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75.200

COMPRESSED NATURAL GAS VEHICLE OPERATIONS

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EUROPEAN STANDARD
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EN 13423

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ICS 43.020; 43.180; 75.200

English version

Compressed natural gas vehicle operations

Exploitation de véhicules fonctionnant au gaz naturel
comprimé

Umgang mit erdgasbetriebenen Fahrzeugen

This European Standard was approved by CEN on 15 September 2000.

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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 Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 326 "Gas supply for Natural Gas Vehicles (NGV)", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This standard provides guidance on the operation of vehicles that use natural gas as a fuel, and gives recommendations of good practice for users, parking facilities, refuelling stations and workshops appropriate for NGVs, whether or not the gas system is to be worked on.

This standard is mainly directed at:

- * Vehicle Park Owner /Operator / User
- * NGV Dealer / Owner / User
- * Workshop Operators

1 Scope

- 1.1 This standard gives recommendations for the operation of vehicles fuelled with natural gas and operating at a fuel system pressure not exceeding 20 MPa (200bar) at 15 °C.
- 1.2 This standard may be applied to higher system pressures, but due regard should then be given to safety aspects such as, ventilation rates, hazardous area requirements and other aspects associated with those higher pressures.
- 1.3 It applies to vehicles conforming to ISO/DIS 15501-1 : 2000 and ISO/DIS 15501-2 : 2000 and to refuelling stations conforming to prEN 13638:1999.

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- 1.4 It does not cover operational aspects of vehicles designed to operate on liquefied natural gas (LNG).

2 Normative References

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendments or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

prEN 13638:1999	NGV filling stations
ISO/FDIS 11439:2000	Gas cylinders - High pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles
ISO/DIS 15501-1:2000	Road vehicles - Compressed natural gas fuelling systems - Part 1 - Safety requirements
ISO/DIS 15501-2:2000	Road vehicles - Compressed natural gas fuelling systems - Part 2 - Test methods

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply:

3.1
natural gas vehicle (NGV)

vehicle which operates on natural gas as a fuel

3.2
NGV workshop

workshop that undertakes work on NGV's and is competent to do so and appropriately equipped.

3.3
competent person

person having the ability, appropriate training, knowledge and experience to supervise or carry out work on an NGV in a safe and proper manner.

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