



UL 567

STANDARD FOR SAFETY

Emergency Breakaway Fittings, Swivel Connectors
and Pipe-Connection Fittings for Petroleum
Products and LP-Gas



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UL Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP-Gas, UL 567

Tenth Edition, Dated May 7, 2014

Summary of Topics

This new edition of ANSI/UL 567 clarifies requirements for hose assemblies and revises the Moist Ammonia-Air Stress Cracking Test.

The new and/or revised requirements are substantially in accordance with Proposal(s) on this subject dated March 7, 2014.

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

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MAY 7, 2014



ANSI/UL 567-2014

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UL 567

Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe- Connection Fittings for Petroleum Products and LP-Gas

The first through third editions were titled Pipe Connectors for Flammable Liquids and LP-Gas. The fourth through seventh editions were titled Pipe Connectors for Flammable and Combustible Liquids and LP-Gas. The eighth edition was titled Pipe Connectors for Petroleum Products and LP-Gas.

First Edition – August, 1959
Second Edition – March, 1971
Third Edition – August, 1972
Fourth Edition – May, 1978
Fifth Edition – March, 1984
Sixth Edition – March, 1989
Seventh Edition – August, 1992
Eighth Edition – June, 1996
Ninth Edition – July, 2003

Tenth Edition

May 7, 2014

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

The most recent designation of ANSI/UL 567 as an American National Standard (ANSI) occurred on May 7, 2014. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

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

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INTRODUCTION

1 Scope

1.1 These requirements cover emergency breakaway fittings, swivel connectors and pipe-connecting fittings of the threadless compression type. Connectors and fittings covered by these requirements are intended only for the following services.

1.2 A swivel connector is either a hose swivel or joint swivel. The swivel connector will allow radial movement and shall be constructed for petroleum product, liquefied petroleum gas (LP-Gas) or anhydrous ammonia (NH₃) service.

1.3 An emergency breakaway fitting is used between the outlet of the dispensing device and the hose nozzle valve or lever-operated fuel transfer valve (LP-Gas Service) and separates in the event that the coupling is subjected to an excessive pull force to safeguard against abnormally excessive pull force on the hose assembly and dispenser and prevent loss of liquid. An emergency breakaway fitting shall be constructed for petroleum product, liquefied petroleum gas (LP-Gas) or anhydrous ammonia (NH₃) service. The fittings shall be of the single-break or reconnectable type.

1.4 Requirements for the installation and use of dispensing equipment handling petroleum products are included in the Flammable and Combustible Liquids Code, NFPA 30, and the Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A.

1.5 Requirements for the installation and use of dispensing devices handling LP-Gas are included in the Liquefied Petroleum Gas Code, NFPA 58.

1.6 Requirements for the installation and use of dispensing equipment handling anhydrous ammonia are included in the Safety Requirements for the Storage and Handling of Anhydrous Ammonia, ANSI/CGA G-2.1 (ANSI K61.1).

1.7 A hose assembly provided with an integral swivel connector for petroleum product service shall comply with the applicable requirements in the Standard for Hose and Hose Assemblies for Dispensing Flammable Liquids, UL 330.

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component.

2.1.2 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.

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

2.1.4 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.

2.2 Units of measurement

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

2.3 Undated references

2.3.1 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 Glossary

3.1 For the purposes of this standard the following definitions apply:

3.2 FITTING, PIPE-CONNECTING – A fitting of the threadless compression seal-ring type for use in the assembly of petroleum product dispensing devices to facilitate connection of piping or tubing. These fittings shall be made in the straight coupling style, as well as in the tee, ell, reducer, adapter, and other styles.

3.3 FITTING, RECONNECTABLE TYPE – An emergency breakaway fitting designed such that upon separation it is intended to be reconnected and reused when it is not damaged.

3.4 FITTING, SINGLE-BREAK TYPE – An emergency breakaway fitting that, upon separation, is not intended to be reconnected and reused.

3.5 HOSE SWIVEL – A swivel connector with one end attached to a hose and the other end to an appurtenance. The hose swivel will allow radial movement of the hose and/or appurtenance to prevent the hose from twisting or having torsional stress.

3.6 LIQUEFIED PETROLEUM GAS (LP-GAS OR LPG) – Any material having a vapor pressure not exceeding that allowed for commercial propane, as defined in Standard Specification for Liquefied Petroleum (LP) Gases, ASTM D1835, that is composed predominantly of the following hydrocarbons, either by themselves (excluding propylene) or as mixtures: propane, propylene, butane (normal butane or isobutane) and butylenes.

3.7 PETROLEUM PRODUCTS – As used herein, means gasoline, gasoline/alcohol blends containing up to 15 percent alcohol, fuel oil, kerosene, and similar liquid motor or heating fuel products.

3.8 PRESSURE INDICATING DEVICE – As used herein, the pressure indicating device means one of the following:

- a) An analog gauge having a pressure range such that the test pressure is between 30 and 70 percent of the maximum scale reading of the gauge;
- b) A digital pressure transducer, or other digital gauge, that is calibrated over a range of pressure that includes the test pressure; or