

STN	Zariadenia a príslušenstvo na LPG. Dielne pre vozidlá na LPG. Časť 1: Pracovné priestory a postupy.	STN EN 16652-1 07 8240
------------	--	--

LPG equipment and accessories - Automotive LPG vehicles workshops - Part 1: Working areas and procedures

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/16

Obsahuje: EN 16652-1:2016

123403

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

EN 16652-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2016

ICS 43.060.40; 43.180

English Version

LPG equipment and accessories - Automotive LPG vehicles workshops - Part 1: Working areas and procedures

Équipements GPL et leurs accessoires - Ateliers pour
véhicules automobiles fonctionnant au GPL - Partie 1:
Zones de travail et modes opératoires

Flüssiggas-Geräte und Ausrüstungsteile - Werkstätten
für Autogas-Nachrüstsysteme - Teil 1: Arbeitsbereiche
und Verfahren

This European Standard was approved by CEN on 13 February 2016.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, 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: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Working areas	7
4.1 General service working areas	7
4.2 Dedicated LPG working areas	7
4.2.1 General	7
4.2.2 Service pits	8
4.2.3 Equipment	8
5 Procedures	8
5.1 Procedures in case of an increased hazard	8
5.2 Prevention of overheating	9
5.2.1 General	9
5.2.2 Treatment of an LPG vehicle in the paint booth	9
5.3 Fuel unloading	10
5.4 Gas-freeing	11
5.5 Work on the LPG system	11
5.6 Storage of unpurged containers	11
5.7 LPG system decommissioning	12
5.8 Scrapping	12
5.9 Emergency measures	12
Annex A (informative) Dedicated LPG working area equipment	13
Annex B (informative) Fuel unloading methods	14
Annex C (informative) Container depressurising method	20
Annex D (informative) Gas-freeing methods	22
Annex E (informative) Emergency measures guidelines	24
Annex F (informative) Leak detection methods	27
Bibliography	29

European foreword

This document (EN 16652-1:2016) has been prepared by Technical Committee CEN/TC 286 “Liquefied petroleum gas equipment and accessories”, the secretariat of which is held by NSAI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2016, and conflicting national standards shall be withdrawn at the latest by November 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This European Standard does not purport to address all of the health and safety risks, if any, associated with its use. It is the responsibility of the user to establish appropriate health and safety practices and to ensure compliance with any national legislative and regulatory obligations.

Users should perform their own full risk assessment to address all of the health and safety risks, as required by national legislation.

Training and competency requirements for personnel involved in the activities are not included in the scope of this standard but are planned to be addressed in a second part to this European Standard.

This European Standard specifies the requirements for working areas and the procedures for the installation of LPG systems on vehicles and for the repairing and maintenance of vehicles equipped with LPG systems.

This European Standard should be used for aspects not covered by the manuals provided by the manufacturers of LPG vehicles and/or retrofit systems.

Protection of the environment is a key political issue in Europe and elsewhere, for CEN/TC 286 this is covered in CEN/TS 16765 [2] *LPG equipment and accessories - Environmental considerations for CEN/TC 286 standards*, and this Technical Specification should be read in conjunction with this standard.

It is recommended that users develop an environmental management policy. For guidance see EN ISO 14021[3], EN ISO 14024 [4] and EN ISO 14025 [5]. It has been assumed in the drafting of this European Standard that execution of its provisions is entrusted to appropriately qualified and experienced people.

1 Scope

This European Standard sets out the requirements for automotive LPG working areas and procedures, aimed at reducing the risk of fire and explosion of LPG when the following types of work or activity are carried out:

- a) equipping vehicles with an LPG system to use LPG for propulsion purposes;
- b) maintenance, servicing and repairs to the LPG system;
- c) any other LPG vehicle maintenance, servicing or repairs not involving the LPG system.

The operations described in items a) and b) above are undertaken in dedicated LPG working areas, whereas item c) is undertaken in general service working areas.

This Standard does not address how to equip a vehicle with an LPG retrofit system or how to repair or maintain an LPG vehicle.

NOTE Such provisions are normally provided in the instruction manuals issued by the relevant manufacturers.

2 Normative references

Not applicable.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN