

Australian Standard™

**Pressure gauges for regulators used
with compressed gas cylinders**



This Australian Standard was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 16 July 2001 and published on 12 September 2001.

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STANDARDS AUSTRALIA

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OF

AS 4706—2001

Pressure gauges for regulators used with compressed gas cylinders

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NOTES

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PREFACE

This Standard was prepared by the Joint Standard Australia/Standards New Zealand Committee ME-002, Gas Cylinders, to standardize the requirements concerning pressure gauges for regulators used with compressed gas cylinders. This Standard is intended to cover the area of high pressure reading gauges that may be beyond the scope of AS 1349, *Bourdon tube pressure and vacuum gauges*.

This Standard was prepared by the Australian members of the Joint Standards Australia/New Zealand Committee ME-002. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

Acknowledgment is made to EN 562:1995, *Gas welding equipment—Pressure gauges used in welding, cutting and allied processes* and ISO 5171:1995, *Pressure gauges used in welding, cutting and allied processes* for information within this Standard. Any such information used may be modified to accommodate the differences between European and Australian conditions.

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.

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard

Pressure gauges for regulators used with compressed gas cylinders

1 SCOPE

This Standard specifies the requirements for pressure gauges intended for pressure regulators for use with industrial and medical compressed gas cylinders. Standards affecting these pressure regulators may impose additional requirements other than those given in this Standard.

Pressure gauges intended for fixed delivery pressure LP Gas regulators for domestic and recreational purposes are not covered by this Standard.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|--------|---|
| 1722 | Pipe threads of Withworth form |
| 1722.1 | Part 1: Sealing pipe threads |
| 1722.2 | Part 2: Fastening pipe threads |
| 2472 | Valves for medical gas cylinders (including pin-indexed outlet) |
| 2473 | Valves for compressed gas cylinders (threaded outlet) |
| 3840 | Pressure regulators for use with medical gases |
| 3840.1 | Part 1: Pressure regulator and pressure regulators with flow-metering devices |
| 4267 | Pressure regulators for use with industrial compressed gas cylinders |

AS/NZS ISO

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| 9001 | Quality management systems—Requirements |
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ISO

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| 497 | Guide to the choice of series of preferred numbers and of series containing more rounded values of preferred numbers |
| 4589 | Plastics—Determination of burning behaviour by oxygen index |
| 4589-2 | Part 2: Ambient-temperature test |
| 7000 | Graphical symbols for use on equipment—Index and synopsis |
| 9539 | Materials for equipment used in gas welding, cutting and allied processes |
| 10902 | Assembly tools for screws and nuts—Double-headed open-ended engineer's wrenches |

ANSI/ASME

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| B1.20.1 | Pipe threads, general purpose (inch) |
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EN

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| 837 | Pressure gauges |
| 837-1 | Part 1: Bourdon tube pressure gauges—Dimensions, metrology, requirements and testing |