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Second edition
2023-03

Hydraulic fluid power — Dimensions and requirements of quick-action couplings, flush-face type

Transmissions hydrauliques — Dimensions et exigences des raccords rapides de type à face plane



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

This second edition cancels and replaces the first edition (ISO 16028:1999), which has been technically revised. It also incorporates the Amendment ISO 16028:1999/Amd.1:2006.

The main changes are as follows:

- the normative references ([Clause 2](#)) have been updated;
- size 31,5, size 38 and size 51 have been added to [Table 1](#) and [Table 2](#);
- [Figure 1](#) has been updated;
- the performance requirements have been updated ([5.2](#) to [5.6](#));
- a new [Clause 6](#), Marking, has been added;
- the title of ISO 16028 has been deleted from the identification statement ([Clause 7](#)).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Quick-action couplings are used to quickly join or separate fluid conductor lines, without the use of tools or special devices.