UL 2227

STANDARD FOR SAFETY

Overfilling Prevention Devices

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UL Standard for Safety for Overfilling Prevention Devices, UL 2227

Third Edition, Dated December 5, 2024

Summary of Topics

This new Third Edition of ANSI/UL 2227 dated December 5, 2024 includes the following changes:

– Update to Nipple Adaptor Size for Testing: 30.3;

– Inclusion of BTU Flowrate Exception: 30.5; and

– Editorial Updates throughout the Standard

The requirements are substantially in accordance with Proposal(s) on this subject dated October 18, 2024.

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UL 2227

Standard for Overfilling Prevention Devices

First Edition – November, 1999
Second Edition – February, 2007

Third Edition

December 5, 2024

This ANSI/UL Standard for Safety consists of the Third Edition.

The most recent designation of ANSI/UL 2227 as an American National Standard (ANSI) occurred on December 5, 2024. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE 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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INTRODUCTION

1 Scope

1.1 These requirements cover devices for use on stationary containers or portable LP-Gas containers that consist of a shutoff mechanism that works in conjunction with a liquid level sensing device that shuts off the incoming flow of LP-Gas during a refilling operation when the liquid level reaches a predetermined point. The sensing mechanism may be a float, dip tube, or other type of sensor that is intended to cause operation of the shutoff mechanism. An overfilling prevention device may be a separate component intended for installation on cylinder or fill valves designed for such purposes, or may be incorporated into the design of a cylinder or fill valve assembly. Overfilling prevention devices may be designed for use in automotive applications.

1.2 Overfilling prevention devices covered by these requirements are for use in applications covered by the following standards:

a) Liquefied Petroleum Gas Code, NFPA 58.

b) Outdoor Cooking Gas Appliances, CSA Z58:22/CSA 1.6:22.

c) Standard on Recreational Vehicles, NFPA 1192.

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 Reference Publications

3.1 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.

3.2 The following publications are referenced in this Standard:

CSA Z58:22/CSA 1.6:22, *Outdoor Cooking Gas Appliances*

ASME B1.20.1, *Pipe Threads, General Purpose (Inch)*

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

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