


FEEL FREE
TO BREATHE



ENGLISH 

CATALOGUE
2017 / 2018

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BLS

OUR MILESTONES



1970 BLS starts its activity in Milan by setting up its first manufacturing plant, laboratories and offices. Initially, production was focused on disposable cup shaped respirator masks.



1996 CE marking is introduced. BLS is one of the first manufacturers to obtain such certification.

2006 In order to meet a rising global demand, BLS starts to invest on its own internal **engineering team** to design and develop fully automated production lines.

2003 BLS widens its offer by setting up the first production of reusable half mask and full face mask respirators.

2005 BLS obtains the ISO 9001 certification.





2017

Aiming to offer premium assistance to the markets of UK, Benelux and Ireland, the Rotterdam based branch, **BLS NorthWest**, opens its commercial offices in The Netherlands.



2010 BLS completes its offer by acquiring a facility in Spain, specialized in the manufacture of filters for reusable respirators. **BLS Iberia** is born.

2012

BLS do Brasil launches a new office in Curitiba, in order to reach the South American market.



2014

BLS builds new headquarters in Milan extending over a 5000 sqm surface. They were built with the most modern technologies.



BLS

48 YEARS OF PRODUCTS, SERVICE AND EXPERTISE

— strengths

EXPERIENCE & MADE IN ITALY

Operating in Milan since 1970, with almost 50 years of experience, BLS is highly specialized in the production of negative pressure respiratory protection devices.

QUALITY & ENGINEERING

From the concept to the shipment, BLS designs, develops and produces all its products internally.

PROTECTION & COMFORT

Our mission is to offer maximum protection without giving up on user's comfort.



— *thinking*

R&D DEPARTMENT

A innovation driven team that constantly designs, develops and upgrades BLS products.

CUSTOMER SERVICE

An efficient and well organized customer service gives the best assistance to our clients.

TEST LAB

Thanks to state-of-the-art machineries, quality is always under the watch of our well trained operators. From the raw materials to the final product.



— *making*

DISPOSABLE & REUSABLE DEVICES

All our production lines are designed and engineered internally by our technical team.

FILTERS

Strong investments in the automation of many time-wasting industrial processes and a special care on choosing the best raw materials make our facility in Barcelona an innovation hub for the whole group.

CUSTOMIZED PRODUCTS

Quickly developed, tailor-made products in a variety of colours, with a common brand or a client's logo.



PROTECTION FROM

DUSTS, MISTS AND FUMES

DUSTS are formed when a solid material is decomposed into tiny fragments.

MISTS are tiny droplets that are formed from liquid materials through condensation and atomization processes.

FUMES are formed when a solid material (e.g.: a metal) is vaporized through high temperature. The vapour cools quickly and condenses into extremely fine particles.

The term **PARTICULATE** commonly identifies the collection of these solid particles in the air.

There are two families of products for protection against particulates:

A) FILTERING FACEPIECES, indicated with “FFP”; EN 149 standard.

B) FILTERS (for half or full face masks), indicated with “P”; EN 143 standard.

In reference to the protection from particulates, the legislation confers an increased protection with the increase of the filtering efficiency: FFP1, FFP2, FFP3 / P1, P2, P3.

MINIMUM FILTERING EFFICIENCY

| EN 149 | | EN 143 | |
|--------|-----|--------|--------|
| FFP1 | 80% | P1 | 80% |
| FFP2 | 94% | P2 | 94% |
| FFP3 | 99% | P3 | 99,95% |

CLASS OF PROTECTION

The European Standard EN 529:2005 shows how to select the correct breathing apparatus based on the risk assessment. This standard indicates the “protection factor” which is by definition the parameter that expresses the ratio between the concentration of the contaminant in the environment and its concentration inside the breathing apparatus. An important distinction concerns

the **nominal protection factor (NPF)** and the **assigned protection factor (APF)**. The nominal protection factor (**NPF**) is a number derived from the maximum percentage of total loss (towards the inside of the breathing apparatus) allowed by European standards. The assigned protection factor (**APF**) is the level of respiratory protection that one can realistically expect in the

workplace by 95% of the PPE users. Furthermore, an important reference for choosing the breathing apparatus is the **Threshold Limit Value (TLV)**, or rather the “exposure limit value”, which indicates the environmental concentrations of airborne chemicals below which most workers can remain repeatedly exposed to day after day for their working life without any negative effect on their health.

| FILTERING FACEPIECES | | | HALF MASK WITH FILTERS | | | FULL FACE MASK WITH FILTERS | | |
|----------------------|-----|-----------|------------------------|-----|-----------|-----------------------------|------|-----------|
| CLASS | NPF | MAX CONC. | FILTER CLASS | NPF | MAX CONC. | FILTER CLASS | NPF | MAX CONC. |
| FFP1 | 4 | 4xTLV | P1 | 4 | 4xTLV | P1 | 5 | 5xTLV |
| FFP2 | 12 | 12xTLV | P2 | 12 | 12xTLV | P2 | 16 | 16xTLV |
| FFP3 | 50 | 50xTLV | P3 | 48 | 48xTLV | P3 | 1000 | 1000xTLV |

*TLV: time-weighted average concentration of a substance to which the operator can be exposed without adverse health effects.

If the concentration of the pollutant in the workplace is unknown, the first rule for selecting the minimum level of protection can be provided by the following table:

| PROTECTION LEVEL | P1 | P2 | P3 |
|------------------------------------|-----------------------|-----------------------------|------------------------|
| POLLUTANT TLV / MINIMUM EFFICIENCY | ≥ 10mg/m ³ | 0.1 < > 10mg/m ³ | ≤ 0.1mg/m ³ |

PROTECTION FROM

GASES AND VAPOURS

GASES are substances which at an ambient temperature and pressure are in a liquid or solid state and pass to a gaseous state through boiling or evaporation processes (e.g.: oxygen, nitrogen, carbon dioxide).

VAPOURS are substances which at ambient temperature and pressure become gaseous through evaporation from a liquid or a solid (e.g.: acetone, toluene, hexane). For protection against this type of contaminant it requires a carbon layer

filter suitably treated to selectively absorb different substances.

The European Standard 14387:2004+A1: 2008 defines protection against gases and vapours according to the following table:

| TYPE | COLOUR | PROTECTION |
|------|---------------|---|
| A | BROWN | Organic gases and vapours with a boiling point higher than 65°C |
| B | GREY | Inorganic gases and vapours |
| E | YELLOW | Acid gases |
| K | GREEN | Ammonia and derivatives |
| AX | BROWN | Organic gases and vapours with a boiling point lower than 65°C |

CLASS OF PROTECTION

To select the right protection against gases and vapours, the chemical nature of the pollutant must be known referring, if necessary, to the tables provided by BLS, which indicate the type of filter to use depending on the contaminant and its concentration, making sure that the level

of oxygen is greater than 17%. Regulations provide three filter capacity classes: low (class 1), medium (class 2), high (class 3). For protection against gases and vapours, the nominal protection factor is determined by the type of mask and not by the filter

used. Although the filtering efficiency of the filter is close to 100%, the duration of filter increases with increase of the capacity, since the quantity of carbon layer is larger. On the contrary, by increasing both the volume and the weight of the filter, the breathing effort increases.

| CLASS | 1 | 2 | 3 |
|----------------|----------|----------|-----------|
| CAPACITY | LOW | MEDIUM | HIGH |
| EXPOSURE LIMIT | 1000 ppm | 5000 ppm | 10000 ppm |

| | HALF MASK | | FULL FACE MASK | |
|--------|-----------|-------------------|----------------|-------------------|
| | NPF | MAX CONCENTRATION | NPF | MAX CONCENTRATION |
| GAS | 50 | 50xTLV | 2000 | 2000xTLV |
| GAS P3 | 48 | 48xTLV | 1000 | 1000xTLV |

*TLV: time-weighted average concentration of a substance to which the operator can be exposed without adverse health effects.

COMBINED FILTERS

In the presence of both gases/vapours as well as particulates, protection with combined filters is required. These filters combine a gas filter to a dust filter.

GUIDE TO THE SELECTION OF THE DEVICE

| PROCESS | PROTECTION | RECOMMENDED DEVICE | | | | | |
|--|----------------|------------------------|--------------------|----------------|--------------------------|---|----------------------|
| | | DISPOSABLE RESPIRATORS | | | RESPIRATORS WITH FILTERS | FILTERS (dto connect with a reusable respirator) | |
| | | ZERO SERIES | CLASSIC SERIES | FLICKIT SERIES | 8000 SERIES | 200/201 B-LOCK SERIES | 400 UNIVERSAL SERIES |
| BUILDING | | | | | | | |
| Masonry | FFP2 | | 128 BW, 129BW | 828, 829 | | | |
| Sandblasting | FFP3, P3 | 030, 031 | 505 BW, 525B | 860 | | 201-3, 202 | 401 |
| Asbestos reclamation | FFP3, P3 | 030, 031 | 505 BW, 525B | 860 | | | |
| Soil decontamination | ABE1P3 | | | | | 226 | |
| Bitumen, catrams | A2P3 | | | | 8100, 8600 | 221, 251 | 421 |
| WELDING | | | | | | | |
| Steel, zinc (gas, MIG/MAG) | FFP2 + carboni | | 225, 226B, 226B RS | 837 | | | |
| Steel alloy (with electrode) | FFP3 + carboni | 030C, 031C | | | | | |
| Brazing | FFP3 + carboni | 030C, 031C | | | | | |
| Stainless steel | FFP3, P3 | 030C, 031C | | | | 201-3, 202 | 401 |
| WOOD | | | | | | | |
| Cutting, grinding, drilling | FFP3, P3 | 030, 031 | | | | 201-3, 202 | 401 |
| Mordants, water-based diluents | FFP2 + carboni | | 225, 226B, 226B RS | 837 | | | |
| Solvent-based paint | A2P3 | | | | 8100, 8600 | 221, 251 | 421 |
| HYDROCARBONS | | | | | | | |
| Oil, petrol | A2P3 | | | | 8100, 8600 | 221, 251 | 421 |
| FOOD | | | | | | | |
| Flour and powder of cereals | FFP2 | | 128 BW, 129BW | 828, 829 | | | |
| Food preservatives | FFP2 | | 128 BW, 129BW | 828, 829 | | | |
| Coffee, spices, fish protein | FFP2 | | 128 BW, 129BW | 828, 829 | | | |
| AGRICULTURE / FARMING | | | | | | | |
| Pollen, animal hair | FFP2 | | 128 BW, 129BW | 828, 829 | | | |
| Pesticides, pesticides, herbicides | A2P2 | | | | 8100 | 211 + 301 | 421 |
| GALVANIZATION | | | | | | | |
| Degreasing | A2P3 | | | | 8100, 8600 | 221, 251 | 421 |
| Pickling, galvanizing | ABEK1P3 | | | | 8400 | 222 | 424 |
| Chromium, nickel and copper plating; tinning, brassing | ABE1P3 | | | | | 226 | |
| IN PRESENCE OF | | | | | | | |
| Dioxin | ABEK2HgP3 | | 225, 226B, 226B RS | 837 | | | 430* |
| Formaldehyde | ABE, ABEK | | | | | 213, 214, 222, 226, 242, 243, 253*, 254* | |
| Sulfur dioxide | ABE | | | | | 213, 242 | 414 |
| Hydrochloric acid | ABE | | | | | 213, 242 | 414 |
| Ammonia and derivatives | K | | | | | 244 | 413 |

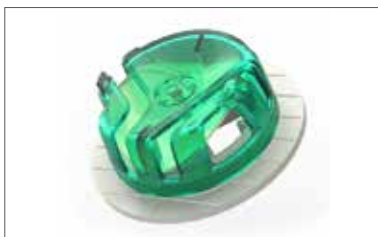
* these filters cannot be used with half masks because their weight is more than 300g

WARNING: This guide is only an exemplary scheme and should not be used as the only selecting criteria for the protection device. For more information, please contact info@blsgroup.it

SOME BASICS ON DISPOSABLE DEVICES

The minimum service life is one work shift.
They can only protect from particles, fumes and mists.
There are three classes of devices ranked according to filtering efficiency and inward leakage (FFP1, FFP2, FFP3).

Main features /



EXHALATION VALVE / Helps to ease the breathing resistance and dissipates heat and humid air exhaled by the user.

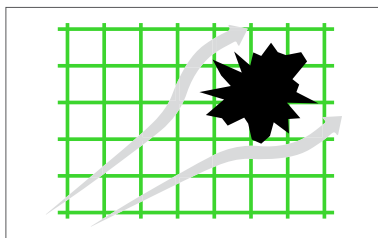


FACE SEAL / A foamy strip placed around the respirator is essential to guarantee maximum protection avoiding air flows passing through unsealed borders. It can be partial (sealing the upper nose) or complete.

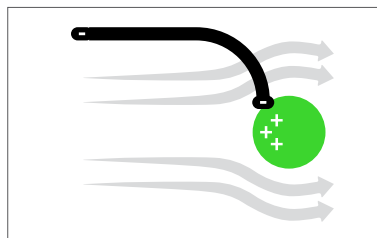


NOSE CLIP / Along with the face seal it secures the fit of the respirator to the most critical part of the face among users, the upper nose.

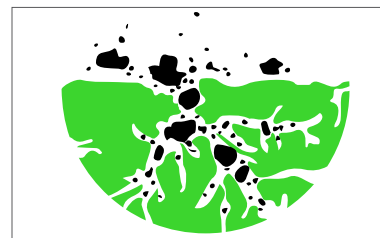
Filtration principles /



MECHANICAL / The filtering material has a net structure with meshes blocking particles bigger than the net of fibres.



ELECTROSTATIC / Smaller particles are subject to a further filtration by the electrostatically charged filtering material. Therefore, the smaller the particulate, the stronger is the electrostatic attraction.

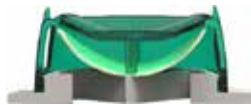
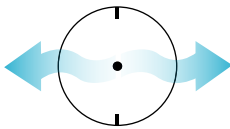


ACTIVATED CARBONS / A layer impregnated with activated carbons could be added to the filtering material enhancing the protection and comfort of the product in presence of nuisance odours.

BLS TECHNOLOGIES FOR DISPOSABLE PRODUCTS

EOLO

Eolo Technology is our latest fastening system of the ultralight membrane of the exhalation valve which is fixed on three aligned points instead of a single one concentrating the exhaled air into two zones of maximum aperture, 30% wider than before. With these improvements breathing resistance decreases significantly.



NANOFILTRATION

If inhaled, nanoparticles (between 1 and 100 nanometers wide), are able to cross cellular membranes reaching internal organs and potentially cause severe harm to the body being very difficult to dispose. Specific tests have helped us to develop a filtering medium able to successfully block the access of such substances. With NANOFILTRATION, BLS can guarantee a new standard of protection against nanoparticles.



0.001 μm



0.4 μm

MICROPARTICLES

10 μm



ARMOR

It's an external layer that ensures the protection of the filtering material from dirt, dust and liquids as well as the normal mechanical stress extending and preserving filtering efficiency and making the device safer.



DISPOSABLE PRODUCTS / CUP SHAPED FILTERING FACEPIECES

BLS ZERO SERIES



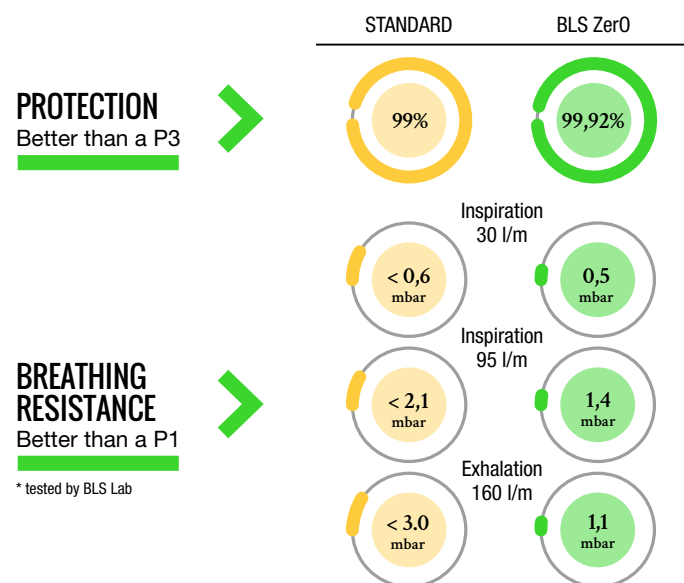
WATCH THE VIDEO

youtube.com/user/BLSRespiratory1

Why ZerØ ? /

Why give up maximum comfort if you can have it with the best protection?

BLS ZerØ is designed to offer both: **maximum protection and maximum comfort**. It includes only FFP3 models but provides a breathing resistance comparable to a FFP1 respirator.



Features /

01

ANATOMIC

The pre-formed and elastic support makes an easier and reliable fit to all kinds of faces. It offers an excellent visual field and a great compatibility with glasses.

02

FACE SEAL

It is made of a soft foam coupled with a technical fabric providing excellent compression and deformation combined with an elevated user's comfort. The textile layer is very smooth and pleasant to the touch, absorbs sweat and keeps the skin cool and dry.

PROTECT YOURSELF BETTER.
BREATHE BETTER.

Available products /

| CODE | CODE for SINGLE PACKED | PRODUCT | PROTECTION | EXHALATION VALVE | WELDED STRAPS | CARBON LAYER | GASKET | PROTECTIVE LAYER |
|---------|------------------------|----------------|------------|------------------|---------------|--------------|----------|------------------|
| 8006295 | 8006302 | BLS ZerØ 30 NV | FFP3 NR D | | ✓ | | partial | ✓ |
| 8006296 | 8006303 | BLS ZerØ 30 | FFP3 NR D | ✓ | ✓ | | partial | ✓ |
| 8006297 | 8006304 | BLS ZerØ 31 | FFP3 R D | ✓ | ✓ | | complete | ✓ |
| 8006299 | 8006306 | BLS ZerØ 30 C | FFP3 NR D | ✓ | ✓ | ✓ | partial | ✓ |
| 8006301 | 8006308 | BLS ZerØ 31 C | FFP3 R D | ✓ | ✓ | ✓ | complete | ✓ |



03

EXTERNAL PROTECTIVE LAYER

It is an external protective layer that ensures the protection of the filtering material from dirt, dust and liquids as well as the normal mechanical stress due to prolonged use thus extending and preserving filtering efficiency and making the device safer.

04

IT BREATHES!

The ratio of transmission of water vapour through the material is 4500 g/sqm*24hrs. A value that defines materials of a high transpiration range making it ideal for hard physical work.



01

04



04



03



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS

FILTERS

DISPOSABLE PRODUCTS / FOLDABLE FILTERING FACEPIECES

BLS Flickit SERIES



WATCH THE VIDEO

youtube.com/user/BLSRespiratory1

One size fits all /



Features /

01

FOLDS

Allow the respirator to be pocket sized and able to be distributed with alternative solutions such as vending machines.

02

FIT

The wide surface gives a lower breathing resistance and an excellent fit.

03

HYGIENE

Very well preserved by the single package on all models and by the possibility to unfold the device without touching the inner mask in direct contact with the face.

Single packed & pocket size /

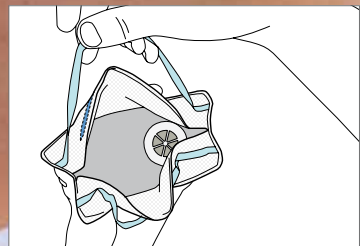
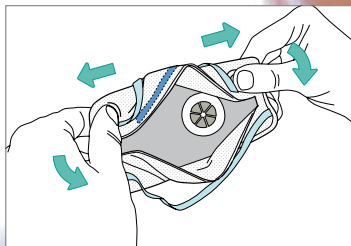
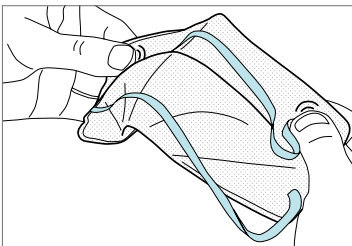


Available products /

| CODE | PRODUCT | PROTECTION | EXHALATION VALVE | SINGLE PACKED | WELDED STRAPS | CARBON LAYER |
|---------|---------|------------|------------------|---------------|---------------|--------------|
| 8006170 | BLS 820 | FFP1 NR D | | ✓ | ✓ | |
| 8006171 | BLS 822 | FFP1 NR D | ✓ | ✓ | ✓ | |
| 8006172 | BLS 828 | FFP2 NR D | | ✓ | ✓ | |
| 8006173 | BLS 829 | FFP2 NR D | ✓ | ✓ | ✓ | |
| 8006256 | BLS 837 | FFP2 NR D | ✓ | ✓ | ✓ | ✓ |
| 8006174 | BLS 860 | FFP3 R D | ✓ | ✓ | ✓ | |



03



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS

FILTERS

DISPOSABLE PRODUCTS / CUP SHAPED FILTERING FACEPIECES

BLS CLASSIC SERIES

Historical series / Wide choice of protection factors and features to accommodate any specific need.



Features /

01

FACEPIECE

The shape of the device offers a reduced breathing resistance.

02

NOSE CLIP

Located between two internal layers, it is not in direct contact with the face.

Available products /

| CODE | CODE for SINGLE PACKED | PRODUCT | PROTECTION | EXHALATION VALVE | WELDED STRAPS | ADJUSTABLE STRAPS | CARBON LAYER | GASKET |
|---------|------------------------|-----------------------------|----------------------------------|------------------|---------------|-------------------|--------------|---------|
| 8006186 | 8006212 | BLS 120BW | FFP1 NR D | | ✓ | | | partial |
| 8006187 | 8006213 | BLS 122BW | FFP1 NR D | ✓ | ✓ | | | partial |
| 8006149 | - | BLS 212B | FFP1 NR D | | | | ✓ | partial |
| 8006150 | - | BLS 213B | FFP1 NR D | ✓ | | | ✓ | partial |
| 8006188 | 8006214 | BLS 128BW | FFP2 R D | | ✓ | | | partial |
| 8006184 | 8006211 | BLS 129BW | FFP2 R D | ✓ | ✓ | | | partial |
| 8006153 | - | BLS 225B | FFP2 NR D | | | | ✓ | partial |
| 8006154 | 8006037 | BLS 226B | FFP2 NR D | ✓ | | | ✓ | partial |
| 8006155 | 8006101 | BLS 226B RS | FFP2 NR D | ✓ | | ✓ | ✓ | total |
| 8006282 | - | BLS 226B RS Flame Retardant | FFP2 NR D flame retardant | ✓ | | ✓ | ✓ | total |
| 8006131 | 8006030 | BLS 217B | FFP2 NR D acid gases and vapours | ✓ | | | ✓ | partial |
| 8006189 | 8006215 | BLS 505BW | FFP3 R D | ✓ | ✓ | | | total |
| 8006157 | 8006049 | BLS 525B | FFP3 R D | ✓ | | ✓ | | total |

03

**AVAILABLE WITH
ACTIVATED CARBONS**

Activated carbons protect from acid and organic gases-vapours and ozone below the Threshold Limit Value (TLV), specific for every substance.

04

WELDED ELASTICS

Developed to eliminate all exposed metal parts.

05

ADJUSTABLE ELASTICS

Allow to have a custom fit. The textile fibre lets the skin breathe and doesn't rub the hair.



SOME BASICS ON REUSABLE DEVICES

Full face masks are divided according to the type of application:

1- Light, 2- General, 3- Special.

Gas filters can be classified according to duration (gases and vapours), efficiency (particles) or both (combined).

Particle filters can be classified, according to filtering efficiency.

Main features /



HALF MASKS / The use of a half mask can reduce the fatigue and stress of breathing and may be the best option in many cases. It is essential to analyse each risk and determine the correct protection needed.



FULL FACE MASKS / Protect the whole face and ensure a higher protection factor. They can be used in combination with supplied-air products or PAPR.



FILTERS / They are connected to the mask. They can protect from particles, gases&vapours or a combination of both. The same filter can sometimes be used in both half or full face mask, depending on its features.

Filter types /



PARTICLES / Particles filtration is ensured by means of a pleated medium. The pleating of the material ensures a higher filtering surface and reduces breathing fatigue.



GASES&VAPOURS / Gases and vapours are adsorbed by activated carbons grains. This material is characterized by a high porosity structure that traps gases and vapours in its surface. They can be treated to adsorb selectively one or more groups of specific substances.



COMBINED / Combined filters are built with two sections, the first one with a pleated medium for particles filtration, the second one with activated carbons, for gases and vapours protection.

FILTERS TECHNOLOGY FOR REUSABLE DEVICES

BLS's products range is the result of almost 50 years of experience on field. In addition to the universal connection (EN 148-1) BLS developed a simplified twin connection to meet the highest performances and security standards.

BAYONET CONNECTION

This connection is highly intuitive, allowing a quick and safe hold on the mask. It has a locking feedback allowing the user to know if the filter has been properly placed.



UNIVERSAL CONNECTION EN 148-1

Standard thread connection according to EN 148-1, universal among all respiratory protection devices.



ACTIVATED CARBON

The quality of the activated carbons used by BLS for the filtration of gases and vapours meets high standards of safety ensuring excellent filtration performances. They are produced without toxic additives such as Hexavalent Chromium (Cr VI) and they are food grade certified (REGVE231 / 2017).

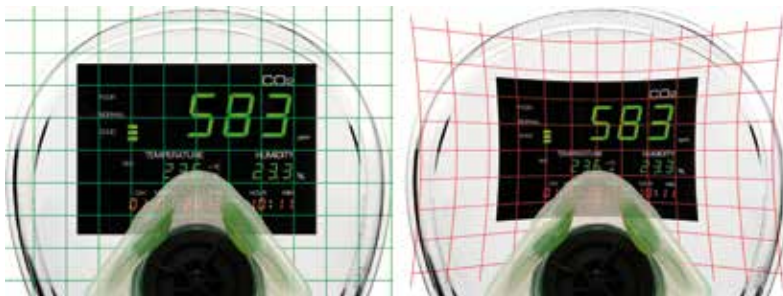


BLS TECHNOLOGY FOR REUSABLE DEVICES

LIVE VISOR

Optical class 1 (EN 166) allows a panoramic visual field without optical distortions. A vitrification treatment on its surface makes it scratch resistant.*

* Eye protectors with no corrective effects are categorized in 3 classes depending on their spherical, astigmatic and prismatic optical imperfections (EN 166). Class 1 is the best quality class attainable. BLS full face masks with Live Visor technology are tested to reach optical class 1.



VISOR
Optical class 1

VISOR
Lower optical class

K-OMFORT

The harness is fixed on 6 points directly on the rigid body of the mask in order not to deform the face seal. It allows to distribute the weight of the respirator evenly without leaving face marks.



ANTI-FOG

Designed to avoid visor fogging through the control of the cold and hot air flows inside the mask, instead of treatments which can easily be spoiled with use.



REUSABLE PRODUCTS / HALF MASK

BLS 4000 SERIES



WATCH THE VIDEO

youtube.com/user/BLSRespiratory1

Available in two sizes /



Features /

01

EASY AND FAST MAINTENANCE

It can be disassembled in less than a minute making cleaning and maintenance much easier.

02

FACE PIECE

Available in soft thermoplastic rubber (4000 R) or silicone rubber (4000 S) and in two sizes (S/M and M/L) for better comfort and perfect fit.

03

HARNES

Fixed on 2 points directly on the rigid body of the mask allowing to distribute the weight of the respirator evenly without leaving face marks.

Ready to use kits: mask + filters /



Available products /

| CODE | PRODUCT | FACE SEAL | SIZE |
|---------|------------|----------------------|------|
| 8002079 | BLS 4000 R | Thermoplastic rubber | S/M |
| 8002080 | BLS 4000 R | Thermoplastic rubber | M/L |
| 8002081 | BLS 4000 S | Silicone rubber | S/M |
| 8002082 | BLS 4000 S | Silicone rubber | M/L |



Compatible with /

200/201 SERIES FILTERS (pg36/37)



04

BAYONET CONNECTION

This connection is highly intuitive allowing a quick and safe hold on the mask. It has a locking feedback allowing the user to know if the filter has been properly placed.



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / HALF MASKS

Ready to use kit / Half mask 4000 S or R* S/M + filters

| CODE | KIT | FILTERS | PROTECTION | DESCRIPTION |
|---------|------------|-----------------------------------|------------|--|
| 8002072 | BLS 4100 | + BLS 211 + BLS 301 (pre-filters) | A2P2 NR | Organic gases and vapours (bp > 65°C) and dust |
| 8002073 | BLS 4400 | + BLS 222 | ABEK1P3 R | Organic, inorganic and acid gases and vapours and ammonia, dust and formaldehyde |
| 8002066 | BLS 4500 | + BLS 202 | P3 R | Dust |
| 8002074 | BLS 4600 | + BLS 221 | A2P3 R | Organic gases and vapours (bp > 65°C) and dust |
| 8002092 | BLS 4100R* | + BLS 221 + BLS 301 (pre-filters) | A2P2 NR | Organic gases and vapours (bp > 65°C) and dust |

FILTERS

REUSABLE PRODUCTS / HALF MASK

BLS SGE46

Optimal fit /



Features /

01

FACE PIECE

The face piece made of silicone rubber is designed to universally adapt to all face sizes giving a better comfort and perfect fit.

02

HARNES

Standard thread for respiratory fixed on 2 points directly on the rigid body of the mask allowing to distribute the weight of the respirator evenly without leaving face marks.

03

UNIVERSAL CONNECTION

Standard thread connection according to EN 148-1, universal among all respiratory protection devices.

Available products /

| CODE | PRODUCT | FACE SEAL | SIZE |
|---------|---------|-----------------|------|
| 8002059 | SGE46 | Silicone rubber | U |



Compatible with /
400 SERIES FILTERS (pg35)



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / HALF MASKS

REUSABLE PRODUCTS / READY TO USE

BLS 8000 SERIES

Ready to use and maintenance free /

This half masks does not require maintenance and is ready to use. The mask is simply replaced when the filters are used up.



SIMPLICITY
of disposable product



PROTECTION
of reusable product



Features /

01

SIMPLE LIKE A DISPOSABLE PROTECTING LIKE A REUSABLE

This mask combines the simplicity of disposable products with the protection of the reusable ranges offering an easy-to-implement and certified protection against both PARTICLES and GASES.

02

ACTIVATED CARBONS

The quality of the activated carbons used by BLS for the filtration of gases and vapours meets high standards of safety ensuring excellent filtration performances. They are produced without toxic additives such as Hexavalent Chromium (Cr VI) and are food grade certified (REGVE231 / 2017).

03

FACE PIECE

The facepiece is made of a durable and hypoallergenic thermoplastic elastomer. It is certified for alimentary use and talcum perfumed.

Available products /

| CODE | PRODUCT | FACE SEAL | PROTECTION |
|---------|----------|----------------------|------------|
| 8002098 | BLS 8100 | Thermoplastic rubber | A2P2 R D |
| 8002050 | BLS 8600 | Thermoplastic rubber | A2P3 R D |



04

DESIGN AND VISUAL FIELD

The shape of the mask offers a perfect seal without any unpleasant pressure on the nose or mouth of the user. It also allows high visibility and low interference with the visual field thanks to the lower positioning of the filters and to its compact size.

05

FILTER PROTECTIVE LAYER

It's an external layer that ensures the protection of the filtering material from dirt, dust and liquids as well as the normal mechanical stress due to prolonged, use thus extending and preserving filtering efficiency and making the device safer.

04



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / READY TO USE

REUSABLE PRODUCTS / FULL FACE MASK

BLS 5000 SERIES

High resistance /



Features /

01

FACE SEAL

Available in soft thermoplastic rubber (BLS 5600) or silicone rubber (BLS 5700) both with FDA certification for a higher safety.

02

BAYONET CONNECTION

This connection is highly intuitive allowing a quick and safe hold on the mask. It has a locking feedback allowing the user to know if the filter has been properly placed.

03

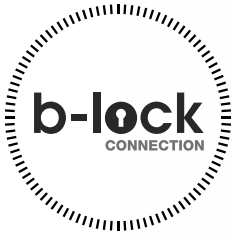
FACE PIECE IN SILICONE

Guarantees performance and duration.

Available products /

| CODE | PRODUCT | CLASS | FACE SEAL | VISOR | HOOD |
|---------|------------|-------|----------------------|------------|------|
| 8001083 | BLS 5600 | 2 | Thermoplastic rubber | Live Visor | |
| 8001036 | BLS 5700 | 2 | Silicone rubber | Live Visor | |
| 8001097 | BLS 5700/C | 2 | Silicone rubber | Live Visor | ✓ |

* Compatible with / **200/201 SERIES FILTERS** (pg36/37)



04

ANTI-FOG

Designed to avoid visor fogging through the control of the cold and hot air flows inside the mask, instead of treatments which can easily be spoiled with use.

05

VISOR

Optical class 1 (EN 166), allows a panoramic visual field without optical distortions. A vitrification treatment on its surface makes it scratch resistant.

06

HARNESS

Fixed on 6 points directly on the rigid body of the mask in order not to deform the face seal. It allows to distribute the weight of the respirator evenly without leaving face marks.



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / FULL FACE MASKS

FILTERS

REUSABLE PRODUCTS / FULL FACE MASK

BLS 5000 SERIES

Easy removal /



Features /

01

FACE SEAL

Available in soft thermoplastic rubber (BLS 5150) or silicone rubber (BLS 5400 and 5400/C) both with FDA certification for a higher safety.

02

UNIVERSAL CONNECTION

Standard thread connection according to EN 148-1, universal among all respiratory protection devices.

03

FACE PIECE IN SILICONE

Guarantees performance and duration.

04

ANTI-FOG

Designed to avoid visor fogging through the control of the cold and hot air flows inside the mask, instead of treatments which can easily be spoiled with use.

Available products /

| CODE | PRODUCT | CLASS | FACE SEAL | VISOR | HOOD |
|---------|------------|-------|----------------------|------------|------|
| 8001035 | BLS 5150 | 3 | Thermoplastic rubber | Live Visor | |
| 8001039 | BLS 5400 | 3 | Silicone rubber | Live Visor | |
| 8001084 | BLS 5400/C | 3 | Silicone rubber | Live Visor | ✓ |



Compatible with /

400 SERIES FILTERS (pg35)



05

VISOR

Optical class 1 (EN 166), allows a panoramic visual field without optical distortions. A vitrification treatment on its surface makes it scratch resistant.

06

HARNESS

Fixed on 6 points directly on the rigid body of the mask in order not to deform the face seal. It allows to distribute the weight of the respirator evenly without leaving face marks.



Hood

Anti-acid hood covers head, shoulders and upper torso, eliminating any contaminate penetration. **98.5%** permeation resistant to Sulphuric Acid.

DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / FULL FACE MASKS

FILTERS

REUSABLE PRODUCTS / FULL FACE MASK

BLS 3000 SERIES

Glass visor /



Features /

01

FACE SEAL

Available in EPDM (BLS 3150)
or in silicone (BLS 3400).

02

UNIVERSAL CONNECTION

Standard thread connection according to EN 148-1, universal among all respiratory protection devices.

03

ANTI-FOG

Designed to avoid visor fogging through the control of the cold and hot air flows inside the mask, instead of treatments which can easily be spoiled with use.

Available products /

| CODE | PRODUCT | CLASS | FACE SEAL | VISOR |
|---------|-----------|-------|-----------------|---------------|
| 8001064 | BLS 3150 | 2 | EPDM | polycarbonate |
| 8001066 | BLS 3150V | 2 | EPDM | glass |
| 8001065 | BLS 3400 | 2 | Silicone rubber | polycarbonate |



Compatible with /
400 SERIES FILTERS (pg35)



04

GLASS VISOR

It is a safety glass laminated with an EVA anti-fragmentation film which holds the pieces together if shattered. It gives a strong resistance against chemicals.



DISPOSABLE PRODUCTS

REUSABLE PRODUCTS / FULL FACE MASKS

FILTERS

FILTERS / UNIVERSAL CONNECTION EN 148-1

BLS 400 SERIES



Compatible with /

HALF MASK RESPIRATORS BLS SGE46 (pg24)

FULL FACE MASK RESPIRATORS BLS 5000 SERIES (5150, 5400, 5400C) (pg30)

FULL FACE MASK RESPIRATORS BLS 3000 SERIES (pg33)



Available products /

| CODE | PRODUCT | PROTECTION | COLOUR CODE |
|---------|-------------------|---|-------------|
| 8011002 | 411 A2 | Organic gases and vapours, class 2 | ● |
| 8011023 | 412 AX | Organic gases and vapours with a boiling point lower than 65° C | ● |
| 8011005 | 413 K2 | Ammonia and derivatives, class 2 | ● |
| 8011016 | 414 ABE2 | Organic, inorganic and acid gases and vapours, class 2 | ● ● ● |
| 8011007 | 415 ABEK2 | Organic, inorganic and acid gases and vapours and ammonia and derivatives, class 2 | ● ● ● ● |
| 8011008 | 421 A2P3 R * | Organic gases and vapours, class 2 and dust | ● ○ |
| 8011024 | 422 AXP3 NR | Organic gases and vapours with a boiling point lower than 65°C and dust | ● ○ |
| 8011017 | 423 ABE2P3 R * | Organic, inorganic and acid gases and vapours, class 2 and dust | ● ● ● ○ |
| 8011022 | 424 ABEK1P3 R | Organic, inorganic and acid gases and vapours, ammonia, class 1 and toxic dust | ● ● ● ● ○ |
| 8011012 | 425 ABEK2P3 R * | Organic, inorganic and acid gases and vapours, ammonia, class 2 and dust | ● ● ● ● ○ |
| 8011013 | 401 P3 R | Dust | ○ |
| 8011014 | 430 ABEK2HgP3 R * | Organic, inorganic and acid gases and vapours and ammonia and derivatives, mercury class 2 and dust | ● ● ● ● ○ ● |

* this filter cannot be used with half masks because its weight is more than 300g

FILTERS / BAYONET CONNECTION

BLS 200 SERIES



Compatible with /

HALF MASK RESPIRATORS BLS 4000 SERIES (pg22)

FULL FACE MASK RESPIRATORS BLS 5000 SERIES (5600, 5700) (pg28)



Available products /

| CODE | PRODUCT | PROTECTION | COLOUR CODE |
|---------|-------------------------|---|-------------|
| 8011109 | 211 A2 | Organic gases and vapours, class 2 | ● |
| 8011110 | 213 ABE1 | Organic, inorganic and acid gases and vapours, class 1 and formaldehyde | ● ● ● |
| 8011111 | 214 ABEK1 | Organic, inorganic and acid gases, vapours, ammonia and derivatives, class 1 and formaldehyde | ● ● ● ● |
| 8011112 | 221 A2P3 R | Organic gases and vapours, class 2 and dust | ● ○ |
| 8011113 | 222 ABEK1P3 R | Organic, inorganic and acid gases and vapours and ammonia and derivatives, class 1, dust and formaldehyde | ● ● ● ● ○ |
| 8011145 | 226 ABE1P3 R | Organic, inorganic and acid gases and vapours, class 1, dust and formaldehyde | ● ● ● ○ |
| 8011118 | 202 P3 R | Dust | ○ |
| 8011132 | 241 A2 long lasting | Organic gases and vapours, class 2 | ● |
| 8011205 | 212 AX | Organic gases and vapours with a boiling point lower than 65° C | ● |
| 8011133 | 242 ABE2 | Organic, inorganic and acid gases and vapours, class 2 and formaldehyde | ● ● ● |
| 8011114 | 243 ABEK2 | Organic, inorganic and acid gases, vapours, ammonia and derivatives, class 2 and formaldehyde | ● ● ● ● |
| 8011134 | 244 K2 | Ammonia and derivatives, class 2 | ● |
| 8011138 | 251 A2P3 R long lasting | Organic gases and vapours, class 2 and dust | ● ○ |
| 8011206 | 225 AXP3 NR | Organic gases and vapours with a boiling point lower than 65°C and dust | ● ○ |
| 8011140 | 253 ABE2P3 R * | Organic, inorganic and acid gases and vapours, ammonia, class 2, dust and formaldehyde | ● ● ● ○ |
| 8011141 | 254 ABEK2P3 R * | Organic, inorganic and acid gases and vapours and ammonia and derivatives, class 2, dust and formaldehyde | ● ● ● ● ○ |
| 8011042 | 301 P2 NR Prefilter | Dust prefilter mounted on 211, 213, 214, 241, 243, 244 | ○ |

* this filter cannot be used with half masks because its weight is more than 300g

FILTERS / BAYONET CONNECTION

BLS 201 SERIES



Compatible with /

HALF MASK RESPIRATORS BLS 4000 SERIES (pg22)

FULL FACE MASK RESPIRATORS BLS 5000 SERIES (5600, 5700) (pg28)



Available products /

| CODE | PRODUCT | PROTECTION | CARBON LAYER |
|---------|-----------------|--------------------------|--------------|
| 8011218 | BLS 201-3 P3 R | Dust | |
| 8011219 | BLS 201-3C P3 R | Dust and nuisance odours | ✓ |

REUSABLE PRODUCTS / ACCESSORIES



C43

Washable bag for half mask and filters.



C41

Washable bag with shoulder belt for full face masks and filters



C22

Frame for prescription lenses for full face mask 5000 series.



C23

Frame for prescription lenses for full face mask 3000 series.



K15

Polycarbonate visor cover for full face mask 5000 series. Applications: in sandblasting and in presence of abrasive substances.



K19 / K16

Protective film in acetate for full face mask 5000 series (K19) and 3000 series (K16). Applications: Industrial painting and in presence of chemical splashes.



C10

Textile harness for full face mask more comfortable especially with long hair.



C90

Wall mounted container for full face mask and filters.

AN OVERVIEW OF BLS RESPIRATORY PROTECTION PRODUCTS



BLS Zer0



BLS Classic



BLS Flickit



BLS 8000



BLS 4000 S



BLS 4000 R



BLS 5700



BLS 5600



BLS SGE46



BLS 5400



BLS 5150



BLS 3150



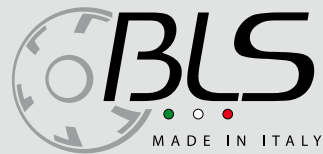
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BLS srl declines any responsibility, direct or indirect, from any misuse of both devices and instructions. The user is responsible for the determination of product compliance with the intended use.

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BLS, since 1970



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