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Second edition
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Hydraulic fluid power — Four-screw, one-piece square flange connections for use at pressures of 42 MPa, DN 25 to 80

*Transmissions hydrauliques — Brides de raccordement carrées
monobloc à quatre vis pour des pressions d'utilisation de 42 MPa,
DN 25 à 80*



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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).

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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 6164:1994), which has been technically revised.

The following are the main changes made since the previous edition:

- The 25 MPa flange series have been removed from the document due to same envelope dimensions versus the 40 MPa series.
- The sizes DN 10 to DN 19 have been removed from the document. These sizes are typically covered by tube fittings rather than flanges.
- The working pressure was increased from 40 MPa to 42 MPa to be in line with common hose working pressures.
- The design factor from 2,5 was increased to 4 including verification testing.

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Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Components are interconnected through their ports and associated fluid conductor connector ends.