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BSI Standards Publication

**Respiratory protective devices - Continuous  
flow compressed air line breathing devices  
- Requirements, testing and marking**

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## National foreword

This British Standard is the UK implementation of EN 14594:2018. It supersedes BS EN 14594:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/4, Respiratory protection.

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

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

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English Version

## Respiratory protective devices - Continuous flow compressed air line breathing devices - Requirements, testing and marking

Appareils de protection respiratoire - Appareils de protection respiratoire isolants à adduction d'air comprimé à débit continu - Exigences, essais et marquage

Atemschutzgeräte - Druckluft-Schlauchgeräte mit kontinuierlichem Luftstrom - Anforderungen, Prüfung und Kennzeichnung

This European Standard was approved by CEN on 16 March 2018.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 14594:2018) has been prepared by Technical Committee CEN/TC 79 "Respiratory protective devices", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by November 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14594:2005.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association, and supports essential health and safety requirements of EU Regulation(s).

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

The following main technical changes have been made compared to EN 14594:2005:

- a) requirements for cleaning and disinfection deleted;
- b) visual inspection changed to inspection and detailed list inserted;
- c) test for noise level adapted to the test procedure specified in ISO 16900-14;
- d) requirements and test method for protective clothes specified;
- e) test for leaktightness added;
- f) Annex A deleted;
- g) figures adapted to the changes made in the test procedures, where appropriate.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## 1 Scope

This document specifies minimum requirements for continuous flow compressed air line breathing devices for use with a full face mask, half mask, hood, helmet or suit, and devices used in abrasive blasting operations, as a Respiratory Protective Device (RPD).

Escape RPD and diving apparatus are not covered by this document.

Laboratory and practical performance tests are included for the assessment of conformance to the requirements.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 132:1998, *Respiratory protective devices — Definitions of terms and pictograms*

EN 134:1998, *Respiratory protective devices — Nomenclature of components*

EN 136:1998, *Respiratory protective devices — Full face masks — Requirements, testing, marking*

EN 140:1998, *Respiratory protective devices — Half masks and quarter masks — Requirements, testing, marking*

EN 148-1, *Respiratory protective devices — Threads for facepieces — Part 1: Standard thread connection*

EN 148-2, *Respiratory protective devices — Threads for facepieces — Part 2: Centre thread connection*

EN 148-3, *Respiratory protective devices — Threads for facepieces — Part 3: Tread connection M 45 x 3*

EN 166:2001, *Personal eye-protection — Specifications*

EN 169, *Personal eye-protection — Filters for welding and related techniques — Transmittance requirements and recommended use*

EN 170, *Personal eye-protection — Ultraviolet filters — Transmittance requirements and recommended use*

EN 171, *Personal eye-protection — Infrared filters — Transmittance requirements and recommended use*

EN 175, *Personal protection — Equipment for eye and face protection during welding and allied processes*

EN 379, *Personal eye-protection — Automatic welding filters*

EN 397:2012+A1:2012, *Industrial safety helmets*

EN 12021, *Respiratory equipment — Compressed gases for breathing apparatus*

EN 12941:1998, *Respiratory protective devices — Powered filtering devices incorporating a helmet or a hood — Requirements, testing, marking*

EN 13274-1:2001, *Respiratory protective devices — Methods of test — Part 1: Determination of inward leakage and total inward leakage*