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ULC/ORD-C407-74 (R2018)

GUIDE FOR THE INVESTIGATION OF HIGH-PRESSURE GAS MANIFOLDS

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GUIDE FOR THE INVESTIGATION OF HIGH-PRESSURE GAS MANIFOLDS

ICS 13.240; 75.180.01; 23.020.35

First Edition . . . . . **November 1974**
REAFFIRMED . . . . . MAY 2018

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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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GUIDE FOR THE INVESTIGATION OF HIGH-PRESSURE GAS MANIFOLDS

PREFACE

This is the First Edition of the Other Recognized Document for Guide For The Investigation Of High-Pressure Gas Manifolds, ULC/ORD-C407-74 (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.

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This ORD is intended to be used for conformity assessment.

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In Replying
Please Refer to ULC Subject C407-1974

GUIDE

FOR

THE INVESTIGATION

OF

HIGH PRESSURE GAS MANIFOLDS

GENERAL

1. Scope

1.1 These requirements cover equipment for manifolding high-pressure gas cylinders to supply gas for various industrial and commercial applications. Cylinders are manifolded for the purpose of centralizing the gas supply, to provide a continuous supply of gas, or to provide gas at a rate in excess of that which may be obtained from a single cylinder.

1.2 Manifolds for services other than for nonflammable medical gases are intended to be installed and used in accordance with the Standard of the National Fire Protection Association for the Installation and Operation of Oxygen-Fuel Gas Systems for Welding and Cutting, NFPA No. 51. Those for nonflammable medical gases are intended to be installed and used in accordance with the Standard of the National Fire Protection Association for Nonflammable Medical Gas Systems, NFPA No.56F.

2. Types

2.1 Five types of service are covered by these requirements: (1) Acetylene, (2) Oxygen, (3) Fuel Gases Other Than Acetylene, (4) Nitrogen, Carbon Dioxide, Air, and Inert Gases, and (5) Nonflammable Medical Gases. Manifolds and parts are to be used only for the gas or gases for which they are designed.

2.2 Stationary manifolds are those which consist essentially of a wall- or floor-supported header provided with fittings for connection of cylinders by means of leads. One or more permanently mounted regulators serve to reduce and regulate the pressure of the gas from the cylinders to the point of consumption.

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