

BS 8468-6.2:2020



BSI Standards Publication

Respiratory protective devices for use against chemical, biological, radiological and nuclear (CBRN) agents

Part 6.2: Constant flow compressed air line equipment —
Specification

Publishing and copyright information

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Summary of pages

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Foreword

Publishing information

This part of BS 8468 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 August 2020. It was prepared by Technical Committee PH/4, *Respiratory protection*. A list of organizations represented on this committee can be obtained on request to its committee manager.

Supersession

This part of BS 8468 supersedes [BS 8468-6.2:2011](#), which is withdrawn.

Relationship with other publications

BS 8468 is published in the following parts:

- Part 1: *Positive pressure, self-contained, open-circuit breathing apparatus – Specification;*
- Part 2: *Negative pressure, air purifying devices with full face mask – Specification;*
- Part 3.1: *Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape – Specification;*
- Part 3.2: *Air-purifying devices incorporating a hood for escape – Specification;*
- Part 4: *Powered air purifying respirators – Specification;*
- Part 5: *Combined and multi-functional apparatus – Specification;*
- Part 6.1: *Positive-pressure compressed air line equipment – Specification;*
- Part 6.2: *Constant flow compressed air line equipment – Specification;*
- Part 7: *Closed-circuit breathing apparatus – Specification;*
- Part 8: *Test methods.*

This standard can be used in conjunction with [BS 8467](#), which categorizes and specifies requirements and test methods for personal protective ensembles against CBRN agents.

Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- the test for permeation penetration has been moved to the new BS 8468-8; and
- the terms and definitions have been updated.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at bsigroup.com/standards, or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

Use of this document

It has been assumed in the preparation of this part of BS 8468 that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **G.1.1**, which states, “Requirements should be expressed using wording such as: ‘When tested as described in Annex A, the product shall ...’”. This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

Contractual and legal considerations

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 cannot confer immunity from legal obligations.

1 Scope

This British Standard specifies requirements for compressed air line breathing apparatus with constant airflow as a respiratory protective device intended to be used during rescue, evacuation, escape, hazard containment and decontamination, and similar activities by emergency first responders or first receivers (e.g. fire, ambulance, police, and associated civilian agencies and workers) in areas containing and contaminated by chemical, biological, radiological and nuclear (CBRN) agents.

This British Standard contains requirements for testing and marking.

This British Standard is applicable to Type CBRN1 or Type CBRN3 devices, according to their intended use.

Type CBRN1 devices provide protection against hazardous particulate matter and gaseous chemical agent permeation and penetration.

Type CBRN3 devices provide protection against hazardous particulate matter and gaseous and liquid chemical agent permeation and penetration.

Requirements for methods of and criteria for decontamination of respiratory protective devices (RPD) are not specified in this British Standard.

NOTE Compressed air line breathing apparatus conforming to this British Standard might be suitable for use in situations other than those involving the specific CBRN agents identified in this British Standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions 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.

[BS 8467:2006](#), *Protective clothing – Personal protective ensembles for use against chemical, biological, radiological and nuclear (CBRN) agents – Categorization, performance requirements and test methods*

BS 8468-8:2020, *Respiratory protective devices for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 8: Test methods*

BS EN 134, *Respiratory protective devices – Nomenclature of components*

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

[BS EN 137](#), *Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with full face mask – Requirements, testing, marking*

BS EN 1073-1:2016+A1:2018, *Protective clothing against solid airborne particles including radioactive contamination – Part 1: Requirements and test methods for compressed air line ventilated protective clothing, protecting the body and the respiratory tract*

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

BS EN 14594:2018, *Respiratory protective devices – Continuous flow compressed air line breathing devices – Requirements, testing and marking*

[BS EN ISO 16972:2020](#), *Respiratory protective devices – Vocabulary and graphical symbols*