CSA GROUP™

CSA 9.4:21
National Standard of Canada

Standard for manually operated metallic gas valves for use on piping systems up to 5 psig

SCC CCN

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National Standard of Canada

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Standard for manually operated metallic gas valves for use on piping systems up to 5 psig

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Interprovincial Gas Advisory Council

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Preface

This is the first edition of CSA 9.4, *Standard for manually operated metallic gas valves for use on piping systems up to 5 psig* and was developed from the certification requirement CSA CR91-002.

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

This Standard was prepared by the Joint Subcommittee on Standards on Manual Valves, under the jurisdiction of the Technical Committee on Gas Appliances and Related Accessories, and the Strategic Steering Committee on Fuels and Appliances, and has been formally approved by the Technical Committee and the Interprovincial/Territorial Gas Advisory Council.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Interpretations: The Strategic Steering Committee on Fuels and Appliances has provided the following direction for the interpretation of standards under its jurisdiction: "The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA Group's procedures for interpretation shall be followed to determine the intended safety principle."

Notes:

1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
3) *This Standard was developed by consensus, which is defined by* CSA Policy governing standardization — Code of good practice for standardization *as "substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity". It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include "Request for interpretation" in the subject line:*
   a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
   b) *provide an explanation of circumstances surrounding the actual field condition; and*
   c) *where possible, phrase the request in such a way that a specific "yes" or "no" answer will address the issue.*

   Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization *and are available on the* Current Standards Activities *page at standardsactivities.csa.ca.*
5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line:*
   a) *Standard designation (number);*
   b) *relevant clause, table, and/or figure number;*
   c) *wording of the proposed change; and*
   d) *rationale for the change.*

CSA 9.4:21
Standard for manually operated metallic gas valves for use on piping systems up to 5 psig

1 Scope

1.1
This Standard applies to newly produced manually operated metallic gas shut-off valves, hereinafter referred to as valves, constructed entirely of new, unused parts and materials that

a) are for indoor/outdoor installation;
b) are for use in the gas piping between the outlet of the gas distributor's meter and the inlet connection of the pressure regulator installed upstream of the manual valve in the gas piping to each appliance;
c) are capable of operation at ambient temperatures between 32 to 125 °F (0 to 52 °C) if intended for indoor use only, or temperatures between –40 to 180 °F (–40 to 82 °C) if intended for indoor/outdoor use;
d) are to be rated for either 2 psig (14 kPa) or 5 psig (35 kPa); and
e) include sizes 1/4 through 4 in NPS and tubing sizes 1/4 in through 1 in O.D.

1.2
A valve covered under this Standard is for use with natural gas, manufactured gas, or propane gas.

1.3
This Standard sets forth the minimum capabilities, characteristics, and properties that a valve must possess, at the time of manufacture, in order to be considered suitable for use in an indoor/outdoor gas piping system. Details of design and manufacture, other than those stated in this Standard, including such design and production tests that will produce a valve that will have the required capabilities to meet the Standard, remain the responsibility of the manufacturer.

1.4
All references to pressure throughout this Standard are to be considered gauge pressures, unless otherwise specified.

1.5
In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.