Second edition
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Hydraulic fluid power — Flange connections with split or one-piece flange clamps and metric or inch screws —

Part 2:
Flange connectors, ports and mounting surfaces for use at a pressure of 42 MPa (420 bar), DN 13 to DN 76

Transmissions hydrauliques — Raccordements à bride avec demi-brides ou bride monobloc et vis métriques ou en inches — Partie 2: Brides, orifices et surfaces de montage pour utilisation à une pression de 42 MPa (420 bar), DN 13 à DN 76

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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 6162-2 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 6162-2:2002), which has been technically revised. In this second edition, property class 8.8 screws in accordance with ISO 898-1 have been deleted to avoid the potential problem of a user using these screws in an application that requires screws conforming to the requirements of property class 10.9.

ISO 6162 consists of the following parts, under the general title *Hydraulic fluid power — Flange connections with split or one-piece flange clamps and metric or inch screws*:

— *Part 1: Flange connectors, ports and mounting surfaces for use at pressures of 3,5 MPa (35 bar) to 35 MPa (350 bar), DN 13 to DN 127*

— *Part 2: Flange connectors, ports and mounting surfaces for use at a pressure of 42 MPa (420 bar), DN 13 to DN 76*

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.