

Australian Standard[®]

Gas cylinder test stations

**Part 2: LP Gas fuel vessels for
automotive use**

This Australian Standard was prepared by Committee ME/2, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 2 February 1990 and published on 7 May 1990.

The following interests are represented on Committee ME/2:

ACT Administration – Office of City Management
Aluminium Development Council
Australasian Steamship Owners Federation
Australian Assembly of Fire Authority
Australian Chamber of Commerce
Australian Gas Association
Australian Liquefied Petroleum Gas Association
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PREFACE

This Standard was prepared by the Standards Australia Committee on Gas Cylinders to enable the approval, under an extension of the Standards Australia Approved Gas Cylinder Test Station Scheme, of testing stations for LP gas automotive fuel vessels.

Standards Australia has, with the agreement of each relevant Statutory Authority, issued approvals under the terms of the original AS 2337—1980, *Gas cylinder test stations*, for manufacturers of LP gas automotive fuel vessels to stamp a registered mark on new vessels. However, the requirements for in-service inspections and requalification procedures for fuel vessels were not specified in AS 2337—1980.

For the above reasons, AS 2337 became a multipart standard. Welded, brazed, and seamless gas cylinders are provided for in AS 2337.1, *Gas cylinder test stations, Part 1: General requirements, inspections, and tests – Gas cylinders* and fibre reinforced plastics (FRP) hoop overwrapped aluminium alloy gas cylinders are provided for in AS 2337.3, *Gas cylinder test stations, Part 3: Inspection and testing of fibre reinforced plastics (FRP) aluminium alloy gas cylinders – Hoop overwrap*.

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STANDARDS AUSTRALIA

Australian Standard
Gas cylinder test stations

Part 2: LP Gas fuel vessels for automotive use

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies the requirements and procedures with which gas cylinder test stations comply in order to be approved under the terms and conditions of this Standard and carry out initial and periodic inspection and testing of LP gas fuel vessels for automotive use manufactured to AS 1210, Interpretation No 1 to AS 1210, AS 3509 or AS B115.

This Standard does not preclude other tests which may be required to evaluate the integrity of the vessel.

1.2 APPLICATION. This Standard is intended for use by gas cylinder test stations, when carrying out initial and periodic inspection and testing of LP gas vessels for automotive use which are not greater than 500 L water capacity and manufactured to Interpretation No 1 of AS 1210, AS 1210, AS B115, or AS 3509 as appropriate.

An LP gas fuel vessel normally removed from the vehicle to be filled, shall satisfy the relevant inspection procedures specified in AS 2337.1.

For all cylinders manufactured to the requirements of AS 2030.1 and for propane vessels mounted on vehicles, the relevant inspection procedures are those specified in this Standard.

For all cylinders manufactured to the requirements of AS 2030.1, normally filled on vehicles whether LP gas or propane, the requirements are those specified in this Standard.

1.3 REFERENCED DOCUMENTS. The following documents are referred to in this standard:

AS

1210	SAA Unfired Pressure Vessels Code Interpretation No 1 Fuel vessels for LP gas internal combustion engines
1425	SAA Automotive LP Gas Code
2030	SAA Gas Cylinders Code
2030.1	Part 1: Cylinders for compressed gases other than acetylene
2062	Methods for non-destructive penetrant testing of products and components
2337	Gas cylinder test stations
2337.1	Part 1: General requirements, inspection, and tests — Gas cylinders
2473	Valves for compressed gas cylinders (threaded outlet)
2613	Safety devices for gas cylinders
2746	SAA Gas Vehicles Workshop Code
3509	LP gas fuel vessels for automotive use
SAA	MP48 Approved gas cylinder test stations
B115	Welded or brazed steel cylinders for compressed gases

1.4 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 1425 and AS 2030.1, and in Table 2.2 herein and those below apply.

1.4.1 Appurtenance — any attachment to a fuel vessel shell or end which is not a fitting.

1.4.2 Fitting — a valve, fill limiter or contents gauging device.

NOTE:

1. Table 2.2 provides definitions of specific defects with illustrations and treatment.

The term 'gas cylinder' used in AS 2337.1 is to be taken to include fuel vessel where cross-referred to in this Standard.

1.5 APPROVAL OF TEST STATIONS. Test stations shall satisfy Standards Australia and the relevant Inspecting authority that they are competent and capable of complying with the requirements and procedures of this Standard.

On granting of approval, a certificate is issued that names the test station manager, approved signatories, and categories of cylinders and vessels that may be tested by the station. That certificate shall be displayed in a prominent position within the test station.

The terms and conditions of approval require the registered owner(s) of the test station to enter into and uphold the conditions of a specific undertaking. Failure to comply with the requirements and procedures of this standard may result in the withdrawal of approval of the test station, in which case the certificate shall be returned to Standards Australia.