

Nederlandse norm

NEN-ISO 12151-5

(en)

Connections for hydraulic fluid power and
general use - Hose fittings - Part 5: Hose fittings
with ISO 8434-2 37° flared ends (ISO
12151-5:2007, IDT)

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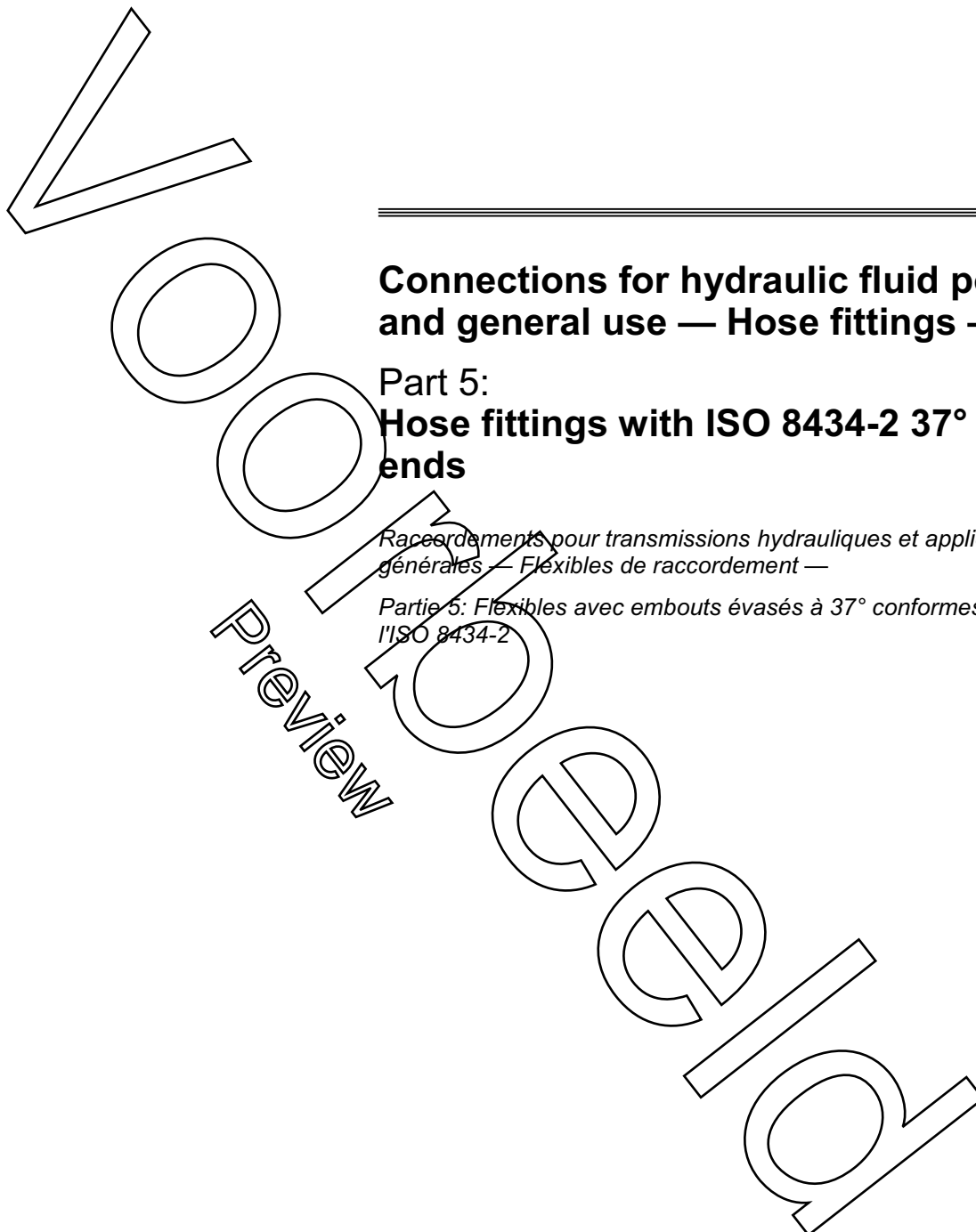
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**Connections for hydraulic fluid power
and general use — Hose fittings —**

**Part 5:
Hose fittings with ISO 8434-2 37° flared
ends**

*Raccordements pour transmissions hydrauliques et applications
générales — Flexibles de raccordement —*

*Partie 5: Flexibles avec embouts évasés à 37° conformes à
l'ISO 8434-2*



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Preview
 ISO 12151-5:2007

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 12151-5 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

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 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*

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 and pipes or to hose fittings and hoses.

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

Part 5: Hose fittings with ISO 8434-2 37° flared ends

1 Scope

This part of ISO 12151 specifies the general and dimensional requirements for the design and performance of 37° flared hose fittings in accordance with ISO 8434-2, made of carbon steel, for nominal hose sizes of 6,3 mm through 51 mm inclusive in accordance with ISO 4397.

NOTE 1 Other materials can be supplied as agreed between the manufacturer and user.

NOTE 2 See ISO 4038 and ISO 4039 for hose fittings used in hydraulic and pneumatic braking systems on road vehicles (as defined in the scope of ISO/TC 22).

These hose fittings (see Figure 1 for a typical example) are for use in hydraulic fluid power systems with hose that meets the requirements of the respective hose standards and in general applications with suitable hose.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 68-2, *ISO general-purpose screw threads — Basic profile — Part 2: Inch screw threads*

ISO 263, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0.06 to 6 in*

ISO 4397, *Fluid power systems and components — Connectors and associated components — Nominal outside diameters of tubes and nominal inside diameters of hoses*

ISO 4759-1:2000, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 5598, *Fluid power systems and components — Vocabulary*

ISO 6149-1, *Connections for hydraulic fluid power and general use — Ports and stud ends with ISO 261 metric threads and O-ring sealing — Part 1: Ports with truncated housing for O-ring seal*

ISO 6605, *Hydraulic fluid power — Hoses and hose assemblies — Test methods*

ISO 8434-2:—¹⁾, *Metallic tube connections for fluid power and general use — Part 2: 37° flared connectors*

1) To be published. Revision of ISO 8434-2:1994

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