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SEADMED**

**Overfill prevention devices for static tanks for liquid
fuels - Part 1: Overfill prevention devices with closure
device**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13616-1:2016 sisaldab Euroopa standardi EN 13616-1:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 13616-1:2016 consists of the English text of the European standard EN 13616-1:2016.
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English Version

Overfill prevention devices for static tanks for liquid fuels - Part 1: Overfill prevention devices with closure device

Dispositifs limiteurs de remplissage pour réservoirs
statiques pour carburants liquides - Partie 1:
Dispositifs limiteurs de remplissage avec dispositif de
fermeture

Überfüllsicherungen für ortsfeste Tanks für flüssige
Brenn- und Kraftstoffe - Teil 1: Überfüllsicherungen
mit Schließeinrichtung

This European Standard was approved by CEN on 8 April 2016.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Requirements	6
4.1 General.....	6
4.1.1 Vapour tight	6
4.1.2 Non vapour tight.....	6
4.2 Effectiveness	6
4.2.1 General.....	6
4.2.2 Operational flow range and operational pressure range	6
4.2.3 Pressure surge range.....	7
4.2.4 Closure level range	7
4.2.5 Operational leak rate.....	7
4.3 Construction.....	7
4.4 Durability against wear from closure cycles.....	8
5 Test methods	8
5.1 General.....	8
5.2 Chemical suitability test	8
5.3 Temperature range test.....	8
5.4 Component pressure tests	9
5.5 Function tests	9
5.5.1 General.....	9
5.5.2 Final closure level test.....	9
5.5.3 Operational leak rate after final closure level test	10
5.5.4 Pressure surge test.....	10
5.6 Mechanical strength.....	10
5.7 Vapour tight – Non vapour tight test procedure	11
5.7.1 Vapour tight test procedure	11
5.7.2 Non vapour tight test procedure	11
5.8 Durability test.....	11
6 Assessment and verification of constancy of performance - AVCP	11
6.1 General.....	11
6.2 Type testing.....	11
6.2.1 General.....	11
6.2.2 Test samples, testing and compliance criteria	12
6.2.3 Test reports.....	13
6.2.4 Shared other party results.....	13
6.2.5 Cascading determination documentation of the product type testing results	14
6.3 Factory production control (FPC)	15
6.3.1 General.....	15
6.3.2 Requirements	15
6.3.3 Product specific requirements.....	18
6.3.4 Procedure for modifications	18

6.3.5	One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity	19
7	Classification	19
8	Marking, labelling and packaging.....	20
8.1	Identification.....	20
8.2	Instruction plate	20
8.3	Technical documentation	20
Annex A (normative)	Equipment for use in a hazardous area	21
A.1	General	21
A.2	Avoidance or reduction of ignition sources	21
A.3	Electrical equipment	21
A.4	Non-electrical equipment.....	21
A.5	Electrostatic discharge	21
Annex B (normative)	Test rigs layouts.....	22
Annex C (normative)	Additional information on diameter and flow rate	23
Annex D (informative)	Environmental checklist.....	24
Annex ZA (informative)	Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation.....	26
ZA.1	Scope and relevant characteristics	26
ZA.2	Procedure for AVCP of overfill prevention devices with closure device	27
ZA.2.1	System(s) of AVCP.....	27
ZA.2.2	Declaration of performance (DoP)	28
ZA.2.2.1	General	28
ZA.2.2.2	Content	28
ZA.2.2.3	Example of DoP	29
ZA.3	CE marking and labelling.....	31
Annex ZB (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2014/34/EU.....	33
Bibliography		34

European foreword

This document (EN 13616-1:2016) has been prepared by Technical Committee CEN/TC 393 "Equipment for storage tanks and for filling stations", the secretariat of which is held by DIN.

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 December 2016, and conflicting national standards shall be withdrawn at the latest by 2017-07-11.

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, together with EN 13616-2 and EN 16657, supersedes EN 13616:2004.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA or ZB, which is an integral part of this document.

According to EN 13616:2004, the following fundamental changes are given:

- splitting of EN 13616:2004; the new EN 13616, under the general title *Overfill prevention devices for static tanks for liquid fuels*, will consist of the following parts:
 - *Part 1: Overfill prevention devices with closure device;*
 - *Part 2: Overfill prevention devices without closure device.*
- parameters regarding explosion safety updated;
- informative Annex C concerning environmental aspects added;
- the requirements for overfill prevention devices without closure device on static tanks are in EN 13616-2;
- the requirements for overfill prevention devices without closure device on the tank vehicle were moved to EN 16657, *Tanks for the transport of dangerous goods — Transport tank equipment for overfill prevention devices for static tanks*.

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.

1 Scope

This European Standard contains requirements, test and assessment methods, marking, labelling and packaging applicable to overfill prevention devices with closure device. The devices are usually composed by

- sensor,
- evaluation device,
- closure device.

Overfill prevention devices intended to be used in/with underground and/or above ground, non-pressurized, static tanks designed for liquid fuels.

NOTE Liquid fuel means liquids for internal combustion engines, heating/cooling boilers and generators.

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 1127-1:2011, *Explosive atmospheres — Explosion prevention and protection — Part 1: Basic concepts and methodology*

EN 14879-4:2007, *Organic coating systems and linings for protection of industrial apparatus and plants against corrosion caused by aggressive media — Part 4: Linings on metallic components*

EN 60079-14, *Explosive atmospheres — Part 14: Electrical installations design, selection and erection (IEC 60079-14)*

EN ISO 80079-36:2016, *Explosive atmospheres — Part 36: Non-electrical equipment for explosive atmospheres — Basic method and requirements (ISO 80079-36:2016)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

overfill prevention device

device installed in a supply system, which automatically stops the delivery, preventing the liquid level in the tank exceeding a final closure level

3.2

initial closure level

lower level than final closure level at which the overfill prevention device stops the liquid flow and which level it can be reopened

3.3

final closure level

level at which the overfill prevention device prevents any further product, apart from a permissible leak rate, entering the storage tank