

AS 2809.3:2021



STANDARDS
Australia



Road tank vehicles for dangerous goods

Part 3: Road tank vehicles for compressed liquefied gases



AS 2809.3:2021

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- Australasian Convenience and Petroleum Marketers Association
- Australasian Fire and Emergency Service Authorities Council
- Australia New Zealand Industrial Gas Association
- Australian Industry Group
- Australian Institute of Petroleum
- Australian Trucking Association
- Chemistry Australia
- Commercial Vehicle Industry Association of Australia
- Department of Resources (Qld)
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- EPA NSW
- Gas Energy Australia
- Heavy Vehicle Industry Australia
- National Bulk Tanker Association
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- SafeWork SA
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Preface

This Standard was prepared by the Standards Australia Committee ME-057, Road Tankers for Hazardous Liquids and Gases, to supersede AS 2809.3:2017.

This document specifies requirements for road tank vehicles transporting compressed liquefied gases. This document is to be used in conjunction with AS 2809.1 (which applies to all road tank vehicles) and any other Part of AS 2809 where more than one hazardous property applies to the dangerous goods being transported.

This document is Part 3 of the AS 2809 series, which comprises six Parts. Part 1 specifies general requirements for all road tank vehicles and Parts 2 to 6 provide specific requirements applicable to particular road tank vehicles. The series is as follows:

AS 2809.1, *Road tank vehicles for dangerous goods, Part 1: General requirements for all road tank vehicles*

AS 2809.2, *Road tank vehicles for dangerous goods, Part 2: Road tank vehicles for flammable liquids*

AS 2809.3, *Road tank vehicles for dangerous goods, Part 3: Road tank vehicles for compressed liquefied gases* (this Standard)

AS 2809.4, *Road tank vehicles for dangerous goods, Part 4: Tankers for toxic and corrosive cargoes*

AS 2809.5, *Road tank vehicles for dangerous goods, Part 5: Tankers for bitumen-based products*

AS 2809.6, *Road tank vehicles for dangerous goods, Part 6: Tankers for cryogenic liquids*

The major changes in this edition are as follows:

- (a) Requirements that were duplications of items addressed in other codes, such as baffle requirements in AS 1210, Pressure vessels, were removed.
- (b) [Section 2](#) was restructured so that all the requirements for a type of component were grouped together and the requirements for valve systems clarified.
- (c) Self-sealing low product loss couplings as an alternate to ACME screwed couplings have been included for flammable gases.
- (d) [Appendix B](#) has been included to explain the requirements for electrical components and wiring in hazardous zones and highlight the requirements of the AS 60079 series of standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

Contents

Preface	ii
1 Scope and general	1
1.1 Scope	1
1.2 Objective	1
1.3 Application	1
1.4 Normative references	1
1.5 Terms and definitions	2
1.6 New designs and innovations	2
2 Tanks, accessories and components	2
2.1 General	2
2.1.1 Tank design	2
2.1.2 Components required	3
2.1.3 Suitability	4
2.1.4 Valves	4
2.1.5 Tanker loading connections	4
2.1.6 Tank identification	4
2.2 Protection against escape of cargo	4
2.2.1 Valve systems	4
2.2.2 Pipeline shut-off valve	5
2.2.3 Outlet protection	6
2.2.4 Control of tank quick-closing valves	6
2.2.5 Excess-flow valves	6
2.2.6 Installation of excess-flow valves	6
2.3 Safety valves	6
2.3.1 Provision of safety valves	6
2.3.2 Installation	7
2.3.3 Hydrostatic relief valves	7
2.4 Contents gauges	7
2.4.1 General	7
2.4.2 Fixed liquid level gauges	7
2.4.3 Variable contents gauges	8
2.4.4 Gauge bleed hole	8
2.4.5 Marking	8
2.5 Other Gauges	8
2.5.1 Pressure gauge	8
2.5.2 Temperature gauge	8
2.6 Manual shut-off valves	8
2.7 Pipework and pipe fittings	8
2.7.1 Design	8
2.7.2 Joints	9
2.7.3 Testing of pipework	9
2.7.4 Flexible pipe connections	9
2.7.5 Bleed valves	9
2.8 Pumps and compressors	10
2.8.1 Suitability	10
2.8.2 Pressure limitation	10
2.8.3 Pumps	10
2.8.4 Compressors	10
2.8.5 Location of controls	10
2.9 Transfer hoses and hose couplings	11
2.9.1 Transfer hose	11
2.9.2 Hose assembly testing	11
2.9.3 Protection of hoses	11
2.9.4 Cargo transfer protection	11

3	Flammable gases	11
3.1	Valves	11
3.2	Pumps	11
3.3	Transfer hose	11
3.4	Transfer hose couplings	11
3.5	Electrical bonding and earthing	12
3.5.1	Electrical bonding	12
3.5.2	Earthing point	12
3.6	Hazardous area classification	12
4	Anhydrous ammonia road tank vehicles	12
4.1	Valve material	12
4.2	Transfer hose	12
4.3	Transfer hose coupling	12
4.4	Temperature gauge	12
5	Inspection and maintenance	13
6	Chlorine road tank vehicles	13
Appendix A (normative) Calculation of aggregate discharge capacity for safety valves		14
Appendix B (informative) Hazardous area classification		15
Bibliography		17

Australian Standard®

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1 Scope and general

1.1 Scope

This Standard specifies requirements for the design, construction, and inspection and testing of road tank vehicles for the transport of compressed liquefied gases by road. This Standard is complementary to AS 2809.1.

1.2 Objective

The objective of this Standard is to provide designers, planners, operators and regulators with technical requirements for road tank vehicles transporting compressed liquefied gases.

1.3 Application

In addition to this Standard, road tank vehicles for the transport of compressed liquefied gas shall also conform to AS 2809.1. Where any requirement of this Standard differs from a similar requirement in AS 2809.1, this Standard shall take precedence.

1.4 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1210, *Pressure vessels*

AS 1271, *Safety valves, other valves, liquid level gauges and other fittings for boilers and unfired pressure vessels*

AS 1349, *Bourdon tube pressure and vacuum gauges*

AS 2809.1, *Road tank vehicles for dangerous goods, Part 1: General requirements for all road tank vehicles*

AS 4041, *Pressure piping*

AS D26, *Tube fittings with Dryseal American standard taper pipe and unified threads for automotive and industrial use*

AS/NZS 1596, *The storage and handling of LP Gas*

AS/NZS 1869, *Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas*

AS/NZS 60079.29.2, *Explosive atmospheres, Part 29.2: Gas detectors—Selection, installation, use and maintenance of detectors for flammable gases and oxygen*

ISO 5771, *Rubber hoses and hose assemblies for transferring anhydrous ammonia — Specification*

ISO 10497, *Testing of valves — Fire type-testing requirements*

ANSI/CGA G-2.1-2014, *Requirements For The Storage And Handling Of Anhydrous Ammonia (An American National Standard)*

API 607, *Fire test for quarter-turn valves and valves equipped with non-metallic seats*