Tanks for transport of dangerous goods - Service Sequipment for tanks - Adaptor for bottom loading and unloading



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

	This Estonian standard EVS-EN 13083:2008+A1:2013 consists of the English text of the European standard
13083:2008+A1:2013 ingliskeelset teksti.	EN 13083:2008+A1:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 13.300, 23.020.20, 23.040.60

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2013

EN 13083:2008+A1

ICS 13.300; 23.020.20; 23.040.60

Supersedes EN 13083:2008

English Version

Tanks for transport of dangerous goods - Service equipment for tanks - Adaptor for bottom loading and unloading

Citernes de transport de matières dangereuses -Équipement de service pour citernes - Adaptateur pour le chargement et le déchargement par le bas Tanks für die Beförderung gefährlicher Güter -Bedienungsausrüstung von Tanks - VK-Kupplung für Untenbefüllung und -entladung

This European Standard was approved by CEN on 13 September 2008 and includes Amendment 1 approved by CEN on 1 March 2013.

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.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 13083:2008+A1:2013) has been prepared by Technical Committee CEN/TC 296 "Tanks for transport of dangerous goods", the secretariat of which is held by AFNOR.

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 December 2013 and conflicting national standards shall be withdrawn at the latest by December 2013.

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.

This document supersedes A EN 13083:2008 A.

This document includes Amendment 1 approved by CEN on 2013-03-01.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A] (A].

This European Standard forms part of a coherent standards programme comprising the following standards, under the general title "Tanks for transport of dangerous goods - Service equipment for tanks":

EN 13081, Vapour collection adaptor and coupler

EN 13082, Vapour transfer valve

EN 13083, Adaptor for bottom loading and unloading

EN 13308, Non-pressure balanced footvalve

EN 13314, Fill hole cover

EN 13315, Gravity discharge coupler

EN 13316, Pressure balanced footvalve

EN 13317, Manhole cover assembly

EN 13922, Overfill prevention systems for liquid fuels

EN 14595, Pressure and Vacuum Breather Vent

EN 14596, Emergency pressure relief valve

EN 15208, Sealed parcel delivery systems – Working principles and interface specifications

EN 16249, Cap for the adaptor for bottom loading and unloading [A]

The standards programme also includes the following Technical Report:

CEN/TR 15120, Guidance and recommendations for loading, transport and unloading.

(A) Compared to EN 13083:2008 the following changes have been made:

a) in the Foreword add EN 16249 to the list of standards;

b) in Clause 2, Normative references, add:

EN 16249 Cap for the adaptor for bottom loading and unloading

- c) in Clause 4, Function, the last paragraph is modified;
- d) in Clause 5, Design Characteristics, "5.14 Adaptor Cap" is deleted;
- e) in 6.3, Type Tests, 6.3.1 General, fourth type test is modified;
- f) in 6.3, "6.3.5 Adaptor cap seat tightness test" and subclauses are deleted and replaced by a compliance test with EN 16249. [A1]

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, ania, an, Swit. Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

om Ic nating loc sharge coup ads (VOC) [1]. The adaptor for bottom loading and unloading, subject of this European Standard, allows the transfer of product through a mating loading coupler to a transport tank and from the tank to a service station tank by a mating gravity discharge coupler. It is required to comply with the European Directive 94/63/EC on Volatile Organic Compounds (VOC) [1].

1 Scope

This European Standard covers externally actuated and self actuated adaptors for bottom loading and unloading.

This European Standard specifies the performance requirements and the critical dimensions of the adaptor for bottom loading and unloading. It also specifies the tests necessary to verify the compliance of the equipment with this European Standard. The equipment specified by this standard is suitable for use with liquid petroleum products and other dangerous substances of Class 3 of ADR [2] which have a vapour pressure not exceeding 110 kPa at 50 °C and petrol, and which have no subclassification as toxic or corrosive.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12266-1:2003, Industrial valves — Testing of valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements

EN 12266-2:2002, Industrial valves — Testing of valves — Part 2: Tests, test procedures and acceptance criteria — Supplementary requirements

EN 16249, Tanks for the transport of dangerous goods — Service equipment — Cap for the adaptor for bottom loading and unloading (A)

EN ISO 1302, Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation (ISO 1302:2002)

EN ISO 4287, Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters (ISO 4287:1997)

ISO 2859-1, Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

Maximum Working Pressure (MWP) (gauge pressure)

maximum pressure to which the equipment is designed to operate, being the highest of the following three pressures:

- a) highest effective pressure allowed in the tank during filling (maximum filling pressure allowed)
- b) highest effective pressure allowed in the tank during discharge (maximum discharge pressure allowed)
- effective gauge pressure to which the tank is subjected by its contents (including such extraneous gases as it may contain) at the maximum working temperature

3.2

product sensor

device which detects the presence of liquid petroleum and whose output signal can be used to display whether liquid is present