PD ISO/TR 17329:2015

BSI Standards Publication

Gas cylinders — Identification of gas cylinder manufacturer marks and their assigned radio frequency identification (RFID) codes

bsi.

...making excellence a habit.™

Document Sharing Hub

National foreword

This Published Document is the UK implementation of ISO/TR 17329:2015.

The UK participation in its preparation was entrusted by Technical Committee PVE/3, Gas containers, to Subcommittee PVE/3/7, Gas containers - Gas cylinder (receptacle) operations.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2015.
Published by BSI Standards Limited 2015

ISBN 978 0 580 83688 6
ICS 23.020.30

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 November 2015.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: PD ISO/TR 17329:2015

TECHNICAL REPORT

ISO/TR 17329

First edition
2015-11-01

Gas cylinders — Identification of gas cylinder manufacturer marks and their assigned radio frequency identification (RFID) codes

Bouteilles à gaz — Identification des marques de fabricant de la bouteille de gaz et leurs codes d'identification (RFID) de fréquences radio

Reference number
ISO/TR 17329:2015(E)

Documents
Document Sharing Hub

© ISO 2015

Full document details: PD ISO/TR 17329:2015

COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub

Full document details: PD ISO/TR 17329:2015

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 General **1**
3 Explanation of columns **2**
Annex A (informative) **List of codes and identification marks for gas cylinder manufacturers** **3**
Annex B (informative) **Instructions to revise list of manufacturer marks** **33**
Annex C (informative) **Current list of codes and identification marks for gas cylinder manufacturers** **34**
Bibliography **35**

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

© ISO 2015 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Introduction

The purpose of this Technical Report is to provide the gas cylinder manufacturing industry, the approval authorities, the inspection bodies, the gas industry and all associated industry branches dealing with gas cylinders a tool for identifying gas cylinders with their manufacturer's marks and their assigned radio frequency identification (RFID) codes.

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Gas cylinders — Identification of gas cylinder manufacturer marks and their assigned radio frequency identification (RFID) codes

1 Scope

This Technical Report provides an inventory, as far as known at time of publication, of manufacturer's identification marks and their assigned radio frequency identification (RFID) codes according to ISO 21007-1 and ISO 21007-2. The listing includes marks of existing gas cylinder manufacturers, as well as cylinder manufacturers which have ceased production in the past, but whose cylinders can still be in service today.

NOTE It is intended to revise Annex A of this Technical Report from time to time in order to update the list of codes and identification marks of gas cylinder manufacturers in accordance with the progressing commercial and economic development in the cylinder manufacturing industry.

Any request for inclusion or modification of these identifications is to be made to the ISO/TC 58/SC 4 Secretariat, who would update the information in Annex A after consultation with the committee leadership.

2 General

There is a general marking requirement by national or international regulations and standards to identify gas cylinders with the cylinder manufacturer's identification (name, trademark and/or logo), e.g. by stamp marking, or for composite cylinders, by labelling, in order to guarantee their traceability. In certain circumstances, it is very important to enable a distinctive identification of the origin of the cylinder. Normally for a given manufacturer, the identification is specific to a manufacturing location.

When, in addition to the above marking requirements, the cylinders are identified by radio frequency identification (RFID) codes, the technologies and RFID codes in accordance with ISO 21007 are used. The first three digits of the RFID codes listed in Column 1 of Annex A are the country code as listed in ISO 3166-1. The subsequent two digits are assigned consecutively in the country's listing. Once assigned, the RFID code designation does not change.

Annex A lists cylinder manufacturers by countries which are currently known to produce or have produced gas cylinders. The list does not claim to be complete and is valid only as of the date of the publication of this Technical Report. Manufacturers that no longer produce cylinders remain in Annex A as their cylinders could still be in service and need to be identified.

It is expected that the manufacturers are using manufacturer's marks which identify unambiguously the manufacturing plant/facility to clearly identify the plant to which the type approval of the concerned cylinder was assigned. Annex A clearly indicates the date when the manufacturing at the old plant/facility ends and the date when the new plant/facility begins manufacturing cylinders. Names of manufacturers may have changed over time; however, these manufacturers may have continued using the same manufacturer's mark provided the approval criteria for the cylinders in question have not changed. Vice versa, a change of the manufacturer's mark may have taken place or alternative marks may be used by one and the same manufacturer.

Clause 3 explains the information provided in each column of Annex A.

To provide updates to the list of manufacturers, use the link provided in Annex B for instructions to submit new/revised information. These revisions, once approved by ISO/TC 58/SC 4 and designated with an RFID code, will be provided on Standards Maintenance Portal at the link provided in Annex C.

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub

Full document details: PD ISO/TR 17329:2015

3 Explanation of columns

The column entitled "**Code**" designates the RFID code for a manufacturer.

Note This code is assigned by the experts of ISO/TC 58/SC 4.

The column entitled "**Manufacturer name**" designates the official name of the gas cylinder manufacturer. It should be noted that the name may have changed over time.

The column entitled "**Location of manufacturing plant/facility**" designates the plant/facility responsible for manufacturing and to which the mark is assigned.

The column entitled "**Year(s) of manufacture**" designates the years for which the manufacturer's mark(s) were used, if known.

For example,

— "→ 1927" means the mark was used inclusive of 1927,

— "1927 → 1961" means the mark was used from some time in 1927 to some time during 1961, and

— "2002 →" means the mark has been used starting some time during 2002 to present.

The column entitled "**Manufacturer's mark**" provides the official manufacturer's identification that is marked on the cylinder as required by ISO 13769 (stamp marking 3 in ISO 13769, Table 1).

Country: XXXXX				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**

© ISO 2015 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Annex A
(informative)

List of codes and identification marks for gas cylinder manufacturers

The following list does not claim to be complete and is current as of 2014-07-24.

Country: ALGERIA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
012 01	F.E.R.A.P. (Fabrication et entretien de récipients à pression)	Algiers		

Country: ARGENTINA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
032 01	L'Air Liquide	Buenos Aires		
			1960 → 1985	
032 02	Drago	Buenos Aires	1938 →	M D
032 03	Fabricacion Militar			FM
032 04	Gas Carbonic Argentina			G.C.A.
032 05	Gonzalez & Chiesa Changed to Inflex Argentoil S.A.	San Luis	1967 →	INFLEX
032 06	Pablo Casale		1958 → 1986	CASALE
032 07	Saravia Y Lopez	Buenos Aires	→ 1993	LS

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Country: ARGENTINA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
032 08	Oxi — Luz			
032 09	Acetylene	Buenos Aires	1972 → 1992	
032 10	Miguel Balbona			M.R.B.
032 11	R. Batalles S.A.	Buenos Aires	1944 →	YUKON
032 12	Propulsora San Luis	San Luis		PISL
032 13	Luis Pasquinelli e Hijos	Buenos Aires	1947 →	LPH
032 14	Kioshi Compresion	Buenos Aires	2005 →	
032 15	Mozart	Buenos Aires	1995 →	
032 16	INPROCIL S.A.	Entre Rios	2007	
032 17	CIDEGAS S.A.	Buenos Aires	2004 →	

Country: AUSTRALIA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
036 01	Manchester Tank & Equipment CO	Echuca		MANCHESTER
036 02	CIG Gas Cylinders		→ 1996	CIG
036 03	Luxfer Gas Cylinders	Sydney	1997 → 2004	**LUXFER**

© ISO 2015 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Country: AUSTRIA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
040 01	Jos. Heiser Changed to Worthington Heiser Changed to Worthington Cylinders GmbH	Kienberg	→ 1927	
			1927 → 1961	
			1961 → 1976	
			1976 → 2001	HEISER
			2002 →	10
040 02	iSi GmbH	Wien	1994 → (3 alternative symbols used)	ISI
				iSi
				iSi

© ISO 2015 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Country: BELGIUM				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of Manufacture**	**Manufacturer's mark**
056 01	S.A. Ateliers Belges Réunis (formerly S.A. des Ateliers de la Dyle)	La Dyle-Louvain	→ 1962	AD
056 02	Établissements Champy	Antwerp	→ 1940	R → B
056 03	S.A. Comet	Mechelen	→ 1980	S.A.COMET.Malines
			→ 1980	C.M
056 04	S.A. Standard Van Leer (formerly S.A. Usines Standard)	Lierre		U S
056 05	S.A. Des Usines A Tubes de la Meuse	Flémalle-Haute (Liège)		T M
				T M U

Country: BRAZIL				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
076 01	Worthington Cylinders	Itu	2002 → 2003	08
076 02	Worthington Tank	Itu	2002 → 2003	09
076 03	MAT A/A	São Paulo		M

© ISO 2015 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD ISO/TR 17329:2015

Country: CANADA				
Code	**Manufacturer name**	**Location of manufacturing plant/facility**	**Year(s) of manufacture**	**Manufacturer's mark**
124 01	Canadian Cylinder Company, Ltd	Brantford, Ontario		C
124 02	Engineering Products of Canada Ltd	Boucherville, Québec		EP
				E.P.C.L
124 03	Forges HPC Ltee	Cap-de-la-Madeleine Québec		FHPC
124 04	Hugh Canning Industries, Inc.	Toronto, Ontario		H.C.I.
124 05	Aircom Industries ('76) Ltd	Edmonton, Alberta		M4803
124 06	Bruin Engineered Parts, Inc.	Midland, Ontario		BRUIN
				M8802
124 07	Gas Cylinder Technologies	Tecumseh, Ontario		M9001
124 08	Kadet Engineering, Inc.	Mississauga, Ontario		KENG
124 09	Metal-Flo Corporation Canada Limited	Guelph, Ontario		MFCCL
124 10	Wolfedale Engineering, Ltd	Mississauga, Ontario	→ 2007	WENG or M8903
124 11	Steel Cylinder Manufacturing changed to Worthington Cylinders	Tilbury, Ontario	→ 1996	SCM or M8004
			1996 → 2002	M8004
			2002 →	M8004 or 07 W
124 12	Dynetek Industries Ltd. changed to Luxfer Canada Limited	Calgary, Alberta	→ March 1, 2007	M5550
			March 1, 2007 →	M0501

© ISO 2015 – All rights reserved

AVA Documents Document Sharing Hub
Full document details: PD ISO/TR 17329:2015