

### SLOVENSKI STANDARD SIST ISO 16589-3:2002

01-julij-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

### iTeh STANDARD PREVIEW

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

SIST ISO 16589-3:2002

Ta slovenski standard je istoveten z 1023/si SO 16589-3;2001

ICS:

23.100.60 Filtri, tesnila in

onesnaževanje tekočin

Filters, seals and contamination of fluids

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en

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# INTERNATIONAL STANDARD

ISO 16589-3

First edition 2001-12-15

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

Part 3: Storage, handling and installation

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

Partie 3: Stockage, manipulation et montage

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Reference number ISO 16589-3:2001(E)

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#### **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 3.

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 part of ISO 16589 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.

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

- Part 1: Nominal dimensions and tolerances

Part 2: Vocabulary

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- 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, 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 describes seals utilizing sealing elements manufactured from suitably formulated compounds, based on thermoplastic materials, such as polytetrafluoroethylene (PTFE).

NOTE ISO 16589 is complementary to ISO 6194 which covers elastomeric seals.

This part of ISO 16589 gives users guidance on the careful storage, handling and proper installation of the seals. Attention is drawn to the hazards involved and to ways of avoiding them.

#### 2 Normative references

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The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 16589. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 16589 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards/sist-iso-16589-3-2002

ISO 5598:1985, Fluid power systems and components — Vocabulary

ISO 16589-1:2001, Rotary shaft lip-type seals incorporating thermoplastic sealing elements — Part 1: Nominal dimensions and tolerances

ISO 16589-2:2001, Rotary shaft lip-type seals incorporating thermoplastic sealing elements — Part 2: Vocabulary

#### 3 Terms and definitions

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

#### 4 General storage

- **4.1** Rotary shaft lip-type seals shall be stored with caution because the service life of bearings and/or other costly machined parts may depend on how well the lip seal performs. Hazards which may be encountered include:
- temperature (see 4.2),
- humidity (see 4.2),
- radioactive materials (see 4.6),
- fumes (see 4.6),
- insects (see 4.7),

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