



CSA/ANSI NGV 4.6:20
National Standard of Canada
American National Standard



Manually operated valves for natural gas dispensing systems



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CSA/ANSI NGV 4.6:20

October 2020

Title: *Manually operated valves for natural gas dispensing systems*

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Manually operated valves for
natural gas dispensing systems*



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Approved on September 14, 2020 by ANSI
Approved on August 13, 2020 by IGAC
Published in October 2020 by CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3

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or call toll-free 1-800-463-6727 or 416-747-4044.

ICS 75.200
ISBN 978-1-4883-3145-9

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Preface

This is the second edition of CSA/ANSI NGV 4.6, *Manually operated valves for natural gas dispensing systems*. It supersedes the previous edition, ANSI/IAS NGV 4.6/CSA 12.56, published in 1999.

This Standard encompasses the safe operation, substantial and durable construction, and performance testing of components for manually operated valves for natural gas dispensing systems, within limitations given below and in the scope of this Standard.

This Standard is based on proven engineering principles, research, and the combined expertise of gas utilities, manufacturers, users, and others having specialized experience.

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 products which may exceed that specified in the provisions herein. In its preparation, full recognition has been given to possibilities of improvement through ingenuity of design. This Standard is subject to revision as further experience and investigation may show it is necessary and desirable.

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CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support of Natural Resources Canada.

This Standard does not apply to fuel system components that will be incorporated during original manufacture of motor vehicles which comply with *Federal Motor Vehicle Safety Standards (FMVSS)* or *Canadian Motor Vehicle Safety Standards (CMVSS)* for Natural Gas Powered Vehicles.

This Standard was prepared by the Subcommittee on Breakaway Devices and Valves for Natural Gas Vehicle Dispensing Systems under the jurisdiction of the Technical Committee on Natural Gas Transportation and the Strategic Steering Committee on Transportation, and has been formally approved by the Technical Committee, the American National Standards Institute, and the Interprovincial Gas Advisory Council.

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

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.

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.*

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 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA/ANSI NGV 4.6:20

Manually operated valves for natural gas dispensing systems

1 Scope

1.1 Types of valves in the scope of this Standard

These requirements apply to manually operated valves for compressed natural gas.

1.2 Types of valves not in the scope of this Standard

These requirements do not apply to cylinder shut-off valves.

1.3 Terminology

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.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

1.4 Units of measure

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below.

CSA Group

B108-18

Natural gas refuelling stations installation code

ASME (American Society of Mechanical Engineers)

B1.1-2003 (R2018)

Unified Inch Screw Threads, UN and UNR Thread Form