; and
d) rationale for the change.

CSA Group acknowledges that the adoption of this Standard was made possible, in part, by the financial support of

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North American deviations

The following deviations are intended to meet local product requirements and to align with energy efficiency requirements of relevant Canadian regulators.

International Standard ISO 12614-8:2014 (first edition) forms the basis for CSA/ANSI LNG 3.8, which contains the following deviations in addition to those shown in CSA/ANSI LNG 3.1-2018 and CSA/ANSI LNG 3.2-2018.

[Replace all references to "ISO 12614-1" with "CSA/ANSI LNG 3.1"]

[Replace all references to "ISO 12614-2" with "CSA/ANSI LNG 3.2"]

1 Scope

[Add the following note]

NOTE 3A For North American application, all references to working pressure are considered to be equivalent to maximum allowable working pressure (MAWP).

2 Normative references

[Add the following]

Where reference is made to CSA Group publications, such reference shall be considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following publications, and the years shown indicate the latest editions available at the time of printing.

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CSA/ANSI LNG 3.1-2018
Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 1: General requirements and definitions
[Replaces ISO 12614-1:2014]

CSA/ANSI LNG 3.2-2018
Road vehicles — Liquefied natural gas (LNG) fuel system components — Part 2: Performance and general test methods
[Replaces ISO 12614-2:2014]

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4 Marking

[Replace Item c) of the list in the first paragraph with the following]

c) the operating specifications (working pressure, temperature range, excess flow valve type, allowable orientation(s), activation flow, or Δ*P*, max. flow when activated).

[Add the following item to the list in the first paragraph]

cA) serial number or date code.

[Delete Item f) from the list in the second paragraph]

6 Test

6.7 Operation

[Replace this Clause with the following]

Measure the activation flow or Δ*P* and the flow of the excess flow valve when it activates. Perform the test using the activation conditions stated by the manufacturer; the measured flows and pressures shall meet the manufacturer's specified tolerance range.

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INTERNATIONAL STANDARD

ISO 12614-8

First edition
2014-07-01

Road vehicles — Liquefied natural gas (LNG) fuel system components —

Part 8: Excess flow valve

Véhicules routiers — Équipements pour véhicules utilisant le gaz naturel liquéfié (GNL) comme combustible —

Partie 8: Valve de limitation de débit

Reference number
ISO 12614-8:2014(E)

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