

<b>STN</b>	<b>Cisterny na prepravu nebezpečných látok. Obslužné vybavenie cisterien. Tlakové a podtlakové odvetrávacie zariadenie.</b>	<b>STN EN 14595</b>  69 8514
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Tanks for transport of dangerous goods - Service equipment - Breather device

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/17

Obsahuje: EN 14595:2016

Oznámením tejto normy sa ruší  
STN EN 14595 (69 8514) z októbra 2005

**123835**

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2017  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy  
rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 14595**

August 2016

ICS 13.300; 23.020.20

Supersedes EN 14595:2005

English Version

**Tanks for transport of dangerous goods - Service  
equipment - Breather device**

Citernes destinées au transport de matières  
dangereuses - Équipement de service pour citernes -  
Dispositif de respiration

Tanks für die Beförderung gefährlicher Güter -  
Bedienungsausrüstung - Belüftungseinrichtung

This European Standard was approved by CEN on 25 June 2016.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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## European foreword

This document (EN 14595:2016) 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 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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 14595:2005.

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 new edition of EN 14595:

- device name changed to align with ADR,
- Introduction revised to clarify the combination of breather and safety device as requirements for compliance with this standard and to include reference to EN 16522,
- EN 12266-2 removed from the normative reference list,
- requirement for secondary positive means of security clarified,
- below atmospheric relieving pressure rating clarified,
- electrical resistance requirements refined,
- the keeping period for test results clarified,
- drop test rig, (Annex A), dimensions of sand boxes improved.

This document forms part of a coherent standards programme (i.e. Tanks for transport of liquid dangerous goods with vapour pressure not exceeding 110 kPa (absolute) at 50° C and petrol — Service equipment).

This standards programme comprises the following standards:

- 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*.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

## Introduction

The breather device as specified includes a safety device to prevent the contents from spilling out if the tank overturns.

The breather may be a separate device, or an integral part of another device.

Where the breather device is separate from the safety device (to prevent the contents from spilling out of the tank), the functional performance of these elements in combination is required in order to comply with this standard.

Where a flame arrestor is required, EN 16522, *Flame arrestors for breather devices*, specifies requirements.

## 1 Scope

This European Standard covers the breather device used to ensure normal tank compartment breathing. It specifies the performance requirements and the critical dimensions of the breather device. It also specifies the tests necessary to verify compliance of the equipment with this document.

The service equipment specified by this document is suitable for use with liquid petroleum products and other dangerous substances of Class 3 of ADR [1] which have a vapour pressure not exceeding 110 kPa (absolute) at 50 °C and petrol, and which have no sub-classification 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 14564, *Tanks for transport of dangerous goods - Terminology*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation (ISO 228-1)*

EN 60529, *Degrees of protection provided by enclosures (IP Code)*

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**