TECHNICAL REPORT

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Gas cylinders — Compilation of national and international valve stem/ gas cylinder neck threads and their identification and marking system

Bouteilles à gaz — Compilation des filetages nationaux et internationaux des queues de robinets/goulots de bouteilles et leurs systèmes d'identification et de marquage

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*.

This second edition cancels and replaces the first edition (ISO/TR 11364:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

— Tables 1 to 17 have been corrected;

— Tables for Denmark threads, Indian threads and USA threads have been introduced.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

There is a huge variety of valve to gas cylinder neck thread connections worldwide and cylinders are free to be equipped with any thread according to a recognized thread standard. ISO standards for cylinders and valves require the marking of an identification of the thread on valve and cylinder but there is presently no harmonized marking system.

The purpose of this document is to list all known cylinder/valve threads currently used and also threads used in the past and to specify a harmonized identification code and marking system for both cylinders and valves. The aim is to reduce the risk of mismatches when valves are fitted to gas cylinders and avoid related safety incidents.

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Gas cylinders — Compilation of national and international valve stem/gas cylinder neck threads and their identification and marking system

1 Scope

This document lists the different valve stem to gas cylinder connection threads currently and historically existing worldwide and provides official coded designations for them. These coded designations will then be available for identification and marking purposes.

It also gives guidance concerning which threads are dimensionally identical and which are interchangeable.

Furthermore, this document provides guidance for valving procedures when fitting valves to gas cylinders.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Interchangeability of valve/cylinder threads

Threads of recognized standards which are dimensionally identical but have historically been named differently are fully interchangeable.

Experience has shown that the following combination of threads can be safely used in service: 25E valve with T8, T23 and T26 cylinder threads. However, for small steel (less than 5 l water capacity) and aluminium alloy cylinders, users should examine the suitability of the resulting combination for each application in order for them to be interchangeable.

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