Pipe threads where pressure tight joints are made on the threads - Part 2: Taper external threads and taper internal threads - Dimensions, tolerances and designation

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NATIONAL FOREWORD

See Eesti standard EVS-EN 10226-2:2005 sisaldab Euroopa standardi EN 10226-2:2005 ingliskeelset teksti.	This Estonian standard EVS-EN 10226-2:2005 consists of the English text of the European standard EN 10226-2:2005.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 17.08.2005.	Date of Availability of the European standard is 17.08.2005.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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English Version

Pipe threads where pressure tight joints are made on the threads - Part 2: Taper external threads and taper internal threads - Dimensions, tolerances and designation

Filetages de tuyauterie pour raccordement avec étanchéité dans le filet - Partie 2: Filetages extérieurs coniques et filetages intérieurs coniques - Dimensions, tolérances et désignation

Rohrgewinde für im Gewinde dichtende Verbindungen - Teil 2: Kegelige Außengewinde und kegelige Innengewinde - Maße, Toleranzen und Bezeichnung

This European Standard was approved by CEN on 27 June 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
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Contents

Foreword

This document (EN 10226-2:2005) has been prepared by Technical Committee ECISS/TC 29 “Steel tubes and fittings for steel tubes”, the secretariat of which is held by UNI/UNSIDER.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document is based, with editorial modifications on ISO 7-1 "Pipe threads where pressure-tight joints are made on the threads - Part 1: Dimensions, tolerances and designation". Pipe threads to this document are dimensionally identical to and fully interchangeable with pipe threads to ISO 7-1.

This document has been prepared in three parts. Parts 1 and 2 reflect the two thread jointing systems in regular use in Europe and Worldwide - Part 1 details taper external and parallel internal pipe threads, and Part 2 details taper external and taper internal pipe threads. Part 3 will provide requirements for the gauging of pipe threads conforming to Parts 1 and 2.

The common requirements for the taper external pipe thread are given in Part 1 and in Part 2, so as to present the complete thread jointing system in each part.

Components having pipe threads produced to the dimensions and tolerances given in this European Standard can be assembled to give safe and effective pressure tight joints providing proper assembly techniques are used. The techniques used to assemble threaded joints are dependent on a number of factors including the internal thread (parallel or taper), the quality of the mating threads, the materials of the components being connected, the thread sealant or jointing compound used and the assembly torque.

Because of the different assembly techniques used for the taper / parallel and taper / taper systems, it is recommended that mixing of components having parallel internal threads and taper internal threads is avoided in the same piping system.

Relevant EN product or application standards will normally specify whether parallel and /or taper internal threads are permitted for these products or applications. Users should select the internal thread type to suit their product or application requirements.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom

1 Scope

This European Standard specifies the requirements for thread form, dimensions, tolerances and designation for jointing pipe threads, sizes 1/16 to 6 inclusive, for joints made pressure-tight by the mating of the threads. These threads are taper external and taper internal and are intended for use with pipes suitable for threading and for valves, fittings or other pipeline equipment interconnected by threaded joints.

An appropriate thread sealant or jointing compound should be used on the thread to ensure pressure-tight joints.

NOTE 1 Threaded joints using taper external threads and parallel internal threads are detailed in EN 10226-1.

NOTE 2 The requirements for taper external threads are identical in EN 10226-1 and EN 10226-2.

NOTE 3 For pipe threads where pressure-tight joints are not made on the threads see EN ISO 228-1.

NOTE 4 EN 10226-3 gives details of recommended gauging systems for the verification of thread dimensions and thread form.

2 Normative references

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

EN 10226-3, *Pipe threads where pressure-tight joints are made on the threads — Part 3: Verification by means of limit gauges*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply (see also Figures 2 and 3).

NOTE For consistency and clarity, common terms and definitions have been adopted for EN 10226-1 and EN 10226-2. Consequently some definitions may include terms that seem inappropriate to this document.

3.1
gauge diameter
major diameter of the thread, whether external or internal, at the gauge plane

3.2
major cone
imaginary cone, which just touches the crests of a taper external thread or the roots of a taper internal thread

3.3
gauge plane
plane, perpendicular to the axis of the taper thread, at which the major cone has the gauge diameter

NOTE 1 For external threads the gauge plane is located at a distance equal to the gauge length from the small end of the thread.

NOTE 2 For taper internal threads; the gauge plane is located at a distance of half pitch behind the face of the threaded work piece. This distance has been agreed so that the position of the gauge plane on taper internal threads is consistent with parallel internal threads in EN 10226-1.

3.4
gauge length
on an external thread, the distance from the gauge plane to the small end of the thread, measured parallel to the axis