

Datasheet Breathing filter BR ABE2K1 Hg P3

Designation: BartelsRieger screw respiratory protection filter BR A2B2E2K1 Hg P3
Gas filter according to DIN EN 14387 Filter type/class A2 B2 E2 K1 P3
Combination filter as part of a respiratory protective device according to DIN EN 133 - Filter device



Description: Combination filter with cylindrical housing with round thread connection to DIN EN 148-1 (external thread Rd 40 x 1/7)

Article-Number: 202417

Application: In conjunction with breathing connection - full face masks (DIN EN 136) with round thread connection - for protection against organic gases and vapours with a boiling point above 65°C, against inorganic gases and vapours e.g. chlorine, hydrogen sulphide (hydrogen sulphide), hydrogencyanide (hydrogen cyanide, hydrocyanic acid) - **not** against carbon monoxide – against sulphur dioxide, hydrogen chloride (hydrogen chloride), against ammonia and against particles. (The 'D' marking is not provided for in DIN EN 14387 and is therefore not indicated on the filter. The 'D' stood for a passed test of the particle filter against dolomite dust. This can currently only be found in EN 149). *

Standards: DIN EN 133 Respiratory protective devices - Classification
DIN EN 148-1 Respiratory protective devices - Threads for breathing connections - Round thread connection
(DIN EN 149 Respiratory protective devices - Filtering half masks to protect against particles)
DIN EN 14387 Respiratory protective devices - Gas filters and combination filters

Labelling: with the filter identification colours: brown - grey - yellow – green – red – white (adhesive label)



Materials: Housing, perforated disk Aluminum alloy
Filter medium Activated carbon and glass/cellulose fibre
Non-woven discs Polypropylene
Sealing foil Polypropylene

Dimensions: Diameter approx. 108 mm
Height approx. 93 mm

Weight: > 300 grams

Inhalation resistance: < 2,6 mbar at 30 l/min constant air flow
< 9,8 mbar at 95 l/min constant air flow

Revision 08.2024 – Errors and omissions excepted. All data are non-binding guide values.

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Filter passage:	Sodium chloride test at 95 l/min: < 0.05 % Paraffin oil test at 95 l/min: < 0.05 %
Storability:	6 years - from date of manufacture (protected from cold, heat and moisture)
Handling:	Only open the filter packaging immediately before use and screw the breathing filter firmly into the connection piece of the mask.
Main application:	Organic gases and vapours (boiling point >65°C), chlorine, hydrogen cyanide, hydrogen sulphide, sulphur dioxide, formic acid, ammonia, rock dust, glass wool, mineral fibres, wood dust, soot, steel dust, herbicides and pesticides (toxic), bacteria and viruses.
Service life:	The service life of combination filters depends on several factors such as the concentration of harmful gases, ambient temperature, humidity, work intensity, posture, etc. and therefore cannot be determined in advance. Opened filters must be replaced after 6 months at the latest..
Application limits:	according to technical rules for hazardous substances TRGS 900 „Workplace limit values“ with full-face mask (particle filter): 400 times the workplace limit value with full-face mask (gas filter): 400 times the workplace limit value Maximum permissible gas concentration: of gas filter class 1 (K1) = 1,000 ml/m ³ Gas filter class 2 (A2, B2, E2) = 5,000 ml/m ³ HgP3 filters may be used for a maximum of 50 hours against mercury vapours!
Instructions for use:	The use of breathing filters requires a basic knowledge of the function and handling of respiratory protective devices. Information on this can be found in the trade association regulations and rules, in particular in DGUV Rule 112-190. The use of respiratory protective devices generally means additional strain for the person wearing the respiratory protective device. Most respiratory protective devices require occupational health screening in accordance with the "Ordinance on Occupational Health Care" (ArbMedVV). Damaged filters must not be used.

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In ATEX areas, these respiratory protection filters can be used in potentially explosive atmospheres in zones 1, 21, 2 and 22 if the following requirements are observed:

- The respiratory protection filters must be earthed via a dissipative mask and via the earthing of the wearer with a leakage resistance $<10^8 \Omega$.
- The respiratory protection filters must not be used in areas where highly charge-generating processes are to be expected.
- In the presence of an explosive atmosphere, the respiratory protection filters may only be worn on the face mask and not on the belt.
- The permissible ambient temperature must not exceed a value of 70 °C, assuming a temperature increase of 10 K at the parts in contact with an explosive atmosphere during normal operation and also in the event of a fault (zone 1 or 21) or during normal operation (zone 2 or 22) due to the activated carbon filter

Regulations / rules:

Regulation (EU) 2016/425 on personal protective equipment
PPE Usage Ordinance (PSA-BV)
Ordinance on occupational health care (ArbMedVV)
BGV A1 Employer's Liability Insurance Association Regulation for Safety and Health at Work - Accident Prevention Regulation - Principles of Prevention
DGUV Rule 112-190 Employer's liability insurance association rules for safety and health at work - "Use of respiratory protective devices"

Hazardous Substances Ordinance (GefStoffV) with associated Technical Rules for Hazardous Substances (TRGS), in particular TRGS 402 "Determination and assessment of hazards during activities involving hazardous substances: Inhalative exposure" and other technical rules for hazardous substances.

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With the revision of the European standard EN 14387 in 2021, the 'R' and 'D' labelling has been removed. The labelling referred exclusively to the particle filters in combination filters and had the following meaning:

'R' (reusable) - the filter may be reused

Note: This does not apply when used against microorganisms.

'D' (dolomite) - resistant to clogging by dust (storage test)

As the BR filter series has been tested and certified in accordance with the new standard and therefore the latest technical standard, labelling with 'R' and 'D' is no longer possible due to this change compared to the old EN 14387:2008.

The filters fulfil the requirements of the storage test and are reusable.

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Order details:	Article-No.	Description
	202417	Combination filter BR A2B2E2K1 Hg P3
	111200	Full face mask BRK 820
	111201	Full face mask BRK 820 V
	111208	Full face mask BRK 820 G
	111400	Full face mask TR 2002 CL3
	111704	Wall container for full face mask including one filter
	111705	Wall container for two full face masks including two filters
	111703	Carrying box B78 for one full face mask
	111702	FE carrying case for one full face mask and one filter

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