INTERNATIONAL STANDARD

**ISO 7206-1**

Third edition
2008-04-01

# Implants for surgery — Partial and total hip joint prostheses —

## Part 1: Classification and designation of dimensions

*Implants chirurgicaux — Prothèses partielles et totales de l'articulation de la hanche —*

*Partie 1: Classification et désignation des dimensions*

Reference number
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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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 7206-1 was prepared by Technical Committee ISO/TC 150, *Implants for surgery*, Subcommittee SC 4, *Bone and joint replacements*.

This third edition cancels and replaces the second edition (ISO 7206-1:1995), which has been technically revised.

ISO 7206 consists of the following parts, under the general title *Implants for surgery — Partial and total hip joint prostheses*:

— *Part 1: Classification and designation of dimensions*

— *Part 2: Articulating surfaces made of metallic, ceramic and plastics materials*

— *Part 4: Determination of endurance properties and performance of stemmed femoral components*

— *Part 6: Determination of endurance properties of head and neck region of stemmed femoral components*

— *Part 8: Methods of determining endurance performance of stemmed femoral components*

— *Part 10: Determination of resistance to static load of modular femoral heads*



 

## Introduction

Partial and total hip joint prostheses are designed to transmit load and allow movement under high stress conditions. Many different designs of hip joint prosthesis are used around the world and this first part of a series of test standards gives a comprehensive description of the most common hip joint prostheses by a detailed classification system. Dimensions of selected types of hip joint prosthesis will be the basis for all the test standards in this series.

# Implants for surgery — Partial and total hip joint prostheses —

# Part 1:
# Classification and designation of dimensions



## 1 Scope

This part of ISO 7206 provides a means of classification and standardizes the designation of dimensions for partial and total hip joint prostheses.

## 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 21534, *Non-active surgical implants — Joint replacement implants — Particular requirements*

ISO 21535, *Non-active surgical implants — Joint replacement implants — Specific requirements for hip-joint replacement implants*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21534 and ISO 21535, together with the following, apply.

**3.1**
**bipolar femoral component**
component(s) of a hip joint replacement consisting of a concave surface insert to articulate with a femoral head and a convex surface to articulate with the biological acetabulum

**3.2**
**bone cement**
acrylic resin cements used for fixation of implant components whether with radio-opaque or non-radio-opaque properties and supplied as units containing pre-measured amounts of sterile powder and of sterile liquid in forms suitable for mixing at the time of implantation

**3.3**
**cemented hip joint replacement**
component(s) of a hip joint replacement intended to be fixed to the bone by bone cement

**3.4**
**cementless hip joint replacement**
component(s) of a hip joint replacement intended to be fixed to the bone either by pressfit and/or bone ingrowth into the components' surface structure