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## Fluid power systems — O-rings — Part 3: Quality acceptance criteria

*Transmissions hydrauliques et pneumatiques — Joints toriques —  
Partie 3: Critères de qualité*



Reference number  
ISO 3601-3:2005(E)

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Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
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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 3601-3 was prepared jointly by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*, and by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 7, *Sealing devices*.

This second edition cancels and replaces the first edition (ISO 3601-3:1987), which has been technically revised.

This corrected version of ISO 3601-1:2005 incorporates the following corrections:

- Table 2, right hand column title changed from “**Grade N O-rings Cross-section  $d_2$** ” to “**Grade S O-rings Cross-section  $d_2$** ”;
- Table 3, right hand column title changed from “**Grade N O-rings Cross-section  $d_2$** ” to “**Grade CS O-rings Cross-section  $d_2$** ”;

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

- *Part 1: Inside diameters, cross-sections, tolerances and size identification code*
- *Part 3: Quality acceptance criteria*
- *Part 5: Suitability of elastomeric materials for industrial applications*

The following parts are in preparation:

- *Part 2: Housing dimensions for general applications*
- *Part 4: Anti-extrusion devices (back-up rings)*

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## Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. Components must be designed to meet these requirements under varying conditions. Testing of components to meet performance requirement provides users a basis of assurance for determining design application and for checking component compliance with their stated requirements.