

Australian/New Zealand Standard[®]

**Equipment for checking pressure
and inflation of tyres**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME/56, Automotive Tyres. It was approved on behalf of the Council of Standards Australia on 1 September 1995 and on behalf of the Council of Standards New Zealand on 11 September 1995. It was published on 5 February 1996.

The following interests are represented on Committee ME/56:

Australia Post
Australian Automobile Association
Australian Chamber of Commerce and Industry
Australian Federation of Consumer Organizations
Australian Road Transport Federation
Australian Tyre Manufacturers Association
Commercial Vehicle Industry Association of Australia
Department of Consumer Affairs, N.S.W.
Department of Transport and Communications
Federal Chamber of Automotive Industries
New Zealand Automotive Component Manufacturers Federation
New Zealand Tire Retreaders Association
Motor Trades Association of Australia
Motor Traders Association of N.S.W.
Railways of Australia Committee
Society of Automotive Engineers, Australasia
Telstra Corporation
Trans Adelaide
Tyre and Rim Association of Australia

Additional interests participating in preparation of Standard:

Australian Automotive Aftermarket Association
National Association of Testing Authorities, Australia
Pressure Gauging Equipment Manufacturers

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PREFACE

This Standard was prepared by the Joint Standards Australia/New Zealand Committee ME/56 on Automotive Tyres, to supersede AS 1268—1973, *Tyre pressure gauges for road vehicles*.

The objective of this Standard is to provide a means of obtaining correct inflation pressures of tyres on road vehicles. The Standard was revised to accommodate recent changes in technology and place the emphasis on design, construction, accuracy and performance testing rather than on specific types of pressure gauges. Additional information is provided to cover the quality and pressure limitations of air being used.

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.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Equipment for checking pressure and inflation of tyres**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies the minimum requirements for tyre pressure gauging equipment when used to measure, inflate, control, or adjust the pressure of tyres in accordance with AS 2230/NZ 5464 and ADR 23, inflated with air or nitrogen.

‘Gauging equipment’ includes each component situated between the valve of the tyre and the air or nitrogen supply. Appendix A of this Standard sets out methods for performance testing of gauging equipment.

NOTES:

- 1 This Standard does not recommend the use of tyre-mounted pressure-indicating devices, as their readability, accuracy, reliability, and ability to withstand shock conditions are unknown.
- 2 This Standard does not cover aircraft tyres nor gauging equipment that uses a column of mercury to determine pressure.
- 3 Advisory information on quality of air and performance life is given in Appendix B and Appendix C.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1210 Unfired Pressure Vessels (known as the SAA Unfired Pressure Vessels Code)

1349 Bourdon tube pressure and vacuum gauges

AS/NZS

2230/5464 Pneumatic tyres—Light truck and truck/bus—New

ADR

23 Passenger car tyres

BS

3693 Recommendations for design of scales and indexes on analogue indicating instruments

1.3 DEFINITIONS For the purpose of this Standard, the definitions below apply.

1.3.1 Chuck—the connecting fitting on the gauge or air supply hose that is compatible with the tyre valve.

1.3.2 Pressure gauge—an instrument that gives a visual indication of the amount by which the pressure applied to it exceeds the pressure of the surrounding atmosphere.

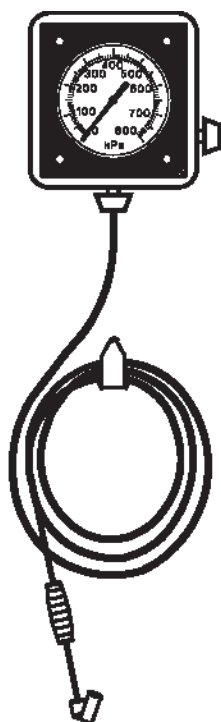
1.3.3 Shall—indicates that a statement is mandatory.

1.3.4 Should—indicates that a statement is recommended or advisory.

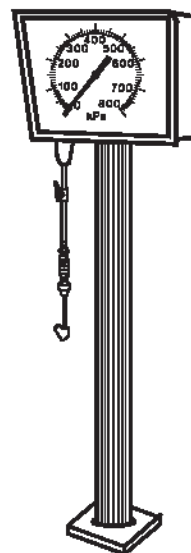
1.4 CATEGORIES OF EQUIPMENT

1.4.1 General The equipment for tyre gauging shall be categorized into the types described in Clause 1.4.2 to 1.4.5.

1.4.2 Type A—fixed equipment Equipment incorporating a fixed pressure gauge (i.e. wall- or pedestal-mounted). It is connected to an external source of compressed air or nitrogen and is fitted with a control placed near the gauge or near the chuck, and enables the inflation and adjustment of tyre pressure. (See Figure 1.)



(a) Wall-mounted



(b) Pedestal-mounted

FIGURE 1 FIXED EQUIPMENT