

**Tanks for transport of dangerous goods  
- Service equipment for tanks - Manhole  
cover assembly**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13317:2003+A1:2006 sisaldab Euroopa standardi EN 13317:2002+A1:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 21.12.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13317:2003+A1:2006 consists of the English text of the European standard EN 13317:2002+A1:2006.</p> <p>This document is endorsed on 21.12.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard covers the manhole cover assembly and specifies the performance requirements, dimensions and tests necessary to verify the compliance of the equipment to this standard</p>	<p><b>Scope:</b></p> <p>This European Standard covers the manhole cover assembly and specifies the performance requirements, dimensions and tests necessary to verify the compliance of the equipment to this standard</p>
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**ICS** 13.300, 23.020.10, 23.020.20

**Võtmesõnad:** containers, inflammable solids, mar, road tankers, safety, safety devices, safety engineering, specification (approval), specifications, tank installations, tank trucks, tanks, tanks (containers), testing, transport, transport of dangerous goods, workplace safety

ICS 13.300; 23.020.10; 23.020.20

English Version

## Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly

Citernes destinées au transport de matières dangereuses -  
Équipements de service pour citernes - Couvercle de trou  
d'homme

Tanks für die Beförderung gefährlicher Güter -  
Bedienungsausrüstung von Tanks - Baugruppe Deckel für  
Einsteigeöffnungen

This European Standard was approved by CEN on 4 October 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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## Foreword

This document (EN 13317:2002+A1:2006) 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 May 2007 and conflicting national standards shall be withdrawn at the latest by May 2007.

This document includes Amendment 1, approved by CEN on 2006-10-04.

This document supersedes EN 13317:2002.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports the objectives of the framework Directives on Transport of Dangerous Goods.

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR. Therefore in this context the standards listed in the normative references and covering basic requirements of the RID/ADR not addressed within the present standard are normative only when the standards themselves are referred to in the RID and/or in the technical annexes of the ADR.

This European Standard forms part of a coherent standards programme comprising the following standards:

*Tanks for transport of dangerous goods - Service equipment for tanks*

EN 13081, *Vapour collection* **A1** ~~deleted text~~ **A1** **A1** *adaptor* **A1** *and coupler*.

EN 13082, *Vapour transfer valve*.

EN 13083, **A1** ~~deleted text~~ **A1** **A1** *Adaptor* **A1** *for bottom loading and unloading*.

**A1** ~~deleted text~~ **A1** EN 13308, *Non-pressure balanced footvalve*.

EN 13314, *Fill hole cover*.

EN 13315, *Gravity discharge coupler*.

**A1** ~~deleted text~~ **A1** EN 13316, *Pressure balanced footvalve*.

EN 13317, *Manhole cover assembly*.

**A1** ~~deleted text~~ **A1** **A1** EN 14595 **A1**, *Pressure and vacuum breather vent*.

**A1** ~~deleted text~~ **A1** **A1** EN 14596 **A1** *Emergency pressure relief valve*.

Annexes A and B are both normative.

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

## Introduction

The manhole cover assembly, the subject of this standard, seals the manhole which gives access to the inside of the tank compartment for manufacturing, cleaning, and inspection, and forms an integral part of a loading, unloading or venting function.

NOTE Cover plates used to seal manholes are not the subject of this standard.

The manhole cover assembly, which comprises the manhole cover and gaskets and may include devices to secure it to the tank shell neckring, may also provide the mounting points for equipment such as:

- fill hole cover;
- pressure limiting device(s);
- level detection equipment;
- vapour transfer valve;
- pressure and vacuum breather vent.

## 1 Scope

This European Standard covers the manhole cover assembly and specifies the performance requirements, dimensions and tests necessary to verify the compliance of the equipment to this standard.

The equipment specified by this standard is suitable for use with liquid petroleum products and other dangerous substances of Class 3 of ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road – (flammable liquids) which have a vapour pressure not exceeding 110 kPa at 50 °C including petrol, and which have no-sub-classification as toxic or corrosive.

## 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 amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

**A1** *deleted text* **A1**

**A1** EN 12266-1:2003, *Industrial valves - Testing of valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements* **A1**

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

**A1** *deleted text* **A1**

**A1** EN 13094:2004, *Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction.* **A1**

**A1** *deleted text* **A1**

**A1** EN 14025, *Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction* **A1**

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 European Standard, the following terms and definitions apply.

### 3.1

#### **manhole**

opening in a tank to allow internal inspection by a person passing through

### 3.2

#### **manhole cover**

**A1** *deleted text* **A1** cover of the manhole which forms an integral part of a loading, unloading or venting function and which may include auxiliary equipment such as vapour transfer valve, emergency pressure relief valve and sensors

### 3.3

#### **manhole cover neckring**

**A1** *deleted text* **A1** shell ring permanently joined to the tank in accordance with **A1** *deleted text* **A1** EN 13094 **A1** or **A1** *deleted text* **A1** EN 14025 **A1**, that provides the attachment point for the manhole cover