Fifth edition 2012-03-01

Fluid power systems — O-rings —

Part 1:

d'identification dimensionnelle

Inside diameters, cross-sections, tolerances and designation codes

Transmissions hydrauliques et pneumatiques — Joints toriques — Partie 1: Diamètres intérieurs, sections, tolérances et codes



Reference number ISO 3601-1:2012(E)

ISO 3601-1:2012(E)

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Published in Switzerland

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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 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 3601-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 7, *Sealing devices*.

This fifth edition cancels and replaces the fourth edition (ISO 3601-1:2008), which has been technically revised. It also incorporates the Technical Corrigenda ISO 3601-1:2008/Cor 1:2009 and ISO 3601-1:2008/Cor 2:2009.

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)
- Part 5: Suitability of elastomeric materials for industrial applications

Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. To avoid leakage or to seal different chambers of a component from each other, sealing devices are used. O-rings are one type of sealing device.