



UL 21

STANDARD FOR SAFETY LP-Gas Hose

UL Standard for Safety for LP-Gas Hose, UL 21

Eleventh Edition, Dated December 15, 2014

Summary of Topics

These revisions to ANSI/UL 21 include the following:

1. Revision to the moist ammonia-air stress cracking test

The revised requirements are substantially in accordance with Proposal(s) on this subject dated May 19, 2017.

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DECEMBER 15, 2014
(Title Page Reprinted: July 28, 2017)



ANSI/UL 21-2017

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UL 21

Standard for LP-Gas Hose

The First and Second editions were titled Hose for Conducting LP-Gas.

First Edition – September, 1955
Second Edition – March, 1964
Third Edition – November, 1967
Fourth Edition – February, 1973
Fifth Edition – August, 1978
Sixth Edition – April, 1980
Seventh Edition – June, 1986
Eighth Edition – December, 1991
Ninth Edition – June, 1995
Tenth Edition – December, 2007

Eleventh Edition

December 15, 2014

This ANSI/UL Standard for Safety consists of the Eleventh Edition including revisions through July 28, 2017.

The most recent designation of ANSI/UL 21 as an American National Standard (ANSI) occurred on July 27, 2017. 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 UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 These requirements cover hose and hose assemblies in sizes up to and including a nominal internal diameter of 4 in (102 mm) for conveying liquefied petroleum gas (LP-Gas) intended to be installed in closed systems in compliance with the Standard of the National Fire Protection Association Liquefied Petroleum Gas Code, NFPA 58. The hose or hose assembly is intended for a maximum working pressure of 350 pounds per square inch gauge (psig) (2400 kPa) for use at temperatures within the range of minus 40°C (minus 40°F) to plus 60°C (140°F), or minus 54°C (minus 65°F) to plus 60°C. Hose and hose assemblies in sizes larger than 2 in (50.8 mm) are not intended for use on reels.

1.2 This standard does not apply to:

- a) Flexible hose connectors for LP-Gas that are investigated under the Standard for Pigtailed and Flexible Hose Connectors for LP-Gas, UL 569;
- b) Gas appliance connectors for handling fuel gases at 5 psig (34.5 kPa) or less, which are investigated under Connectors for Gas Appliances, ANSI Z21.24, nor to metallic hose intended for use in oil transportation piping, in petroleum refinery piping, or in gas transmission and distribution piping systems; or
- c) Hose intended for use in automotive applications or hose intended for use in confined areas.
- d) Hose assemblies that are investigated under Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances, ANSI Z21.54.

2 General

2.1 Units of measurement

2.1.1 If a value for measurement is followed by a value in other units in parentheses, the second value may be only approximate. The first stated value is the requirement.

2.2 Undated references

2.2.1 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.