

AS 2473—1996

Australian Standard[®]

**Valves for compressed gas
cylinders (threaded outlet)**

This Australian Standard was prepared by Committee ME/2, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 14 June 1996 and published on 5 October 1996.

The following interests are represented on Committee ME/2:

Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Gas Association
Australian Liquefied Petroleum Gas Association
Boiler and Pressure Vessel Manufacturers Association
Department of Defence
Department of Industrial Affairs, S.A.
Department of Labour, New Zealand
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PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee ME/2 on Gas Cylinders to supersede AS 2473—1990. It is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This Standard introduces a number of new connections which fully differentiate valve outlets by gas and maximum filling pressure. It also makes minor changes to the figures in Appendix B to correct previous errors in the metrication carried out in the 1981 edition.

Also in this Standard is the introduction of a program of conversion of certain types of gas outlets. The conversion concerns compressed air and inert gases (including shielding gases) and the details are given in Clause 12 of this Standard.

Formerly, Type 10 was specified for oxygen, air and the permanent inert gases for filling pressures up to 20 000 kPa (200 bar) at 15°C. Type 11 connection was specified for oxygen, air and the inert permanent gases with a filling pressures above 20 000 kPa (200 bar) at 15°C.

In this edition, connections from ISO 5154 are introduced for air and permanent inert gases for filling pressures up to 20 000 kPa (200 bar) at 15°C. Connections from CGA V-1 are used with minor adjustments to the cut-off pressures. This change allows specific oxygen-only connections. The existing Type 10 connection is retained for use at up to 17 500 kPa (175 bar) at 15°C. A new Type 10.5 connection is introduced for use at up to 20 000 kPa (200 bar) at 15°C. The existing Type 11 connection is retained for use at up to 25 000 kPa (250 bar) at 15°C and a new Type 16 connection (similar to Connection 701 from ANSI/GGA V-1) is introduced for service at up to 31 500 kPa (315 bar) at 15°C. For air, inert gases and high-pressure flammable gases, connections are introduced for filling pressures up to 31 500 kPa (315 bar) and up to 42 500 kPa (425 bar), both pressures being at 15°C.

Additionally, outlet details for gases not specifically listed have been revised, including new connections from BS 341 for use with small cylinders.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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