

This is a preview of "ISO 17165-1:2007". [Click here to purchase the full version from the ANSI store.](#)

First edition
2007-10-15

Hydraulic fluid power — Hose assemblies —

Part 1: Dimensions and requirements

*Transmissions hydrauliques — Flexibles de raccordement —
Partie 1: Dimensions et exigences*



Reference number
ISO 17165-1:2007(E)

© ISO 2007

This is a preview of "ISO 17165-1:2007". [Click here to purchase the full version from the ANSI store.](#)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 17165-1:2007". Click here to purchase the full version from the ANSI store.

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Designation	3
5 Hose types, nominal inside diameters and maximum working pressures, and correspondence of hose sizes to tube sizes	5
6 Dimensions of hose and hose fittings	5
7 Overview of hose type, type of hydraulic fluid and temperature range	5
8 Summary of hose fitting end forms and key dimensions	6
9 Requirements for manufacturing instructions for hose assemblies	16
10 Tolerances on hose assembly length and rotational angle	16
11 Pressure drop of hose assemblies	16
12 Requirements and tests	17
13 Marking	17
14 Identification statement (reference to this part of ISO 17165).....	17
Annex A (informative) Maximum working pressures of hoses	18
Annex B (informative) Dimensions of steel tubes to be used in combination with hose types listed in Table A.1	20
Annex C (informative) Key dimensions of the hose types covered in ISO 17165-1	21
Bibliography	23

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 17165-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

ISO 17165 consists of the following parts, under the general title *Hydraulic fluid power — Hose assemblies*:

- *Part 1: Dimensions and requirements*
- *Part 2: Recommended practices for hydraulic hose assemblies*

This is a preview of "ISO 17165-1:2007". [Click here to purchase the full version from the ANSI store.](#)

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit.

Components may be connected through their ports by piping (both connectors and conductors). Hose assemblies make up the flexible part of piping.