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JOINT CANADA-UNITED STATES
NATIONAL STANDARD

ANSI/CAN/UL/ULC 2583:2021

STANDARD FOR SAFETY

Fuel Tank Accessories for Flammable and Combustible Liquids

Approved American National Standard
ANSI

ANSI/UL 2583-2021

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SCC FOREWORD

National Standard of Canada

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UL Standard for Safety for Fuel Tank Accessories for Flammable and Combustible Liquids, ANSI/CAN/UL/ULC 2583

First Edition, Dated December 8, 2021

Summary of Topics

This First edition of ANSI/CAN/UL/ULC 2583 dated December 8, 2021, Standard for Fuel Tank Accessories for Flammable and Combustible Liquids, has been issued to reflect the latest ANSI and SCC approval dates, and to incorporate the proposals dated March 5, 2021 and July 30, 2021.

The requirements are substantially in accordance with Proposal(s) on this subject dated March 5, 2021 and July 30, 2021.

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ANSI/UL 2583-2021

DECEMBER 8, 2021

ANSI/CAN/UL/ULC 2583:2021

Standard for Fuel Tank Accessories for Flammable and Combustible Liquids

First Edition

December 8, 2021

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

The most recent designation of ANSI/UL 2583 as an American National Standard (ANSI) occurred on December 8, 2021. 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 December 8, 2021.

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Preface

This is the First Edition of ANSI/CAN/UL/ULC 2583, Standard for Fuel Tank Accessories for Flammable and Combustible Liquids.

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 2583 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 joint American National Standard and National Standard of Canada is based on, and now supersedes, CAN/ULC-S661, CAN/ULC-S663, and Outline of Investigation, UL 2583.

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 Valves for Flammable Fluids, STP 842.

This list represents the STP 842 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

STP 842 Membership

Name	Representing	Interest Category	Region
Barker, Ann-Marie	Technical Standards and Safety Authority (TSSA)	AHJ	Ontario
Bishoff, Mark	Lorax Systems Inc.	Producer	Canada
Boyd, Dennis	BP America Inc.	Commercial/Industrial User	USA
Brossett, Matt	Morrison Bros Co.	Producer	USA

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STP 842 Membership Continued

Name	Representing	Interest Category	Region
Deschamps, Claude	Régie du Bâtiment du Québec (RBQ)	AHJ	Quebec
Dutton, John	J Dutton	General Interest	Canada
Fasel, Mark	Viega LLC	Producer	USA
Henderson, Tom	State Water Resources Control Board	AHJ	USA
Koch, Wolf	Technology Resources International	General Interest	USA
Kuehn, Justin	Franklin Fueling Systems Inc.	Producer	USA
Lauber, Matt	OPW Fueling Components	Producer	USA
Legault, Pierre	Integrated Review Services – Consulting	General Interest	Ontario
Meyer, Jeanne Murphy	Core Engineered Solutions Inc.	Supply Chain	USA
Petersen, James	Petersen Engineering	General Interest	USA
Prusko, Jeffrey	Underwriters Laboratories Inc.	Project Manager – Non-voting	USA
Wade, John A.	ULC Standards	STP Chair – Non-voting	Canada
Werner, Laura	ULC Standards	Project Manager – Non-voting	Canada
Wiegert, B.	PMMIC	General Interest	USA
Wolff-Klammer, Edgar	UL LLC	Testing and Standards Org	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 mechanical type accessories that are typically intended for attachment to storage tanks or connecting pipe for flammable and combustible liquids in commercial (public) or private (fleet) automotive fueling station and similar storage or dispensing applications and are designed to provide automatic safety or operational functions.

1.2 These products may be used with underground or aboveground tank systems and with liquid and/or vapor phases of the fuels and similar fuels or liquids covered by each Part of this Standard as identified below:

a) Part I Vapor Control Products – applies to functional devices and accessories intended for connection to tank top openings (directly on fittings or indirectly on pipe) and perform safety or operational functions in vapor spaces, such as emergency vents, normal vents, interstitial vacuum/e-vent plugs, adapters and caps.

b) Part II Liquid Control Products – applies to functional devices and accessories intended for connection to tank top openings (directly on fittings or indirectly on pipe) and perform safety or operational functions in liquid spaces, such as spill containment devices, overfill prevention devices, and liquid level gauges.

c) Part III Structural and Containment Products (reserved for future use) – applies to metallic components such as access devices, manways, supports, and dikes.

d) Part IV Corrosion Protection Products (reserved for future use) – applies to components such as tank anchors, coatings and resins.

e) Part V Miscellaneous Products – applies to devices and accessories such as portable/mobile tank spill prevention devices, lift lugs, striker plates and monitor well caps.

1.3 These products are intended for use with storage tanks or fueling systems containing automotive fuels and similar fuels or liquids under the expected use conditions and exposures that have similar chemical, physical and material compatibility properties as represented in these requirements. The applicable fuels are intended to be formulated as:

a) Petroleum products, including petroleum hydrocarbon fuels with low-biofuels blends, and similar flammable or combustible liquid petroleum derivatives, such as fuel components (cetane, hexane, heptane), and oils (lubricating, hydraulic, machine);

b) Oxygenated fuel blends, including all “petroleum product” liquids plus petroleum hydrocarbon fuels with low-biofuels blends;

c) Oxygenates, including all “petroleum product” and “oxygenated fuel blends” liquids plus pure/denatured or highest oxygenated blend stocks for use in mixing of dispensed lower fuel blends and components, such as biodiesel and ethanol; and

d) Other flammable and combustible liquids (for which the test fuels in Annex A are not considered to be sufficient or applicable) that can be demonstrated or determined to be compatible with the accessory materials as determined by the certifier.

1.4 Products covered by this Standard are intended to be installed and used in accordance with the applicable documents in the following list:

a) In the United States: