

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 2
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 1.4.44, 1.4.67 (new), 2.1, 2.3, 4.1 and 4.3.3 and Appendices J, O and P.

Published on 1 October 2020.

Approved for publication in New Zealand by the New Zealand Standards Approval Board on 22 September 2020.

Preface

Add the following new paragraphs immediately after the existing first paragraph:

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 6 months, following the date of publication, as an appropriate transition period for this Amendment.

The changes in this amendment introduce a Type 27 outlet to replace the Type 21 (POL) outlet for cylinders less than 25 litres water capacity as new cylinders are introduced or existing cylinders are retested. The Type 27 outlet includes additional safety features including a right-hand thread, no gas flow possible until a mating fitting is connected and a thermal fuse which shuts off the gas flow in a fire.

Clause 1.4.44

Replace the definition with the following:

An LP Gas union connection having only a left-hand thread, as specified for a Type 21 in AS 2473.2.

Clause 1.4.67 (new)

Add new term and definition after Clause 1.4.66 as follows:

1.4.67 Type 27 coupling

An LP Gas union connection having both the 1.312-5 ACME-2G-RH-EXT and 0.885-14 NGO LH INT connection as specified for a Type 27 in AS 2473.2.

Clause 2.1

Delete the text of Clause 2.1 and *replace* with the following

The underlying concept of minor storage is that quantities below a certain level are generally unlikely to play a significant part in spreading a fire from place to place. The firefighting services and facilities required under normal building regulations are expected to cope adequately, provided that—

- (a) the quantity of LP Gas does not exceed that given in Table 2.1;
- (b) the storage conditions comply with Clause 2.3;

- (c) the use of LP Gas is in accordance with AS/NZS 5601.1, AS/NZS 5601.2 as appropriate, or other relevant Standard; and
- (d) adaptors to convert Type 21 to Type 27 shall not be used. Adaptors on the cylinder valve outlet are potentially hazardous due to the risk of leakage and inadvertent separation. Adaptors to convert a Type 21 to Type 27 shall not be used.

In Australia the following additional requirement applies:

A POL Connection as specified in AS 2437.2 as Type 21 is suitable for use only with cylinders of greater than 25 kg water capacity. Cylinders with less than 25 kg water capacity shall only utilize a Type 21 valve until their next internal inspection after year 2021.

In New Zealand, the regulations require that valves fitted to cylinders with an LPG capacity 4 kg up to 11 kg incorporate an overfill protection device.

NOTES:

- 1 For greater quantities of LP Gas, Section 4 applies.
- 2 Other requirements, such as workplace safety regulations and guidelines, may also apply to quantities defined as minor storage in this Standard.
- 3 Hazardous areas are not commonly defined for storages less than 25 L but may be required to be defined in some non-domestic situations, particularly where there is restricted ventilation.

Clause 2.3

Delete Item (l) [not including the Caution] and *replace* with the following:

- (l) Cylinders and their fittings shall be visually inspected for damage, wear or scoring, prior to use, particularly the valve seats. If the valve is Type 27, check that the soft seat has not been damaged. The cylinders and fittings shall be tested for leaks when connected and prior to first use, e.g. by using a non-corrosive soap and water, detergent solution or leak detection fluid to detect leaks at all joints and fittings.

Clause 4.1

Add the following as the third paragraph, before the note:

Adaptors on the cylinder valve outlet are potentially hazardous due to the risk of leakage and inadvertent separation. Adaptors to convert a Type 21 valve to Type 27 shall not be used.

Clause 4.3.3

In Item (a)(ii)(A) *replace* existing text with the following:

- (A) complying with AS/NZS 1869 Class F;

Appendix J

- 1 *Replace* Item (a), including the note, with the following:

- (a) Inspect the customer's cylinder for suitable test date, corrosion, 'gouges or' dents, paying particular attention to the underside of the cylinder. Inspect the valve inlet for damage or scoring and, if the valve is Type 27, check that the soft seat has not been damaged. If the cylinder or valve is damaged or out of test, do not fill the cylinder and refer the customer to a registered cylinder test station.

NOTE: Operators should ensure that it is less than 10 years since last test date. Where the original test date is exceeded, operators should check for any subsequent test date stamping.