

Connections for gas sampling tubes to anaesthetic and respiratory equipment

The European Standard EN 13014:2000 has the status of a
British Standard

ICS 11.040.10

National foreword

This British Standard is the official English language version of EN 13014:2000, including Corrigendum July 2002.

The UK participation in its preparation was entrusted by Technical Committee CH/44, Anaesthetic machines, breathing attachments, medical gas pipeline systems and hose assemblies, to Subcommittee CH/44/1, Anaesthetic machines, breathing systems and anaesthetic gas scavenging systems, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Further information

Users of this standard are informed that the UK submitted a negative vote on the final voting stage of the draft EN because it believes the use of Luer fittings as connectors in circuits carrying gases to be inherently unsound due to the risk of cross-connection with vascular lines.

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.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Health and Environment Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 15 April 2000

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 15 and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments
14062 Corrigendum No. 1	16 December 2002	Changes to Figure 2 and Figure 3

© BSI 16 December 2002

ISBN 0 580 32752 3

English version

Connections for gas sampling tubes to anaesthetic and respiratory equipment

Raccordements pour tubes à prélèvement de gaz du
matériel respiratoire et anesthésique

Verbindungen für Gasprobenentnahmeschläuche an
Anästhesie- und Beatmungsgeräten

This European Standard was approved by CEN on 6 June 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.

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



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

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

Contents	Page
Foreword	3
1 Scope	4
2 Normative references	5
3 Definitions	5
4 Materials and construction	6
5 Dimensions and tolerances	8
6 Requirements	8
7 Marking	9
8 Information to be supplied by the manufacturer	10
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	14

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 215, Respiratory and anaesthetic equipment, 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 July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.

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 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.

1 Scope

This European Standard specifies requirements for construction, dimensions and marking for the connectors in gas sampling tubes which transfer gas from the breathing system of anaesthetic and respiratory equipment to diverting gas monitors and back to the breathing system and/or to the anaesthetic gas scavenging system (AGSS).

This European Standard gives requirements for the following gas sampling tube ports and connectors:

- Gas sampling port on breathing system;
- Gas return port on breathing system and AGSS;
- Gas sampling and return ports on monitors;
- Gas sampling tube inlet and outlet connectors;
- Gas return tube inlet and outlet connectors.

This European Standard does not apply to connection ports intended for connection of sensors in the breathing system.

NOTE 1: It is expected that requirements for the application of this standard will be included in particular standards for specific medical devices and accessories.

NOTE 2: One important consideration is that gas sampling tube connectors are secure but nevertheless can be disconnected by the operator. EN 1707 includes requirements and test methods for separation force, unscrewing torque and air leakage.

According to EN 1707, Luer lock fittings are intended to be used for syringes, needles and certain other medical equipment. In order to minimize the risk of mis-connections, this standard specifies the arrangements of male and female fittings and the marking requirements to identify the different connectors, ports and tubes. Tables 1 to 4 specify the type of Luer lock fitting that is used in actual applications.

NOTE 3: Another important consideration is that the ports in the breathing system can be sealed when gas sampling tubes are not connected.