



NSAI
Standards

Irish Standard
I.S. 3213:2020

Code of Practice for the storage of LPG cylinders and cartridges

I.S. 3213:2020

*Relationship with other documents and/or
Incorporating amendments/corrigenda issued since publication:*

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The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

DECLARATION
OF
SPECIFICATION
ENTITLED
CODE OF PRACTICE FOR THE STORAGE OF LPG CYLINDERS AND CARTRIDGES
AS
THE IRISH STANDARD SPECIFICATION FOR
CODE OF PRACTICE FOR THE STORAGE OF LPG CYLINDERS AND CARTRIDGES

NSAI in exercise of the power conferred by section 16 (3) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Business, Enterprise and Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Code of practice for the storage of LPG cylinders and cartridges:2020) Declaration, 2020.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Code of practice for the storage of LPG cylinders and cartridges:2020.
(2) The said Standard Specification may be cited as Irish Standard 3213:2020 or as I.S. 3213:2020.
3. (1) The Standard Specification (Code of practice for the storage of LPG cylinders and cartridges) Declaration 1987 and Amendment 1:1990 and Amendment 2:1993 is hereby revoked.
(2) Reference in any other standard specification to the Instruments hereby revoked and to Irish Standard 3213:1987 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 3213:2020.

Contents

	Page
DECLARATION.....	1
Foreword.....	4
Schedule.....	6
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	7
4 Properties and hazards of LPG in containers.....	8
5 Storage.....	9
5.1 General.....	9
5.2 Location.....	10
5.2.1 Cylinders.....	10
5.2.2 Cartridges.....	10
5.3 Marking and notices.....	10
5.4 Safety precautions.....	10
5.5 Inspection.....	11
6 Outdoor storage.....	11
6.1 General.....	11
6.2 Protection and separation distances.....	12
6.3 Location and layout of LPG storage areas.....	15
6.3.1 General.....	15
6.3.2 Adjacent hazards.....	17
6.3.3 Boundary fencing.....	17
6.3.4 Steel cages.....	18
6.3.5 Temporary storage.....	18
6.3.6 Fire walls.....	18
6.3.7 Weather protection.....	19
6.4 Storage of 400 kg or less against a wall or between two or three walls.....	19
7 Cylinder stacking - Size and height of stacks and gangways between stacks.....	22
8 Nominally empty LPG cylinder storage at filling plant and distribution centres.....	23
8.1 General.....	23
8.2 Operational requirements.....	23
9 Indoor storage.....	24
9.1 General.....	24
9.2 Container storage in specially designed buildings.....	24
9.3 Requirements for a specially designed storage area within a building.....	26
10 Display of LPG containers in retail premises.....	28
10.1 General.....	28
10.2 Cylinders.....	29
10.3 Cartridges.....	29
11 Fire protection.....	29

11.1	First aid firefighting equipment.....	29
11.2	Water supplies and other firefighting equipment.....	30
12	Emergency procedures.....	30
12.1	General	30
12.2	Action in the event of a leaking container	31
12.3	Action in the event of a fire	31
12.4	Emergency procedures plan.....	32
13	Training of personnel.....	32
Annex A (informative)	Container construction, marking and fittings.....	33
A.1	General	33
A.2	Gas Cartridges	33
A.3	Cylinders	33
A.4	Cylinder valves and fittings.....	33
A.5	Protection of valves	33
A.6	Periodic inspection, testing and maintenance.....	33
A.7	Cylinder marking.....	33
Annex B (informative)	ATEX considerations.....	34
B.1	General	34
B.2	Zoning Assessment.....	34
	Bibliography	36

I.S. 3213:2020

Foreword

The committee responsible for this standard is the Gas Technical Standards Committee, Subcommittee SC 07, (TC8), *LPG storage, LPG cylinder filling and vehicle refuelling facilities*.

This standard represents a standard of good practice but compliance with it does not confer immunity from relevant legal requirements, regulations and local bye-laws.

Nothing in this document prevents technical development.

The original standard, I.S. 3213:1987 was largely based on Guidance Note CS4 which is British Crown copyright and was reprinted with the permission of the Controller of Her Britannic Majesty's Stationery Office.

This Standard may involve the use of substances and procedures that may be injurious to health and/or the environment if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations at any stage.

This Standard is generally based on Code of Practice 7, which is UKLPG copyright and is hereby acknowledged.

Attention is drawn to the legal requirements (as amended) that exist for storage of Liquefied Petroleum Gas (LPG) including the following:

- Safety, Health and Welfare at Work Act 2005;
- Dangerous Substances (Retail and Private Petroleum Stores) Regulations 1979 to 2016;
- Fire Services Acts 1981 and 2003;
- Building Control Act 1990;
- Chemicals Act (Control of Major Accident Hazards involving Dangerous Substances) Regulations;
- Environmental Protection Agency Regulations;
- European Communities (Carriage of Dangerous Goods by Road and Use of Transportable Pressure Equipment) Regulations 2011 to 2017;
- S.I. No. 233 of 2017 European Union (Pressure Equipment) Regulations 2017.

This Standard supersedes I.S. 3213:1987 & A1:1990 & A2:1993.

In line with international Standards practice the following representation of numbers and numerical values apply.

- The decimal point is shown as a comma (,) throughout this Irish Standard.
- Each group of three digits reading to the left or to the right of a decimal sign are separated by a space from preceding digits or following digits respectively.

Introduction

This Irish Standard is intended both for people storing and handling LPG containers and those enforcing safety requirements. The requirements of the Standard are intended to minimise the risk of fire or explosion from LPG escaping from a leaking container and from the consequences of a fire, either at or near a cylinder store.

These requirements are made to prevent risk of injury to people at work, and persons and property generally. It is not intended to preclude the use of alternative designs, materials or methods where these provide equivalent standards of safety.

The Standard covers general information on arrangements for both outdoor and indoor storage and requirements for safe operating procedures at the premises where LPG is kept (see contents list). Further advice is obtainable from the local office of the appropriate enforcing authority.

The contents of this document provide general requirements for the safe storage of LPG Cylinders and Cartridges. However, in specific circumstances the Fire Authorities may find it necessary to impose additional safeguards.

I.S. 3213:2020

Schedule

Code of practice for the storage of LPG cylinders and cartridges

1 Scope

This Irish Standard applies to the storage of LPG in containers (cylinders/cartridges), not in use, where the total quantity stored exceeds 15 kg. It also applies to containers on loaded vehicles parked other than on a public highway.

NOTE 1 A container "not in use" is a container not connected to an installation or appliance.

This Standard also specifies requirements on the valves to be fitted into containers and guidance on the actions to be taken in the event of an incident.

This Standard excludes the following:

- a) the design, construction or maintenance of containers;
- b) LPG containers being transported by road, covered under the carriage of dangerous good by road regulations (ADR);
- c) cylinders fitted to a vehicle to provide fuel for any purpose on the vehicle;
- d) the storage of aerosol products in which LPG is used as a propellant;
- e) the use of LPG from cylinders (i.e. connected) in domestic, commercial or industrial situations, except for display purposes as defined in clause 10;
- f) the storage or use LPG during the course of production; and
- g) the filling of containers with LPG.

NOTE 2 For cylinders in use refer to I.S. 813, I.S. 820 and I.S. EN 1949.

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.

I.S. EN ISO 15995, *Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated*

I.S. EN ISO 14245, *Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing*

I.S. EN 13953, *LPG equipment and accessories - Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG)*

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