



CSA/ANSI Z21.15:21 • CSA 9.1:21
National Standard of Canada
American National Standard



Manually operated gas valves for appliances, appliance connector valves and hose-end valves



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Interprovincial
Gas Advisory Council

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Preface

This is the third edition of CSA/ANSI Z21.15 • CSA 9.1, *Manually operated gas valves for appliances, appliance connector valves and hose-end valves*. It supersedes the previous editions published in 2009 and 1997.

The third edition of this Standard has been updated to reflect current industry practice and address CSA Group's guide on drafting Standards. Major changes to this edition include the following:

- a) Clause [1.2](#) includes a change of 1/2 psi to 72 psi;
- b) Addenda A and B have been incorporated into this Standard; and
- c) language has been added for non-displaceable valve members.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the ANSI/CSA Joint Subcommittee on Manually Operated Gas Valves, under the jurisdiction of the Z21/83 Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories, and the Strategic Steering Committee on Fuels and Appliances, and has been formally approved by the Z21/83 Technical Committee, the Canadian Technical Committee on Gas Appliances and Related Accessories, and the Interprovincial/Territorial Gas Advisory Council.

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CSA/ANSI Z21.15:21 • CSA 9.1:21

Manually operated gas valves for appliances, appliance connector valves and hose-end valves

1 Scope

1.1

This Standard applies to manually operated gas valves, hereinafter referred to as valves, not exceeding 4 in (102 mm) pipe size, and pilot shut-off devices, hereinafter referred to as devices constructed of entirely new unused parts and materials. Except for hose-end valves not intended for permanent connection to a hose, and appliance connector valves, these valves and devices are intended to be used as part of a gas-fired appliance.

This Standard does not apply to manually operated gas valves for use in above-ground fuel gas piping downstream of the gas meter outlet and upstream of the gas appliance connector valve. These valves are covered in CSA 9.4 and ASME B16.44.

1.2

This Standard applies to valves and devices for use with natural and propane gases, unless otherwise stated within this Standard, at maximum operating pressures of 1/2 psi and up to and including 72 psi (496 kPa).

1.3

Hose-end valves not intended for permanent connection are limited to 1/2 psi (3.45 kPa).

1.4

This Standard applies to valves and devices capable of operation at ambient temperatures of 32 °F (0 °C) to 125 °F (51.5 °C), unless a higher temperature, lower temperature, or both, are specified by the manufacturer (see Clause [5.1.2](#)).

1.5

A valve may be an individual valve or may be incorporated as part of a device that includes other means to control main burner gas, with the components of such a device performing a function other than that covered by this Standard complying with the applicable American National Standard(s) or Canadian Standard(s).

1.6

Compliance with this Standard does not imply that such valve or device is acceptable for use on gas appliances without supplemental tests with the valve or device applied to the particular appliance design.