

This is a preview of "ISO 7-2:2000". Click here to purchase the full version from the ANSI store.

Second edition  
2000-09-15

---

---

## **Pipe threads where pressure-tight joints are made on the threads —**

### **Part 2: Verification by means of limit gauges**

*Filetages de tuyauterie pour raccordement avec étanchéité dans le filet —  
Partie 2: Vérification par calibres à limites*



Reference number  
ISO 7-2:2000(E)

© ISO 2000

This is a preview of "ISO 7-2:2000". [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.

© ISO 2000

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.ch](mailto:copyright@iso.ch)  
Web [www.iso.ch](http://www.iso.ch)

Printed in Switzerland

This is a preview of "ISO 7-2:2000". [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

|  |    |
|--|----|
| Foreword.....  | iv |
| Introduction .....   | v  |
| 1 Scope .....  | 1  |
| 2 Normative reference .....  | 1  |
| 3 Terms and definitions .....  | 1  |
| 4 Symbols .....  | 2  |
| 5 Design of gauges .....   | 3  |
| 5.1 General.....   | 3  |
| 5.2 Taper full form threaded plug gauges (gauges No. 1 and No. 2).....                                     | 4  |
| 5.3 Parallel full form threaded ring gauge (gauge No. 3).....  | 8  |
| 5.4 Taper plain ring gauge (gauge No. 4) .....   | 10 |
| 5.5 Taper modified thread form check plug gauge (gauge No. 5) .....  | 11 |
| 5.6 Parallel modified thread form check ring gauge (gauge No. 6) .....                                     | 13 |
| 6 Use of gauges and checking of pipe threads .....   | 14 |
| 6.1 General.....   | 14 |
| 6.2 Checking of internal taper (Rc) and internal parallel (Rp) threads.....                                | 15 |
| 6.3 Checking of external taper (R) threads .....   | 16 |
| 7 Gauge dimensions and manufacturing tolerances, checking of new gauges and checking gauges for wear ..... | 17 |
| 7.1 Gauge dimensions and manufacturing tolerances .....  | 17 |
| 7.2 Checking of new gauges.....  | 23 |
| 7.3 Checking gauges for wear .....   | 26 |
| 7.4 Marking of gauges .....  | 28 |
| Annex A (normative) Summary of gauges.....   | 29 |

This is a preview of "ISO 7-2:2000". [Click here to purchase the full version from the ANSI store.](#)

## 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 3.

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 part of ISO 7 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 7-2 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 5, *Threaded or plain end butt-welding fittings, gauging of threads*.

This second edition cancels and replaces the first edition (ISO 7-2:1982), which has been technically revised.

ISO 7 consists of the following parts, under the general title *Pipe threads where pressure-tight joints are made on the threads*:

- *Part 1: Dimensions, tolerances and designation*
- *Part 2: Verification by means of limit gauges*

Annex A forms a normative part of this part of ISO 7.