



UL 312

Underwriters Laboratories Inc. Standard for Safety

Check Valves for Fire- Protection Service



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UL Standard for Safety for Check Valves for Fire-Protection Service, UL 312

Tenth Edition, Dated September 30, 2010

Summary of Topics

This new Tenth Edition of the Standard for Check Valves for Fire-Protection Service, UL 312, includes the following revisions:

- 1) Revise References to NPS, Nominal Pipe Size in 1.1, 5.1.3, 5.1.7, 7.1, 7.2, 9.5, 11.3, 14.6, 19.3, 22.2, and 25.1***
- 2) Clarify Metallic Materials Requirements in Section 8***
- 3) Correction to Cycling Test Requirements in 16.2***
- 4) Relocate Disbondment Test as Section 19 and Correct References in 13.8***
- 5) Revise Hydrostatic Test Requirements in the Strength of Body Test in 9.6 and Section 21***
- 6) Delete References to Mercury Gauges in the Hydraulic Friction Loss Test in Section 22***

The revised requirements are substantially in accordance with Proposal(s) on this subject dated May 28, 2010.

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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that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

The following table lists the future effective dates with the corresponding reference.

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Future Effective Date	References
December 21, 2010	5.1.6, 9.3, 11.4, 11.5, 13.8, 16.1, 16.2, 16.3, 19.1, 19.2, 19.3



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Standard for Check Valves for Fire-Protection Service

First Edition – March, 1931
Second Edition – September, 1951
Third Edition – November, 1964
Fourth Edition – May, 1973
Fifth Edition – May, 1975
Sixth Edition – April, 1980
Seventh Edition – December, 1988
Eighth Edition – June, 1993
Ninth Edition – January, 2004

Tenth Edition

September 30, 2010

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

The most recent designation of ANSI/UL 312 as an American National Standard (ANSI) occurred on September 30, 2010. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

The Department of Defense (DoD) has adopted UL 312 on August 10, 1989. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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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CONTENTS

INTRODUCTION

1 Scope	5
2 Components	5
3 Units of Measurement	6
4 Undated References	6
5 Glossary	6

CONSTRUCTION

6 General	7
7 Rated Pressures	7
8 Metallic Materials	7
9 Bodies and Covers	7
10 Valve Mechanisms	8
11 Clapper Supports	9
12 Clapper Stops	10
13 Seats	10
14 Clearances	11

PERFORMANCE

15 General	11
16 Cycling Test	12
17 Nonmetallic Materials Test	12
17.1 General	12
17.2 Plastic parts	12
17.3 Elastomeric parts (except gaskets)	13
18 Adhesion Test for Resilient Seat Materials	13
19 Disbondment Test	16
20 Leakage Test	16
21 Strength of Body Test	16
22 Hydraulic Friction Loss Test	17
23 Detector Check Valve Differential Test	17

MANUFACTURING AND PRODUCTION TESTS

24 General	17
------------------	----

MARKING

25 General	18
------------------	----

APPENDIX A – CLEARANCES MEASUREMENT REFERENCE

A1 General	A1
A1.1 Bushing dimensions	A1
A1.2 Radial clearances	A2
A1.3 Diametrical clearances	A2

A1.4 Total axial clearances	A2
A1.5 Body clearances	A4
A1.6 Clapper clearances	A5

INTRODUCTION

1 Scope

1.1 These requirements cover check valves of 1 NPS and larger, used in piping systems supplying water for fire protection service.

1.2 The check valves covered by these requirements are intended for installation and use in accordance with the Standards for:

- a) Low-, Medium-, and High-Expansion Foam, NFPA 11;
- b) Installation of Sprinkler Systems, NFPA 13;
- c) Installation of Standpipe and Hose Systems, NFPA 14;
- d) Water Spray Fixed Systems for Fire Protection, NFPA 15;
- e) Installation of Foam-Water Sprinkler and Foam-Water Spray Systems, NFPA 16;
- f) Installation of Stationary Pumps For Fire Protection, NFPA 20;
- g) Water Tanks for Private Fire Protection, NFPA 22;
- h) Installation of Private Fire Service Mains and Their Appurtenances, NFPA 24;
- i) Water Mist Fire Protection Systems, NFPA 750; and
- j) Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height, NFPA 13R.

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.