



FEEL FREE
TO BREATHE



TABLE OF CONTENTS

1	TABLE OF CONTENTS
2	ABOUT BLS
	BLS, OUR MILESTONES
	BLS, 48 YEARS OF PRODUCTS, SERVICE AND EXPERTISE
6	SOME BASICS ON
	DISPOSABLE DEVICES
	REUSABLE DEVICES
8	DEVICE SELECTION GUIDE
10	DISPOSABLE DEVICES
	CUP SHAPED RESPIRATORS
12	BLS ZERO SERIES
	FLAT FOLDABLE RESPIRATORS
14	BLS FLICKIT SERIES
	CUP SHAPED RESPIRATORS
16	BLS CLASSIC SERIES
19	REUSABLE DEVICES
	HALF MASK
22	BLS 4000 SERIES — <i>b-lock connection</i>
23	READY TO USE KIT BLS 4000 — <i>b-lock connection</i>
24	BLS SGE46 — <i>Universal connection</i>
	READY TO USE
26	BLS 8000 SERIES
	FULL FACE MASK
28	BLS 5000 SERIES — <i>b-lock connection</i>
30	BLS 5000 SERIES — <i>Universal connection</i>
32	BLS 3000 SERIES — <i>Universal connection</i>
35	FILTERS
35	BLS 400 SERIES — <i>Universal connection</i>
36	BLS 200 SERIES — <i>b-lock connection</i>
37	BLS 201 SERIES — <i>b-lock connection</i>
38	ACCESSORIES
39	AN OVERVIEW ON BLS RESPIRATORY PROTECTION PRODUCTS

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.





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.



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.



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

An 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, taylor-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	$\geq 10\text{mg}/\text{m}^3$	$0.1 < > 10\text{mg}/\text{m}^3$	$\leq 0.1\text{mg}/\text{m}^3$

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 derivates
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 (to 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.

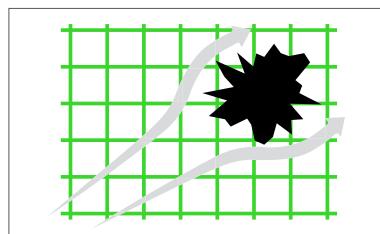


FACE SEAL / A foamy strip placed around the respirator is essential to guarantee maximum protection avoiding air flows passing through unsealed borders. It can be partial (sealing the upper nose) or complete.

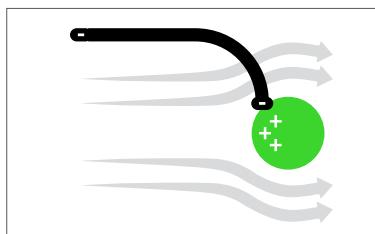


NOSE CLIP / Along with the face seal it secures the fit of the respirator to the most critical part of the face among users, the upper nose.

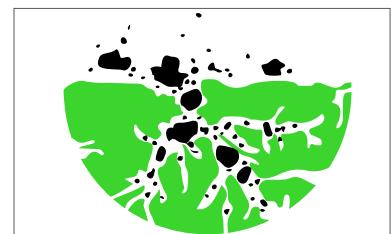
Filtration principles /



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

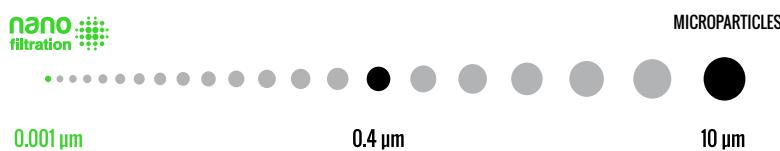
EOLO

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.



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



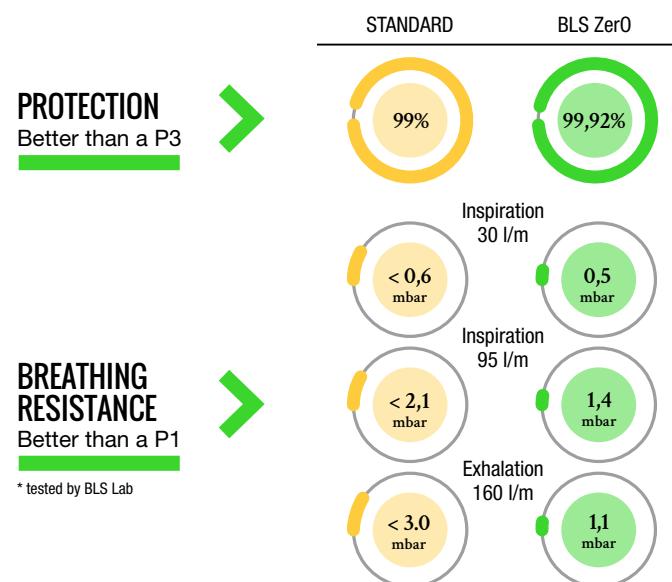
WATCH THE VIDEO

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.



* tested by BLS Lab

PROTECT YOURSELF BETTER.
BREATHE BETTER.

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.

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	✓

nano
filtration

SOLO
technology

ARMOR

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.

04



04



03



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 /

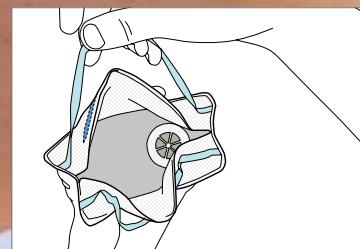
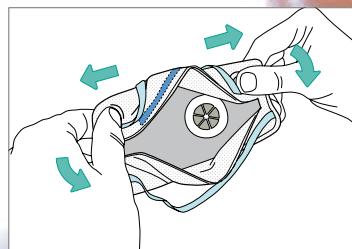
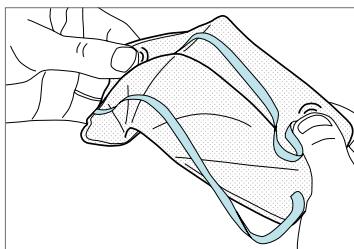


Available products /

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 / 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 fibres let the skin breathe and don'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 /



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

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

HARNESS

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.



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.



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

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

HARNESS

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

FILTERS

REUSABLE PRODUCTS / READY TO USE

BLS 8000 SERIES

Ready to use and maintenance free /

This half mask 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



Available products /

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

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.



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



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.



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

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	✓



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.

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.



Compatible with /

400 SERIES FILTERS (pg35)

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	✓



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 contaminant penetration.

98.5% permeation resistant to Sulphuric Acid.

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.



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
8011013	401 P3 R	Dust	○
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	●
8011111	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 ⁽¹⁾	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 dust	● ● ○ ○ ○
8011012	425 ABEK2P3 R ^{(1) (2)}	Organic, inorganic and acid gases and vapours, ammonia, class 2 and dust	● ● ○ ○ ○
8011014	430 ABEK2HgP3 R ^{(1) (2)}	Organic, inorganic and acid gases and vapours and ammonia and derivatives, mercury vapours class 2 and dust	● ● ○ ○ ○ ○

(1) these filters cannot be used with half masks because their weight is greater than 300g

(2) these filters are tested against hydrogen fluoride

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
8011118	202 P3 R	Dust	○
8011109	211 A2	Organic gases and vapours, class 2	●
8011205	212 AX	Organic gases and vapours with a boiling point lower than 65° C	●
8011110	213 ABE1	Organic, inorganic and acid gases and vapours, class 1	● ○ ○
8011111	214 ABEK1	Organic, inorganic and acid gases, vapours, ammonia and derivatives, class 1	● ○ ○ ○
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 and dust	● ○ ○ ○ ○
8011206	225 AXP3 NR ⁽²⁾	Organic gases and vapours with a boiling point lower than 65°C and dust	● ○
8011145	226 ABE1P3 R	Organic, inorganic and acid gases and vapours, class 1 and dust	● ○ ○ ○
8011132	241 A2 ⁽⁴⁾	Organic gases and vapours, class 2	●
8011133	242 ABE2 ⁽³⁾	Organic, inorganic and acid gases and vapours, class 2	● ○ ○
8011114	243 ABEK2 ⁽³⁾	Organic, inorganic and acid gases, vapours, ammonia and derivatives, class 2	● ○ ○ ○
8011134	244 K2	Ammonia and derivatives, class 2	● ○
8011138	251 A2P3 R ⁽⁴⁾	Organic gases and vapours, class 2 and dust	● ○
8011140	253 ABE2P3 R ⁽¹⁾	Organic, inorganic and acid gases and vapours, ammonia, class 2 and dust	● ○ ○ ○
8011141	254 ABEK2P3 R ^{(1) (2)}	Organic, inorganic and acid gases and vapours and ammonia and derivatives, class 2 and dust	● ○ ○ ○ ○
8011042	301 P2 NR ⁽⁵⁾	Dust	○

(1) these filters cannot be used with half masks because their weight is greater than 300g

(2) these filters are tested against hydrogen fluoride

(3) these filters are tested against formaldehyde

(4) these filters have long duration

(5) dust prefilter mounted on gas filters BLS 211, 213, 214, 241, 243, 244

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 ZerO



BLS Classic



BLS Flickit



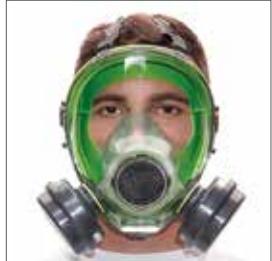
BLS 8000



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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