

SLOVENSKI STANDARD
SIST EN ISO 11116-1:1999
01-september-1999

**Plinske jeklenke - Konični navoj 17E za povezavo ventila s plinsko jeklenko - 1.
del: Specifikacije (ISO 11116-1:1999)**

Gas cylinders - 17E taper thread for connection of valves to gas cylinders - Part 1:
Specifications (ISO 11116-1:1999)

Ortsbewegliche Gasflaschen - Gasflaschen - 17E kegeliges Gewinde zum Anschluß von
Ventilen an Gasflaschen (ISO 11116-1:1999)

Bouteilles a gaz - Filetage conique 17E pour le raccordement des robinets sur les
bouteilles a gaz - Partie 1: Spécifications (ISO 11116-1:1999)

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Ta slovenski standard je istoveten z: EN ISO 11116-1:1999

ICS:

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en

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EUROPEAN STANDARD

EN ISO 11116-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1999

ICS 23.020.30

English version

Gas cylinders - 17E taper thread for connection of valves to gas cylinders - Part 1: Specifications (ISO 11116-1:1999)

Bouteilles à gaz - Filetage conique 17E pour le raccordement des robinets sur les bouteilles à gaz - Partie 1: Spécifications (ISO 11116-1:1999)

Ortsbewegliche Gasflaschen - Gasflaschen - 17E kegeliges Gewinde zum Anschluß von Ventilen an Gasflaschen (ISO 11116-1:1999)

This European Standard was approved by CEN on 1 April 1999.

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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 11116-1:1999

Foreword

The text of the International Standard ISO 11116-1:1999 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 October 1999, and conflicting national standards shall be withdrawn at the latest by October 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 11116-1:1999 was approved by CEN as a European Standard without any modification.

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REPUBLIKA SLOVENSKA
AGENCIJA REPUBLIKE SLOVENIJE
ZA KVALITETO
IN VARNOST
MINISTRSTVO REPUBLIKE SLOVENIJE
REPUBLIKA SLOVENIJE



INTERNATIONAL
STANDARD

ISO
11116-1

First edition
1999-04-01

**Gas cylinders — 17E taper thread for
connection of valves to gas cylinders —
Part 1:
Specification**

*Bouteilles à gaz — Filetages coniques 17E pour le raccordement des
robinets sur les bouteilles à gaz —
Partie 1: Spécifications*

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Reference number
ISO 11116-1:1999(E)

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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.

International Standard ISO 11116-1 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

ISO 11116 consists of the following parts, under the general title *Gas cylinders — 17E taper thread for connection of valves to gas cylinders*:

— *Part 1: Specification*

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— *Part 2: Inspection gauges*

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Introduction

This part of ISO 11116 belongs to a series of standards specifying thread dimensions and gauge requirements.

Cylinders intended to contain compressed, liquefied or dissolved gas under pressure are fitted with accessories (valves, straight or angle fittings) to allow release of and refilling with, 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, each having the same nominal taper, pitch and thread profile.

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Gas cylinders — 17E taper thread for connection of valves to gas cylinders —

Part 1: Specification

1 Scope

This part of ISO 11116 specifies definitions, dimensions and tolerances of a taper screw thread of nominal diameter 17,4 mm (designated 17E), for the connection of valves to medical and industrial gas cylinders.

This part of ISO 11116 does not cover the connection requirements for:

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

Gauge inspection is covered by ISO 11116-2.

2 Terms and definitions

For the purposes of this part of ISO 11116 the following terms and definitions apply.

2.1

valve stem

tapered end of the valve body, with a thread formed on the external surface of the truncated cone (see Figure 1)

2.2

cylinder neck thread

tapered axial hole in the cylinder neck, with a thread formed on the internal surface of the truncated cone (see Figure 1)

2.3

major cone

cone bounding the crests of the thread of the valve stem, or the roots of the cylinder neck thread

2.4

minor cone

cone bounding the roots of the thread of the valve stem, or the crests of the cylinder neck thread

2.5

pitch cone

cone passing coaxially and midway between the major and minor cones

2.6

reference plane A

reference plane coincident with the small end face of the threaded valve stem and corresponding to diameters d_{1j} , d_{1p} , and d_{1e} (see Figure 1)