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NATIONAL STANDARD

ANSI/CAN/UL/ULC 331:2023

STANDARD FOR SAFETY

Strainers for Flammable and Combustible Liquids, Anhydrous Ammonia and Non-potable Water

Approved American National Standard
ANSI

ANSI/UL 331-2023

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UL Standard for Safety for Strainers for Flammable and Combustible Liquids, Anhydrous Ammonia and Non-potable Water, ANSI/CAN/UL/ULC 331

Ninth Edition, Dated February 22, 2023

Summary of Topics

This Ninth Edition of ANSI/CAN/UL/ULC 331, Standard for Strainers for Flammable and Combustible Liquids, Anhydrous Ammonia and Non-potable Water, dated February 22, 2023 is a new joint Canada-US standard and reflects the latest ANSI and SCC approval dates and incorporates the proposals dated September 16, 2022.

The new requirements are substantially in accordance with Proposal(s) on this subject dated September 16, 2022.

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ANSI/UL 331-2023

FEBRUARY 22, 2023

ANSI/CAN/UL/ULC 331:2023

Standard for Strainers for Flammable and Combustible Liquids, Anhydrous Ammonia and Non-potable Water

The first edition was titled Standard for Strainers for Hazardous Fluids.

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February 22, 2023

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

The most recent designation of ANSI/UL 331 as an American National Standard (ANSI) occurred on February 22, 2023. 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 February 22, 2023.

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Preface

This is the Ninth Edition of ANSI/CAN/UL/ULC 331, Standard for Strainers for Flammable and Combustible Liquids, Anhydrous Ammonia and Non-potable Water.

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 331 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 Power-Operated Pumps for Petroleum Dispensing Products, STP 79.

This list represents the STP 79 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

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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.

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

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INTRODUCTION

1 Scope

1.1 These requirements cover complete, self-contained strainer or filter assemblies intended for use with designated flammable and combustible liquids, anhydrous ammonia (fertilizer grade), and non-potable water. Flammable and combustible liquid strainers or filter assemblies are used in residential and commercial fuel-burning, dispensing, and handling facilities. Although these devices are designated as strainers, they may be either strainers or filters according to the common terminology of the industry.

1.2 The term flammable and combustible liquids as used in this standard means fuel oil, gasoline, kerosene, and similar petroleum products, liquefied petroleum gas (LP-Gas or propane), and manufactured and natural fuel gas.

1.3 These requirements do not cover the following:

a) Strainers for handling liquids under cryogenic conditions;

b) Strainers for marine use;

c) Strainers for automotive fuel lines;

d) Strainers for handling refrigerants;

e) Strainers for use in such facilities as chemical, petrochemical, petroleum, and utility power plants;

f) Strainers for use in fluid-power (hydraulic and pneumatic) applications;

g) Strainers for use with gasoline or gasoline/ethanol blends, which are covered under the Standard for Strainers for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85), UL 331A; and

h) Strainers for use with diesel fuel, biodiesel fuel, diesel/biodiesel blends, kerosene, or fuel oil, which are covered under the Standard for Strainers for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations Up to 20 Percent (B20), Kerosene, and Fuel Oil, UL 331B.

1.4 Requirements for strainers for non-potable water are provided in Annex A.

1.5 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 Garages, NFPA 30A; et

3) Standard for the Installation of Oil-Burning Equipment, NFPA 31.

b) In Canada:

1) The National Fire Code of Canada;

2) Installation Code for Oil Burning Equipment, CSA B139; and

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