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ANSI/CAN/UL/ULC 567B:2024

JOINT CANADA – UNITED
STATES NATIONAL STANDARD

STANDARD FOR SAFETY

Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil



ANSI/UL 567B-2024



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SCC FOREWORD

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UL Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil, ANSI/CAN/UL/ULC 567B

Second Edition, Dated May 31, 2024

Summary of Topics

This new Second Edition of ANSI/CAN/UL/ULC 567B dated May 31, 2024 is being issued as a new joint US/Canada Standard reflecting the latest ANSI and SCC approval dates and incorporating the proposal dated August 4, 2023.

The new requirements are substantially in accordance with Proposal(s) on this subject dated August 4, 2023.

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ANSI/UL 567B-2024

MAY 31, 2024



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ANSI/CAN/UL/ULC 567B:2024

**Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-
Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends
with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene,
and Fuel Oil**

Prior to the first edition, the requirements for the products covered by this standard were included in the Outline of Investigation for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil, UL 567B.

First Edition – March, 2015

Second Edition

May 31, 2024

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

The most recent designation of ANSI/UL 567B as an American National Standard (ANSI) occurred on May 31, 2024. 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 May 31, 2024.

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Preface

This is the Second Edition of ANSI/CAN/UL/ULC 567B, Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil.

ULSE 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 567B 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.

This Second Edition joint American National Standard and National Standard of Canada is based on, and now supersedes, the First Edition of UL 567B.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

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 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 Technical Committee (TC) on Pipe Connectors For Petroleum Products And Lp-Gas, TC 567.

This list represents the TC 567 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

TC 567 Membership

Name	Affiliation	Category	Region
D. Boyd	BP America Inc	Commercial/Industrial User	USA
D. Gross	Wal-Mart Stores Inc	Commercial/Industrial User	USA
W. Koch	Technology Resources International, 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 emergency breakaway fittings, swivel connectors and pipe-connecting fittings of the threadless compression type. Connectors and fittings covered by these requirements are intended only for flammable and combustible liquid service.

1.2 Emergency breakaway fittings, swivel connectors and pipe-connecting fittings for diesel fuel, biodiesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 20 Percent (B20), kerosene, and fuel oil shall be constructed to comply with the following:

- a) The requirements defined in UL/ULC 567, and
- b) The requirements in this Standard.

1.3 A swivel connector is either a hose swivel or joint swivel. The swivel connector will allow radial movement and shall be constructed for use with the fluids shown in [1.5](#).

1.4 An emergency breakaway fitting is used between the outlet of the dispensing device and the hose nozzle valve and separates in the event that the coupling is subjected to an excessive pull force to safeguard against abnormally excessive pull force on the hose assembly and dispenser and prevent loss of liquid. An emergency breakaway fitting shall be constructed for use with the fluids shown in [1.5](#). The fittings shall be of the single-break or reconnectable type.

1.5 Emergency breakaway fittings, swivel connectors, and pipe-connecting fittings are intended for use with one or more of the following as applicable:

- a) Diesel fuel, which includes renewable diesel, and diesel/biodiesel blends with nominal biodiesel concentrations up to 5 % (B0 – B5) formulated in accordance with ASTM D975;
- b) Diesel/biodiesel and renewable diesel/biodiesel blends with nominal biodiesel concentrations from 5 % up to 20 % (B6 – B20) formulated in accordance with ASTM D7467;
- c) Biodiesel (B99.9/B100) formulated in accordance with ASTM D6751;
- d) Kerosene formulated in accordance with ASTM D3699; or
- e) Fuel oil (heating oil) formulated in accordance with ASTM D396.

1.6 Products covered by this Standard are intended to be installed and used in accordance with the applicable Codes and Regulations as determined by the Authority Having Jurisdiction (AHJ), such as, but not limited to:

- a) In the United States:
 - 1) Flammable and Combustible Liquids Code, NFPA 30;
 - 2) Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A;
- b) In Canada:
 - 1) The National Fire Code of Canada;
 - 2) Provincial or other Regulations.

1.7 These requirements do not cover devices intended for use with gasoline or gasoline/ethanol blends, which are covered under UL/ULC 567A.

1.8 These requirements do not cover devices intended for use with LP-Gas or anhydrous ammonia, which are covered under UL/ULC 567.

1.9 A hose assembly provided with a swivel connector or emergency breakaway fitting for use with fuels anticipated by these requirements shall comply with the applicable requirements in UL 330B.

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 Referenced Publications

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.

4.2 The following publications are referenced in this Standard:

ASME B1.20.1, *Standard for Pipe Threads, General Purpose (Inch)*

ASME B36.10M, *Standard for Welded and Seamless Wrought Steel Pipe*

ASTM A653/A653M, *Specification for Sheet Steel, Zinc Coated (Galvanized) or Zinc-Iron-Alloy Coated (Galvannealed) by the Hot Dip Process*

ASTM B858, *Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys*

ASTM D396, *Standard Specification for Fuel Oils*

ASTM D664, *Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration*