

Addenda to the Third Edition of Z21.58-2007 • CSA 1.6-2007
**American National Standard/
CSA Standard For
Outdoor Cooking Gas
Appliances**

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Preface

The standards set forth herein apply to the third edition of the Standard for Outdoor Cooking Gas Appliances, Z21.58-2007 • CSA 1.6-2007, and supersede corresponding standards therein. Following their preparation by the supervising Technical Advisory Group, they were accepted by the American National Standards Institute (ANSI) and the Interprovincial Gas Advisory Council (IGAC), and subsequently approved.

NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

APPROVED



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American National Standards Institute, Inc.

IGAC

November 17, 2007

Interprovincial Advisory Council
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Memorandum from
CSA America, Inc.
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December 9, 2008

**Erratum to the
First Addenda to the Third Edition of
American National Standard/CSA Standard for
Outdoor Cooking Gas Appliances**

There are two errors in Addenda “a” to American National Standard/CSA Standard for Outdoor Cooking Gas Appliances, Z21.58a-2008/CSA 1.6a-2008.

On page 2 of the addenda, 1.4.15 should not have been included and is now deleted. Section 1.4.15 from the full text, Z21.58-2007/CSA 1.6-2007 is retained. On page 4 of the addenda, 1.14.9 and 1.14.10 were incorrectly numbered and should be 1.14.10 and 1.14.11, respectively.

These correction will be incorporated into the next printing of the outdoor cooking gas appliances standard.



Documents
Document Sharing Hub

Addenda to American National Standard/ CSA Standard for Outdoor Cooking Gas Appliances

Part I: Construction

1.4 Gas Supply Lines

1.4.15

(Former 1.4.15 retained.)

~~1.4.15~~

~~A hose employed as a component part of an outdoor cooking gas appliance for connection to a fixed-fuel supply system shall be:—~~

- ~~a. A gas hose connector complying with the Standard for *Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances*, ANSI Z21.54/CSA 8.4;~~
- ~~b. A minimum of 10 ft (3.1 m) and a maximum of 15 ft (4.6 m); and~~
- ~~c. May be shipped separately provided the appliance terminates in a flared fitting in accordance with the Standard for *Automotive Tube Fittings*, ANSI/SAE J.512.~~

1.14 Burner Ignition

1.14.10

If a piezo-electric spark device is used for burner ignition, the spark generator and the spark electrodes shall comply with the Standard for *Manually-Operated Piezo-Electric Spark Gas Ignition Systems and Components*, ANSI Z21.77 • CGA 6.23.

1.14.11

If a manually operated electric ignition device is used for burner ignition, the spark generator and the spark electrodes shall comply with the Standard for *Manually Operated Electric Gas Ignition Systems and Components*, ANSI Z21.92 • CSA 6.29.



Addenda to American National Standard/ CSA Standard for Outdoor Cooking Gas Appliances

Part I: Construction

1.1 Scope

1.1.6

An outdoor cooking gas appliance conforming to 1.1.5-b2 and that is capable of accepting either a 20 lb (9.1 kg) or a 30 lb (13.6 kg) LP-gas cylinder, shall have all applicable tests in Part I, Construction, and Part II, Performance, conducted with both size cylinders.

1.1.7

This standard applies to outdoor cooking gas appliances operating at inlet gas pressures not to exceed $\frac{1}{2}$ psi (3.5 kPa) for connection to a fixed fuel piping system:

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

This standard also applies to outdoor cooking gas appliances designed for connection to self-contained LP-gas supply systems (see 1.6, Self-Contained LP-Gas System):

- a. Operating at regulated outlet pressures not to exceed 11 in wc (2.74 kPa); and
- b. Operating at regulated outlet pressures in excess of 11 in wc (2.74 kPa) but not greater than 5 psi (34.5 kPa).

The construction of outdoor cooking gas appliances for use with the above-mentioned gases is covered under Part I, Construction.

The performance of outdoor cooking gas appliances for use with the above-mentioned gases is covered under Part II, Performance.

1.1.10

An outdoor cooking gas appliance having integral mounting and retention means shall be designed so a spare 20 lb (9.1 kg) or 30 lb (13.6kg) LP-gas cylinder cannot be stored within any enclosure, or under the firebox of the appliance.

1.2 General Construction And Assembly

1.2.4

Burners shall be supplied in one assembly including the burner head, venturi, air shutter and all other parts downstream of the orifice. Removable burner heads of multi-piece top burners and burner parts, other than the air shutter, designed to be movable during normal operation of the outdoor gas grill need not be part of the one assembly; however, shall be supplied with the one assembly.

1.2.5

If provided, an RV grill with a pullout mounting or storage system shall have means to lock the storage system in place in the fully extended and storage positions.

1.2.7

The general construction and assembly shall be of a neat and workmanlike character with parts well fitted and bolts or other fasteners drawn up tightly to give rigidity. Exposed edges, with which the user may reasonably come in contact during normal use or adjustment of the outdoor cooking gas appliance, shall not be sharp. This includes bottoms of legs of portable outdoor cooking appliances that are in contact with the ground.

1.3 Outdoor Cooking Gas Appliance Structure

1.3.6

Outdoor cooking gas appliances having more than two wheels shall have means to lock the outdoor cooking gas appliance in a stationary position. The locking means shall be accessible with the hand or foot when the appliance is installed in accordance with the manufacturer's instructions.

(Former 1.3.5 and 1.3.6 deleted.)

1.4 Gas Supply Lines

1.4.15

A hose employed as a component part of an outdoor cooking gas appliance for connection to a fixed-fuel supply system shall be:

- a. A gas hose connector complying with the Standard for *Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances*, ANSI Z21.54/CSA 8.4;
- b. A minimum of 10 ft (3.1 m) and a maximum of 15 ft (4.6 m); and
- c. May be shipped separately provided the appliance terminates in a flared fitting in accordance with the Standard for *Automotive Tube Fittings*, ANSI/SAE J.512.

1.5 Fixed Fuel Piping Systems

1.5.4

Except for RV grills, a hose shall be provided with a portable outdoor cooking appliance, for connection to a fixed-fuel supply system and:

- a. Shall be a gas hose connector complying with the Standard for *Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances*, ANSI Z21.54 • CSA 8.4;

- b. Shall be a minimum of 10 ft (3.1 m) and a maximum of 15 ft (4.6 m); and
- c. May be supplied separately, with complete instructions for installation, provided the appliance terminates in a flared fitting in accordance with the Standard for *Automotive Tube Fittings*, ANSI/SAE J512.

1.6 Self-Contained LP-Gas Supply Systems

1.6.14

If supplied, the cylinder shall be constructed and marked in accordance with the *Specifications for LP-gas Cylinders* of the U.S. Department of Transportation (DOT), or the *Cylinders, Spheres and Tubes for Transportation of Dangerous Goods*, CAN/CSA B339. If the cylinder provided has a nominal capacity in excess of 2.2 lb (1.0 kg) it shall:

- a. Incorporate a cylinder valve complying with the Standard for *Cylinder Valves*, ANSI/UL 1769.
- b. Be of a maximum nominal 30 lb (13.6 kg) fuel capacity;
- c. Include a collar to protect the cylinder valve;
- d. Bear a label on Class IIIA-2 marking material containing, at a minimum, the information shown in Exhibit A. The label letter type shall be "Helvetica" with a minimum letter height of:
 1. 0.180 in (4.57 mm), which corresponds to 18-point type, for the letters of the word "⚠ DANGER."
 2. 0.140 in (3.56 mm), which corresponds to 14-point type, for the letters of the statement "FLAMMABLE GAS UNDER PRESSURE."
 3. 0.140 in (3.56 mm), which corresponds to 14-point type, for the letters of the statement "LEAKING LP-GAS MAY CAUSE A FIRE OR EXPLOSION IF IGNITED CAUSING SERIOUS BODILY INJURY OR DEATH."
 4. 0.140 in (3.56 mm), which corresponds to 14-point type, for the letters of the statement "CONTACT LP-GAS SUPPLIER FOR REPAIRS OR DISPOSAL OF THIS CYLINDER OR UNUSED LP-GAS."
 5. 0.180 in (4.57 mm), which corresponds to 8-point type, for the letters of the word "⚠ WARNING."
 6. 0.140 in (3.56 mm), which corresponds to 18-point type, for the letters of the statement "FOR OUTDOOR USE ONLY.*"
 7. 0.140 in (3.56 mm), which corresponds to 14-point type, for the letters of the statement: "DO NOT USE OR STORE THIS CYLINDER IN A BUILDING, GARAGE OR ENCLOSED AREA."
 8. 0.100 in (2.54 mm), which corresponds to 10-point type, for the letters of the word "⚠ WARNING:".
 9. Uppercase letter height of 0.090 in (2.29 mm), which corresponds to 9-point type, for the letters of the bulleted statements below "⚠ WARNING:". Lowercase letters shall be compatible with the uppercase letter size specifications.

10. 0.100 in (2.54 mm), which corresponds to 10-point type, for the letters of the statement "WHEN CONNECTING FOR USE:".
11. Uppercase letter height 0.090 in (2.29 mm), which corresponds to 9-point type, for the letters of the bulleted statements below "WHEN CONNECTING FOR USE:". Lowercase letters shall be compatible with the uppercase letter size specifications.
12. 0.140 in (3.56 mm), which corresponds to 14-point type, for the letters of the statement "**EXCEPT AS AUTHORIZED BY ANSI/NFPA 58 or CSA B149.1."
13. 0.100 in (2.54 mm), which corresponds to 10-point type, for the letters of the word "⚠
DANGER."
14. 0.090 in (2.29 mm), which corresponds to 9-point type, for the letters of the statement "Do not store a spare LP cylinder under or near a barbecue grill, or other heat sources. NEVER fill an LP cylinder beyond 80 percent full: a fire causing death or serious injury may occur." Lowercase letters shall be compatible with the uppercase letter size specifications.
15. Uppercase letter height of 0.080 in (2.03 mm), which corresponds to 8-point type, for the text detailing the various components of the illustration. Lowercase letters shall be compatible with the uppercase letter size specifications.

The entire label shall be coated with a protective film to minimize the effects of exposure to sunlight. The coating shall have a minimum thickness of 0.001 in (0.025 mm);

- e. Be provided with a cylinder connection compatible with the connection of the outdoor cooking gas appliance;
- f. Be provided with a listed overfill prevention device which will operate secondarily to proper filling methods (weight or volume); and
- g. Incorporate a cylinder valve permanently identified as being equipped with an overfilling protection device.

1.8 Manual Valves

(Former 1.8.9, deleted)

1.14 Burner Ignition

1.14.9

If a piezo-electric spark device is used for burner ignition, the spark generator and the spark electrodes shall comply with the Standard for *Manually-Operated Piezo-Electric Spark Gas Ignition Systems and Components*, ANSI Z21.77 • CGA 6.23.

1.14.10

If a manually operated electric ignition device is used for burner ignition, the spark generator and the spark electrodes shall comply with the Standard for *Manually Operated Electric Gas Ignition Systems and Components*, ANSI Z21.92 • CSA 6.29.

1.22 Instructions

1.22.2

The instructions accompanying the outdoor cooking gas appliance include:

a. For all outdoor cooking gas appliances:

1. A statement that the installation must conform with local codes or, in the absence of local codes, with either the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Natural Gas and Propane Installation Code, CSA B149.1*, or *Propane Storage and Handling Code, B149.2*, or the *Standard for Recreational Vehicles, ANSI A 119.2/NFPA 1192*, and *CSA Z240 RV Series, Recreational Vehicle Code*, as applicable.
2. If an external electrical source is utilized, a statement that the outdoor cooking gas appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70*, or the *Canadian Electrical Code, CSA C22.1*.
3. Instructions to the effect that this outdoor cooking gas appliance shall be used only outdoors and shall not be used in a building, garage or any other enclosed area.
4. A statement that this outdoor cooking gas appliance is not intended to be installed in or on boats. For other than RV grills, a statement that this appliance is not intended to be installed in or on recreational vehicles.
5. Manufacturer's, distributor's, jobber's or dealer's name, as it appears on the name plate; and address and outdoor cooking gas appliance model or series number.
6. Explicit information specifying the necessity for maintaining proper clearances from combustible construction, the specific minimum clearances from such construction to the sides and back of the outdoor cooking gas appliance, and that the outdoor cooking gas appliance shall not be used under overhead combustible construction.
7. Directions for proper assembly and for assembly of field-installed parts and accessories supplied with the outdoor cooking gas appliance, and proper procedures for gas leak testing.
8. Explicit information on the importance of properly locating the burner with respect to the orifice and instructions on how to verify the proper installation.
9. An instruction to inspect the hose before each use of the outdoor cooking gas appliance.

If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the outdoor cooking gas appliance being put into operation. The replacement hose assembly shall be that specified by the manufacturer.

If removal of an access plate(s) or opening of a door(s) is required for this inspection, proper instruction shall be provided on how to gain access for inspection.

10. When a flexible service cord is provided to connect the outdoor cooking gas appliance to a line-voltage electrical supply, the intent of the warning statement specified in 1.23.13 and a statement as follows:

"Keep any electrical supply cord and the fuel supply hose away from any heated surfaces."