

Irish Standard I.S. EN ISO 20475:2020&LC:2021

Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)

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I.S. EN ISO 20475:2020&LC:2021

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National Foreword

I.S. EN ISO 20475:2020&LC:2021 is the adopted Irish version of the European Document EN ISO 20475:2020, Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)

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Correction Notice

Reference:	EN ISO 20475:2020		
Title:	Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)		
Work Item:	00023230		
	Brussels, 2021-01-13		
Please include	the following minor editorial correction(s) in the document related to:		
the following ☑ Engli ☑ Fren ☐ Gern	ch		
PQ/U	uiry Enquiry Illel Enquiry Parallel Enquiry nal Vote Formal Vote Parallel Formal Vote		
It has been brought to our attention that this document, issued on 2020-12-23, requires modification.			
Missing superse	eded reference in Foreword and Title page		
Please find encl	osed the updated English and French version.		
We apologise for any inconvenience this may cause.			

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EUROPEAN STANDARD

EN ISO 20475

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2020

ICS 23.020.35

Supersedes EN 15888:2014

English Version

Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)

Bouteilles à gaz - Cadres de bouteilles - Contrôles et essais périodiques (ISO 20475:2018)

Gasflaschen - Flaschenbündel - Wiederkehrende Inspektion und Prüfung (ISO 20475:2018)

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EN ISO 20475:2020 (E)

Contents	Pa		
European foreword	3		

EN ISO 20475:2020 (E)

European foreword

The text of ISO 20475:2018 has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20475:2020 by Technical Committee CEN/TC 23 "Transportable gas cylinders" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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INTERNATIONAL STANDARD

ISO 20475

First edition 2018-02

Gas cylinders — Cylinder bundles — Periodic inspection and testing

Bouteilles à gaz — Cadres de bouteilles — Contrôles et essais périodiques





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Co	ntent	S	Page
Fore	word		iv
Intr	oductio	n	v
1	Scop	e	1
2	Norn	native references	1
3	Term	s and definitions	2
4	Proce 4.1 4.2	General Periodic inspections and tests Periodic inspection and tests	4
5	5.1 5.2 5.3 5.4 5.5 5.6	General	5
6	Stam	p marking	7
7	Docu	mentation	7
Ann		rmative) Additional requirements for the periodic inspection and testing of lene bundles	9
Bibl	iograph	y	11

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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

Introduction

The principal aim of a periodic inspection and testing procedure is that, at the completion of the test, the cylinder bundles may be reintroduced into service for a further period of time.

Periodic inspection and testing of cylinder bundles is carried out in conjunction with the retest period of the cylinders within the bundle in order to comply with national and regional transport regulations.

If there are any doubts, inspectors should consult the bundle/cylinder's manufacturer so that the manufacturer's current recommendations are taken into account.

This document is intended to be used under a variety of national regulatory regimes, but has been written so that it is suitable for the application of the UN Model Regulations[10].

In International Standards, weight is equivalent to a force, expressed in Newton. However, in common parlance (as used in terms defined in this document), the word "weight" continues to be used to mean mass, although this practice is deprecated (see ISO 80000-4).

Gas cylinders — Cylinder bundles — Periodic inspection and testing

CAUTION — Some of the tests specified in this document involve the use of processes which could lead to a hazardous situation.

1 Scope

This document specifies the requirements for the periodic inspection and testing of cylinder bundles containing compressed, liquefied and dissolved gas.

NOTE Additional requirements for acetylene cylinder bundles are provided in Annex A.

This document also establishes general principles for the maintenance of cylinder bundles.

This document is not applicable to acetylene bundles with solvent-free acetylene cylinders.

This document excludes the requirements for cylinder bundles when they are a part of a battery vehicle. For some specific applications, e.g. offshore, additional requirements can apply.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10286, Gas cylinders — Terminology

ISO 10460, Gas cylinders — Welded carbon-steel gas cylinders — Periodic inspection and testing

ISO 10462, Gas cylinders — Acetylene cylinders — Periodic inspection and maintenance

ISO 10961, Gas cylinders — Cylinder bundles — Design, manufacture, testing and inspection

ISO 11372, Gas cylinders — Acetylene cylinders — Filling conditions and filling inspection

ISO 11623, Gas cylinders — Composite construction — Periodic inspection and testing

ISO 14113, Gas welding equipment — Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa)

ISO 15996, Gas cylinders — Residual pressure valves — Specification and type testing of cylinder valves incorporating residual pressure devices

ISO 18119¹⁾, Gas cylinders — Seamless steel and seamless aluminium-alloy gas cylinders and tubes — Periodic inspection and testing

ISO 22434, Transportable gas cylinders — Inspection and maintenance of cylinder valves

ISO 25760, Gas cylinders — Operational procedures for the safe removal of valves from gas cylinders

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¹⁾ To be published.



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