

STANDARD INFORMATION

Standard Number: ANSI Z21.58 / CSA 1.6
Standard Name: Outdoor Cooking Gas Appliances
Standard Edition and Issue Date: 5th Edition Dated January 1, 2018
Date of Revision: January 1, 2018
Date of Previous Revision of Standard: 4th Edition Dated July 1, 2015

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 1, 2019**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

Overview of Changes:

- Addition of test for appliances which use two 1 pound lp cylinders in tandem.
- Addition of requirements for lightning rods
- New requirements for gas field conversion kits

Specific details of new/revise requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are underlined and deletions are shown lined out below.</i>
4	Info	Construction
4.5	Info	Self-contained LP gas supply systems
		<i>New clause added;</i>
4.5.17		<p>In appliances designed for the use of two propane gas supply cylinders, each with a nominal water capacity less than 2.2 lb (1.00 kg), and equipped with CGA No. 600 Cylinder Connection Devices incorporating a filter on the inlet connection with minimum filtering of 80 micron size, the connection of a single cylinder only shall not result in the leakage of gas out of the remaining connection in accordance with the following Method of Test.</p> <p>Method of Test A pressure of 125 psi (862 kPa) air shall be applied to either cylinder connection device. The flow of air out of the open connection shall not exceed 12.2 in³/h (200 cm³/h).</p>
4.13	Info	Burner ignition except oven burners
4.13.1		<p>Burner ignition shall be capable of being accomplished by a paper book match in accordance with the manufacturer's lighting instructions included in the instruction manual. A lighting rod supplied with the appliance for use with a paper book match is acceptable. If provided, the lighting rod assembly shall be factory installed <u>and permanently attached to the appliance in a manner necessitating the use of a tool for removal of the assembly.</u> Burner ignition may also be accomplished by a manually activated ignition device or a proven pilot. Burner ignition shall be accomplished without the removal of any parts to the appliance. The use of an access door is permitted.</p> <p>If a proven pilot is used, pilot burner ignition shall be capable of being accomplished by a paper book match in accordance with the manufacturer's lighting instructions included in the instruction manual.</p>



New annex added;

Provisions for listed outdoor cooking gas appliance conversion kits (optional)

Annex A

Note: This Annex is a mandatory part of this Standard.

The following provisions are for use by manufacturers who wish to make available field conversion kits when provision is made for the simple conversion of an appliance from one approved gas to the other.

Listing of conversion kits is permitted provided they meet the following criteria.

Types of conversion kits to be listed

Outdoor cooking gas appliance conversion kits listed under these provisions may include, but are not limited to, the following:

A.1

- a) main burner orifices, pilot burner orifices, and all other burner orifices;
- b) new gas controls or kits for pressure regulators, hose and regulator assemblies, and gas connectors;
- c) primary air shutters, spoiler screws;
- d) ignition control(s);
- e) main burner(s); and
- f) rating plates, labels, and instructions.

Conversion kits shall be listed only for appliances having listing for use with both natural and liquefied petroleum gases.

Conversion kits may provide conversion from fixed fuel piping systems to self-contained LP gas supply systems or the reverse of the said conversion to which the gas appliance is listed.

Conversions are not permitted that require:

- a) modifications to baffles; or
- b) use of any component that has not been tested and listed as part of the appliance.

Control modifications

A.2

Conversions that require modifications to a control at the time of conversion are permitted with a listed conversion kit only if, at the time the conversion kit is submitted to the testing agency for purposes of listing, a letter from the control manufacturer agreeing with the specified control modifications accompanies the submittal.



Instructions

Each conversion kit shall be accompanied by clear, concise printed instructions and diagrams, stated in terms clearly understandable, adequate for the proper field assembly, installation, service, and safe use of the conversion kit.

- a) Instructions that the conversion kit shall be installed by a qualified service agency.
- b) The following boxed warning in boldfaced type:

⚠ WARNING

“This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer’s instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer’s instructions supplied with the kit.”

A.3

The warning shall be in letters having a minimum uppercase letter height of 0.120 in (3.05 mm) with a minimum vertical spacing between lines of 0.046 in (1.17 mm).

- * Lowercase letters shall be compatible with uppercase letter size specification.
- c) Appliance model number or series of models acceptable for use with the kit.
- d) Complete parts list identifying all components provided in the kit*.
 - * If the listed hose and regulator, gas connector, and/or quick disconnect device are not included in the conversion kit, the instructions shall indicate the manufacturer’s part number(s) required to complete the conversion. “NOT INCLUDED” shall be marked directly below the missing product.
- e) Identification of the gas to which the appliance is to be converted.
- f) Step-by-step instructions for converting the appliance. If necessary, these instructions shall provide illustrations of the pilot assembly, the manifold, or the manifold and main burner assembly. If applicable, instructions shall state: “Caution: Before proceeding with the conversion, shut off the gas supply to the appliance prior to disconnecting the electrical power.”
- g) Illustrations indicating the proper relationship of the igniter to the main burner with instructions to verify this relationship prior to completing the conversion.
- h) Procedures for proper leak testing of the converted appliance and gas train prior to placing it into operation.
- i) Inlet pressure range of the converted appliance with instructions to check and properly adjust the gas pressure. The range is the minimum inlet pressure (at least 1 in wc above the manufacturer’s specified manifold pressure) and maximum gas supply pressure.
- j) The required input ratings for each main burner and all other burners of the converted appliance.



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- k) Details on adjustment for proper pilot and main burner flame appearance, including written instructions and pictorial illustrations.
 - l) Instructions for placing all markings provided in the kit in the appropriate location on the converted appliance.
 - m) Instructions for checking the normal operating sequence of the ignition system.
- * This letter height and line spacing corresponds to 12-point type.
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Markings

Each conversion kit shall be provided with the following markings:

- a) All components provided with the kit must be marked or color coded so as to make them visibly distinguishable from the components they are replacing. This marking or color coding shall be identified in the instructions provided with the kit.
- b) All orifices provided with the kit must be permanently marked to indicate the orifice size. The orifice size shall be specified in the instructions accompanying the kit.
- c) A conversion plate on Class IIIA marking material, with explicit instructions to affix the conversion plate as close as possible to the existing rating plate. This plate shall include the following information or reference the information on the existing rating plate:
 - i) appliance model number or series of models;
 - ii) the gas to which the appliance has been converted;
 - iii) manifold pressure;
 - iv) input ratings of all burners; and
 - v) identification of the conversion kit by part, model, or equivalent number.
- d) The following Class IIIA marking, with explicit instructions to affix the label as close as possible to the conversion plate on the appliance:

“This appliance was converted on _____ (day-month-year) to _____ gas with Kit No. _____ by _____ (name and address of organization making this conversion), which accepts the responsibility that this conversion has been properly made.”*

* The data entered shall be permanent and legible.
- e) The following information marked on the exterior of the kit:
 - i) identification of the conversion kit by part, model or equivalent number;
 - ii) appliance model number or series of models acceptable for use with the kit; and
 - iii) identification of the gas to which the appliance is to be converted.

CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.
