

**Code for the field approval of
fuel-related components on
appliances and equipment**



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Preface

This is the fourth edition of CSA B149.3, *Code for the field approval of fuel-related components on appliances and equipment*. It supersedes the previous editions, published in 2005 and 2000 by the Canadian Standards Association (CSA) as CAN/CSA-B149.3, and in 1989 by the Canadian Gas Association (CGA) as CAN/CGA-B149.3.

This Code brings together for the convenience of users the applicable requirements for appliances and equipment, originally published as part of the CSA B149.1 and CSA B149.2 Codes.

In this 2010 edition, where a major change or addition to the previous edition of the Code has been made, the clause, table, or figure affected is identified by the symbol delta (Δ) in the margin. Users of the Code are advised that the change markers in the text are not intended to be all-inclusive and are provided as a convenience only; such markers cannot constitute a comprehensive guide to the revisions made to the Code. Care must therefore be taken not to rely on the change markers to determine the current requirements of the Code. As always, users of the Code must consider the entire Code and any local amendments.

The CSA B149 Installation Code Committee, which is responsible for preparing this Code, consists of members of the provincial gas inspection authorities, natural gas utilities, propane distributors, appliance, equipment, and accessory manufacturers, certification organizations, and representatives from the Heating, Refrigeration and Air Conditioning Institute of Canada, the Mechanical Contractors Association of Canada, and federal government departments. This Code has been formally approved by the CSA B149 Installation Code Committee and by the Interprovincial Gas Advisory Council.

January 2010

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.
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 - (c) wording of the proposed change; and
 - (d) rationale for the change.

B149.3-10

Code for the field approval of fuel-related components on appliances and equipment

1 Scope

1.1

This Code contains the requirements for fuel-related **components** and accessories and their assembly on an **appliance** utilizing gas, downstream of the **manual shut-off valve** specified in Clause 6.18.2 of CSA B149.1. [Clause 13](#) of this Code contains additional requirements for process ovens, including bakery ovens, process furnaces, and atmosphere generators operating at approximately atmospheric pressure and used by industry for the processing of materials.

1.2

This Code does not apply to

- (a) installations in marine pipeline terminals;
- (b) gas where used as a feedstock in petroleum refineries or chemical plants;
- (c) gas designated for storage or handling, or both, at liquefied petroleum gas bulk plants;
- (d) gas where used for natural gas for vehicles;
- (e) a new **appliance** for which there is an **approved** Standard;
- (f) a manually operated **appliance** with an input not exceeding 20 000 Btuh (6 kW) used for industrial applications; and
- (g) other fuels used in combination with gas.

1.3

When another fuel is used in the installation and in combination with gas, the safe operation of that fuel should be acceptable to the **authority having jurisdiction**.

1.4

Requirements contained herein apply only to that portion of an **appliance** using gas as defined in [Clause 1.7](#), atmosphere gas, and **reaction gas**.

1.5

The requirements contained in this Code apply

- (a) to new non-**certified appliances** and **equipment** of all inputs for which there is no **approved** Standard;
- (b) when the upgrading of an existing certified or non-**certified appliance** is required; and
- (c) to programmable logic controllers or microprocessor-based controls used for flame safety.

1.6

The requirements contained in this Code may be used to replace or supplement an **approved** Standard with the permission of the **authority having jurisdiction**.