

Tanks for transporting dangerous goods - Service for tanks - Pressure balanced footvalve

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13316:2003 sisaldab Euroopa standardi EN 13316:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13316:2003 consists of the English text of the European standard EN 13316:2002.</p> <p>This document is endorsed on 18.02.2003 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>Käsitlusala: This European Standard covers the pressure balanced footvalve for bottom loading and unloading and specifies the performance requirements, dimensions and tests necessary to verify the compliance of the equipment to this standard</p>	<p>Scope: This European Standard covers the pressure balanced footvalve for bottom loading and unloading 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, 23.020.20, 23.060.20

Võtmesõnad: containers, inflammable solids, safe, safety, sample surveys, specification (approval), specifications, surveillance (approval), tank installations, tank trucks, tanks, tanks (containers), testing, transport, transport of dangerous goods, valves, workplace safety

ICS 13.300; 23.020.20; 23.060.20

English version

Tanks for transport of dangerous goods - Service equipment for tanks - Pressure balanced footvalve

Citernes de transport de matières dangereuses -
Équipement de service pour citernes - Clapet de fond à
pression compensée

Tanks für die Beförderung gefährlicher Güter -
Bedienungsausrüstung von Tanks - Druckausgeglichenes
Bodenventil

This European Standard was approved by CEN on 31 August 2002.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 13316:2002) 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 2003, and conflicting national standards shall be withdrawn at the latest by May 2003.

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.

In this European Standard the annexes A, B, C and D are normative and the annex E is informative.

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

Tanks for transport of liquid dangerous goods with vapour pressure not exceeding 110 kPa (absolute pressure) at 50 °C and petrol - Service Equipment

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*

WI 00296009, *Tanks for transport of dangerous goods - Service equipment for tanks - Pressure and vacuum breather vent*

WI 00296010, *Tanks for transport of dangerous goods - Service equipment for tanks - Emergency pressure relief valve.*

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The pressure balanced footvalve, also called emergency valve or internal security valve, the subject of this standard, is an internal self closing stop valve ensuring the primary containment to confine the transported dangerous substances within the tank when closed.

It allows the transfer of dangerous substances between a tank compartment and its run-off pipe when externally actuated. It does not allow flow of dangerous substances in either the loading or unloading direction when not externally actuated, and stops the flow if the external actuation is interrupted or disengaged.

1 Scope

This European Standard covers the pressure balanced footvalve for bottom loading and unloading 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 applicable to 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 and 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).

prEN 12266-1:1999, *Industrial valves – Testing of valves – Part 1: Tests, test procedures and acceptance criteria to be fulfilled by every valve.*

EN 12266-2:2002, *Industrial valves – Testing of valves – Part 2: Supplementary tests, test procedures and acceptance criteria.*

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

run-off pipe

the transfer pipe, including equipment and fittings, on the vehicle which connects the footvalve to the loading/unloading adaptor

3.2

self closing valve

a valve held in the closed position by means of stored energy (such as a spring) which opens only by application of external force and which closes when the external force is removed

3.3

pressure balanced

equilibrium of substance pressure on both sides of the valve's obturator

3.4

maximum allowable working pressure (MAWP)

the maximum pressure to which the equipment is designed to operate