

<b>STN</b>	<b>Ropný, petrochemický a plynárenský priemysel Plynové tesniace systémy pre axiálne, odstredivé a rotačné skrutkové kompresory a expandéry (ISO 6368: 2021)</b>	<b>STN EN ISO 6368</b>  45 1622
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Petroleum, petrochemical and natural gas industries - Dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders (ISO 6368:2021)

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. 04/22

Obsahuje: EN ISO 6368:2021, ISO 6368:2021

Oznámením tejto normy sa ruší  
STN EN ISO 10438-4 (45 1433) z mája 2008

**134607**

EUROPEAN STANDARD

EN ISO 6368

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2021

ICS 75.180.20

Supersedes EN ISO 10438-4:2007

English Version

## Petroleum, petrochemical and natural gas industries - Dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders (ISO 6368:2021)

Industries du pétrole, de la pétrochimie et du gaz naturel - Systèmes d'étanchéité au gaz pour les compresseurs axiaux, centrifuges, à vis et les turbodétendeurs (ISO 6368:2021)

Erdöl-, petrochemische und Erdgasindustrie - Trockene Gasdichtungssysteme für Axial-, Radial- und Schraubenverdichter und Expander (ISO 6368:2021)

This European Standard was approved by CEN on 5 November 2021.

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

**EN ISO 6368:2021 (E)**

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## **European foreword**

This document (EN ISO 6368:2021) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" in collaboration with Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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 10438-4:2007.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, 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, Turkey and the United Kingdom.

## **Endorsement notice**

The text of ISO 6368:2021 has been approved by CEN as EN ISO 6368:2021 without any modification.

# INTERNATIONAL STANDARD

# ISO 6368

First edition  
2021-11

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## **Petroleum, petrochemical and natural gas industries — Dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders**

*Industries du pétrole, de la pétrochimie et du gaz naturel — Systèmes  
d'étanchéité au gaz pour les compresseurs axiaux, centrifuges, à vis et  
les turbodétendeurs*



Reference number  
ISO 6368:2021(E)

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Published in Switzerland

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## ISO 6368:2021(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 6, *Processing equipment and systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 6368 cancels and replaces ISO 10438-4:2007, which has been technically revised.

This document supplements API Std 692, 1<sup>st</sup> edition (2018).

The technical requirements of ISO 10438-4 and API Std 614 Part 4 used to be identical. In the meantime, API Std 614 Part 4 has been technically revised and published as API Std 692, 1<sup>st</sup> edition (2018). The purpose of this document is to bring it up to date, by referencing the current edition of API Std 692 and including supplementary content.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).



## **Introduction**

Users of this document are informed that further or differing requirements can be needed for individual applications. This document is not intended to inhibit a vendor from offering, or the purchaser accepting, alternative equipment or engineering solutions for the individual application. This can be particularly applicable where there is innovative or developing technology. Where an alternative is offered, the vendor needs to identify any variations from this document and provide details.



# Petroleum, petrochemical and natural gas industries — Dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders

## 1 Scope

This document is applicable to dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders as described in ISO 10439 (all parts), ISO 10440-1 and ISO 10440-2. Although intended for use primarily in oil refineries, it is also applicable to petrochemical facilities, gas plants, liquefied natural gas (LNG) facilities and oil and gas production facilities. The information provided is designed to aid in the selection of the system that is most appropriate for the risks and circumstances involved in various installations.

This document does not apply to other types of shaft seals such as clearance seals, restrictive ring seals or oil seals.

This document is a supplement to API Std 692, 1<sup>st</sup> edition (2018), the requirements of which are applicable with the exceptions specified in this document.

## 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.

ISO 4126 (all parts), *Safety devices for protection against excessive pressure*

ISO 10434, *Bolted bonnet steel gate valves for the petroleum, petrochemical and allied industries*

ISO 10438-1, *Petroleum, petrochemical and natural gas industries — Lubrication, shaft-sealing and control-oil systems and auxiliaries — Part 1: General requirements*

ISO 10438-2, *Petroleum, petrochemical and natural gas industries — Lubrication, shaft-sealing and control-oil systems and auxiliaries — Part 2: Special-purpose oil systems*

ISO 10438-3, *Petroleum, petrochemical and natural gas industries — Lubrication, shaft-sealing and control-oil systems and auxiliaries — Part 3: General-purpose oil systems*

ISO 10439-2, *Petroleum, petrochemical and natural gas industries — Axial and centrifugal compressors and expander-compressors — Part 2: Non-integrally geared centrifugal and axial compressors*

ISO 10439-3, *Petroleum, petrochemical and natural gas industries — Axial and centrifugal compressors and expander-compressors — Part 3: Integrally geared centrifugal compressors*

ISO 10440-1, *Petroleum, petrochemical and natural gas industries — Rotary-type positive-displacement compressors — Part 1: Process compressors*

ISO 10497, *Testing of valves — Fire type-testing requirements*

ISO 13706, *Petroleum, petrochemical and natural gas industries — Air-cooled heat exchangers*

ISO 15156 (all parts), *Petroleum and natural gas industries — Materials for use in H<sub>2</sub>S-containing environments in oil and gas production*

ISO 15761, *Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries*

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ISO 16812, *Petroleum, petrochemical and natural gas industries — Shell-and-tube heat exchangers*

ISO 17292, *Metal ball valves for petroleum, petrochemical and allied industries*

ISO 17945, *Petroleum, petrochemical and natural gas industries — Metallic materials resistant to sulfide stress cracking in corrosive petroleum refining environments*

ISO 23251, *Petroleum, petrochemical and natural gas industries — Pressure-relieving and depressuring systems*

API Std 692, 1<sup>st</sup> edition (2018), *Dry Gas Sealing Systems for Axial, Centrifugal, and Rotary Screw Compressors and Expanders*

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