



SLOVENSKI STANDARD

SIST ISO 16589-3:2014

01-marec-2014

Nadomešča:
SIST ISO 16589-3:2002

**Fluidna tehnika - Ustnične gredne tesnilke s termoplastičnimi tesnilnimi elementi -
3. del: Skladiščenje, ravnanje z njimi in vgradnja**

Rotary shaft lip-type seals incorporating thermoplastic sealing elements - Part 3:
Storage, handling and installation

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Bagues d'étanchéité à lèvres pour arbres tournants incorporant des éléments
d'étanchéité thermoplastiques - Partie 3: Stockage, manipulation et montage

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Ta slovenski standard je istoveten z: ISO 16589-3:2011

ICS:

23.100.60	Filtri, tesnila in onesnaževanje tekočin	Filters, seals and contamination of fluids
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SIST ISO 16589-3:2014

en,fr

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INTERNATIONAL
STANDARD

ISO
16589-3

Second edition
2011-04-15

**Rotary shaft lip-type seals incorporating
thermoplastic sealing elements —**

**Part 3:
Storage, handling and installation**

*Bagues d'étanchéité à lèvres pour arbres tournants incorporant des
éléments d'étanchéité thermoplastiques —*

Partie 3: Stockage, manipulation et montage

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ISO 16589-3:2011(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 16589-3 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 7, *Sealing devices*.

This second edition cancels and replaces the first edition (ISO 16589-3:2001), which has been technically revised.

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ISO 16589 consists of the following parts, under the general title *Rotary shaft lip-type seals incorporating thermoplastic sealing elements*:

- SIST ISO 16589-3:2014
<https://standards.iteh.ai/catalog/standards/sist/b460e077-4cfd-4128-9694-3716b4b01024/sist-iso-16589-3-2014>
- *Part 1: Nominal dimensions and tolerances*
 - *Part 2: Vocabulary*
 - *Part 3: Storage, handling and installation*
 - *Part 4: Performance test procedures*
 - *Part 5: Identification of visual imperfections*

Introduction

Rotary shaft lip-type seals are used to retain fluid in equipment where the differential pressure is relatively low. Typically the shaft rotates and the housing is stationary, although in some applications the shaft is stationary and the housing rotates.

Dynamic sealing is normally the result of a designed interference fit between the shaft and a flexible element incorporated in the seal.

Similarly, a designed interference fit between the outside diameter of the seal and the diameter of the housing bore retains the seal and prevents static leakage.

Careful storage and handling and proper installation of all seals are necessary to avoid hazards, both prior to and during installation, which would adversely affect service life.

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Rotary shaft lip-type seals incorporating thermoplastic sealing elements —

Part 3: Storage, handling and installation

1 Scope

ISO 16589 specifies seals utilizing sealing elements manufactured from suitably formulated compounds, based on thermoplastic materials, such as polytetrafluoroethylene (PTFE). They are considered suitable for use under low pressure conditions.

This part of ISO 16589 gives users of lip-type seals guidance on the careful storage and handling and proper installation of rotary shaft lip-type seals; attention is drawn to the hazards involved and ways of avoiding them are pointed out.

NOTE ISO 16589 is complementary to ISO 6194, which covers seals incorporating elastomeric sealing elements.

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2 Normative references

[SIST ISO 16589-3:2014](https://standards.iteh.ai/catalog/standards/sist/b460e077-4cfd-4128-9694-371b04001024/iso-16589-3-2014)

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The following referenced documents are indispensable for the application 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 2230, *Rubber products — Guidelines for storage*

ISO 5598, *Fluid power systems and components — Vocabulary*

ISO 16589-1, *Rotary shaft lip-type seals incorporating thermoplastic sealing elements — Part 1: Nominal dimensions and tolerances*

ISO 16589-2, *Rotary shaft lip-type seals incorporating thermoplastic sealing elements — Part 2: Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5598 and ISO 16589-2 apply.

4 General storage

4.1 Rotary shaft lip-type seals need to be stored with caution because any damage to them can adversely affect their life and subsequently the service life of bearings and/or other costly machined parts. They shall be stored in accordance with ISO 2230; in addition, the requirements given in 4.2 to 4.6 apply.

4.2 Seals shall be protected from insects and rodents, some of which thrive on rubber products.