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ULC/ORD-C842-84 (R2018)

GUIDE FOR THE INVESTIGATION OF VALVES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS

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CORPORATE HEADQUARTERS
Underwriters Laboratories of Canada
7 Underwriters Road
Toronto, Ontario M1R 3A9
Telephone: (416) 757-3611
Fax: (416) 757-9540
Customer Service: 1-866-937-3852

REGIONAL OFFICES

EASTERN OFFICE
6505, Rte Transcanadienne, Suite 330
St-Laurent, Québec H4T 1S3
Telephone: (514) 363-5941
Fax: (514) 363-7014
Customer Service: 1-866-937-3852

PACIFIC OFFICE
13775 Commerce Parkway, Suite 130
Richmond, British Columbia V6V 2V4
Telephone: (604) 214-9555
Fax: (604) 214-9550
Customer Service: 1-866-937-3852

For further information on ULC standards, please contact:

ULC STANDARDS
171 Nepean Street, Suite 400
Ottawa, Ontario K2P 0B4
Telephone: (613) 755-2729
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Suite 600
Ottawa, Ontario
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Telephone: (613) 238-3222

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GUIDE FOR THE INVESTIGATION OF VALVES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS

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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.

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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.

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GUIDE FOR THE INVESTIGATION OF VALVES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS

PREFACE

This is the Second Edition of the Other Recognized Document for Guide For The Investigation Of Valves For Flammable And Combustible Liquids, ULC/ORD-C842-84 (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 Second 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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GENERAL

1. SCOPE

1.1 These requirements cover valves that are intended to be used for the control of flammable and combustible liquids. They are of the type commonly used in piping systems and in fuel burning equipment. Valves covered by this Guide are for use with liquids which are handled at temperatures within the range of -29°C to 52°C.

1.2 These requirements cover valves of the manually operated, pressure operated or temperature operated types, or combinations of such to the exclusion of types operated wholly or partially by electricity. They may form a part of an assembly which provides for additional functions or service, the requirements for which are outside the scope of these requirements.

1.3 These requirements do not cover the following:

A Valves for handling liquids under cryogenic conditions;

B Valves for general refinery service, marine and pipe line terminals, or petro-chemical processing facilities;

C Constant-level oil valves and electrically operated valves;

D Valves for liquefied petroleum gas (LP-Gas) in the liquid phase;

E Hose Nozzle valves for gasoline dispensers; nor

F Emergency Shutoff valves for gasoline dispensers.

1.4 The term "product" refers to any equipment covered by these requirements.

2. GLOSSARY

2.1 FUSIBLE LINK VALVES - Valves intended for use in lines conveying liquids which function to close when the temperature in the vicinity of the valve exceeds the fusing temperature of the fusible element.

3. GENERAL

3.1 A component of a valve shall comply with the requirements for that component, except that such requirements may be modified if appropriate for the particular application.

3.2 All parts of a valve which are subjected to pressure during normal usage shall withstand, without rupture or permanent deformation, a hydrostatic pressure of five times the rated pressure of the valve.

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