



UL 385

STANDARD FOR SAFETY

Play Pipes for Water Supply Testing in
Fire Protection Service

ULNORM.COM : Click to view the full PDF of UL 385 2020

ULNORM.COM : Click to view the full PDF of UL 385 2020

UL Standard for Safety for Play Pipes for Water Supply Testing in Fire Protection Service, UL 385

Tenth Edition, Dated February 3, 2005

Summary of Topics

This revision of ANSI/UL 385 dated June 22, 2020 includes correcting an error in the title of [Table 9.1](#).

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revisions are substantially in accordance with Proposal(s) on this subject dated March 6, 2020.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 385 2020

FEBRUARY 3, 2005
(Title Page Reprinted: June 22, 2020)



ANSI/UL 385-2020

1

UL 385

Standard for Play Pipes for Water Supply Testing in Fire Protection Service

The first and second editions were titled "Play Pipes." The third edition was titled "Play Pipes for Fire Protection Service".

First Edition – July, 1926
Second Edition – June, 1952
Third Edition – January, 1967
Fourth Edition – March, 1969
Fifth Edition – May, 1973
Sixth Edition – March, 1975
Seventh Edition – February, 1982
Eighth Edition – May, 1988
Ninth Edition – December, 1994

Tenth Edition

February 3, 2005

This ANSI/UL Standard for Safety consists of the Tenth Edition including revisions through June 22, 2020.

The most recent designation of ANSI/UL 385 as an American National Standard (ANSI) occurred on June 5, 2020. 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>.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

COPYRIGHT © 2020 UNDERWRITERS LABORATORIES INC.

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 385 2020

CONTENTS

INTRODUCTION

1	Scope	5
2	Components	5
3	Units of Measurement	5
4	Undated References	5

CONSTRUCTION

5	Materials	5
6	Pipe	5
7	Butts	6
8	Handles	6
9	Nozzle Adapters	6
10	Nozzles	6

PERFORMANCE

11	Hydrostatic Pressure Test	8
----	---------------------------------	---

MARKING

12	General	8
----	---------------	---

ULNORM.COM : Click to view the full PDF of UL 385 2020

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 385 2020

INTRODUCTION

1 Scope

1.1 These requirements cover play pipes for testing of water supplies for fire protection service.

1.2 The play-pipe design and construction covered herein and illustrated in [Figure 10.1](#) has been commonly identified as the Underwriter or National Standard type.

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 Undated References

4.1 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.

CONSTRUCTION

5 Materials

5.1 The pipe shall be made of seamless drawn copper 0.050 inch (1.3 mm) thick, or of rolled brass 1/16 inch (1.6 mm) thick.

5.2 Metal parts, exclusive of the pipe section, shall be made of an alloy of copper, tin, lead, and zinc containing not less than 81 percent copper and not more than 9 percent zinc.

6 Pipe

6.1 The play pipe shall be not less than 15 inches (381 mm) nor more than 30 inches (762 mm) long overall.

6.2 The pipe shall have an inside diameter of 2-17/32 inches (64 mm) at the base and 1-3/4 inches (44 mm) at the throat.

6.3 The inside diameter at the throat shall be accurate within a tolerance of $\pm 1/64$ inch (0.4 mm).

6.4 The pipe shall extend through the brass mountings at the throat.

6.5 The butt and nozzle adapter shall be soldered to the pipe.

6.6 The waterways shall be free of drops of solder or other projections and shall have a smooth surface throughout.

7 Butts

7.1 The butt shall be threaded to fit as ordered. A recess shall be provided in back of the threads for retaining a washer.

8 Handles

8.1 The handle shall be of the swivel pattern. The handle and its means of retention shall resist without rupture or permanent distortion a force of 300 pounds (1334 N) applied at the center of each gripping section in each of four directions, that is, in both directions parallel and in both directions perpendicular to the center line of the play pipe.

9 Nozzle Adapters

9.1 The brass mounting to which the nozzle is threaded shall be provided with an outside recess for retaining a rubber washer. It and the nozzle shall be threaded with 2-3/16 inch – 12 threads having dimensions conforming with those designated in [Table 9.1](#).

Table 9.1
Dimensions of 2-3/16 inch – 12 series threads

Location	Major diameter		Pitch diameter		Minor diameter	
	Minimum inches (mm)	Maximum inches (mm)	Minimum inches (mm)	Maximum inches (mm)	Minimum inches (mm)	Maximum inches (mm)
External	2.166 (55.02)	2.186 (55.52)	2.110 (53.59)	2.120 (53.85)	– –	2.054 (52.17)
Internal	2.203 (55.96)	– –	2.137 (54.28)	2.147 (54.53)	2.071 (52.60)	2.091 (53.11)

9.2 The washer is to be placed outside the thread to prevent it from projecting inside the pipe and disturbing the water stream.

9.3 The washer shall have a nominal thickness of 3/32 inch (2.4 mm).

10 Nozzles

10.1 The nozzle shall be machined as shown in [Figure 10.1](#). The overall length shall be 5 inches (127 mm). It shall have an inside diameter of 1-25/32 inches (45 mm) at the base and 1-1/8 inches (28.6 mm) at the discharge throat.