

# Medical gas pipeline systems —

## Part 6: Dimensions and allocation of probes for terminal units for compressed medical gases and vacuum

ICS 11.040.10; 23.040.60

# National foreword

This Draft for Development is the English language version of ENV 737-6:2003, which is a Special Status European Prestandard.

**This publication is not to be regarded as a British Standard.**

It is being issued in the Draft for Development series of publications and is of a provisional nature because of the reasons given in the Foreword to ENV 737-6, i.e. principally to allow existing national standards for probes to continue in existence so that probes complying with the dimensions specified in those standards may continue to be used for new medical gas installations and the extension and maintenance of existing installations. It should be applied on this provisional basis, so that information and experience of its practical application may be obtained. BS 5682:1998 will remain in effect.

A Special Status European Prestandard differs from an ENV or Technical Specification by being exempt from the necessity of regular review as to suitability for its conversion into a European Standard, although such reviews can be undertaken should circumstances indicate. If such a review is undertaken in future, comments arising from the use of this Draft for Development will be requested so that UK experience can be reported to the European organization responsible for its proposed conversion into a European Standard. Notification of the start of any such review period will be made in an announcement in the appropriate issue of *Update Standards* and, according to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion of ENV 737-6 into a European Standard or to withdraw it.

Comments relating to experience of the use of DD ENV 737-6 should be sent in writing to the Secretary of BSI Technical Committee CH/121/6, Medical gas supply systems, at 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where appropriate, suggestions for revision of the text.

A list of organizations represented on this committee can be obtained on request to its secretary.

**Cross-references**

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

**Summary of pages**

This document comprises a front cover, an inside front cover, the ENV title page, pages 2 to 14, an inside back cover and a back cover.

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**Amendments issued since publication**

| Amd. No. | Date | Comments |
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This Draft for Development was published under the authority of the Standards Policy and Strategy Committee on 29 April 2003

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English version

**Medical gas pipeline systems - Part 6: Dimensions and  
allocation of probes for terminal units for compressed medical  
gases and vacuum**

Système de distribution de gaz médicaux - Partie 6:  
Dimensions et attribution des embouts pour prises murales  
pour gaz médicaux comprimés et pour le vide (aspiration)

Rohrleitungssysteme für medizinische Gase - Teil 6:  
Maße und Zuordnung von Steckern für Entnahmestellen für  
medizinische Druckgase und Vakuum

This European Prestandard (ENV) was approved by CEN on 18 December 2002 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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



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## Foreword

This document (ENV 737-6:2003) has been prepared by Technical Committee CEN/TC 215 "Respiratory and anaesthetic equipment" the secretariat of which is held by BSI as a Special Status European Prestandard (ENV).

EN 737 consists of the following Parts under the general title "Medical gas pipeline systems":

Part 1: *Terminal units for compressed medical gases and vacuum*

Part 2: *Anaesthetic gas scavenging disposal systems – Basic requirements*

Part 3: *Pipelines for compressed medical gases and vacuum*

Part 4: *Terminal units for anaesthetic gas scavenging systems*

Part 6: *Dimensions and allocation of probes for terminal units for compressed medical gases and vacuum*

Taking into account that:

- there are CEN member countries using terminal units and probes which comply with EN 737-1 and which have dimensions of probes complying with the national standards of Austria (ÖNORM 7387 series), France (AFNOR NF S 90-116), Germany (DIN 13260, Teil 2), Italy (UNI 9507), Sweden (SS 87 524 30) and United Kingdom (BS 5682);
- there are CEN member countries using terminal units and probes of existing proprietary design which comply with EN 737-1 and which have published gas-specific dimensions and tolerances;
- some of these national standards and proprietary designs have a special status defined by law or regulation and cannot therefore be changed or withdrawn;

this document is published as a Special Status European Prestandard (ENV) for the following reasons:

- CEN members will not be bound to implement the ENV; they need only make the ENV available at national level in the form of e.g. "Draft for development";
- the dimensions of probes given in the conflicting national standards listed above will not be withdrawn and may be kept in force in parallel to those given in the European Prestandard;
- terminal units and probes which comply with EN 737-1 and which have dimensions complying with the conflicting national standards listed above may continue to be installed and used for both new installations and extensions of existing installations as specified by appropriate National Authorities;
- terminal units and probes of existing proprietary design which comply with EN 737-1, which have published gas-specific dimensions and tolerances may continue to be installed and used for both new installations and extensions of existing installations as specified by appropriate National Authorities, provided that it is neither possible for probes complying with ENV 737-6 to lock into and/or release gas from sockets complying with each proprietary design nor possible for probes complying with each proprietary design to lock into and to release gas from sockets complying with ENV 737-6;
- it will be possible to install and use terminal units and probes complying with EN 737-1 and this European Prestandard for field trials in health care facilities by agreement with appropriate National Authorities.

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

## **Introduction**

Terminal units are the points on a medical gas supply system where the operator makes connections and disconnections for the supply of specified medical gases to anaesthetic machines, lung ventilators or other items of medical equipment, and where a wrong connection can create a hazard to the life of a patient. Connection of medical equipment to a terminal unit is made by inserting a gas-specific probe into a gas-specific connection point on the appropriate terminal unit. Both the probe and the terminal unit are to be gas-specific to ensure that the correct gas is delivered to the medical equipment.

It is important therefore that probes and the corresponding gas-specific connection points are designed and manufactured in such a way as to meet the requirements specified in this European Prestandard.

This European Prestandard gives the dimensions and allocation of probes and the corresponding gas-specific connection points, in order to ensure that only one design of probe is used for each specified medical gas.