AS 4631—2005

Australian Standard™

Limited flexibility connectors for gas

STANDARDS AUSTRALIA

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 15 April 2005.
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Appliance and Component Testing
Energy Networks Association
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Gas Appliances and Services Association
Gas Technical Regulators Committee
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Australian Standard™

Limited flexibility connectors for gas

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PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-011, Gas Components and Industrial Equipment, to supersede AG 216—1998, *Approval requirements for limited flexibility connectors for gas*. 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 limited flexibility connectors for gas.

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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SECTION 1 SCOPE AND DEFINITIONS

1.1 SCOPE

These requirements apply to limited flexibility connectors for use on natural gas (NG), simulated natural gas (SNG), town gas (TG), tempered liquefied petroleum gas (TLP) and liquefied petroleum gas (LPG).

Requirements for a quick-connect device incorporated in a metal connector are published as AS 4627.

1.2 DEFINITIONS

1.2.1 Authority

Means the authority having jurisdiction or such authority as designated. (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.

1.2.4.5 *Liquefied petroleum gas (LPG)*

A gas composed predominantly of any of the following hydrocarbons, or any combination of them in the vapour phase; propane, propene (propylene), butane, butene (butylene).

1.2.5 Gas, high pressure

Gas supplied at pressures of over 200 kPa and not exceeding 1050 kPa.

