

Australian/New Zealand Standard™

The storage and handling of LP Gas



AS/NZS 1596:2008

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-015, Storage and Handling—Liquefied Petroleum Gases. It was approved on behalf of the Council of Standards Australia on 7 May 2008 and on behalf of the Council of Standards New Zealand on 19 May 2008. This Standard was published on 30 June 2008.

The following are represented on Committee ME-015:

Australasian Fire Authorities Council
Australian Liquefied Petroleum Gas Association
Department for Consumer and Employment Protection, WA
Department of Infrastructure, Energy and Resources, Tas.
Department of Natural Resources, Mines & Water, Qld
Department of the Premier and Cabinet, SA
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Australian/New Zealand Standard™

The storage and handling of LP Gas

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-015, Storage and Handling—Liquefied Petroleum Gases, to supersede AS/NZS 1596:2002, *The storage and handling of LP Gas*.

This edition is the result of a comprehensive review of the 2002 edition, in order to address new technologies and storage methods, update procedures in light of industry best practice, and correct and update references.

All general requirements, such as the use of firewalls and vapour barriers to achieve separation distances, have been consolidated in a new Section 3.

A major change in this new edition has been in the revision of Section 2, Minor storage and usage, to make the quantities more realistic and address the concerns of regulatory authorities, fire services, and the community at large, particularly in relation to the use of cylinders in public and protected places. Other substantial changes have been made in expansion of the sections dealing with cylinder storage and use, and cylinder systems and operations.

Separation rules for underground tanks have been made more consistent, reflecting their greater inherent safety than that of above-ground tanks.

This Standard has been revised in terms of safety and technical matters. The regulatory authorities in each state and territory determine how and when Standards are to be applied. The method of application may be full, part, with or without modifications or not at all. This application is not directed by the Standard. The relevant regulatory authority should be consulted regarding the application of this Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

Australian and New Zealand references are separated by a slash (/) or parentheses. Australian references apply in Australia, and New Zealand references apply in New Zealand. Joint Standards apply in both Australia and New Zealand.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE AND OBJECTIVE	6
1.2 APPLICATION	6
1.3 REFERENCED DOCUMENTS	9
1.4 DEFINITIONS	9
SECTION 2 MINOR STORAGE AND USAGE	
2.1 INTRODUCTION	16
2.2 APPLICATION OF SECTION	16
2.3 MINOR STORAGE AND USAGE OF LP GAS	16
2.4 GROUPS OF TEMPORARY STRUCTURES IN WHICH LP GAS IS USED	17
SECTION 3 GENERAL REQUIREMENTS	
3.1 SCOPE OF SECTION	22
3.2 RESTRICTIONS ON IGNITION SOURCES	22
3.3 ELECTRICAL EQUIPMENT	22
3.4 CONTROL OF ACCESS	22
3.5 SEPARATION DISTANCES	22
3.6 USE OF FIREWALLS AND VAPOUR BARRIERS	23
3.7 CONSTRUCTION OF FIREWALLS, VAPOUR BARRIERS AND THERMAL SCREENS	23
3.8 PIPES, VALVES AND FITTINGS	24
SECTION 4 CYLINDERS AND CYLINDER SYSTEMS	
4.1 SCOPE AND APPLICATION OF SECTION	25
4.2 CYLINDERS	25
4.3 REGULATORS AND PIPING FOR CYLINDER SYSTEMS	26
4.4 CYLINDERS IN USE	27
4.5 CYLINDER STORAGE	34
4.6 EXCHANGE FACILITIES FOR PORTABLE CYLINDERS	37
4.7 STORAGE OF LP GAS CYLINDERS ON TROLLEYS	37
4.8 CYLINDER LOADING AND UNLOADING AREAS	38
SECTION 5 COMPONENTS FOR TANK SYSTEMS	
5.1 SCOPE OF SECTION	40
5.2 TANK DESIGN AND CONSTRUCTION	40
5.3 CONTROL OF LP GAS OUTFLOW	41
5.4 SAFETY VALVES	43
5.5 VALVES AND ACCESSORIES	44
5.6 PIPING	47
5.7 VAPORIZERS	49
SECTION 6 TANK SYSTEM INSTALLATION	
6.1 SCOPE OF SECTION	51
6.2 TANK SPACING AND SEPARATION DISTANCES	51
6.3 TANK SITE CONDITIONS	54
6.4 TANK FOUNDATIONS AND SUPPORTS	54
6.5 TANK INSTALLATION AND DESIGN	56
6.6 CONNECTIONS FOR TANK FILLING AND TANKER LOADING	57

6.7	EMERGENCY SHUT-DOWN SYSTEM.....	60
6.8	PIPING	61
6.9	VAPORIZER INSTALLATION.....	64
6.10	REGULATORS.....	64
6.11	PUMPS AND COMPRESSORS.....	65
6.12	SECURITY AND DAMAGE AVOIDANCE	65
6.13	LIGHTING AND BONDING PROTECTION.....	66
6.14	LADDERS, STEPS AND PLATFORMS	66
6.15	LEAK DETECTION	67
6.16	MARKINGS AND NOTICES	67
6.17	LIGHTING	67
6.18	UNODOURIZED GAS INSTALLATIONS	67
SECTION 7 UNDERGROUND TANK INSTALLATIONS		
7.1	SCOPE AND APPLICATION OF SECTION	68
7.2	CORROSION CONTROL.....	68
7.3	LOCATION AND INSTALLATION	68
7.4	ACCESS, PROTECTION, FITTINGS AND ACCESSORIES	71
7.5	DISCHARGE FROM SAFETY RELIEF DEVICES	72
SECTION 8 CYLINDER FILLING INSTALLATIONS—AUSTRALIA		
8.1	SCOPE OF SECTION	74
8.2	GENERAL REQUIREMENTS	74
8.3	CYLINDER FILLING AREA	74
8.4	DECANTING	75
SECTION 9 CYLINDER FILLING INSTALLATIONS—NEW ZEALAND		
9.1	SCOPE OF SECTION	78
9.2	GENERAL REQUIREMENTS	78
9.3	CYLINDER FILLING AREA	78
9.4	DECANTING	79
SECTION 10 AUTOMOTIVE FILLING INSTALLATIONS		
10.1	INTRODUCTION	81
10.2	COMMON REQUIREMENTS.....	81
10.3	DISPENSING SYSTEMS	83
10.4	NOTICES, SIGNS AND INSTRUCTIONS.....	85
10.5	SPECIFIC REQUIREMENTS FOR SERVICE STATIONS.....	85
10.6	SITE SUITABILITY FOR SERVICE STATIONS.....	90
10.7	LAND USE CONTROLS FOR SERVICE STATIONS.....	90
10.8	SAFETY MANAGEMENT SYSTEM FOR SERVICE STATIONS	93
SECTION 11 OPERATIONS		
11.1	SCOPE OF SECTION	95
11.2	GENERAL PRECAUTIONS.....	95
11.3	ESTABLISHMENT OF PROCEDURES	96
11.4	COMPLIANCE, SUPERVISION AND RECORDS.....	99
11.5	CONSTRUCTION, INSPECTION, TESTING AND MAINTENANCE	100
11.6	SPECIFIC OPERATING PROCEDURES.....	103
11.7	PREPARATIONS FOR THE TRANSPORT OR REMOVAL OF STORAGE TANKS.....	103
11.8	TANKER OPERATIONS.....	103
11.9	GENERAL PRECAUTIONS FOR TANKER TRANSFER.....	105

	<i>Page</i>
11.10 SUPERVISION OF DELIVERY	105
11.11 PROCEDURES FOR FILLING AND EMPTYING TANKS	106
11.12 CYLINDER FILLING	107
11.13 FILLING FROM TANKERS TO CYLINDERS OTHER THAN IN-SITU	108
 SECTION 12 EMERGENCY MANAGEMENT	
12.1 SCOPE OF SECTION	110
12.2 PLANNING FOR EMERGENCIES	110
12.3 MANIFEST	111
12.4 PLACARDING.....	111
 SECTION 13 FIRE SAFETY	
13.1 INTRODUCTION	112
13.2 APPLICATION OF SECTION.....	112
13.3 GENERAL REQUIREMENTS FOR FIRE PROTECTION EQUIPMENT	112
13.4 CYLINDERS.....	113
13.5 TANK INSTALLATIONS	115
13.6 AUTOMOTIVE FILLING INSTALLATIONS	116
13.7 DETAILED REQUIREMENTS	116
 APPENDICES	
A LIST OF REFERENCED DOCUMENTS	119
B TANK OR CYLINDER FILLING LEVEL	124
C APPROXIMATE CAPACITIES OF CYLINDERS FOR LP GAS	131
D INDUSTRIAL MOBILE SPACE HEATERS.....	132
E MARKINGS, SIGNS AND NOTICES	133
F HAZARDOUS AREAS.....	140
G EXCHANGE FACILITIES FOR PORTABLE CYLINDERS	143
H DISCHARGE CAPACITY OF SAFETY VALVES	146
I LEAKAGE TESTING OF PIPEWORK	148
J DECANTING PROCEDURE.....	150
K EMERGENCY PLANNING AND MANAGEMENT	152
L MOTOR VEHICLE REFUELLING	154
M FIRE EXPOSURE PROTECTION	155
N FIRE SAFETY	159
O TRANSPORT OF PORTABLE LP GAS CYLINDERS	163

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND OBJECTIVE

This Standard specifies requirements for the location, design, construction, commissioning and operation of installations for the storage and handling of LP Gas, and includes the management of emergencies.

The objective of this Standard is to provide designers, planners, operators and regulators with technical and procedural requirements for installations for the safe storage and handling of LP Gas.

1.2 APPLICATION**1.2.1 Application of Standard**

This Standard shall be read as defining the minimum requirements of acceptability.

This Standard applies to installations commenced after its publication date. Unless specifically indicated in this Standard, it shall not apply to existing installations.

NOTE: 'Commenced', for the purpose of this Clause, means the point at which site or equipment construction has begun.

The relevant authority having jurisdiction may determine the extent of application of this Standard.

This Standard does not apply to the following situations:

- (a) Refrigerated storage of LP Gas.
- (b) Underground storage of LP Gas in mined caverns or geological formations.
- (c) Plant or equipment in which LP Gas is processed or produced, or vessels that form an integral part of that processing equipment (but does include post manufacturing storage).
- (d) Industrial gas-consuming equipment (see AS 3814/NZS 5261).
- (e) Automotive installations, as addressed in AS/NZS 1425 and AS 4983.
- (f) Refrigerating systems, as addressed in the AS/NZS 1677 series.
- (g) Land transport equipment and operations as covered—
 - (i) in Australia, by the ADG Code (but excluding references to this Standard that appear in the ADG Code) and AS 2809 Parts 1 and 3; or
 - (ii) in New Zealand, by the *NZ LPG Tankwagon Code* and the requirements of the relevant authority.
- (h) Air transport equipment and operations.
- (i) LP Gas systems for caravans, catering vehicles, marine craft or aircraft (see AS 5601/NZS 5428), or as covered in the relevant parts of the AS 2809 series.



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