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ULC/ORD-C25-92 (R2018)

METERS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS AND PROPANE

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METERS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS AND PROPANE

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TABLE OF CONTENTS

PAGE

FOREWORD

PREFACE 1

1. SCOPE 2

2. COMPONENTS 2

3. CONSTRUCTION 2

3.1 General 2

3.2 Assembly 3

3.3 Materials 3

3.4 Bodies and Covers 5

3.5 Register-Shaft Seals 6

3.6 Springs 6

3.7 Pipe Connections 6

4. PERFORMANCE 6

4.1 General 6

4.2 Deformation Test 7

4.3 Leakage Test 8

4.4 Endurance Test 8

4.5 Hydrostatic Strength Test 9

4.6 Mercurous-Nitrate Immersion Test 9

5. MANUFACTURING AND PRODUCTION TESTS 10

5.1 General 10

6. MARKING 10

6.1 General 10

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FOREWORD

Certification organizations are periodically requested to promptly provide certification services for devices, constructions, materials and systems where Canadian recognized Standards do not currently exist or are not entirely applicable. Accordingly, the certification organization utilizes its experience, existing specifications and requirements in related areas, together with assistance from its advisory councils to develop and prepare Other Recognized Documents (ORDs) for use in conducting the necessary tests and evaluation investigation.

Underwriters Laboratories of Canada has prepared many ORDs in response to requests from, and in conjunction with, industry, code writing bodies, regulatory agencies and others prior to promulgating a certification program. In many instances such documents have become published ULC Standards and subsequently National Standards of Canada. It is the intention of Underwriters Laboratories of Canada to continue this practice, as appropriate.

Comments on the content of this ORD should be directed to the Head Office of Underwriters Laboratories of Canada, 7 Underwriters Road, Toronto, Ontario, Canada, M1R 3A9.

NOTE: These Other Recognized Documents are accepted under the National Standards System of Canada. Reference may be made to the Document ″Guidelines for the Development and Maintenance of Other Recognized Documents (ORDs)″, published by the Standards Council of Canada located at 55 Metcalfe Street, Suite 600, Ottawa, Ontario, Canada, K1P 6L5.

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METERS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS AND PROPANE

PREFACE

This is the First Edition of the Other Recognized Document for Meters For Flammable And Combustible Liquids And Propane, ULC/ORD-C25-92 (R2018).

Only metric SI units of measurement are used in this ORD. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

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 First Edition ORD has now been Reaffirmed.

Attention is drawn to the possibility that some of the elements of this ORD may be the subject of patent rights. Neither Underwriters Laboratories of Canada, nor ULC Standards, shall be held responsible for identifying any or all such patent rights.

Requests for interpretation of this ORD should be sent to the ULC Mark Program Owner of Underwriters Laboratories of Canada. 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.

ORDs are valid for use by Certification Bodies for certifications for up to 5 years from date of initial validation, or revalidation, unless superseded or withdrawn.

This ORD is intended to be used for conformity assessment.

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1. SCOPE

1.1 These requirements cover positive displacement meters for flammable and combustible liquids and propane in the liquid phase.

1.2 "Flammable and Combustible Liquids," as used herein, means gasoline, fuel oil, kerosene, and similar petroleum products which are handled at pressures not exceeding 690 kPa and at temperatures within the range of minus 40°C to 52°C.

1.3 Flammable and combustible liquid meters covered by these requirements are intended for use in accordance with the National Fire Code of Canada.

1.4 Propane meters covered by these requirements are intended for use in nonrefrigerated systems in accordance with the Propane Installation Code, CAN/CGA-B149.2.

1.5 These requirements do not cover:

A Meters for use with propane in the gaseous phase;

B Velocity meters, head meters, or area meters; and

C Meter components incorporating electrical circuits.

1.6 Determinations of the suitability of registers, counters, or computers used or provided with these meters, or the accuracy of measurement resulting from or required in actual application are not within the scope of these requirements.

2. COMPONENTS

2.1 Strainers, valves, and other component parts of a meter shall comply with the requirements for that component, except that such requirements may be modified if appropriate for the particular application.

3. CONSTRUCTION

3.1 GENERAL

3.1.1 A meter designed to handle flammable and combustible liquids shall be constructed for a maximum working pressure of not less than 345 kPa, and an ultimate rupture pressure of not less than five times the rated maximum working pressure.

3.1.2 A meter designed to handle propane shall be constructed for a maximum working pressure of not less than 1720 kPa, and an ultimate rupture pressure of not less than five times the rated maximum working pressure.

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