

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 1596:2014
The storage and handling of LP Gas

REVISED TEXT

The 2014 edition of AS/NZS 1596 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Clauses 1.2.1, 1.2.2, 2.3, 4.3.1, 4.4.5, 4.4.11, 4.5.4, 5.5.5, 6.10.2, 6.12, 6.12.4, 7.5.2, 8.3.1, 8.5.6, 10.5.15, 11.2.2 and 11.12.6, Figures 1.1(A), 1.1(B), 1.1(C) (new), 1.1(D) (new), 1.1(E) (new) and 4.3.1 (new), Appendices A, D, F and Q, and Appendix R (new).

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Approved for publication in New Zealand by the New Zealand Standards Approval Board on 2 August 2017.

AMDT
No. 1
AUG
2017

Preface

- 1 *Delete* third paragraph and *replace* with the following:
Appendix Q, 'Impact protection', for assessing the requirements for the protection of tanks and cylinders from impact, has been changed from informative to normative (in Australia only), with some modifications, by Amendment No. 1:2017.
- 2 *Add* a new sixth paragraph:
A new informative Appendix R, 'Odour management' has been introduced to provide guidance for the management of odour in LP Gas through the supply chain to reduce the risk of odour fade.

AMDT
No. 1
AUG
2017

Clause 1.2.1

- 1 After the second paragraph and Note, *add* the following new paragraph:
This Standard applies up to the outlet of the first regulator in the vapour supply system including any integral two stage regulator.
- 2 Item (f), *delete* 'AS/NZS 1677 series' and *replace* with 'AS/NZS 5149 series'.
- 3 Item (i), *delete* '(see AS/NZS 5601.1)' and *replace* with '(see AS/NZS 5601, Parts 1 and 2)'.

AMDT
No. 1
AUG
2017

Clause 1.2.2

Delete first paragraph and *replace* with the following:

Figures 1.1(A) to 1.1(E) illustrate the application of this Standard and its relationship with AS/NZS 5601.1 and other relevant Standards for gas storage containers connected in use. Legislation in some jurisdictions determines that the piping upstream of billing meters as per Figure 1.1(C) constitutes a distribution system and hence falls within the scope of AS/NZS 4645 series.

Figures 1.1(A) and 1.1(B)

Delete Figure 1.1(A) and Figure 1.1(B) and *replace* with the following five new Figures:

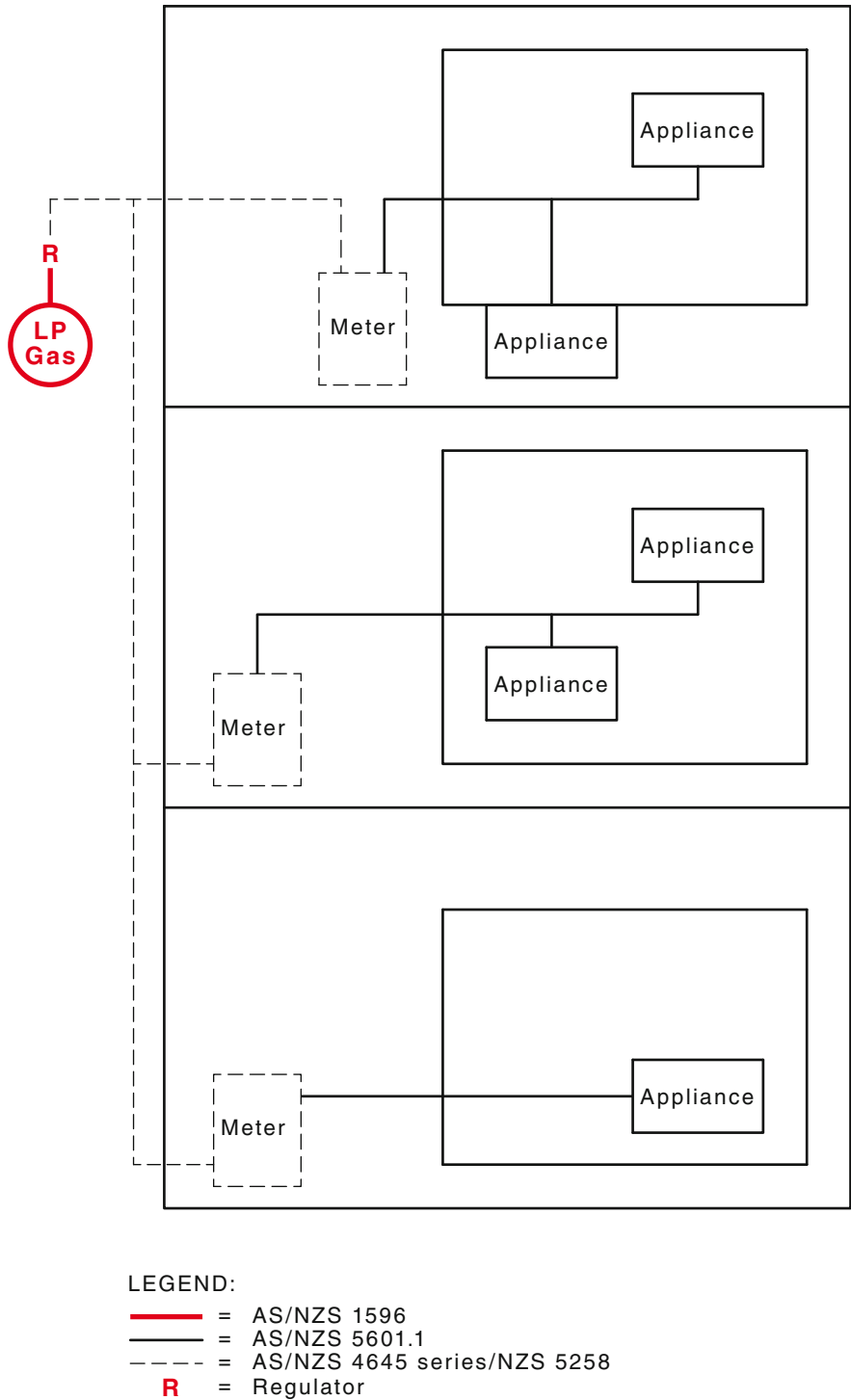
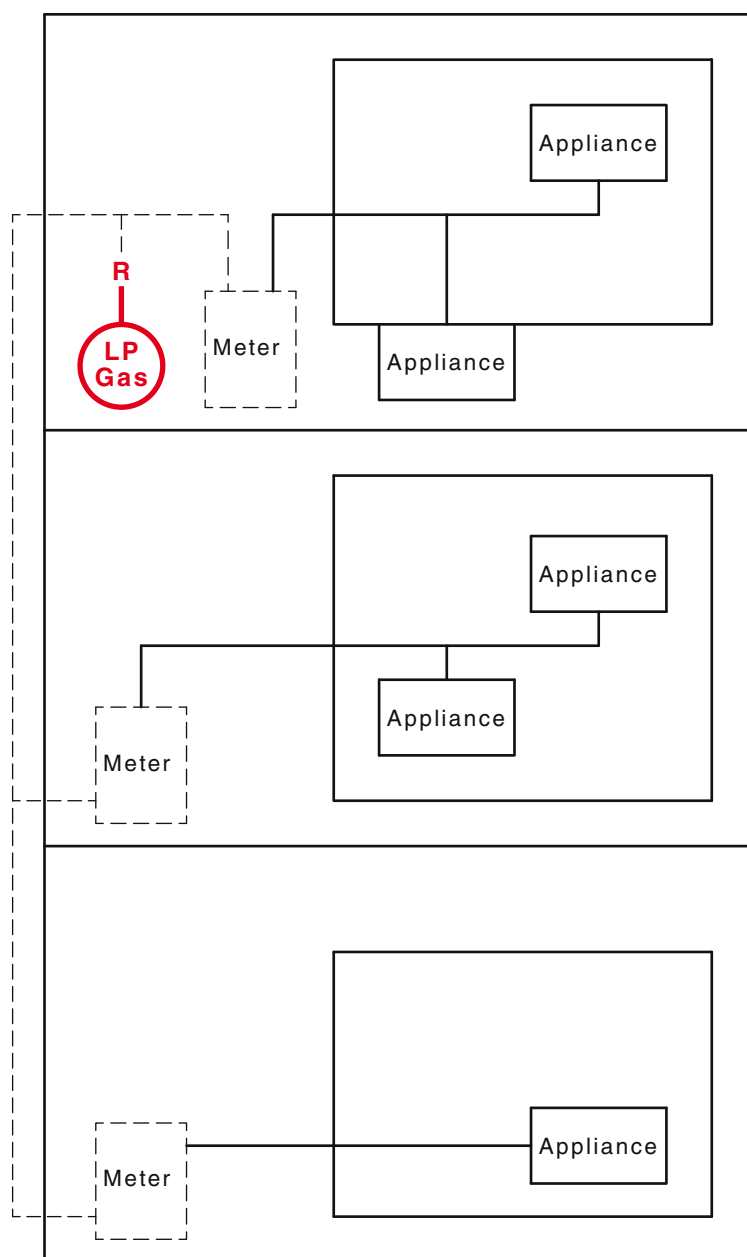


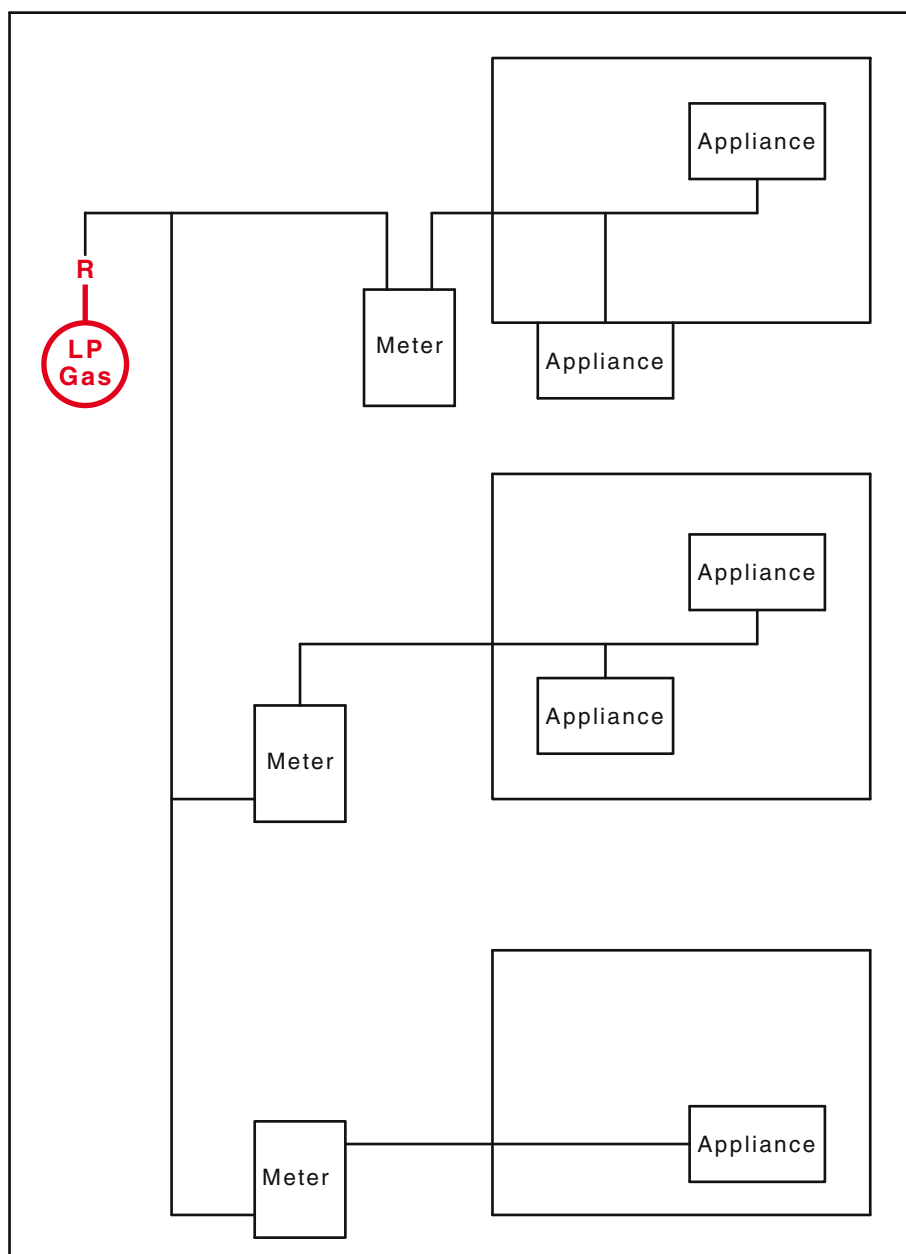
FIGURE 1.1(A) LP GAS CONTAINER SUPPLYING SEVERAL SITES BY RETICULATION FROM A SINGLE LP GAS SUPPLY



LEGEND:

- = AS/NZS 1596
- = AS/NZS 5601.1
- - - - = AS/NZS 4645 series/NZS 5258
- R = Regulator

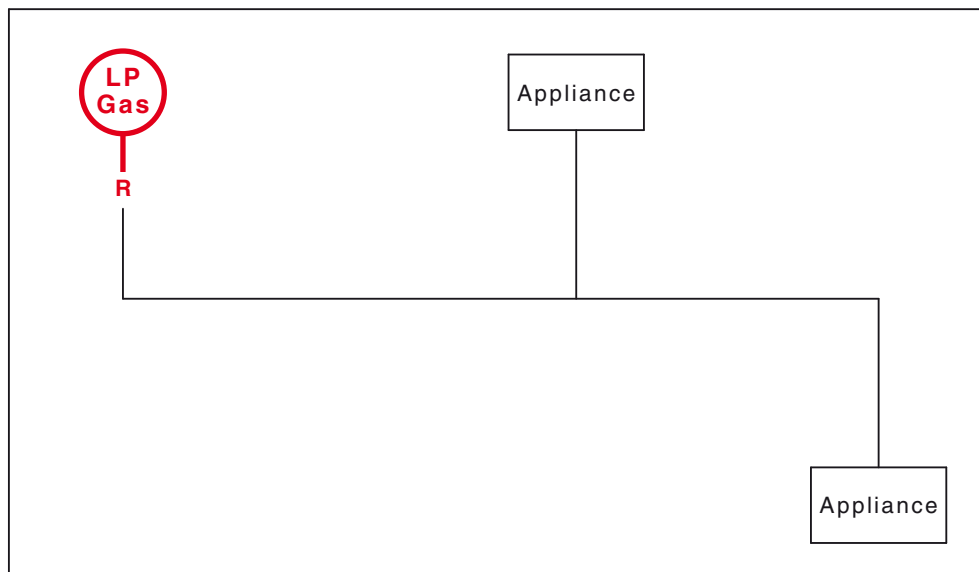
FIGURE 1.1(B) LP GAS CONTAINER SUPPLYING SEVERAL SITES BY RETICULATION FROM A SINGLE LP GAS SUPPLY ON ONE OF THE SITES



LEGEND:

- = AS/NZS 1596
- = AS/NZS 5601.1
- R = Regulator

FIGURE 1.1(C) LP GAS CONTAINER SUPPLYING SEVERAL TENNANTS ON A SINGLE SITE BY RETICULATION FROM A SINGLE LP GAS SUPPLY



LEGEND:

- = AS/NZS 1596
- = AS/NZS 5601.1
- R = Regulator

FIGURE 1.1(D) LP GAS CONTAINER SUPPLYING SEVERAL APPLIANCES
ON A SINGLE SITE

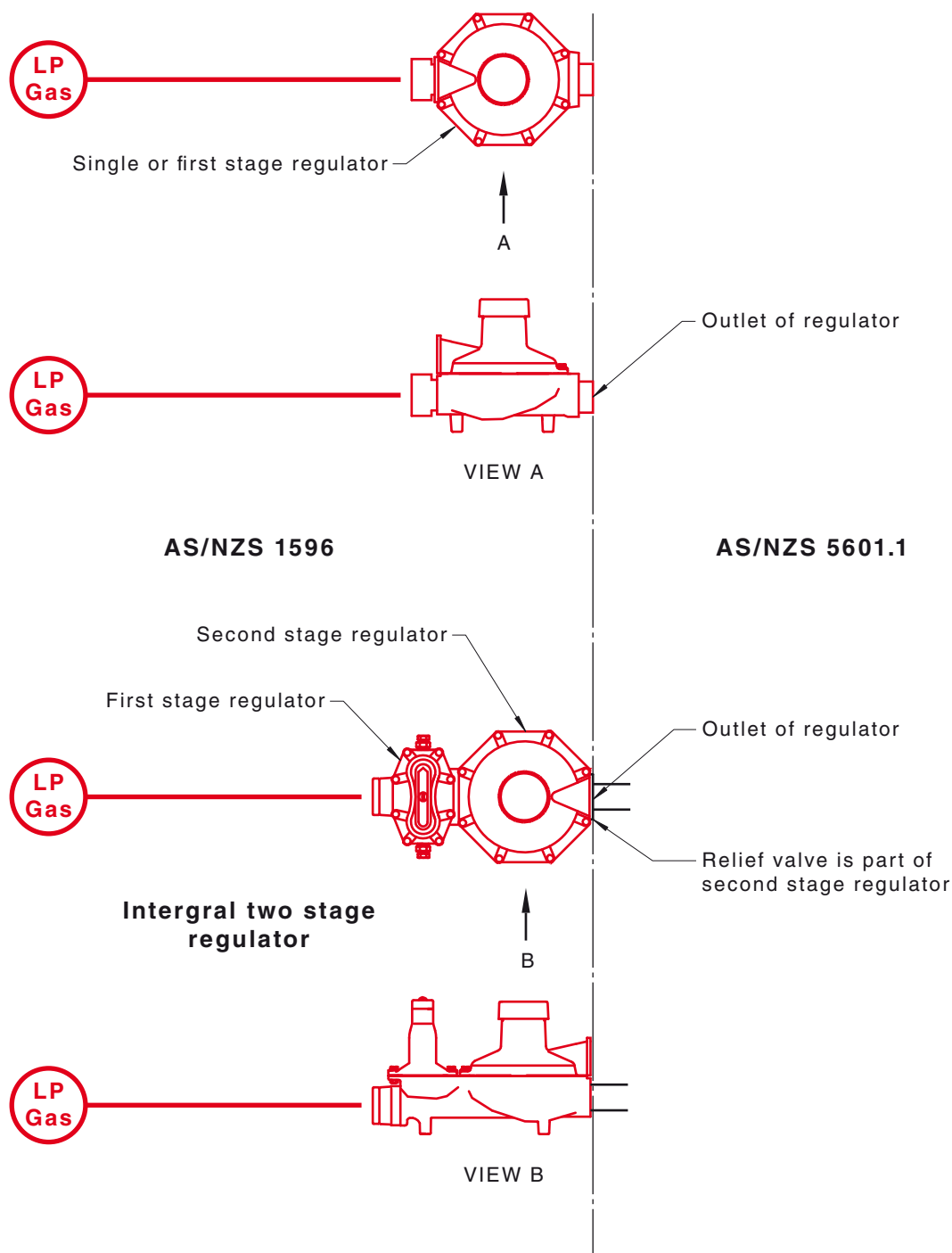


FIGURE 1.1(E) REGULATOR DETAIL

Clause 2.3

Delete Item (h) and *replace* with the following:

- (h) Cylinders shall be located so that they are not likely to be damaged or dislodged under normal circumstances of use. Any trolley or stand in which the cylinder is housed shall be constructed such that it is stable and fit for purpose.

AMDT
No. 1
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Clause 4.3.1

Delete existing text and *replace* with the following text and new Figure 4.3.1:

Regulators shall comply with the following requirements:

- (a) Regulators for cylinder-supplied systems shall comply with Clause 5.5.8.
- (b) The cylinder regulator shall be either of the following:
 - (i) Fixed rigidly to an adequate support that is independent of the cylinder and mounted with the diaphragm vertical and the vent pointing vertically downwards.
 - (ii) For cylinders exceeding 400 L and having lockable domes, connected directly to the valve outlet, or as close as the fittings will practically allow.

Gas pressure regulators shall be located to permit drainage of any liquid back into the cylinder.

- (c) Pipework connecting the regulator to the cylinder shall comply with Clauses 4.3.3 and 5.6.

The outdoor discharge from a vent terminal, gas-pressure-relief device or terminal of a vent line shall be—

- (i) arranged to minimize the risk of vapour collecting in drains, gutters, and downpipes;
- (ii) not less than 0.5 m in any direction from any opening into a building; and
- (iii) located such that there is no fixed source of ignition in the area 0.5 m above and 1 m laterally from the discharge and extending to ground level at a distance 1 m laterally (refer to Figure 4.3.1).

The vent terminal shall have provision to exclude rain and insects.

Vent discharge piping shall be treated as low-pressure vapour piping. The venting requirements of AS/NZS 5601.1 shall be met.

In New Zealand, regulators used indoors and manufactured to BS 3016, EN 12864, EN 13786 or EN 13785 are deemed to comply and further compliance with this Clause is not required.