



BSI Standards Publication

LPG equipment and accessories — Equipping of LPG road tankers

bsi.

This is a preview. [Click here to purchase the full publication.](#)

National foreword

This British Standard is the UK implementation of EN 12252:2022. It supersedes BS EN 12252:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PVE/19, LPG containers and their associated fittings.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2022
Published by BSI Standards Limited 2022

ISBN 978 0 539 16433 6

ICS 43.080.10

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2022.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

EUROPEAN STANDARD

EN 12252

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2022

ICS 43.080.10

Supersedes EN 12252:2014

English Version

LPG equipment and accessories - Equipping of LPG road tankers

Équipements pour GPL et leurs accessoires -
Équipements des véhicules-citernes routiers pour GPL

Flüssiggas-Geräte und Ausrüstungsteile - Ausrüstung
von Straßentankwagen für Flüssiggas (LPG)

This European Standard was approved by CEN on 20 April 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

European foreword.....	5
Introduction	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	10
4 Requirements	12
4.1 General.....	12
4.2 Equipment	12
4.3 Valve access.....	13
5 Road tanker chassis.....	13
6 Pressure vessel	13
6.1 Pressure vessel	13
6.2 Mounting of pressure vessel on road tanker	14
6.2.1 General.....	14
6.2.2 Mounting	14
7 Pressure vessel accessories	14
7.1 Required pressure vessel accessories.....	14
7.1.1 Contents gauge	14
7.1.2 Pressure gauge	14
7.1.3 Primary shut-off system	15
7.1.4 Pressure relief valves	16
7.2 Optional pressure vessel accessories	16
8 Vehicle LPG equipment	17
8.1 Mandatory LPG equipment.....	17
8.1.1 General.....	17
8.1.2 Pipework.....	17
8.1.3 Connecting hoses.....	17
8.1.4 Accessories	17
8.1.5 Earth connection	17
8.2 Optional LPG equipment	18
9 Equipment specifications	18
9.1 Suitable materials	18
9.1.1 General.....	18
9.1.2 Steel pressure retaining parts.....	18
9.1.3 Non-pressure retaining parts	18
9.1.4 Welding consumables.....	18
9.1.5 Non-metallic materials.....	18
9.1.6 Pipework.....	19
9.1.7 Certification of materials.....	19
9.1.8 Control of materials.....	19
9.2 Contents gauge	19
9.3 Pressure gauge.....	20
9.4 Temperature gauge	20
9.5 Pump.....	20
9.6 Hoses.....	20

9.7	Hose reel	21
9.8	Earth reel	21
9.9	Metering system.....	21
9.10	Valves.....	21
9.11	Pressure relief valves (PRV)	22
9.12	Filters and strainers	22
9.13	Drain valves.....	22
10	Assembly.....	22
10.1	General	22
10.2	Welding	22
10.2.1	Welding of the pressure containing parts	22
10.2.2	Welding of the non-pressure containing parts	23
10.3	Flanged connections.....	23
10.4	Screwed connections.....	23
10.5	External corrosion protection	23
11	Safety systems.....	23
11.1	General	23
11.2	Emergency Shut-Down (ESD)system.....	24
11.3	General safety requirements.....	24
Annex A (normative) Discharge rates for pressure relief valves — Discharge capacity		25
Annex B (informative) Calculation of mountings of pressure vessel to the chassis.....		27
B.1	General	27
B.2	Mounting of pressure vessel to the chassis.....	28
B.2.1	Vertical bolts	28
B.2.2	Horizontal bolts.....	28
B.2.3	Bracket welds.....	28
B.2.4	Allowable stress	28
B.2.5	Typical mounting.....	29
B.3	Calculation of vertical bolts	29
B.3.1	In the direction of travel	29
B.3.2	At right angles to the direction of travel	30
B.3.3	Vertically upwards	30
B.4	Calculation of the bracket welds.....	31
B.4.1	General	31
B.4.2	In the direction of travel	31
B.4.3	At right angles to the direction of travel	31
B.4.4	Vertically upwards	31
B.5	Calculation of horizontal bolts.....	32
B.5.1	General	32
B.5.2	In the direction of travel	32
B.5.3	At right angles to the direction of travel	32