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Second edition  
2010-06-15

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## Connections for hydraulic fluid power and general use — Hose fittings —

### Part 1: Hose fittings with ISO 8434-3 O-ring face seal ends

*Raccordements pour transmissions hydrauliques et applications  
générales — Raccords de flexible —*

*Partie 1: Raccords de flexible avec embouts à joints faciaux toriques  
conformes à l'ISO 8434-3*



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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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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 12151-1 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 12151-1:1999), which has been technically revised.

ISO 12151 consists of the following parts, under the general title *Connections for hydraulic fluid power and general use — Hose fittings*:

- *Part 1: Hose fittings with ISO 8434-3 O-ring face seal ends*
- *Part 2: Hose fittings with ISO 8434-1 and ISO 8434-4 24° cone connector ends with O-rings*
- *Part 3: Hose fittings with ISO 6162-1 or ISO 6162-2 flange ends*
- *Part 4: Hose fittings with ISO 6149 metric stud ends*
- *Part 5: Hose fittings with ISO 8434-2 37° flared ends*
- *Part 6: Hose fittings with ISO 8434-6 60° cone ends*

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## Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. In general applications, the fluid can be conveyed under pressure.

Components are connected through their ports by stud ends on fluid conductor connectors to tubes/pipes or to hose fittings and hoses.