

Hydraulic fluid power — Dimensions and identification code for mounting flanges and shaft ends of displacement pumps and motors —

Part 1: Inch series shown in metric units

ICS 23.100.99;

National foreword

This British Standard reproduces verbatim ISO 3019-1:2001 and implements it as the UK national standard. BS ISO 3019-1: 2001 and BS ISO 3019-2: 2001 supersede BS 6276: 1987 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/18, Fluid power systems and components which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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This British Standard, having been prepared under the direction of the Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 August 2001

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 12, a blank page and a back cover.

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**Hydraulic fluid power — Dimensions and
identification code for mounting flanges
and shaft ends of displacement pumps and
motors —**

**Part 1:
Inch series shown in metric units**

*Transmissions hydrauliques — Dimensions et code d'identification des
flasques de montage et des bouts d'arbres des pompes volumétriques et
moteurs —*

Partie 1: Conversion en unités métriques de la série en inches



Reference number
ISO 3019-1:2001(E)

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 3.

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 part of ISO 3019 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3019-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 2, *Pumps, motors and integral transmissions*.

This second edition cancels and replaces the first edition (ISO 3019-1:1975), which has been technically revised.

ISO 3019 consists of the following parts, under the general title *Hydraulic fluid power — Dimensions and identification code for mounting flanges and shaft ends of displacement pumps and motors*:

— *Part 1: Inch series shown in metric units*

— *Part 2: Metric series*

Annex A forms a normative part of this part of ISO 3019.

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Pumps convert mechanical power into hydraulic fluid power, while motors convert hydraulic fluid power into mechanical power.

This part of ISO 3019 provides composite dimension reference and identification codes for both pumps and motors, simplified dimensional interchangeability for their flanges and shafts, and preferred sizes and dimensions for new designs.