



**ANSI Z21.17a-2008**  
**CSA 2.7a-2008**  
*(reaffirmed 2014)*

Addenda to the First Edition of  
ANSI Z21.17-1998 (R 2004) • CSA 2.7-M98  
**American National Standard/  
CSA Standard for  
Domestic Gas Conversion  
Burners**



# ***Preface***

The standards set forth herein apply to the first edition of the Standard for Domestic Gas Conversion Burners, ANSI Z21.17-1998 (R 2004) • CSA 2.7-1998 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



January 14, 2008  
American National Standards Institute, Inc.

**IGAC**

April 8, 2008  
Interprovincial Advisory Council  
Effective in Canada November 1, 2009

Standard Developer

CSA AMERICA INC.  
8501 East Pleasant Valley Road  
Cleveland, Ohio 44131

CANADIAN STANDARDS ASSOCIATION  
5060 Spectrum Way, Suite 100  
Mississauga, Ontario, Canada L4W 5N6

Published - April 2008

Copyright © 2008  
Canadian Standards Association

Permission is granted to republish material herein in laws or ordinances, and in regulations, administrative orders, or similar documents issued by public authorities. Those desiring permission for other republication should consult Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.

Copyright © 2008  
CSA America, Inc.

Permission is granted to republish material herein in laws or ordinances, and in regulations, administrative orders, or similar documents issued by public authorities. Those desiring permission for other republication should consult CSA America, Inc., 8501 East Pleasant Valley Road, Cleveland, Ohio 44131.

# ***Addenda to American National Standard/CSA Standard for Domestic Gas Conversion Burners***

## ***Part I: Construction***

### **1.9 Automatic Gas Ignition Systems And Pilot Filters**

#### **1.9.2**

Each conversion burner shall be equipped with an automatic gas ignition system (see Part IV, Definitions).  
This system shall be designed to function in one of the following manners:

- a. Provide for ignition of main burner gas by means of a proved pilot.  
  
If the presence of the pilot is not proved, provide for automatic shutoff of main burner gas and, on conversion burners for use with fuel gases having a specific gravity greater than 1.0, also provide for automatic shutoff of pilot burner gas.
- b. Provide for ignition of main burner gas using a direct ignition system which only supervises the main burner(s) flame.

If the presence of the main burner flame is not proved, provide for automatic shutoff of main burner gas.

In the event of main burner flame outage during an operating cycle, provide for automatic shutoff of main burner gas without re-energizing the direct ignition device or provide for prompt and safe reignition of main burner gas by re-energizing the direct ignition device.

- c. Provide for ignition of main burner gas using a direct ignition system incorporating a proved igniter which proves that the igniter is capable of ignition prior to initiation of main burner gas flow.

For systems which supervise main burner flame during an operating cycle and deenergize the igniter, provide for automatic shutoff of main burner gas in the event of main burner flame outage.