
Respiratory protective devices — Vocabulary and graphical symbols

*Appareils de protection respiratoire — Vocabulaire et symboles
graphiques*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 15, *Respiratory protective devices*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 79, *Respiratory protective devices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 16972:2010), which has been technically revised. The main changes compared with the previous edition are as follows:

- the terms used in the field of respiratory protective devices (RPD) have been updated;
- Clause 5, “Units of measurement”, has been deleted;
- Annex A, “Terms and definitions referring to respiratory protective devices in current national standards, regulations or other national contexts”, has been deleted;
- Annex B, “Abbreviations used”, has been deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Respiratory protective devices — Vocabulary and graphical symbols

1 Scope

This document defines terms and specifies units of measurement for respiratory protective devices (RPDs), excluding diving apparatus. It indicates graphical symbols that can be required on RPDs, parts of RPD or instruction manuals in order to instruct the person(s) using the RPD as to its operation.

NOTE Terms and definitions for diving apparatus are given in EN 250.

2 Normative references

There are no normative references in this document.

3 Terms related to respiratory protective devices

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

3.1

abrasive blasting respiratory protective device

breathing apparatus (3.32) incorporating a protective *hood* (3.115) or a *blouse* (3.23) fitted with an *impact resistant* (3.119) *visor* (3.252)

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Note 1 to entry: *Breathable air* (3.28) is supplied to the *wearer* (3.257) from a source of air not carried by the wearer.

3.2

accessory

item, or items, that are attached to the *respiratory protective device (RPD)* (3.203) that are not necessary for the RPD to meet the requirements of the RPD performance standard and do not compromise its protection

3.3

adequacy assessment

selection method identifying the *respiratory protective device* (3.203) is able to reduce the *wearer's* (3.257) inhalation exposure to acceptable levels

3.4

adequate respiratory protective device

adequate RPD

RPD (3.203) capable of reducing the inhalation exposure to an acceptable level

3.5

aerodynamic diameter

diameter of a unit density sphere having the same settling velocity as the *particle* (3.170) in question

3.6

aerosol

suspension of solid, liquid, or solid and liquid *particles* (3.170) in a gaseous medium, having a negligible falling velocity (generally considered to be less than 0,25 m/s)

3.7

aerosol penetration

ability of *particles* (3.170) to pass through a particle-filtering material

3.8

air flow resistance

pressure difference between upstream and downstream locations caused by the flow of air through the parts and components of a *respiratory protective device* (3.203) such as an *exhalation valve* (3.79), *inhalation valve* (3.120), *filter(s)* (3.86), and *tube* (3.245), etc.

3.9

air supply hose

fresh air supply hose

hose (3.116) for the supply of air at about atmospheric pressure

3.10

ambient air bypass

means to enable the *wearer* (3.257) to breathe the *ambient atmosphere* (3.12) before entering and after leaving a *hazardous atmosphere* (3.108)

3.11

ambient air system

device used to deliver ambient air at a *low pressure* (3.134) directly to a *breathable gas* (3.29) *respiratory protective device* (3.203) (manually or power assisted)

3.12

ambient atmosphere

air surrounding the *wearer* (3.257)

3.13

ambient concentration

concentration of a compound in the air surrounding the *wearer* (3.257)

3.14

ambient laboratory conditions

atmosphere where the temperature is between 16 °C and 32 °C and the relative humidity is between 20 % and 80 %

3.15

apertometer

extended hemispherical dome for measuring the angular area of the *field of vision* (3.85) [*peripheral isopter* (3.176)] of a *respiratory protective device* (3.203) when mounted on a *respiratory protective device headform* (3.204)

3.16

as received

not preconditioned or modified to carry out a test

3.17

assigned protection factor

APF

anticipated level of respiratory protection that would be provided by a properly functioning *respiratory protective device* (RPD) (3.203) or class of RPD within an effective *RPD programme* (3.207)

3.18

assisted filtering respiratory protective device

assisted filtering RPD

filtering RPD (3.90) where *breathable gas* (3.29) is actively supplied to the *wearer* (3.257) by the *RPD* (3.203)