



**Summary of Substantive Changes  
between  
the 2012 addenda (designated ANSI Z21.58b/CSA 1.6b) and the 2007 edition of  
ANSI Z21.58/CSA 1.6, “Outdoor Cooking Gas Appliances”  
(The comparison includes the 2008 addenda, designated ANSI Z21.58a/CSA 1.6a)**

**Presented to the IAPMO Standards Review Committee on June 10, 2013**

**General:** The change to this standard might have an impact on currently listed products. The substantive changes are:

- Added requirements for remote activated self contained LP gas supply systems (see Section 1.6.5).
- Limited the allowable markings used to indicate the valve off position (see Section 1.8.7).
- Added labeling requirements for conversion kits that do not require any change in equipment (see Section 1.12.1).
- Added requirements to include additional instructions (see Section 1.23.2).
- Add a test for top section burners and a test for the griddle burner (see Section 2.5.1).
- Added an exception for and revised the method to test the possibility of tipping (see Section 2.18.4).
- Changed the warning label text (see Exhibit A)

Section 1.5, Fixed Fuel Piping Systems: Added the following requirement to include additional instructions:

[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. \(See 1.23.2-c9.\)](#)

Section 1.6, Self-Contained LP-Gas Supply Systems

Section 1.6.5: Added a standard for connector compliance and additional requirements for remote activated self contained LP gas supply systems as follows:

*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 Connections for Gas Appliances, ~~Z~~[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.*

#### Section 1.8, Manual Valves

Section 1.8.7: Limited the allowable markings used to indicate the valve off position as follows:

*The design of a valve handle and the marking of the “off” position shall be such that 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.*

#### Section 1.12, Conversion Kits

Section 1.12.1: Added the labeling requirements for conversion kits as follows:

*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:*

*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: Added requirements for pilot gas filters as follows:

##### 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.*

**Note:** Former Sections 1.17, Rack Support And Broiler Pans, through 1.23, Markings, were renumbered to become 1.18 through 1.24, respectively.

#### Section 1.23, Instructions

Section 1.23.2: Added requirements to include additional instructions as follows:

*c. For built-in outdoor cooking gas appliances:*

*8. For built-in appliances incorporating remote self-contained LP-gas supply systems, the method of connecting a cylinder to the appliance manifold shall be provided. These instructions shall include:*

*(a) For designs specifying the use of a connector, a statement indicating that the connector must comply with the Standard for Connectors for Outdoor Gas Appliances and Manufactured Homes, ANSI Z21.75 • CSA 6.27, and suitable for outside installation. The*

*instructions shall indicate that the maximum length of the connection shall be 6 ft (1.82 m);*

*(b) Directions to ensure visibility of the connector, such as through a door opening in the enclosure;*



- (c) Directions for supporting the piping, flexible tubing, or gas connector within the built-in enclosure; and
  - (d) Directions for protecting the tubing or connector as it passes through openings in a compartment in the built-in enclosure.
9. Instructions for connecting an appliance to a fixed fuel piping system specifying the use of rigid pipe, semi-rigid tubing, and/or a connector that complies with the Standard for Connectors for Outdoor Gas Appliances and Manufactured Homes, ANSI Z21.75 • CSA 6.27.

Section 2.4, Burner Capacities: Clarified the method of taking gas input ratings as follows:

*The gas input ratings to the outdoor cooking gas appliance burners at normal test pressure shall be as specified by the manufacturer. Adjustments shall be made in accordance with the manufacturer's instructions. Unless the manufacturer's instructions specify that the top burners are to be operated with the cover or hood in the open position only, gas input ratings shall be taken with the cover or hood in the closed position.*

## 2.5 Combustion

2.5.1: Added a test for top section burners and a test for the griddle burner section as follows:

a. *An open top broiler...*

- 3. An additional test shall be conducted on appliances equipped with a combination of other top section burners with all burners placed in operation simultaneously with the top broiler burner(s). All burners capable of simultaneous operation shall be operated for 5 minutes at normal test pressure, after which samples of the flue gases shall be secured as specified in 2.5.1-a above.

c. *Top ~~units~~ burners shall be tested...*

2. *During this test...*

~~Two adjacent~~ The top burner(s) shall be covered with a cast-iron griddle plates 9.50 in (241 mm) in diameter having the bottom recessed 0.187 in (4.8 mm) with approximately a 0.125 in (3.2 mm) wide lip. (See Figure 6, Griddle Plate Used in Combustion Test.) When an appliance incorporates two or more top burners, two adjacent open top burners shall be covered with the griddle plate. When a burner...

- d. A griddle burner section shall be tested with the griddle installed in accordance with the manufacturer's instructions. A 7.5 in (191 mm) diameter (bottom) utensil containing 5 lb (2.3 kg) of water at approximately room temperature shall be placed on the griddle. A suitably designed hood shall be placed over the griddle in such a manner as to collect the griddle burner's flue gases. Any other gas-fired cooking sections capable of simultaneously operating with the griddle burner shall be operated during the time the samples are being secured. Samples of the flue gases shall be secured from the hood outlet with the outdoor cooking gas appliance operating according to the test conditions specified in 2.5.1-a above.

Section 2.6, Burner Operating Characteristics

Section 2.6.2: Clarified performance requirements as follows:



Carbon deposits that occur during the wind test (see 2.23, Wind Test) are acceptable if they occur in areas not effecting combustion and burner performance.

Sections 2.10.6, 2.15, and 2.20: Revised the requirement to use a recording potentiometer for measuring temperature as follows:

...temperatures shall be obtained by means of ~~an indicating or recording potentiometer~~ a temperature indicating device and

Section 2.18, Outdoor Cooking Gas Appliance Structure

Section 2.18.4: Added an exception to the requirement and revised the test for the possibility of tipping as follows:

*An outdoor cooking gas appliance shall be constructed so it cannot be tipped. This shall not apply to broilers which are provided with means, including necessary screws, bolts or both, and instructions for attaching them to the floor, for mounting their bases in the ground, or for broilers which are intended for built-in installation.*

*Method of Test*

*With all doors, lids, or covers in the closed position, the outdoor cooking gas appliance shall be tipped in any direction at an angle of 15 degrees (0.26 rad) from the vertical and shall not tip over when released.*

*An outdoor cooking gas appliance for connection to a self-contained LP-gas supply system shall comply with this test with and without a full cylinder in place. If swivel type casters are provided, they shall be oriented so that the tendency to overturn is maximum.*

Exhibit A, LP-Gas Cylinder Label: Changed the warning label text as follows:

*When not connected for use keep cylinder valve turned off. Self contained outdoor cooking appliance shall be limited to a cylinder of ~~20 lb~~ 30 lb. capacity or less.*

Part IV - Definitions: Added the definition of Automatic Gas Ignition System.