

**Gas cylinders - 17E and 25E taper threads for
connection of valves to gas cylinders - Part 1:
Specifications**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 11363-1:2010 sisaldab Euroopa standardi EN ISO 11363-1:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.08.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.05.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 11363-1:2010 consists of the English text of the European standard EN ISO 11363-1:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.08.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 15.05.2010.

The standard is available from Estonian standardisation organisation.

ICS 23.020.30

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: 605 5050; E-mail: info@evs.ee

English Version

Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 1: Specifications (ISO 11363-1:2010)

Bouteilles à gaz - Filetages coniques 17E et 25E pour le raccordement des robinets sur les bouteilles à gaz - Partie 1: Spécifications (ISO 11363-1:2010)

Gasflaschen - 17E und 25E kegeliges Gewinde zur Verbindung von Ventilen mit Gasflaschen - Teil 1: Spezifikationen (ISO 11363-1:2010)

This European Standard was approved by CEN on 23 January 2010.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 11363-1:2010) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with Technical Committee CEN/TC 23 "Transportable gas cylinders" the secretariat of which is held by BSI.

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 November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 629-1:1996, EN ISO 11116-1:1999.

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

Endorsement notice

The text of ISO 11363-1:2010 has been approved by CEN as a EN ISO 11363-1:2010 without any modification.

This document is a preview generated by EVS

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope.....	1
2 Terms and definitions	1
2.1 General	1
2.2 Terms relating to cones	2
2.3 Terms relating to diameter	2
2.4 Terms relating to reference	3
3 Requirements.....	4
3.1 Thread handedness.....	4
3.2 Taper.....	4
3.3 Thread profile.....	4
3.4 Pitch, P	4
3.5 Dimensions	4
4 Thread end finish.....	7
5 Marking.....	8
Bibliography.....	9

Introduction

Gas cylinders intended to contain compressed, liquefied or dissolved gas under pressure are fitted with accessories to allow release and refilling of gas. Hereinafter, the term “valve” will apply to such accessories.

The connection between cylinder and valve is obtained by assembly of two taper-threads (an external one on the valve stem and an internal one in the cylinder neck), both having the same nominal taper, thread pitch and thread profile.

Gas cylinders — 17E and 25E taper threads for connection of valves to gas cylinders —

Part 1: Specifications

1 Scope

This part of ISO 11363 specifies dimensions and tolerances for taper screw threads of nominal diameter 17,4 mm (designated 17E) and 25,8 mm (designated 25E) used for the connection of valves to gas cylinders.

It does not cover the connection requirements for:

- mechanical strength;
- gas tightness;
- capability of repeated assembly and dismounting operations.

Gauge inspection is covered by ISO 11363-2.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1 General

2.1.1

basic profile

theoretical profile, when the profile of the external thread coincides with the profile of the internal thread

2.1.2

design profile

design profile differs from the basic profile due to the radius of the root, necessary for manufacturing and strength requirements

NOTE For such a profile, manufacturing tolerances are taken into account.

2.1.3

length of external thread, l_2

length of full form thread on the valve stem, measured along the cone axis from the reference plane A

NOTE See Figure 1, Table 1 and Table 3.

2.1.4

length of internal thread, L_2

length of full form thread in the cylinder neck, measured along the cone axis from the reference plane F