



SLOVENSKI STANDARD
oSIST prEN 16447:2025
01-julij-2025

Eksplodzijsko izolacijski ventili

Explosion isolation flap valves

Rückschlagklappen zur explosionstechnischen Entkopplung

Vannes à clapet d'isolation d'explosion

Ta slovenski standard je istoveten z: prEN 16447

ICS:

13.230	Varstvo pred eksplozijo	Explosion protection
23.060.50	Blokirni ventili	Check valves

oSIST prEN 16447:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 16447

May 2025

ICS 13.230

Will supersede EN 16447:2014

English Version

Explosion isolation flap valves

Vannes à clapet d'isolation d'explosion

Rückschlagklappen zur explosionstechnischen
Entkopplung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 305.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	3
1 Scope.....	4
2 Normative references.....	5
3 Terms and definitions	5
4 Explosion isolation flap valves.....	6
4.1 General.....	6
4.2 Essential requirements.....	7
5 Experimental testing of efficacy and mechanical integrity	7
5.1 General.....	7
5.2 Test procedures.....	8
5.3 Testing report	14
6 Environmental aspects	15
7 Information for use	15
8 Marking	16
Annex A (informative) Example pressure time curve describing explosion phenomena occurring with dust explosions in a connected vessel – flap valve configuration.....	18
Annex B (informative) Examples of controlled flap valve release mechanisms for the alternative method used in testing with pull mode situations	20
Annex C (informative) Examples of parameters that may influence the minimum and maximum installation distance in functional testing	25
Annex D (informative) Guidance to determine flow situation (pull/push) in multi-fan configurations.....	26
Annex E (informative) Significant changes between this document and EN 16447:2014.....	27
Annex ZA (informative) Relationship between this European Standard and the essential health and safety requirements of Directive 2014/34/EU aimed to be covered	29
Bibliography	32

European foreword

This document (prEN 16447:2025) has been prepared by Technical Committee CEN/TC 305 “Potentially explosive atmospheres - Explosion prevention and protection”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 16447:2014.

The significant changes between this document and EN 16447:2014 are given in Annex E.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 16447:2025](https://standards.iteh.ai/catalog/standards/sist/89357a4f-905d-46b2-815b-51bfddec27fc/osist-pren-16447-2025)

<https://standards.iteh.ai/catalog/standards/sist/89357a4f-905d-46b2-815b-51bfddec27fc/osist-pren-16447-2025>