



# SLOVENSKI STANDARD

## SIST EN 1281-2:2000

01-januar-2000

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Anaesthetic and respiratory equipment - Conical connectors - Part 2: Screw-threaded weight-bearing connectors (ISO 5356-2:1987 modified)

Anästhesie- und Beatmungsgeräte - Konische Konnektoren - Teil 2: Gewichtstragende konische Konnektoren mit Schraubgewinde (ISO 5356-2:1987 geändert)

Matériel respiratoire et d'anesthésie - Raccords coniques - Partie 2: Raccords a vis pouvant supporter un certain poids (ISO 5356-2:1987 modifiée)

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Ta slovenski standard je istoveten z: EN 1281-2:1995

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### ICS:

11.040.10	Anestezijska, respiratorna in reanimacijska oprema	Anaesthetic, respiratory and reanimation equipment
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**SIST EN 1281-2:2000**

**en**

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EUROPEAN STANDARD

EN 1281-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1995

ICS 11.040.10

Descriptors: See ISO document

English version

**Anaesthetic and respiratory equipment - Conical  
connectors - Part 2: Screw-threaded  
weight-bearing connectors (ISO 5356-2:1987  
modified)**

Matériel respiratoire et d'anesthésie -  
Raccords coniques - Partie 2: Raccords à vis  
pouvant supporter un certain poids  
(ISO 5356-2:1987 modifiée)

Anästhesie- und Beatmungsgeräte - Konische  
Konnektoren - Teil 2: Gewichtstragende konische  
Konnektoren mit Schraubgewinde (ISO 5356-2:1987  
geändert)

This European Standard was approved by CEN on 1995-12-05. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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**CEN**

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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Ref. No. EN 1281-2:1995 E

## Foreword

The text of the International Standard, ISO 5356-2:1987, from ISO/TC 121 "Anaesthetic and respiratory equipment" of the International Organization for Standardization (ISO) has been taken over as a European Standard, EN 1281-2:1995, by the Technical Committee CEN/TC 215 "Respiratory and anaesthetic equipment" with common modifications.

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 June 1996, and conflicting national standards shall be withdrawn at the latest by June 1998.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 5356-2:1987 has been approved by CEN as a European Standard with agreed common modifications, as given below:

Add the following to clause 2:

"prEN 1281-1, Anaesthetic and respiratory equipment - Conical connectors - Part 1: Cones and sockets."

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Insert a new clause :

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**"6 Marking and information to be supplied**

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Screw-threaded weight-bearing connectors shall comply with clauses 9 and 10 of prEN 1281-1."

**Annex ZA (informative)****Clauses of this European Standard addressing essential requirements or other provisions of EU Directives**

This European standard has been prepared under a mandate given to CEN/CENELEC by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive 93/42/EEC.

WARNING : Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

The following clauses of this standard, as detailed in table ZA.1, are likely to support requirements of Directive 93/42/EEC.

Compliance with the clauses of this standard provides one means of conforming with the specific essential requirements of the Directive concerned and associated EFTA regulations.

Table ZA.1: Correspondence between this European Standard and EU Directives

<b>Clauses/sub-clauses of this European Standard</b>	<b>Corresponding annexes/ paragraphs of Directive 93/42/EEC</b>	<b>Comments</b>
0	2	
1	2	
2	2	
3	2	
4		See appropriate device standard
5	1; 2; 9.1	
Figure 1	2; 9.1	

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# INTERNATIONAL STANDARD

ISO  
5356-2

First edition  
1987-07-15



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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION  
ORGANISATION INTERNATIONALE DE NORMALISATION  
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

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## Anaesthetic and respiratory equipment — Conical connectors —

### Part 2 : Screw-threaded weight-bearing connectors

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*Matériel respiratoire et d'anesthésie — Raccords coniques —*  
SIST EN 1281-2:2000

*Partie 2 : Raccords à vis pouvant supporter un certain poids*  
<https://standards.iteh.ai/catalog/standards/sist/8e5c0edd-837d-4e33-ad2c-5e2ba89bf001/sist-en-1281-2-2000>

Reference number  
ISO 5356-2: 1987 (E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 5356-2 was prepared by Technical Committee ISO/TC 121, *Anaesthetic and respiratory equipment*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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# Anaesthetic and respiratory equipment — Conical connectors —

## Part 2 : Screw-threaded weight-bearing connectors

### 0 Introduction

0.1 ISO 5356 comprises the following two parts :

Part 1 : Cones and sockets.

Part 2 : Screw-threaded weight-bearing connectors.

0.2 While the conical connectors specified in ISO 5356-1 are satisfactory for lightweight breathing attachments, there is also a need for more substantial connectors to support heavy or fragile components. Factors governing the design of these connectors include robustness, simplicity, ease of sterilization, and ease of engagement and disengagement by hand. They should also be compatible with connectors meeting the requirements laid down in ISO 5356-1 and should, if possible, eliminate the likelihood of inadvertent misconnection, although it has to remain the responsibility of the user to check that any system in which they are used is correctly assembled before use.

Screw-threaded weight-bearing connectors specified in this part of ISO 5356 may be used for attachments within the breathing system and at the common gas outlet.

### 1 Scope and field of application

This part of ISO 5356 specifies requirements for screw-threaded weight-bearing conical connectors intended for use with inhalation anaesthesia apparatus and ventilators; such connectors are intended for mounting heavy accessories.

### 2 References

ISO 262, *ISO general purpose metric screw threads — Selected sizes for screws, bolts and nuts.*

ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2 : Limits of sizes for general purpose bolt and nut threads — Medium quality.*

ISO 5356-1, *Anaesthetic and respiratory equipment — Conical connectors — Part 1 : Cones and sockets.*

### 3 Definitions

For the purposes of this part of ISO 5356, the following definitions apply.

NOTE — Definitions have been taken from ISO 4135.

**3.1 inhalation anaesthesia apparatus :** Equipment intended for dispensing and delivering anaesthetic gases and vapours into a breathing system for delivery to the patient.

**3.2 breathing attachments :** Components intended to make up or complete a breathing system.

**3.3 breathing system :** Those gas pathways continuously or intermittently in communication with the patient's respiratory tract during any form of ventilation.

#### NOTES

- In practice a breathing system usually extends from
  - the point of supply<sup>1)</sup> of a controlled gas mixture, for example the common gas outlet of an anaesthetic machine, or
  - the fresh-gas inlet of a circle system, lung ventilator, T-piece, etc., or
  - the fresh-gas inlet of a manually-operated resuscitator.
- It usually extends to the point at which gas mixture escapes to atmosphere or a gas scavenging system, for example from an APL valve, the open end of a T-piece, etc.
- Gas pathways exclusively concerned with gas scavenging systems are not regarded as part of the breathing system.

### 4 Materials

Materials used in the manufacture of screw-threaded weight-bearing connectors shall be as specified in ISO 5356-1.

1) In some situations, particularly in lung ventilators, this point may be inside a piece of equipment and should not be confused with a connection port fitted elsewhere, for example on the casing of a ventilator.