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NATIONAL STANDARD

ANSI/CAN/UL/ULC 1337:2022

STANDARD FOR SAFETY

LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems

Approved American National Standard
ANSI

ANSI/UL 1337-2022

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UL Standard for Safety for LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems, ANSI/CAN/UL/ULC 1337

First Edition, Dated December 7, 2022

Summary of Topics

This First Edition of ANSI/CAN/UL/ULC 1337, Standard for LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems, dated December 7, 2022 is a new joint standard and has been issued to reflect the latest ANSI and SCC approval dates and to incorporate the proposals dated March 18, 2022.

The new requirements are substantially in accordance with Proposal(s) on this subject dated March 18, 2022.

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ANSI/UL 1337-2022

DECEMBER 7, 2022



ANSI/CAN/UL/ULC 1337:2022

Standard for LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems

First Edition

December 7, 2022

This ANSI/CAN/UL/ULC Safety Standard consists of the First Edition.

The most recent designation of ANSI/UL 1337 as an American National Standard (ANSI) occurred on December 7, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been designated as a National Standard of Canada (NSC) on December 7, 2022.

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Preface

This is the First Edition of ANSI/CAN/UL/ULC 1337, Standard for LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems.

UL is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO). ULC Standards is accredited by the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

This Standard has been developed in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization.

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In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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This Edition of the Standard has been formally approved by the UL Standards Technical Panel (STP) on Valves and Safety Relief Valves for Anhydrous Ammonia and LP-Gas, STP 125.

This list represents the STP 125 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

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International Classification for Standards (ICS): 75.180.01, 75.200

For further information on UL standards, please contact:

Underwriters Laboratories Inc.
Telephone: (613) 755-2729
E-mail: ULCStandards@ul.com
Web site: ulse.org

This Standard is intended to be used for conformity assessment.

The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

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INTRODUCTION

1 Scope

1.1 This standard sets forth minimum requirements for the following types of devices for engine fuel system applications intended for use with liquefied petroleum gas (LP-Gas), natural gas, and/or manufactured gas.

a) Automatic shutoff valves – electrically operated or vacuum actuated (mechanical);

b) Combination manual/automatic shutoff valves – electrically operated or vacuum actuated (mechanical);

c) Carburetors or air-fuel mixers;

d) Regulators;

e) Vaporizers and vaporizer/regulators;

f) Filters and strainers;

g) Fuel locks and fuel-lock filters;

h) Fittings and connectors;

i) Quick connect couplings and quick closing couplings;

j) Liquid level gauges;

k) Liquid level control valves (also known as overfilling prevention devices);

l) Low level sensor;

m) Relief devices; and

n) Fuel control valves.

1.2 Products covered by this standard are intended to be installed and used in accordance with the applicable Codes and Regulations as determined by the Authority Having Jurisdiction (AHJ), such as, but not limited to:

a) In the United States:

1. Liquefied Petroleum Gas Code, NFPA 58;

2. Vehicular Natural Gas Fuel Systems Code, NFPA 52; and

3. Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, NFPA 37.

b) In Canada:

1. Natural gas and propane installation code, CSA B149 Series;

2. Provincial or other regulations.

1.3 Devices covered by this standard are intended to be installed and used on vehicle (automobile, fork-lift, etc.) or engine generators. This standard does not cover these devices for general use.

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1.4 Except for such observations as are required to ascertain performance characteristics, the assigning of flow capacity ratings are not within the scope of these requirements.

1.5 These requirements do not cover products for use in hazardous (Classified) locations.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this standard shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 Referenced publications

4.1 The documents shown below are referenced in the text of this Standard. Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

ANSI/ASME B1.20.1, *Pipe Threads, General Purpose*

ASTM B86, *Standard Specification for Zinc-Alloy Die Castings*

ASTM D471, *Standard Test Method for Rubber Property-Effect of Liquids*

ASTM B858, *Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys*

CSA-C22.2 No. 157, *"Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations"*

CSA-C22.2 No. 60079-0, *Explosive Atmospheres – Part 0: Equipment – General Requirements*

CSA-C22.2 No. 60079-11, *Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "I"*

NFPA 37, *Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines*

NFPA 52, *Vehicular Fuel Systems Code*

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