CSA Group

C22.2 No. 22-18
National Standard of Canada

Electrical equipment for flammable and combustible fuel dispensers

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Electrical equipment for flammable and combustible fuel dispensers

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Preface

This is the fifth edition of C22.2 No. 22, *Electrical equipment for flammable and combustible fuel dispensers* issued by CSA Group under the *Canadian Electrical Code, Part II*. It supersedes the previous editions published in 1986, 1983, 1963, and 1935.

Changes to this edition include:

a) replace the Division classification with Zone classification and referencing the appropriate Zone standards;
b) reference the CE Code, Part I for area classification information instead of repeating the CE Code, Part I in this standard; and
c) reorganization per current editorial practice.

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

This Standard was prepared by the CSA Integrated Committee on Hazardous Location Products, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

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.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety 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 committee interpretation has not already been published, CSA Group's procedures for interpretation shall be followed to determine the intended safety principle."

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.*
4) *To submit a request for interpretation of this Standard, 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 Standard is subject to review within five years from the date of publication. 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.*

C22.2 No. 22-18
Electrical equipment for flammable and combustible fuel dispensers

1 Scope

1.1
This Standard applies to the electrical features of power-operated dispensers for petroleum-based fluids (Group IIA fluids), including propane and lighter-than-air fuel such as natural gas, used as fuel in internal combustion engines, where such devices are operated at 750 V and less, in accordance with the *Canadian Electrical Code, Part I (CE Code, Part I)*, and are intended to dispense the fuel directly into the fuel storage tank for the engine.

1.2
In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to 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.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications
This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

CSA Group

CAN1-12.4-M84 (R2013)
Dispensing devices for propane fuel for highway vehicles

ANSI/IAS NGV 4.1-99/CSA 12.5-M99 (R2014)
NGV Dispensing Systems

B51-14
Boiler, pressure vessel, and pressure piping code

B149.2-15
Propane storage and handling code

