

Australian Standard™

**Pressure and temperature limit devices
for use with gas burners**

This Australian Standard was prepared by Committee AG-011, Gas Components and Industrial Equipment. It was approved on behalf of the Council of Standards Australia on 14 April 2005. This Standard was published on 1 June 2005.

The following are represented on Committee AG-011:

AGA Certification Services
Appliance and Component Testing
Energy Networks Association
Engineers Australia
Gas Appliance Manufacturers Association of Australia
Gas Appliances and Services Association
Gas Technical Regulators Committee
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Major Industrial Gas Installations

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STANDARDS AUSTRALIA

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OF

AS 4628—2005

Pressure and temperature limit devices for use with gas burners

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NOTES

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PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-011, Gas Components and Industrial Equipment, to supersede AG 213 - 1998, *Approval requirements for pressure and temperature limit devices*. The Standard is republished without technical alterations.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of pressure and temperature limit devices.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

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 and figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**Pressure and temperature limit devices for use with gas burners**

SECTION 1 SCOPE AND DEFINITIONS

1.1 SCOPE

These requirements apply to pressure and temperature limit devices intended to be used with gas or multi-fuel burners.

Compliance with these requirements does not imply acceptability for use without supplemental tests in an intended application.

A limit device incorporating electrical components shall comply with the requirements of the appropriate electrical authority.

Requirements for mechanically operated over-pressure and under-pressure cut-off devices are published in AS 4632.

1.2 DEFINITIONS**1.2.1 Authority**

Means the authority having jurisdiction or such authority as delegated. (Technical Regulator).

1.2.2 Certified

Assessed by a Certifying Body, and having a certificate number to demonstrate compliance with a Standard.

1.2.3 Certifying body

A body acceptable to the Technical Regulator that provides assurance of compliance of appliances and components with nominated standards or other accepted safety criteria.

1.2.4 Gas

A combustible fuel gas which may be one of the following:

1.2.4.1 Natural gas (NG)

A hydrocarbon gas consisting mainly of methane.

1.2.4.2 Simulated natural gas (SNG)

A gas comprising a mixture of LPG and air, in the approximate proportions of 55% gas and 45% air for commercial propane.

1.2.4.3 Town gas (TG)

A gas manufactured from coal or petroleum feedstocks.

1.2.4.4 Tempered liquefied petroleum gas (TLP)

A gas comprising a mixture of LPG and air, in the approximate proportions of 27% gas and 73% air for commercial propane.