SLOVENSKI STANDARD
SIST EN ISO 21013-3:2026

01-december-2026

Nadomešča:
SIST EN ISO 21013-3:2016

Kriogene posode - Oprema za razbremenitev tlaka za kriogeno območje - 3. del: Določanje velikosti in pretoka (ISO 21013-3:2026)

Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 3: Sizing and capacity determination (ISO 21013-3:2026)

Kryo-Behälter - Druckentlastungseinrichtungen für den Kryo-Betrieb - Teil 3: Bestimmung von Größe und Durchfluss (ISO 21013-3:2026)

Récipients cryogéniques - Dispositifs de sécurité pour le service cryogénique - Partie 3: Détermination de la taille et du volume (ISO 21013-3:2026)

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Ta slovenski standard je istoveten z: **EN ISO 21013-3:2026**

ICS:

13.240	Varstvo pred previsokim tlakom	Protection against excessive pressure
23.020.40	Proti mrazu odporne posode (kriogenske posode)	Cryogenic vessels

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 21013-3

October 2026

ICS 23.020.40

Supersedes EN ISO 21013-3:2016

English Version

Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 3: Sizing and capacity determination (ISO 21013-3:2026)

Récipients cryogéniques - Dispositifs de sécurité pour le service cryogénique - Partie 3: Détermination de la taille et du volume (ISO 21013-3:2026)

Kryo-Behälter - Druckentlastungseinrichtungen für den Kryo-Betrieb - Teil 3: Bestimmung von Größe und Durchfluss (ISO 21013-3:2026)

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SIST EN ISO 21013-3:2026

Contents

Page

European foreword **3**

Annex ZA (informative) **Relationship between this European Standard and the essential requirements of Directive 2014/68/EU aimed to be covered** **4**

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European foreword

This document (EN ISO 21013-3:2026) has been prepared by Technical Committee ISO/TC 220 "Cryogenic vessels" in collaboration with Technical Committee CEN/TC 268 “Cryogenic vessels and specific hydrogen technologies applications” 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of an identical text or by endorsement, at the latest by April 2027, and conflicting national standards shall be withdrawn at the latest by April 2027.

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 ISO 21013-3:2016.

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.

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Annex ZA
(informative)

Relationship between this European Standard and the essential requirements of Directive 2014/68/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/601 to provide one voluntary means of conforming to essential requirements of Directive 2014/68/EU on the harmonization of the laws of the Member States relating to the making available on the market of pressure equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1— Correspondence between this European Standard and Annex I of Directive 2014/68/EU

Essential Requirements of Directive 2014/68/EU (Pressure Equipment Directive)	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
2.10	4, 5	Protection against exceeding the allowable limits of pressure equipment for safety accessories (2.10 b) e.g. alarms and indicators are excluded)
2.11.2	6, 7	Pressure limiting devices
2.12	4.3	External fire only for suitable accessories and not for pressure equipment design

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International Standard

ISO 21013-3

Cryogenic vessels — Pressure-relief accessories for cryogenic service —

Part 3: Sizing and capacity determination

Récipients cryogéniques — Dispositifs de sécurité pour le service cryogénique —

Partie 3: Détermination de la taille et du volume

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Third edition
2026-09

Reference number
ISO 21013-3:2026(en)

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SIST EN ISO 21013-3:2026

Contents

Page

Foreword ..... **v**

1 Scope **1**

2 Normative references **2**

3 Terms, definitions and symbols **2**
3.1 Symbols 2

4 Calculation of the total quantity of heat transferred per unit time from the hot wall (outer jacket) to the cold wall (inner vessel) **6**
4.1 General 6
4.2 Under conditions other than fire 7
4.2.1 Vacuum-insulated vessels under normal vacuum 7
4.2.2 Pressure build-up device 7
4.2.3 Vacuum-insulated vessels in the case of loss of vacuum and non-vacuum insulated vessels 8
4.2.4 Supports and piping 9
4.3 Under fire conditions 10
4.3.1 Insulation system remains fully or partially in place during fire conditions 10
4.3.2 Insulation system does not remain in place during fire conditions 10
4.4 Air or nitrogen condensation 11
4.4.1 General 11
4.4.2 Loss of vacuum with air and nitrogen 11
4.4.3 Fire with loss of vacuum with air or nitrogen 11
4.5 Heat transfer per unit time (watts) 12
4.5.1 General 12
4.5.2 Normal operation 12
4.5.3 Pressure build up regulator fully open 13
4.5.4 Loss of vacuum condition 13
4.5.5 Fire condition with loss of vacuum, vacuum jacket, and insulation fully or partially in place 14
4.5.6 Fire condition with loss of vacuum, insulation not in place 14
4.5.7 Total heat transfer rate 14

5 Calculation of the mass flow to be relieved by pressure relief devices **14**
5.1 Relieving pressure, *P*, less than the critical pressure 14
5.2 Relieving pressure, *P*, equal to or greater than the critical pressure 15
5.3 Example 15

6 Piping for pressure relief devices **16**
6.1 Pressure drop 16
6.1.1 General 16
6.1.2 Relief valves 16
6.1.3 Bursting discs 16
6.2 Back pressure consideration 17
6.3 Heat transfer 17

7 Sizing of pressure relief devices **18**
7.1 General 18
7.2 Sizing of pressure relief valves 18
7.2.1 Discharge capacity 18
7.2.2 Determination of critical vs. subcritical flow for gases 19
7.2.3 Critical flow 19
7.2.4 Subcritical flow 19
7.2.5 Recommended analysis method 20
7.2.6 Example 22
7.3 Sizing of bursting discs 27
7.3.1 Discharge capacity 27
7.3.2 Determination of critical vs. subcritical flow for gases 28

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SIST EN ISO 21013-3:2026

7.3.3 Critical flow 28
7.3.4 Subcritical flow 28
7.3.5 Recommended analysis method 29
7.3.6 Example 32
Annex A (informative) **Cryostats** **36**
Bibliography **37**

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This third edition cancels and replaces the second edition (ISO 21013-3:2016), which has been technically revised.

The main changes are as follows:

— precision added on the total outer surface area of the pipe network containing flow of fluid;

— inclusion of the symbol of coefficient of discharge;

— precision added on the overall convective heat transfer coefficient of the ambient air vaporizer,

— additional information added on the fire case and PBU conditions;

— correction of the molar mass in kg/kmol and modification of Formulae (32) and (43);

— supplementary information added on cryostats.

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