

**Tanks for the transport of dangerous goods - Service equipment - Cap for the adaptor for bottom loading and unloading**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 16249:2013 sisaldab Euroopa standardi EN 16249:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 16249:2013 consists of the English text of the European standard EN 16249:2013.
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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 07.08.2013.	Date of Availability of the European standard is 07.08.2013.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

ICS 23.020.20

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English Version

**Tanks for the transport of dangerous goods - Service equipment  
- Cap for the adaptor for bottom loading and unloading**

Citernes destinées au transport de matières dangereuses -  
Équipement de service - Chapeau pour l'adaptateur pour le  
chargement et déchargement par le bas

Tanks für die Beförderung gefährlicher Güter -  
Bedienungsausrüstung - Kappe für VK-Kupplung für  
Untenbefüllung und -entladung

This European Standard was approved by CEN on 29 June 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  
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## Foreword

This document (EN 16249:2013) 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 February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.

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 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This European Standard forms part of a coherent standards programme about service equipment of tanks for transport of liquid dangerous goods with vapour pressure not exceeding 110 kPa (absolute pressure) at 50 °C and of petrol. That programme comprises the following European Standards:

- EN 13081, *Tanks for transport of dangerous goods — Service equipment for tanks — Vapour collection adaptor and coupler*;
- EN 13082, *Tanks for transport of dangerous goods — Service equipment for tanks — Vapour transfer valve*;
- EN 13083, *Tanks for transport of dangerous goods — Service equipment for tanks — Adaptor for bottom loading and unloading*;
- EN 13308, *Tanks for transport of dangerous goods — Service equipment for tanks — Non pressure balanced footvalve*;
- EN 13314, *Tanks for transport of dangerous goods — Service equipment for tanks — Fill hole cover*;
- EN 13315, *Tanks for transport of dangerous goods — Service equipment for tanks — Gravity discharge coupler*;
- EN 13316, *Tanks for transport of dangerous goods — Service equipment for tanks — Pressure balanced footvalve*;
- EN 13317, *Tanks for transport of dangerous goods — Service equipment for tanks — Manhole cover assembly*;
- EN 14595, *Tanks for transport of dangerous goods — Service equipment for tanks — Pressure and Vacuum Breather Vent*;
- EN 14596, *Tanks for transport of dangerous goods — Service equipment for tanks — Emergency pressure relief valve*;
- EN 16257, *Tanks for the transport of dangerous goods — Service equipment — Footvalve sizes other than 100 mm dia (nom)*.

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.

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## Introduction

The cap for the adaptor for bottom loading and unloading, the subject of this European Standard, is the third closure device providing additional confinement of the dangerous substances within the tank when fitted.

Additionally, when fitted, it provides mechanical protection for the sealing face of the adaptor nose.

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## 1 Scope

This European Standard is applicable to the cap used to provide protection and end closing for the adaptor for bottom loading and unloading of tanks for the transport of dangerous goods. It specifies the performance requirements, critical dimensions and tests necessary to verify the compliance of the equipment with this European Standard.

The equipment specified by this European Standard is suitable for use with liquid petroleum products and other dangerous substances of Class 3 of ADR <sup>1)</sup> (flammable liquids) that have a vapour pressure not exceeding 110 kPa at 50 °C, including petrol, and that are not sub-classified as toxic or corrosive.

## 2 Normative references

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

EN 12266-1:2012, *Industrial valves — Testing of metallic valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements*

EN 12266-2:2012, *Industrial valves — Testing of metallic valves — Part 2: Tests, test procedures and acceptance criteria — Supplementary requirements*

EN 13083:2008, *Tanks for transport of dangerous goods — Service equipment for tanks — Adaptor for bottom loading and unloading*

EN 13315:2002, *Tanks for transport of dangerous goods — Service equipment for tanks — Gravity discharge coupler*

EN 14564:2013, *Tanks for transport of dangerous goods — Terminology*

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 terms and definitions given in EN 13083:2008, EN 13315:2002 and EN 14564:2013 apply.

## 4 Functions

When fitted, the requirements for the cap for the adaptor shall provide

- containment of substance within the tank,
- mechanical protection for the sealing face of the adaptor nose, and

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1) ADR: *European Agreement concerning the International Carriage of Dangerous Goods by Road*