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Underwriters Laboratories Inc.®

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April 7, 1995

Revision pages for

Standard for

Semiautomatic Fire Hose Storage Devices

UL 47, Fifth Edition

Attached to this transmittal notice is a reprinted title page for the Fifth edition of UL 47.

Attention is directed to the note on the title page of this standard outlining the procedure to be followed to retain the approved text of ANSI/UL 47-1995.

Revised and/or additional pages may be issued from time to time.

With the inclusion of the accompanying material, the standard consists of pages dated as shown in the following checklist:

Page	Date
1	September 27, 1993 (Reprinted April 7, 1995)
2	—
3 – 11, A1	September 27, 1993

SEPTEMBER 27, 1993
(Title Page Reprinted: April 7, 1995)



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UL 47

Standard for

Semiautomatic Fire Hose Storage Devices

First Edition – January, 1972

Second Edition – April, 1979

Third Edition – July, 1980

Fourth Edition – May, 1987

Fifth Edition

September 27, 1993

Approval as an American National Standard (ANSI) covers the numbered paragraphs on pages dated September 27, 1993. These pages should not be discarded when revised or additional pages are issued if it is desired to retain the ANSI approved text.

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Approved as ANSI/UL 47-1995, February 13, 1995

Revisions of this standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest published set of revision pages.

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Subject 401 (47)
 (In reply, refer to
 Subject 401)

333 Pfingsten Road
 Northbrook, IL 60062-2096
 March 4, 1994

TO: Fire Council of Underwriters Laboratories Inc.,
 Subscribers to UL's Listing Service for Portable
 Spray Hose Nozzles for Fire Protection Service
 and
 Others Interested

SUBJECT: Request for Comments on Proposed Requirements for the
 Third Edition of the Standard for Portable Spray Hose
 Nozzles for Fire Protection Service, UL 401; and PROPOSED
 EFFECTIVE DATES

SUMMARY OF TOPICS

This bulletin proposes the following changes in requirements:

1. Adding a test to determine the nozzle flow rate at inlet pressures less than 100 psig.
2. Correlating flushing tests and the rough usage test with NFPA 1964.

COMMENTS ON THIS PROPOSAL DUE: April 18, 1994.

Attached for your review and comments are proposed requirements for UL 401.

Please note that proposed requirements are of a tentative and early nature and are for review and comment only. Current requirements are to be used to judge a product until these requirements are published in final form.

PROPOSED EFFECTIVE DATE

Since the proposed requirements in paragraphs 18.2 and 18.3 will necessitate a review and possible retest of currently Listed

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products, UL proposes that these requirements become effective 12 months after publication. This is intended to provide manufacturers with sufficient time to implement the necessary changes in production. Please note that this also includes the time that will be needed by UL to conduct a review of the modified product.

Since the remainder of the requirements will not necessitate a review or additional testing of currently Listed products, UL proposes that these requirements become effective upon publication.

REQUEST FOR COMMENTS ON PROPOSAL

Please provide the following:

1. Your comments concerning the proposed requirements;
and
2. Your comments concerning the proposed effective
dates, should the proposals be adopted.

Written comments should be sent to the attention of Mary Jo Borja at UL's Northbrook Office, 333 Pfingsten Rd, Northbrook, Illinois, 60062-2096. Please reference all correspondence to Subject 401.

Questions regarding the interpretation of requirements should be directed to the responsible UL staff. Please see Appendix B to this Bulletin regarding designated responsibility for the subject product category.

All comments should be sent by April 18, 1994.

Unless specifically requested to do otherwise, UL will not acknowledge comments indicating concurrence with this proposal.

UNDERWRITERS LABORATORIES INC.

REVIEWED BY:

Mary Jo Borja

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SR:JTM

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PUBLISHED IN FINAL FORM.

A P P E N D I X A

PROPOSED REQUIREMENTS AND PROPOSED EFFECTIVE DATES FOR THE THIRD EDITION OF THE STANDARD FOR PORTABLE SPRAY HOSE NOZZLES FOR FIRE PROTECTION SERVICE, UL 401

* * * * *

For your convenience in review, proposed additions to existing text requirements are shown underlined and proposed deletions are shown ~~lined-out~~. Proposed new requirements are identified by (NEW). In the case of extensively revised paragraphs, the original text is identified by (CURRENT) and is followed by the proposed text identified by (PROPOSED). A paragraph that is proposed to be deleted is identified by (DELETED) and is shown ~~lined-out~~.

* * * * *

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1. Minimum Discharge Pressure

RATIONALE

Members of Industry have suggested that a minimum discharge flow rate be established for fire department nozzles at pressures less than 100 psig. The 100 psig being considered as representative of field use conditions. Based on this, UL proposes that a minimum flow rate of 60 gpm at 50 psig be established for fire department nozzles unless the nozzle is marked with a higher minimum inlet pressure.

IMPACT

The proposals, if adopted, will not require a retest or additional marking of Listed nozzles since no fire department nozzles are currently Listed.

PROPOSALS

8.1 When tested in accordance with paragraphs 8.2 — 8.6, as applicable:

A. A basic spray nozzle shall have a flow that is not more than 10 percent above the rated flow discharge rating, measured at rated pressure in both the straight stream and full spray pattern settings. See paragraph 8.3

B. A constant flow (gallorage) spray nozzle shall flow the rated discharge, plus 10 percent, minus 0 percent, measured at rated pressure, through the entire range of pattern setting from straight stream to wide angle spray.

C. A constant pressure (automatic) spray nozzle shall maintain an inlet pressure of between 85 — 115 psig (586 — 792 kPa) throughout the rated discharge range. A constant pressure nozzle that is also identified as a constant flow nozzle shall comply with this requirement through the entire range of pattern setting from straight stream to wide angle spray.

D. A fire department nozzle shall discharge water at a rate of 60 gpm minimum at an inlet pressure of 50 psig.

EXCEPTION: A fire department nozzle which does not comply with Paragraph 8.1 item D, may be tested for compliance with the discharge requirement in paragraph 8.1 item D, at a

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higher inlet pressure provided that the nozzle is marked with the minimum inlet pressure in accordance with paragraph 25.5A.

Paragraph 8.1 revised date of publication

9.1 Unless rated for Class C fires, a fire department spray nozzle shall develop discharge flow patterns varying from straight stream to a wide range spray. The straight stream pattern setting shall provide a cohesive jet that delivers 90 percent of the rated flow to a circle 15 inches (381 mm) in diameter that is a distance of 25 feet (7.6 mm) from the nozzle at pressures of 50 and 100 psig. The spray pattern settings shall provide a full and solid spray pattern of small droplets, and the spray pattern adjustments shall provide spray pattern angles ranging from 25-120 degrees.

EXCEPTION: A fire department nozzle which does not comply with the requirements in paragraph 9.1 at 50 psig, may be tested for compliance with paragraph 9.1 at a higher inlet pressure, provided the nozzle is marked with the minimum inlet pressure in accordance with paragraph 25.5A.

Paragraph 9.1 revised (date of publication)

(NEW)

25.5A Fire department nozzles which comply with the exceptions of either paragraphs 8.1 or 9.1 shall be marked with the minimum inlet pressure.

Paragraph 25.5A revised (date of publication)

2. Flushing Test and Rough Usage Test

RATIONALE

Members of industry suggested that the flushing tests and rough usage test specified in NFPA 1964 are more representative of end use conditions. Therefore, UL proposes to revise the flushing tests and rough usage test to correlate with NFPA 1964.

IMPACT

The proposals for the flushing tests, if adopted, will not require a review or retest of Listed nozzles.

The proposals for the Rough Usage Test, paragraphs 18.2 and 18.3, if adopted, will require a review or retest of Listed nozzles.