



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13220:1999

ICS 11.040.10

17.120.10

**FLOW-METERING DEVICES FOR
CONNECTION TO TERMINAL UNITS OF
MEDICAL GAS PIPELINE SYSTEMS**

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Descriptors: medical equipment, anaesthetic equipment, artificial breathing apparatus, junctions, gas pipelines, medical gases, flow measurements, measuring instruments, definitions

English version

Flow-metering devices for connection to terminal units of medical gas pipeline systems

Dispositifs à débitmètre pour prises murales des réseaux
de distribution de gaz médicaux

Durchflußmeßeinrichtungen zum Anschluß an
Entnahmestellen von Rohrleitungssystemen für
medizinische Gase

This European Standard was approved by CEN on 2 October 1998.

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 one official version in accordance with Resolution BT 74/1997, the one language experiment. 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.



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Contents

	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Definitions	6
4 Terminology	7
5 General requirements	8
6 Test methods	13
7 Marking, colour coding, packaging	16
8 Information to be supplied by the manufacturer	17
Annex A (informative) Typical examples of flow-metering systems	22
Annex B (informative) Bibliography	25
Annex C (informative) Rationale	26
Annex D (normative) Special national conditions	27
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	28

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 April 1999, and conflicting national standards shall be withdrawn at the latest by April 1999.

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.

For special national conditions for clauses 5.4.1, 7.2.1 and table 2 see annex D.

Annex D forms a normative part of this European Standard. Annexes A, B, C and ZA are given for information only.

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.

Introduction

Flow-metering devices are widely used in delivery of medical gases supplied by a medical gas supply system directly to a patient. It is essential that these devices deliver accurate flows under varying conditions of temperature and inlet pressure. It is therefore important that the operating characteristics be specified and tested in a defined manner.

This standard pays particular attention to:

- Suitability of materials
- Safety (mechanical strength, safe relief of excess pressure and resistance to ignition)
- Gas specificity
- Cleanliness
- Accuracy
- Testing
- Identification
- Information supplied

Clauses and subclauses marked with **R** after their number have corresponding rationales contained in annex C.

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