

# Automotive LPG systems — Installation requirements

The European Standard EN 12979:2002 has the status of a  
British Standard

ICS 43.040.99; 23.020.20

## National foreword

This British Standard is the official English language version of EN 12979:2002.

The UK participation in its preparation was entrusted to Technical Committee PVE/19, LPG containers and their associated fittings, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

### Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

This British Standard, having been prepared under the direction of the Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 27 February 2002

### Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 26, an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

### Amendments issued since publication

Amd. No.	Date	Comments

© BSI 27 February 2002

ISBN 0 580 39192 2

ICS 43.060.40

English version

## Automotive LPG-systems - Installation requirements

Véhicules à Gaz de Pétrole Liquéfiés (GPL) - Exigences  
d'installation

Systeme für mit Flüssiggas betriebene (LPG) Fahrzeuge -  
Einbauvorschriften

This European Standard was approved by CEN on 16 November 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## Contents

	page
Foreword.....	3
Introduction .....	4
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions.....	4
4 Symbols and abbreviated terms.....	7
5 Installation requirements .....	7
5.1 General requirements.....	7
5.2 Connections to LPG-system.....	7
5.3 LPG identification mark for M <sub>2</sub> and M <sub>3</sub> category vehicles .....	8
5.4 Changes to the vehicle structure .....	8
5.5 Container installation .....	8
5.6 Installation of more than one container .....	9
5.7 Components on or in the container .....	9
5.7.1 General requirements.....	9
5.7.2 Remote-controlled service valve with excess flow valve on the container.....	9
5.7.3 Pressure relief valve .....	9
5.7.4 Filling unit.....	9
5.7.5 80 % stop valve .....	9
5.7.6 Level indicator.....	10
5.7.7 Gas-tight housing .....	10
5.8 Gas pipes and hoses .....	10
5.9 Gas connections between components of the LPG-system .....	10
5.10 Remote-controlled shut-off valve.....	11
5.11 Vehicle connector .....	11
5.12 Electrical installation .....	11
5.13 Fuel selection system.....	12
5.14 Pressure relief device.....	12
5.15 Installation manual .....	12
5.15.1 General.....	12
5.15.2 Contents of the installation manual .....	12
6 Markings in case of retrofit installation .....	13
Annex A (informative) Definitions of vehicle categories (extract from Directive 70/156) .....	14
A.1 International classification of vehicle categories.....	14
A.2 Load and checking conditions .....	16
Annex B (normative) Container fixing requirements up to a capacity of 150 litres .....	19
B.1 General requirements.....	19
B.2 Container frame.....	20
Annex C (normative) Arrangement of approval markings .....	21
C.1 Type approval marking.....	21
C.2 International country numbers.....	22
Annex D (normative) Provisions regarding the identification for M <sub>2</sub> and M <sub>3</sub> category vehicles.....	23
Annex E (normative) Provisions regarding the identification of the service coupling.....	24
Annex F (informative) Installation of more than one container .....	25
Bibliography .....	26