

Outdoor cooking specialty gas appliances



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ANZI Z21.89-2017 • CSA 1.18-2017, Outdoor cooking specialty gas appliances

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ANSI Z21.89-2017 • CSA 1.18-2017
Outdoor cooking specialty gas
appliances



American National Standards Institute, Inc.

IGAC

Interprovincial Gas Advisory Council



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Preface

This is the fifth edition of ANSI Z21.89 • CSA 1.18, *Outdoor cooking specialty gas appliances*. It supersedes the previous editions published in 2013, 2007, 2004, and 2002.

This Standard was prepared by the Z21/CSA Joint Technical Subcommittee on Standards for Outdoor Cooking and Illuminating Gas Appliances, under the jurisdiction of the Z21/83 Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories, the Canadian Technical Committee on Gas Appliances and Related Accessories, and the Strategic Steering Committee on Standards for Fuel Burning Equipment, and had been formally approved by the Technical Committees, American National Standards Institute, and the Interprovincial Gas Advisory Council.

Interpretations: The Strategic Steering Committee on Standards for Fuel Burning Equipment 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 committee interpretation has not already been published, CSA’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) *This Standard contains SI (Metric) corresponding to the yard/pound quantities, the purpose being to allow the standard to be used in SI (Metric) units. (Standard for use of the International System of Units (SI): The Modern Metric System, IEEE/ASTM SI 10 or ISO 80000-1:2005 Quantities and units— Part 1: General are used as a guide in making metric conversion from yard/pound quantities.) 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.*
- 3) *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.*
- 4) *This publication was developed by consensus which is defined by CSA Policy governing standardization – Code of good practice for standardization. “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 and yet not be in full agreement with all Clauses of this publication.*
- 5) *This Standard is subject to periodic review, and suggestions for their 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.*
- 6) *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.

History of development of ANSI Z21.89 • CSA 1.18

Note: *This History is informative and is not part of the standard.*

With the onset of the Free Trade Agreement between the United States and Canada on January 2, 1988, significant attention was given to the harmonization of the United States and Canadian safety standards addressing gas-fired equipment for residential, commercial, and industrial applications. It was believed that the elimination of the differences between the standards would remove potential trade barriers and provide an atmosphere in which North American manufacturers could market more freely in the United States and Canada. The harmonization of these standards was also seen as a step toward harmonization with international standards.

With the formation of joint subcommittees, a Canadian Gas Association Standards Steering Committee on Gas Burning Appliances and Related Accessories was established to parallel Accredited Standards Committees Z21 and Z83, and to support the formation of joint subcommittees. Operating procedures for joint subcommittees, in accordance with American National Standards Institute procedures for joint subcommittees, were developed and subsequently approved by American National Standards Institute on April 1, 1993.

A draft document was prepared by the Z21/CGA joint subcommittee on standards for outdoor cooking and illuminating gas appliances during 1999.

Following reconsideration and modification of the proposed draft standard for outdoor cooking specialty gas appliances, and based on comments received, the Z21/CGA joint outdoor cooking and illuminating appliances subcommittee, at its April 17, 2001 meeting, recommended the proposed draft standard to the Z21/83 Committee and the CSA Technical Committee for approval.

The proposed draft harmonized outdoor cooking specialty gas appliance standard was approved by the Z21/83 Committee by letter ballot dated October 19, 2001. The CSA Technical Committee approved the proposed draft harmonized standard for outdoor cooking specialty gas appliances by letter ballot dated September 19, 2001.

The first edition of the harmonized Z21/CGA standard for Outdoor Cooking Specialty Gas Appliances was approved by the Canadian Interprovincial Gas Advisory Council on November 22, 2001, and by the American National Standards Institute, Inc., on January 17, 2002.

The second edition of the Standard for Outdoor Cooking Specialty Gas Appliances was approved by the Canadian Interprovincial Gas Advisory Council on May 31, 2004, and by the American National Standards Institute, Inc. on December 2, 2004.

The third edition of the Standard for Outdoor Cooking Specialty Gas Appliances Standard was approved by the Canadian Interprovincial Gas Advisory Council on February 17, 2007, and by the American National Standards Institute, Inc. on January 11, 2007.

The fourth edition of the Standard for Outdoor cooking specialty gas appliances was approved by the Z21/83 Technical Committee and the CSA Technical Committee on March 12, 2013 and April 15, 2013. The standard was approved by the Interprovincial Gas Advisory Council (IGAC) on June 5, 2013, and by the American National Standards Institute, Inc. (ANSI) on June 26, 2013.

Thus, the fifth edition of the Standard for Outdoor cooking specialty gas appliances was distributed for industry review dated June 2012; July 2012; January 2013; March 2014; July 2014; and July 2016. This edition was approved by the Z21/83 Technical Committee on July 24, 2017; the CSA Technical

Committee on May 31, 2017; and formally approved by the IGAC on August 28, 2017 and by ANSI on August 24, 2017.

The previous edition of the Outdoor Cooking Specialty Gas Appliances standard and addenda thereto, approved by the Interprovincial Gas Advisory Council and American National Standards Institute, Inc. are as follows:

ANSI Z21.89-2002 • CSA 1.18-2002
ANSI Z21.89a-2003 • CSA 1.18a-2003
ANSI Z21.89b-2004 • CSA 1.18b-2004

ANSI Z21.89-2004 • CSA 1.18-2004
ANSI Z21.89a-2006 • CSA 1.18a-2006
ANSI Z21.89b-2006 • CSA 1.18b-2006

ANSI Z21.89-2007 • CSA 1.18-2007
ANSI Z21.89a-2008 • CSA 1.18a-2008
ANSI Z21.89b-2012 • CSA 1.18b-2012

ANSI Z21.89-2013 • CSA 1.18-2013

The following identifies the designation and year of the harmonized standard:

ANSI Z21.89-2017 • CSA 1.18-2017

ANSI Z21.89-2017 • CSA 1.18-2017

Outdoor cooking specialty gas appliances

1 Scope

Δ 1.1

This Standard applies to newly produced, outdoor cooking specialty gas appliances (see Clause 3), hereinafter referred to as appliances, constructed entirely of new, unused parts and materials. Appliances submitted for examination under this Standard are classified as portable or stationary. These products are not intended for commercial use.

1.2

This Standard applies to recreational vehicle gas grills (see Clauses 1.4(e) and 3) mounted to the exterior of a recreational vehicle for connection to the recreational vehicle's low pressure LP gas supply system (see Clause 1.5). It does not apply to appliances for installation in the interior living space of a recreational vehicle.

1.3

This Standard does not apply to a fryer/boiler and smokers for installation in or on a recreational vehicle. This Standard does not apply to appliances for installation in or on a boat.

Δ 1.4

An appliance may be a:

- a) fryer;
- b) boiler;
- c) smoker;
- d) table top gas grill incorporating an open top broiler, top burner(s), griddle, or any combination. A table top gas grill is not a built-in type;
- e) combination of any of the above; or
- f) recreational vehicle gas grill.

1.5

Appliances may be for connection to:

- a) a fixed fuel piping system; or
- b) a self-contained liquefied petroleum gas or propane gas supply system of a single cylinder with a maximum size of 20 lb (9.1 kg) of fuel.

1.6

This Standard applies to appliances operating at inlet gas pressures not to exceed ½ psi (3.5 kPa) for connection to a fixed fuel piping system for use with:

- a) natural gas;
- b) manufactured gas;
- c) mixed gas;
- d) liquefied petroleum gases; and
- e) LP gas-air mixtures.