

AS/NZS 5601.2:2020

(Incorporating Amendments up to and including No. 2)



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Gas installations

Part 2: LP Gas installations in caravans and boats for non-propulsive purposes



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AS/NZS 5601.2:2020

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Australian/New Zealand Standard™

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Part 2: LP Gas installations in caravans and boats for non-propulsive purposes

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Preface

This Standard was prepared by the Standards Australia/Standards New Zealand Committee AG-006, Gas Installations, to supersede AS/NZS 5601.2:2013.

A2 This Standard incorporates Amendment No. 1 (February 2021) and Amendment No. 2 (September 2024). The start and end of changes introduced by the Amendments are indicated in the text by tags including the amendment numbers 1 and 2. **A2**

If a Standard is referenced in legislation, the legislative instrument or regulation specifies when the Standard or Amendment comes into effect. Regulatory Authorities have indicated 12 months, following the date of publication, as an appropriate transition period for [Clauses 1.3.59, 2.3.1, 5.2.8, 5.2.9](#), and [Table 5.1.4.3](#), with respect to the cylinder quick-connect device.

General gas installation requirements for applications other than caravans and boats can be found in AS/NZS 5601.1, *Gas installations, Part 1: General installations*.

The objective of this Standard is to provide essential requirements and deemed-to-conform solutions to promote uniform standards of gas installation, and to provide a stand-alone Standard for LP Gas installations in caravans and boats for non-propulsive purposes.

This Standard is based on the general installation requirements of AS/NZS 5601.1.

This Standard is not to be regarded as a design specification or an instruction manual for untrained persons.

This Standard has no legal standing in its own right, but may acquire legal standing in either of the following circumstances:

- (a) Where adopted by a Government or other authority having jurisdiction over relevant installations.
- (b) Where adopted as part of an installation specification.

Regulatory bodies (Technical Regulators) may adopt this Standard.

Matters of an advisory or explanatory nature are indicated in the following manners:

- (i) The word "NOTE" followed by a statement(s).
- (ii) By inclusion in an informative appendix.
- (iii) By inclusion in examples or caution statements.

Words that are indicated by italics in the body of the text are terms defined in [Clause 1.3](#). This indication of italics does not apply to the text in the Preface, headings or figures. [Section 1](#) contains the definitions of such terms as they apply to this Standard.

This Standard includes a statement that its requirements do not apply retrospectively.

[Section 2](#) of this Standard details the various aspects of a gas installation that contribute to its safety, stating performance criteria for compliance with legislative requirements for safety of gas installations. [Sections 3 to 9](#) provide more detailed information on conformance to the performance criteria.

The means of conformance in [Sections 3 to 9](#) are not the only means of conformance to the performance criteria in [Section 2](#).

Major changes from AS/NZS 5601.2:2013 include the following:

- (A) The terms "pipe", "piping", "tube" and "tubing" are used throughout this Standard. They are to be considered to have the same meaning.

- (B) Where the term “installation” is used, it is deemed to include the appliances, flues, ventilation, piping, components and other ancillary items.
- (C) Introduction of definitions for “controlled area”, “domestic caravan”, “encapsulated”, “ignition source”, “non-sparking by nature”, “quick-connect device (cylinder)” and “toughened safety glass”.
- (D) Prohibition of *in situ* fill cylinders on caravans, see [Clause 2.4.5](#) and [Clause 3.1.5.1](#).
- (E) Introduction of requirement for orientation of cylinders on caravan drawbars to allow for unobstructed relief of cylinder pressure, see [Clause 3.1.4](#).
- (F) Figures showing “controlled area” and clearances on caravan drawbars for ignition sources, see [Clause 3.1.8](#).
- (G) A figure showing venting through a drain outlet from a cylinder compartment on a caravan, see [Figure 3.3.1\(B\)](#).
- (H) Introduction of the requirement for shut-off solenoid valves to be “encapsulated” in LP Gas cylinder compartments, see [Clauses 3.3.1\(g\)](#) and [3.3.3\(i\)](#).
- (I) Clarification of access to internal cylinder compartments in caravans, see [Clause 3.3.4.1](#).
- (J) Allowance of hard drawn copper for use on houseboats on inland waterways on the low pressure side of the gas installation, see [Clause 5.1.4.2](#).
- (K) Limitations of hose assembly pigtails to only be class B, see [Clause 5.1.4.3](#).
- (L) Prohibition on the use of press-fit connections, see [Clause 5.1.4.4\(g\)](#).
- (M) Introduction of requirements for “encapsulated” electrical devices, see [Clause 5.3](#).
- (N) Introduction of increased requirements for new installations of distance between cookers and rangehoods, see [Clause 6.11.1](#).
- (O) Introduction of requirement of carbon monoxide detectors in boats to conform with referenced internationally recognized Standards, see [Clause 7.5](#).
- (P) Additional requirements for thermal protection of combustible surfaces, see [Appendix B](#).
- (Q) New pipe sizing tables allowing for more flow capacity, see [Appendix C](#).
- (R) Additional requirements for gas leakage tests for appliances with interlocks, see [Clause E.3.2\(b\)](#).
- (S) Introduction of new appendix on purging, see [Appendix L](#).
- (T) The inclusion of references to a cylinder quick-connect device.

The terms “normative” and “informative” have been used in Standards 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.

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope, exclusions and application.....	1
1.1.1 Scope.....	1
1.1.2 Exclusions.....	1
1.1.3 Application.....	2
1.2 Normative references.....	3
1.3 Terms and definitions.....	4
1.4 Work health and safety.....	13
1.5 System of units.....	3
Section 2 Essential safety and performance-based design requirements	14
2.1 General.....	14
2.2 General work.....	14
2.2.1 Verification of gas supply.....	14
2.2.2 Work on a gas installation.....	14
2.2.3 Sealing of open ends.....	14
2.2.4 Testing of gas installations for leakage.....	15
2.2.5 Acceptable substances for testing.....	15
2.2.6 Safe practices and WHS.....	15
2.2.7 Decommissioning.....	15
2.3 LP Gas cylinders.....	15
2.3.1 Cylinders and cylinder valves.....	15
2.3.2 Corrosion.....	15
2.3.3 Cylinder orientation.....	15
2.3.4 Multi-cylinder installations.....	15
2.4 Location of LP Gas cylinders.....	15
2.4.1 Restriction on location of cylinders.....	15
2.4.2 Required clearances around cylinder.....	15
2.4.3 Mounting and stowage.....	16
2.4.4 Cylinder restraint.....	16
2.4.5 Use of [<i>in situ</i> fill] cylinders.....	16
2.5 Cylinder compartments and LP Gas lockers.....	16
2.5.1 Design and construction.....	16
2.5.2 Identification of cylinder compartment or LP Gas locker.....	16
2.6 Materials and fittings.....	16
2.6.1 Material and components.....	16
2.6.2 Proprietary systems.....	16
2.6.3 Jointing.....	17
2.7 Piping.....	17
2.7.1 General.....	17
2.7.2 Design.....	17
2.7.3 Location.....	17
2.7.4 Support of piping.....	17
2.7.5 Gas pressure regulation.....	17
2.7.6 Over-pressure protection.....	18
2.7.7 Pressure test points.....	18
2.7.8 Gas venting.....	18
2.8 Flues.....	18
2.8.1 General.....	18
2.8.2 Design.....	18
2.8.3 Materials.....	18
2.8.4 Installation.....	18
2.8.5 Location.....	19
2.8.6 Flue terminals.....	19

2.9	Installing gas appliances	19
2.9.1	Pre-installation	19
2.9.2	General installation requirements	19
2.9.3	Appliance location	20
2.9.4	Ventilation of the <i>appliance</i> space and air supply to <i>appliances</i>	20
2.9.5	Appliance connection and isolation	20
2.9.6	Commissioning	20
2.9.7	Fire resistant material	21
2.9.8	Flue materials	21
2.9.9	Jointing compounds and materials	21
2.10	Hose assemblies	21
2.10.1	General	21
2.10.2	Use of a hose assembly	21
2.10.3	Hose assembly — Operating conditions	21
2.10.4	Hose assembly connecting an appliance	21
2.11	Shut-off valves	21
2.12	Quick-connect devices	22
2.12.1	General	22
2.12.2	Restriction on installation	22
2.13	Essential safety requirements	22
2.13.1	Prohibition of earthing through piping	22
2.13.2	Restriction on use of thread sealant	22
2.13.3	Requirements for <i>appliances</i>	22
2.13.4	Materials and components	23
Section 3	Means of conformance — Cylinders	25
3.1	General	25
3.1.1	Cylinders and cylinder valves	25
3.1.2	Restriction on cylinder capacity	25
3.1.3	Corrosion	25
3.1.4	Cylinder orientation	25
3.1.5	Use of [<i>in situ</i> fill] cylinders	26
3.1.6	Multi-cylinder installations	26
3.1.7	Restriction on location of cylinders	26
3.1.8	Required clearances around a cylinder	27
3.1.9	Mounting and stowage	32
3.1.10	Stowage of spare cylinders	32
3.1.11	Heat shield	33
3.2	Cylinder attachment	33
3.2.1	Restraints	33
3.2.2	Structures	33
3.3	Cylinder compartments and LP Gas lockers	33
3.3.1	Caravans	33
3.3.2	Cylinders located in a combined storage compartment/locker for caravans	35
3.3.3	Boats	36
3.3.4	Access to cylinder compartments	37
3.3.5	Identification of cylinder compartment or LP Gas locker	38
Section 4	Means of conformance — Gas pressure regulators	40
4.1	Suitability of pressure regulators	40
4.2	Outlet pressure	40
4.3	Mounting and support of regulator	40
Section 5	Means of conformance — Piping and fittings	41
5.1	General	41
5.1.1	Location	41
5.1.2	Size	41
5.1.3	Material and components	41
5.1.4	Piping specification	41
5.1.5	Cylinder connections	44

5.1.6	Pressure rating of piping and components	44
5.1.7	Pressure test points	44
5.2	Installation of piping	44
5.2.1	General requirements	44
5.2.2	Piping in caravans	45
5.2.3	Piping in boats	45
5.2.4	Rigid piping	45
5.2.5	Hose assemblies	45
5.2.6	Prohibition of earthing through piping	46
5.2.7	Isolation valves	46
5.2.8	Quick-connect devices	46
5.2.9	Jointing compounds and materials	46
5.2.10	Miscellaneous components	47
5.2.11	Pipe supports and fixings	47
5.2.12	Sealing of open ends	47
5.3	Encapsulated electrical devices	48
Section 6	Means of conformance — Appliances	49
6.1	Requirements for appliances	49
6.1.1	Australian requirements	49
6.1.2	New Zealand requirements	49
6.1.3	Appliance conversion	49
6.1.4	Appliance location restrictions	49
6.2	Prohibited appliances	49
6.3	General installation requirements	50
6.3.1	General	50
6.3.2	Restriction for stowed appliances	50
6.3.3	Appliance support	50
6.3.4	Protection from physical damage	50
6.3.5	Accessibility	51
6.3.6	Hazards to caravans, boats or persons	51
6.3.7	Proximity of flammable goods or chemicals	51
6.4	Flame safeguard system	51
6.5	Manufacturer's instructions	51
6.6	Clearances	51
6.7	Distance from sources of fuel	51
6.8	Restriction on installation of an appliance on a petrol-fuelled boat	51
6.9	Electrical requirements	52
6.10	Space heaters	52
6.11	Cooking appliances	52
6.11.1	Clearances around gas cooking appliances	52
6.11.2	Protection of a combustible surface near a gas cooking appliance	54
6.11.3	Vapour seal	54
6.11.4	Warning label	54
6.11.5	Cooking appliances on boats	55
6.11.6	Under cooker connection	55
6.12	Refrigerators	55
6.12.1	Flues	55
6.12.2	Vents	55
6.12.3	Location	55
6.12.4	Ventilation	55
6.13	Instantaneous water heaters	56
6.14	Spa pool heaters on boats	56
6.14.1	Prohibited locations	56
6.14.2	Supporting base	56
6.14.3	Control systems	57
6.14.4	Requirement for pool heater where flow and return water pipes are of plastic	57
6.14.5	Non-return valve required	57

6.14.6	Restriction on fitting of a valve in water flow line	57
6.15	Gas barbecues and radiant gas heaters for outdoor use	57
Section 7	Means of conformance — Ventilation	59
7.1	General	59
7.2	Ventilation systems	59
7.3	Ventilation openings — Caravans and boats	59
7.3.1	Minimum free area	59
7.3.2	Special requirements for camper trailers and boats	60
7.3.3	Special requirements for RVs (motorized caravans)	60
7.4	Position of openings — Caravans only	60
7.4.1	Cross ventilation	60
7.4.2	Distance from ceiling	61
7.4.3	Distance from floor	61
7.5	Position of openings — Boats only	61
7.6	Gas detection system required — Boats only	61
7.7	Vent warning label for caravans and boats	61
Section 8	Means of conformance — Flueing	62
8.1	Flue construction and clearances	62
8.2	Protection from environmental effects	62
8.3	Disturbances	62
8.4	Location of flue terminal	62
8.4.1	General	62
8.4.2	Termination of a flue under a cover	62
8.5	Flue materials	62
8.6	Proprietary flueing systems	63
Section 9	General requirements and safe work practices	64
9.1	Gas supply	64
9.2	Gas demand	64
9.3	Safe work practices	64
9.3.1	General	64
9.3.2	Purging	64
9.4	Dealing with dangerous gas installations	65
9.5	Safety requirements in the vicinity of gas leaks or suspected gas leaks	65
9.6	Safe discharge of static electricity	65
9.7	Electrical safety bonding or bridging	66
9.8	Clearing a blockage in piping	66
9.9	Testing of piping	66
9.9.1	Testing a new gas installation	66
9.9.2	Testing consumer piping after alteration, repair or extension	66
9.9.3	Acceptable substances for testing	66
9.10	Commissioning	66
9.10.1	Commissioning of appliance	66
9.10.2	Other commissioning checks	67
9.10.3	Decommissioning	67
Section 10	Compliance plate, labels and markings	68
10.1	Gas compliance plate	68
10.2	Labels and markings adjacent to cylinders	69
10.3	Labels and markings near appliance	69
10.3.1	General	69
10.3.2	Additional marking for boats	70
Appendix A	(informative) Conversion factors	71
Appendix B	(normative) Thermal protection of combustible materials	72
Appendix C	(informative) Pipe sizing	75
Appendix D	(normative) Combustible gas detection systems for boats	83

Appendix E (normative) Testing gas installations	85
Appendix F (normative) Consumer instructions	88
Appendix G (informative) Method of locating gas pressure regulators	90
Appendix H (informative) Guidelines for gas appliance commissioning	91
Appendix I (informative) Symbols used in gas control system diagrams	93
Appendix J (informative) Gas installation checklist	95
Appendix K (informative) Diagrammatic representations of outdoor areas	98
Appendix L (informative) Purging	101
Bibliography	104
Amendment control sheet	105

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Australian/New Zealand Standard

Gas installations

Part 2: LP Gas installations in caravans and boats for non-propulsive purposes

Section 1 Scope and general

1.1 Scope, exclusions and application

1.1.1 Scope

This Standard specifies requirements and means of conformance for the design, installation, repair, alteration, modification, replacement and *commissioning* of *LP Gas installations* in *caravans* and *boats* for non-propulsive purposes.

The requirements cover —

- (a) *caravans*;
- (b) mobile homes, mobile holiday homes, campervans and motor homes;
- (c) transportable structures with fixed *gas installations*, other than transportable homes and classroom units;
- (d) trucks and trailers incorporating fixed *gas installations*;
- (e) *boats*;
- (f) houseboats;
- (g) floating restaurants, whether fixed or mobile; and
- (h) catering vehicles, whether self-propelled or towed.

NOTE 1 A mobile home includes what is often referred to as a “tiny house”, which is a relocatable home as distinct from a permanent structure that is transported from one fixed location to the next (see exclusions below).

NOTE 2 Where commercial catering equipment is to be installed, refer to AS/NZS 5601.1 for specific appliance installation requirements downstream of the appliance installation valve.

1.1.2 Exclusions

This Standard does not apply to —

- (a) installations covered by statutory requirements such as the New Zealand *Maritime Transport Act 1994* and the Australian Maritime Safety Authority, *National Standard for Commercial Vessels*;
- (b) the use of *LP Gas* as a fuel for automotive or propulsion purposes;
- (c) installations in transportable homes and classroom units;
- (d) installation of commercial catering equipment;
- (e) portable or mobile A_2 appliances A_2 (such as barbeques or patio heaters) that are connected to an *LP Gas cylinder*, other than where an *LP Gas cylinder(s)* is connected to *piping*; and
- (f) the service or repair of A_2 an appliance A_2 .