INTERNATIONAL STANDARD

ISO 3601-2

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Fluid power systems — O-rings —

Part 2:

Housing dimensions for general applications

Transmissions hydrauliques et pneumatiques — Joints toriques — Partie 2: Dimensions des logements pour applications générales



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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 Maison 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 confinitees 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 applying 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 3601-2 was prepared by Technical Committee ISO/TC 131, Fluid power systems, Subcommittee SC 7, Sealing devices.

ISO 3601 consists of the following parts, under the general title Fluid power systems — O-rings:

- Part 1: Inside diameters, cross-sections, tolerances and designation codes
- Part 2: Housing dimensions for general applications
- Part 3: Quality acceptance criteria
- Part 4: Anti-extrusion rings (back-up rings)
- INDER OF THE STATE Part 5: Suitability of elastomeric materials for industrial application

power systems, power is transmitted and controlled th.
.closed circuit. To avoid leakage or to seal different chan.
.ces are used. O-rings are one type of sealing devices. To se
.rropriate housing for the application.

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Fluid power systems — O-rings —

Part 2:

Housing dimensions for general applications

1 Scope

This part of ISO 3601 specifies the housing (gland) dimensions for class A O-rings for general industrial applications conforming to ISO 3601-1, as well as housing dimensions for class B O-rings used on selected metric-dimensioned hardware, e.g. fluid power cylinder bores and piston rods. These O-rings are for use in general hydraulic and pneumatic applications without and with anti-extrusion rings (back-up rings). The dimensions of the O-rings (d_1 and d_2) size codes (SC) and tolerances conform to ISO 3601-1.

Housing dimensions for the O-rings intended for aerospace applications that are specified in ISO 3601-1 are addressed in informative Annex A.

NOTE 1 It is expected that O-ring housing dimensions for special applications be agreed upon between the O-ring manufacturer and the user.

NOTE 2 The terms "housing", "groove" and "glang" are interchangeable, and their usage is a matter of local convenience. In this part of ISO 3601, the term "housing" is used exclusively.

2 Normative references

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 3601-1:2008, Fluid power systems — O-rings — Part 1: Inside diameters, cross-sections, tolerances and designation codes

ISO 4287:1997, Geometrical Product Specifications (GPS) — Surface texture. Profile method — Terms, definitions and surface texture parameters

ISO 5598, Fluid power systems and components — Vocabulary

ISO 8015, Technical drawings — Fundamental tolerancing principle

3 Terms and definitions

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

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