

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13317:2018 sisaldab Euroopa standardi EN 13317:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 13317:2018 consists of the English text of the European standard EN 13317:2018.
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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 23 April 2018.

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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European foreword

This document (EN 13317:2018) has been prepared by Technical Committee CEN/TC 296, "Tanks for the 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of an identical text or by endorsement, at the latest by January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.

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

This document supersedes EN 13317:2002+A1:2006.

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

The following significant changes were made in this edition of EN 13317 in comparison with the earlier one:

- a statement to be included in the installation instructions regarding the requirements for attachment to the shell;
- the keeping period for test results clarified;
- drop test rig, (Annex A), dimensions of sand boxes improved;
- Mounting dimensions, (Annex B), title change, contents amended and expanded into two annexes (Annex B and Annex C) for clarification.

This European Standard has been submitted for reference into the technical annexes of the ADR [1]. Therefore, in this context the standards listed in the normative references and covering basic requirements of the ADR not addressed within the present standard are normative only when the standards themselves are referred to in the technical annexes of the ADR.

This European Standard forms part of a coherent standards programme comprising the following 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 - Breather device*;
- EN 14596, *Tanks for transport of dangerous goods - Service equipment for tanks - Emergency pressure relief valve*;
- EN 16249, *Tanks for the transport of dangerous goods - Service equipment - Cap for the adaptor for bottom loading and unloading*;
- EN 16257, *Tanks for the transport of dangerous goods - Service equipment - Footvalve sizes other than 100 mm dia (nom)*;
- EN 16522, *Tanks for transport of dangerous goods - Service equipment for tanks - Flame arresters for breather devices*.

Annexes A, B and C are normative. This document includes a Bibliography.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the 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;
- breather device.

1 Scope

This document 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 which have a vapour pressure not exceeding 110 kPa at 50 °C and petrol, and which have no sub-classification as toxic or corrosive.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12266-1:2012, *Industrial valves - Testing of metallic valves – Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements*

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

EN 13094:2015, *Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction*

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.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 manhole

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

3.2 manhole cover

cover of the manhole which forms an integral part of a loading, unloading or venting function

Note 1 to entry: Loading, unloading or venting function may include auxiliary equipment such as vapour transfer valve, emergency pressure relief valve and sensors.

3.3 manhole cover neckring

shell ring permanently joined to the tank that provides the attachment point for the manhole cover