

Datasheet Breathing filter BR AXP3

Designation: BartelsRieger Respiratory Protection Screw Filter BR AXP3
Special filter according to DIN EN 14387, Filter Type/Class AXP3
Combination filter as part of a respiratory protection device according to DIN EN 133 – Filtering Device



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

Article-Number: 202429

Application: For use with full face masks (DIN EN 136) or half masks (DIN EN 140) featuring a round thread connection—single-use protection against organic gases and vapors with a boiling point ≤ 65 °C and against particulates—**not** effective against carbon monoxide.
(Note: The “D” designation is not specified in DIN EN 14387 and is therefore not applied. It referred to passing the dolomite dust clogging test, which is now covered only 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 – white (adhesive label)



Materials: Housing, perforated plates Aluminum alloy
Filter medium Activated carbon and glass/cellulose fibre
Fleece discs Polypropylene
Sealing foil Polypropylene

Dimensions: Diameter approx. 108 mm
Height approx. 100 mm

Weight: approx. 295 grams

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

Revision 06.2025 – 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:	Open filter packaging only immediately before use and screw the filter tightly into the mask's connector.								
Main application:	Organic gases and vapors (boiling point $\leq 65^\circ\text{C}$), rock dust, glass wool, mineral fibers, wood dust, soot, steel dust, toxic herbicides and pesticides, bacteria, and viruses.								
Service life:	Depends on contaminant concentration, ambient temperature, humidity, workload, posture, etc., and cannot be predefined. Opened filters must be replaced after 6 months at the latest.								
Application limits:	<table border="0" style="width: 100%;"> <tr> <td style="width: 70%;">with half/ quarter Mask (particle filter):</td> <td>Protection level 30</td> </tr> <tr> <td>with full-face mask (particle filter):</td> <td>Protection level 400</td> </tr> <tr> <td>with half/ quarter Mask (gas filter):</td> <td>Protection level 30</td> </tr> <tr> <td>with full-face mask (gas filter):</td> <td>Protection level 400</td> </tr> </table>	with half/ quarter Mask (particle filter):	Protection level 30	with full-face mask (particle filter):	Protection level 400	with half/ quarter Mask (gas filter):	Protection level 30	with full-face mask (gas filter):	Protection level 400
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with half/ quarter Mask (gas filter):	Protection level 30								
with full-face mask (gas filter):	Protection level 400								

To ensure adequate protection, the protection level of the respiratory protection device must be at least equal to the measured multiple of the occupational exposure limit value of the present contaminant.

According to the technical rules for hazardous substances TRGS 900 "Occupational Exposure Limits"

Maximum permissible gas concentration:

Typ	Color	Main Application Area	Class	Filter Application Limits ¹⁾
AX	Brown	Low-boiling organic vapors ($\leq 65^\circ\text{C}$)	-	5.000 ml/m ³ (0,5 Vol.-%) ²⁾⁴⁾ 1.000 ml/m ³ (0,1 Vol.-%) ^{3) 4)}

- 1) The protection level of the complete respiratory protective device must always be taken into account, as it may be below the filter's limit.
- 2) Application limits for non-powered filtering devices
- 3) Application limits for powered filtering devices
- 4) Only use AX filters new (factory fresh). Reuse within the same work shift under usage limits is allowed. Further reuse is not permitted.

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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.**

Unused AX filters can also be used as A2 filters. In this case, it must be ensured that there are no low boilers present. After use as an A2 filter, the filter may no longer be used as an AX filter.

The use of type A gas filters against low boilers is generally not permitted. This also applies if they are combined with other gas filter types in multi-range filters, for example A2E2K1.

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.

Order details:

Article Number	Description
202429	Combination filter BR AXP3
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
202952	Half Mask BariMask HF
111704	Wall container for full face mask including one filter
111705	Wall container for two full face masks including tw 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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