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JOINT CANADA-UNITED STATES
NATIONAL STANDARD

ANSI/CAN/UL/ULC 312:2022

STANDARD FOR SAFETY

Check Valves for Fire-Protection Service

Approved American National Standard
ANSI

ANSI/UL 312-2022

scc ccn

SCC FOREWORD

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UL Standard for Safety for Check Valves for Fire-Protection Service, ANSI/CAN/UL/ULC 312

Eleventh Edition, Dated June 2, 2022

Summary of Topics

This New Edition of ANSI/CAN/UL/ULC 312, Standard for Check Valves for Fire-Protection Service, dated June 2, 2022 has been issued to reflect the latest ANSI and SCC approval dates, and to incorporate the proposals dated September 30, 2019 and February 4, 2022.

The requirements are substantially in accordance with Proposal(s) on this subject dated September 30, 2019 and February 4, 2022.

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Eleventh Edition

June 2, 2022

This ANSI/CAN/UL/ULC Safety Standard consists of the Eleventh Edition.

The most recent designation of ANSI/UL 312 as an American National Standard (ANSI) occurred on June 2, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been designated as a National Standard of Canada (NSC) on June 2, 2022.

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Preface

This is the Eleventh Edition of ANSI/CAN/UL/ULC 312, Standard for Check Valves for Fire-Protection Service.

UL is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO). ULC Standards is accredited by the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

This Standard has been developed in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization.

This ANSI/CAN/UL/ULC 312 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

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

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This Edition of the Standard has been formally approved by the UL Standards Technical Panel (STP) on Check, Dry Pipe, And Alarm Valves For Fire Protection Service, STP 260.

This list represents the STP 260 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

STP 260 Membership

Name	Represent	Interest Category	Region
Ken Bush	Maryland State Fire Marshal's Office	AHJ/Regulator	USA
Virginia Charter	OSU	General Interest	USA
Jay Current	Ministry Of Solicitor General	Government	Ontario
Harish Dharamshi	HD Fire Protect PVT LTD	Producer	India
R. Fleming	National Fire Sprinkler Association Inc.	General Interest	USA
Corey Gall	Sprinkler Fitters UA Local 183	General Interest	USA
Theodore Harbour	Mueller Water Products	Producer	USA

STP 260 Membership Continued on Next Page

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Name	Represent	Interest Category	Region
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Eldon Jackson	NIBCO Inc.	Producter	USA
Frank Kurz	Fire Technicians Network	Commercial / Industrial User	Canada
Maurice Pilette	Mechanical Designs LTD	General Interest	USA
Anthony Rago	Jensen Hughes	General Interest	Canada
Richard Ray	Cybor Fire Protection CO	Supply Chain	USA
Robert Roegner	North Carolina Department of Insurance	AHJ/Regulator	USA
Michael Savage	Marion County, FL	AHJ/Regulator	USA
Manuel Silva	Johnson Controls INC	Producer	USA
Robert Vincent	Shambaugh & Son INC	Supply Chain	USA
Jeffrey Zwirn	IDS Research Development Inc	General Interest	USA
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This Standard is intended to be used for conformity assessment.

The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

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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.

1.3 Check valves covered by these requirements are intended for installation and use in accordance with, but not limited to the National Fire Code of Canada (NFC), and the National Building Code of Canada (NBC).

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.

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