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

Part 2:
Metric series

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

Partie 2: Série métrique

Reference number
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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.

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

This third edition cancels and replaces the second edition (ISO 3019-2:1986) and ISO 3019-3:1988, which have 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 of this part of ISO 3019 is for information only.

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

— a minimum number of flanges and shaft sizes to cover probable present and future requirements (short and long flange spigot options are included),

— dimensional interchangeability of flange and shaft end mountings,

— flange and spigot dimensions allowing for recommended sealing arrangements when sealing is required between a flange and its mating housing (see annex A), and

— identification codes for flanges and shaft ends that can be used separately or in combination.