



ANSI Z21.35-2005
(reaffirmed 2020) •
CSA 6.8-2005
(reaffirmed 2020)

American National Standard/CSA Standard for Pilot Gas Filters



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AMERICAN NATIONAL STANDARD
ANSI Z21.35-2005

CSA STANDARD
CSA 6.8-2005

Second Edition - 2005

This Standard is a revised edition
of the former

Standard for

PILOT GAS FILTERS

ANSI Z21.35-1995 • CAN/CGA-6.8-M95
Z21.35a-1997 • CGA 6.8a-M97
Z21.35b-2000 • CGA 6.8b-2000

APPROVED



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IGAC

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Preface

This publication represents a basic standard for safe operation, substantial and durable construction, and acceptable performance of pilot gas filters for gas appliances. It is the result of years of experience in the manufacture, testing, installation, maintenance, inspection and research on pilot gas filters for gas appliances designed for utilization of gas. There are risks of injury to persons inherent in appliances that, if completely eliminated, would defeat the utility of the appliance. The provisions in this standard are intended to help reduce such risks while retaining the normal operation of the appliance.

Nothing in this standard is to be considered in any way as indicating a measure of quality beyond compliance with the provisions it contains. It is designed to allow compliance of pilot gas filters for gas appliances, the safety construction and performance of which may exceed the various provisions specified herein. In its preparation, full recognition has been given to possibilities of improvement through ingenuity of design. As progress takes place, revisions may become necessary. When they are believed desirable, recommendations or suggestions should be forwarded to the Chairman of Accredited Standards Committee Z21/83, 8501 East Pleasant Valley Road, Cleveland, Ohio 44131, or the Chairman of the CSA Technical Committee on Gas Appliances and Related Accessories, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada, L4W 5N6.

Safe and satisfactory operation of a pilot gas filter for gas appliances depends to a great extent upon its proper installation, use and maintenance. It should be installed, as applicable, in accordance with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*; the *Natural Gas and Propane Installation Code, CSA B149.1*.

Users of this American National Standard/Canadian Standards Association Standard are advised that the devices, products and activities within its scope may be subject to regulation at the Federal, Territorial, Provincial, state or local level. Users are strongly urged to investigate this possibility through appropriate channels. In the event of a conflict with this standard, the Federal, Territorial, Provincial, state or local regulation should be followed.

THIS STANDARD IS INTENDED TO BE USED BY THE MANUFACTURING SECTOR AND BY THOSE APPLYING THE EQUIPMENT AND BY THOSE RESPONSIBLE FOR ITS PROPER INSTALLATION. IT IS THE RESPONSIBILITY OF THESE USERS TO DETERMINE THAT IN EACH CASE THIS STANDARD IS SUITABLE FOR AND APPLICABLE TO THE SPECIFIC USE THEY INTEND.

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History Of The Development Of Standard For Pilot Gas Filters

(This History is informative and is not part of the standard.)

With the onset of the Free Trade Agreement between the United States and Canada on January 2, 1988, significant attention was given to the harmonization of the United States and Canadian safety standards addressing gas-fired equipment for residential, commercial and industrial applications. It was believed that the elimination of the differences between the standards would remove potential trade barriers and provide an atmosphere in which North American manufacturers could market more freely in the United States and Canada. The harmonization of these standards was also seen as a step toward harmonization with international standards.

With the formation of joint subcommittees, a Canadian Gas Association Standards Steering Committee on Gas Burning Appliances and Related Accessories was established to parallel Accredited Standards Committees Z21 and Z83, and to support the formation of joint subcommittees. Operating procedures, in accordance with American National Standards Institute procedures, for joint subcommittees were developed and subsequently approved by ANSI on April 1, 1993.

At its September 23-24, 1992 meeting, the Joint Thermostat and Automatic Gas Ignition Systems Subcommittee adopted ANSI Z21.35 for distribution for review and comment as a harmonized standard, in that Z21.35 and CAN1-6.8 were identical in content. The first draft harmonized pilot gas filter standard was distributed for review and comment during March 1994.

Following reconsideration and modification of the proposed harmonized draft standard for pilot gas filters, in light of comments received, the joint thermostat and automatic gas ignition systems subcommittee, at its July 14, 1994 meeting, recommended the proposed standard to the Z21 Committee and the CGA Standards Steering Committee, for approval.

The proposed harmonized standard for pilot gas filters was approved by the Z21 Committee by letter ballot dated January 17, 1995. The CGA Standards Steering Committee approved the proposed harmonized standard for pilot gas filters by letter ballot dated April 13, 1995.

The first edition of the American National Standard/CGA Standard for Pilot Gas Filters was approved by the Interprovincial Gas Advisory Council (IGAC) on October 19, 1995 and by the American National Standards Institute, Inc., (ANSI) on November 15, 1995.

This, the second edition of the harmonized American National Standard/CSA Standard for Pilot Gas Filters was approved by the IGAC on April 1, 2005, and by ANSI on March 9, 2005.

The previous edition of the Pilot Gas Filter standard, and addenda thereto, approved by ANSI and the IGAC are as follows:

Z21.35-1995 • CGA 6.8-M95
Z21.35a-1997 • CGA 6.8a-M97
Z21.35b-2000 • CGA 6.8b-2000

The following identifies the designation and year of the harmonized standard:

ANSI Z21.35-2005 • CSA 6.8-2005

Note: *This edition of Z21.35 • CSA 6.8, incorporates changes to the 1995 edition and addenda thereto. Changes, other than editorial, are denoted by a vertical line in the margin.*

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Note

This standard contains SI (Metric) equivalents to the yard/pound quantities, the purpose being to allow the standard to be used in SI (Metric) units. (IEEE/ASTM SI-10 or CAN/CSA Z234.1 are used as a guide in making metric conversion from yard/pound quantities.) If a value for a measurement and an equivalent value in other units, the first stated is to be regarded as the requirement. The given equivalent value may be approximate. Except as noted if in Exhibit A, if a value for a measurement and an equivalent value in other units, are both specified as a quoted marking requirement, the first stated unit, or both shall be provided.

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Harmonized Standard For Pilot Gas Filters

Part I: Construction

1.1 Scope

1.1.1 This standard applies to newly produced pilot gas filters, hereinafter referred to as filters (See Part IV, Definitions), constructed entirely of new, unused parts and materials.

Compliance of a filter with this standard does not imply that the filter is acceptable for use on gas appliances without supplemental tests with the filter applied to the particular appliance design.

1.1.2 This standard applies to filters having maximum operating gas pressure ratings of $\frac{1}{2}$ psi.

1.1.3 Filters complying with the provisions of this standard shall be considered as having an operating temperature range of 32°F to 125°F (0°C to 51.5°C). They may be capable of operation at a higher temperature, lower temperature, or both, when so specified by the manufacturer.

1.1.4 If a value for measurement as given in this standard is followed by an equivalent value in other units, the first stated value is to be regarded as the specification.

1.1.5 All references to psi throughout this standard are to be considered gage pressures unless otherwise specified.

1.1.6 Exhibit A contains provisions that are unique to Canada.

1.1.7 Exhibit B contains a list of standards specifically referenced in this standard, and sources from which they may be obtained.

1.2 General

1.2.1 Construction of filters shall be of a neat and workmanlike character and shall be such that in the course of normal handling, installation and service, they will not become damaged.

1.2.2 The assembly of parts shall be such as to provide proper tightness of the filter medium against container walls so that all gas must pass through the filter medium.

1.2.3 A filter shall not become ineffective due to the effect of contact with fuel gases.

1.2.4 The manufacturer shall supply evidence acceptable to the testing agency that all materials have been evaluated and found to be suitable for their intended usage. Test data based on ASTM or other appropriate test procedures, certifications or historical data may be