

Addenda to the Third Edition of
ANSI Z21.58-2007 • CSA 1.6-2007 and Addenda
ANSI Z21.58a-2008 • CSA 1.6a-2008

Standard for
**Outdoor cooking
gas appliances**



Preface

The standards set forth herein apply to the third edition of the Standard for Outdoor Cooking Gas Appliances, ANSI Z21.58-2007 • CSA 1.6-2007 and Addenda ANSI Z21.58a-2008 • CSA 1.6a-2008 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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Addenda to the Standard for Outdoor Cooking Gas Appliances

Part I: Construction

1.1 Scope

1.1.5

Outdoor cooking gas appliances may be:

- a. For connection to a fixed fuel piping system.
- b. For connection to a remote self-contained liquefied petroleum gas supply system (see Part IV, Definitions), provided the appliance is supplied with remote mounting and retention means for the attachment of a single cylinder with a maximum size in accordance with 1.1.5-b or 1.1.54-c and instructions for installing the mounting and retention means within the built-in enclosure.
- c. For connection to a self-contained liquefied petroleum gas supply system with an integral cylinder mounting means, for attachment to a single cylinder:
 1. Outdoor cooking gas appliances with input ratings less than 80,000 Btu/h shall be designed to accommodate a vertically mounted cylinder with a maximum size of 20 lb (9.1 kg) of fuel.
 2. Outdoor cooking gas appliances with input rating greater than or equal to 80,000 Btu/h shall be designed to accommodate a vertically mounted cylinder with a maximum size of 30 lb (13.6 kg) of fuel.
- d. For connection to a self-contained liquefied petroleum gas supply system with an integral cylinder mounting means for the attachment of not more than two vertically mounted vapor withdrawal cylinders, each with a maximum size of 20 lb (9.1 kg) of fuel for outdoor cooking gas appliances with input ratings greater than or equal to 80,000 Btu/h.

1.5 Fixed Fuel Piping Systems

1.5.5

Instructions for the proper connection of an appliance for a fixed installation (built-in) connected to a fixed fuel system shall be provided. (See 1.23.2-c9.)

1.6 Self-Contained LP-Gas Supply Systems

1.6.5

A built-in appliance for use with a remote self-contained LP-gas supply system must use rigid pipe, semi-rigid tubing, or a connector complying with the *Standard for Connectors for Gas Appliances, ANSI Z21.24/CSA 6.10*, or the *Standard for Connectors for Outdoor Gas Appliances and Manufactured Homes, ANSI Z21.75/CSA 6.27*, to connect the appliance to the remote self-contained gas supply system, provided:

- a. The gas handling components of the remote self-contained LP-gas supply system from the appliance portion of the cylinder connection device up to and including the end fitting or connection to the rigid pipe, tubing, or connector are completely assembled, and supplied with the appliance;
- b. Provisions are made to permit access to the connector or tubing;
- c. Where the connector or tubing passes through openings in cabinets, or openings in the built-in enclosure, the instructions must provide details on providing protection against damage to the connector or tubing;
- d. Instructions provide details of the specific connection method used including the proper length of the connection means and support within the built-in enclosure. (See 1.23.2-c8); and
- e. When using semi-rigid tubing, aluminum or aluminum alloy tubing is not permitted.

1.8 Manual Valves

1.8.7

The design of a valve handle and the marking of the “off” position of the valve shall be clearly and unmistakably indicated by using either the word “Off” or “OFF”; or a full disk or circle (O) at least 3 mm in diameter. Valve handle covers, if used, shall be designed so they cannot cover the handle when the valve is in other than the “off” position.

1.12 Conversion Kits

1.12.1

An outdoor cooking gas appliance for use with two or more of the gases specified in 2.2, Test Gases, without any change in equipment except orifice hoods or spuds may be distributed with a set of orifices for the alternate gases under the following conditions:

- a. The outdoor cooking gas appliance shall be marked to indicate the gas for which it is equipped as supplied (Also see 1.24.2-e of 1.24, Markings.)
- b. The orifices for use with the other gas(es) shall be suitably identified, shall be packaged with the outdoor cooking gas appliance or supplied from the factory as a field conversion kit, and shall comply with 1.12.2.
- c. The outdoor cooking gas appliance shall also display a marking, as specified in 1.24.5-c, outlining the correct selection of the orifices for the gas with which the outdoor cooking gas appliance is to be used when installed; and
- d. If the plate or label supplied with the outdoor cooking gas appliance does not specify the alternate gas then a plate or label of Class IIIA-2 material shall be provided with each conversion kit with instructions for the label to be affixed and located on the outdoor cooking gas appliance or supporting structure in proximity of the original label. This label shall specify the type of gas for which the outdoor cooking gas appliance has been converted.

1.17 Pilot Gas Filters

1.17.1

Pilot gas filters complying with the *Standard for Pilot Gas Filters, ANSI Z21.35 • CSA 6.8*, or the *Standard for Combination Gas Controls for Gas Appliances, ANSI Z21.78 • CSA 6.20*, shall be provided for all continuous gas pilots.

1.17.2

Manufacturer's specified capacities for pilot gas filters shall not be less than the rated capacities of the pilot burners with which they are used.

(Former 1.17, Rack Support And Broiler Pans, through 1.23, Markings, become 1.18 through 1.24, respectively.)

1.23 Instructions

1.23.2

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 1.24.13 and a statement as follows:

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

11. Lighting instructions and control operation, including pictorial representations.

12. Maintenance instructions (including recommended frequency guidelines) relative to:

- (a) Keeping outdoor cooking gas appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- (b) Not obstructing the flow of combustion and ventilation air.
- (c) Keeping the ventilation opening(s) of the cylinder enclosure free and clear from debris.
- (d) Visually checking burner flames including pilot burner flame, if provided, with pictorial representations.
- (e) Cleaning outdoor cooking gas appliance, including special surfaces, with recommended cleaning agents, if necessary.
- (f) Checking and cleaning burner/venturi tubes for insects and insect nests. A clogged tube can lead to a fire beneath the grill.

13. Information for obtaining replacement parts and where they are obtainable.

- b. For an outdoor cooking gas appliance designed for use with a self-contained LP-gas supply system:

1. Information as follows:

- (a) The specific size and capacity of the cylinder(s) to be used.
- (b) The cylinder manufacturer(s) identity (symbol, trade name, etc.) as marked on the cylinder (if required by section 1.6.2).
- (c) Illustration(s) depicting the cylinder mounted to the appliance utilizing the cylinder retention means and the points of contact between the cylinder and the retention means.
- (d) The marked cylinder water capacity or LPG capacity (in pounds) as stated by the cylinder manufacturer(s); and