

<b>STN</b>	<b>Cisterny na prepravu nebezpečných látok Obslužné vybavenie cisterien Ventil na havarijné uvoľňovanie tlaku</b>	<b>STN EN 14596</b>  69 8515
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Tanks for transport of dangerous goods - Service equipment for tanks - Emergency pressure relief valve

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. 01/19

Obsahuje: EN 14596:2018

Oznámením tejto normy sa ruší  
STN EN 14596 (69 8515) z októbra 2005

**127951**

EUROPEAN STANDARD

EN 14596

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2018

ICS 13.300; 23.020.20; 23.060.40

Supersedes EN 14596:2005

English Version

## Tanks for transport of dangerous goods - Service equipment for tanks - Emergency pressure relief valve

Citernes destinées au transport de matières dangereuses - Équipements de service pour citernes - Clapet de surpression accidentelle

Tanks für die Beförderung gefährlicher Güter - Bedienungsausrüstung von Tanks - Notentlastungsventil

This European Standard was approved by CEN on 23 April 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN 14596:2018 (E)**

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## European foreword

This document (EN 14596:2018) 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.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 14596:2005.

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

This edition of EN 14596 has the following significant changes from the earlier standard:

- Introduction and relieving pressure changed to reflect the change in ADR tank classification from low pressure tanks to gravity discharge tanks;
- a note regarding weather protection;
- a vapour venting performance test has been added;
- the keeping period for test results clarified;
- drop test rig, (Annex A), dimensions of sand boxes improved;
- venting capacity table moved to new annex (Annex B) and made informative.

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 pressure) at 50° C and petrol - Service equipment).

This standards programme comprises 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.*

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

EN 16257, *Tanks for 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

An emergency pressure relief valve allows venting from a tank compartment during excess pressure.

The emergency pressure relief valve may, in addition, perform the closing and opening functions of a fill hole cover, as specified in EN 13314 [1].

The emergency pressure relief valve is fitted to gravity discharge tanks and should not be considered as a pressure tank safety valve as defined in ADR [2].

The function of the emergency pressure relief valve may also be performed by the fill hole cover in accordance with EN 13314.

**EN 14596:2018 (E)****1 Scope**

This document covers the emergency pressure relief valve.

It specifies the performance requirements and the critical dimensions of the emergency pressure relief valve. It also specifies the tests necessary to verify the 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 [2] 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 12266-2:2012, *Industrial valves - Testing of metallic valves - Part 2: Tests, test procedures and acceptance criteria - Supplementary requirements*

EN 14564, *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*

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