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**ANSI Z21.93-13/CSA 6.30-13**

**Excess flow valves for natural and LP  
gas with pressures up to 5 psig**

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*ANSI Z21.93-13/CSA 6.30-13*  
***Excess flow valves for natural and LP  
gas with pressures up to 5 psig***



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*Interprovincial Gas Advisory Council*



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# Preface

This is the first edition of ANSI Z21.93/CSA 6.30, Excess flow valves for natural and LP gas with pressures up to 5 psig.

This Standard was prepared by the Z21/CSA Joint Technical Advisory Group on Standards for Manual Valves, under the jurisdiction of the CSA and Z21/83 Technical Committees on the Performance and Installation of Gas Burning Appliances and Related Accessories and the Strategic Steering Committee on Standards for Gas Appliances and Related Accessories, and formally approved by the Technical Committee(s), American National Standards Institute, and the Interprovincial Gas Advisory Council.

**Interpretations:** The Strategic Steering Committee on Standards for Gas Appliances and Related Accessories 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's procedures for interpretation shall be followed to determine the intended safety principle.”

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

## History of development of ANSI Z21.93/CSA 6.30

**Note:** *This history is informative and is not part of the standard.*

CSA America, Inc. assumed responsibilities for the CSA Requirements / A.G.A. Requirements to create a managed system, and where appropriate, develop a national standard. The first draft harmonized standard for excess flow valves was based on the A.G.A. Requirement for Excess Flow Valves, No. 3-92. The draft document was prepared by the Z21/CSA Joint Technical Advisory Group (TAG) on Standards for Manually Operated Gas Valves in 2003.

The proposed draft standard for excess flow valves for natural and LP gas with pressures up to 5 psig was distributed for review and comment during 2007. Following reconsideration and modification of the proposed standard, based on comments received, the Z21/CSA Joint Manually Operated Gas Valves TAG, at its June 26, 2012 meeting, recommended the proposed standard to the Z21/83 Committee and the CSA Technical Committee for approval.

The proposed harmonized standard for excess flow valves for natural and LP gas with pressures up to 5 psig was approved by the Z21/83 Committee on September 12, 2012. The CSA Technical Committee approved the proposed harmonized standard on November 19, 2012.

The first edition of the harmonized standard was approved by the Canadian Interprovincial Gas Advisory Council on December 21, 2012, and by the American National Standards Institute Inc. on February 19, 2013.

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

ANSI Z21.93-2013/CSA 6.30-2013

# ***ANSI Z21.93-13/CSA 6.30-13***

## ***Excess flow valves for natural and LP gas with pressures up to 5 psig***

### **1 Scope**

#### **1.1**

This standard applies to excess flow valves constructed entirely of new unused parts and materials intended for use after the service meter or second stage regulator (see Clause 3), hereinafter referred to as valves, not to exceed 2 in (50.8 mm) nominal pipe size.

#### **1.2**

Valves covered by this standard shall automatically limit the downstream flow of gas in the event that the flow reaches the valve's trip flow.

#### **1.3**

This standard applies to valves for use with natural, manufactured and mixed gases, liquefied petroleum (LP) gases, and LP gas-air mixtures at pressures not to exceed 5 psi (35 kPa).

#### **1.4**

Valves shall have a minimum operating pressure of no greater than 5 in wc (1.24 kPa).

#### **1.5**

Valves shall be capable of operation within an ambient temperature range of -20°F to 150°F (-29°C to 66°C). Valves shall also be capable of operation at temperatures outside this specified range when so specified by the manufacturer.

#### **1.6**

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.

#### **1.7**

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

#### **1.8**

This standard contains SI (Metric) corresponding to the yard/pound quantities, the purpose being to allow the standard to be used in SI (Metric) units. (Standard for use of the International System of Units (SI): The Modern Metric System, IEEE/ASTM SI 10 or ISO 80000-1:2009 Quantities and units— Part 1: General are used as a guide in making metric conversion from yard/pound quantities.) If a value for a measurement and a corresponding value in other units are stated, the first stated value is to be regarded as the requirement. The given corresponding value may be approximate. If a value for a measurement and a corresponding value in other units are both specified as a quoted marking requirement, the first stated unit, or both shall be provided.