

Aerospace fluid systems — O-rings, inch series: Inside diameters and cross sections, tolerances and size-identification codes —

Part 2: Standard tolerances for non-hydraulic systems

ICS 49.080

Confirmed November 2010

National foreword

This British Standard is the UK implementation of ISO 16031-2:2003.

The UK participation in its preparation was entrusted to Technical Committee ACE/69, Aerospace hydraulic systems, fluids and components.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2008

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ISBN 978 0 580 53199 6

Amendments/corrigenda issued since publication

Date	Comments

INTERNATIONAL STANDARD

ISO
16031-2

First edition
2003-09-01

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Part 2: Standard tolerances for non-hydraulic systems

Systèmes aéropaciaux de fluides — Joints toriques, série en inches: diamètres intérieurs et sections, tolérances et codes d'identification dimensionnelle —

Partie 2: Tolérances standards pour systèmes non hydrauliques



Reference number
ISO 16031-2:2003(E)

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Foreword

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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 16031-2 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

ISO 16031 consists of the following parts, under the general title *Aerospace fluid systems — O-rings, inch series: Inside diameters and cross sections, tolerances and size-identification codes*:

- *Part 1: Close tolerances for hydraulic systems*
- *Part 2: Standard tolerances for non-hydraulic systems*

Introduction

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