



OUR PRODUCTS  
**2025**

**Spasclani**  
YOUR SAFETY MAKER

**SIBOL**  
EUROPEAN SAFETY MANUFACTURER



## SPASCIANI 1892

In 1892 Riccardo Spasciani understands the importance of designing and creating equipment to prevent accidents at the workplace and settles in a small laboratory in the heart of old Milan his company, which still bears his name.



# YOUR SAFETY MAKER

Thanks to a rapid and significant increase during the XX century, the Company moves first to Baranzate, where it remains for 46 years and then to Origgio, in a modern building which is now its General Headquarters. Here there are the administrative and commercial offices, the production and the laboratories of the Research and Development department. The Laboratory, which has been always the pride of SPASCIANI, represents its essence and identity. All products are developed and then checked according to the European Standards thanks to specific instruments. The military masks and the goggles for the soldiers of the First World War, the dust masks for the workers of XX century and the oxygen breathing apparatus for miners and fire fighters were born here. Thanks to its history full of important goals, SPASCIANI is now recognized as one of the most dynamic and solid companies of the sector, with its original patents which are still unique in the survey of the personal protective equipment. Leader in Italy, SPASCIANI has

a recognized position on the international market, thus acquiring the status of excellence of Made in Italy. Despite the numerous goals achieved in time, SPASCIANI SPA has never stopped covering its route in search of continuous innovation and excellence.

It's this spirit that has guided the Company up to the acquisition of NUEVA SIBOL in Spain in June 2019.

The Spanish Company represents a fundamental asset for the growth of the Group. SPASCIANI SPA strengthens its production capacity in the filtration segment - high turnover market - and introduces in its commercial network new products such as disposable half masks, hearing protection devices and a new line of half masks and cartridges. Moreover, the Group strengthens its position on the European market in a significant way.

## THE RESEARCH

### Passion for research and innovation.

SPASCIANI design and creation focus in Origgio lab.

All products are tested in the laboratory, which certifies the quality and reliability according to the European rules and regulations, which govern the production and commercialization of PPE.

Each product is the result of a continuous and precise research, which never betrays company history and identity, and always finds new materials and innovative solutions.

The aim is just to create unique products through pioneer technologies in order to safeguard the human life.



# PRODUCTS & SERVICES

SPASCIANI offers a wide range of products which are conceived and produced for the protection of the breathing ways. They are divided in filtering devices (to be used in environments with oxygen value >17%) and isolating devices (PPE independent from the surrounding environment, to be used in case it's not enough to filter the air). To complete the offer, SPASCIANI produces and distributes devices for the hearing protection and technical spectacles and visors for the eye protection.

Every day Spasciani is engaged in the search and conception of innovating solutions to ensure the best assistance to customers which have chosen this brand worldwide

As a matter of fact, there are numerous services and support activities, adapted to individual needs:

- Training courses
- Ordinary and extraordinary maintenance plans
- Support for choosing the best suitable product
- Feasibility study for new products
- Chemical and physical tests in the laboratory

## APPLICATION AREAS



Firefighting



Asbestos removal



Agriculture and food industry



Chemical industry



Construction industry



Pharma industry



Wood industry



Mechanical industry



Marine MED



Refinery oil & gas



Sand blasting



Confined spaces



Painting



Escape

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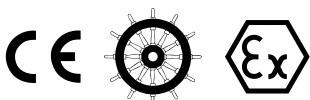
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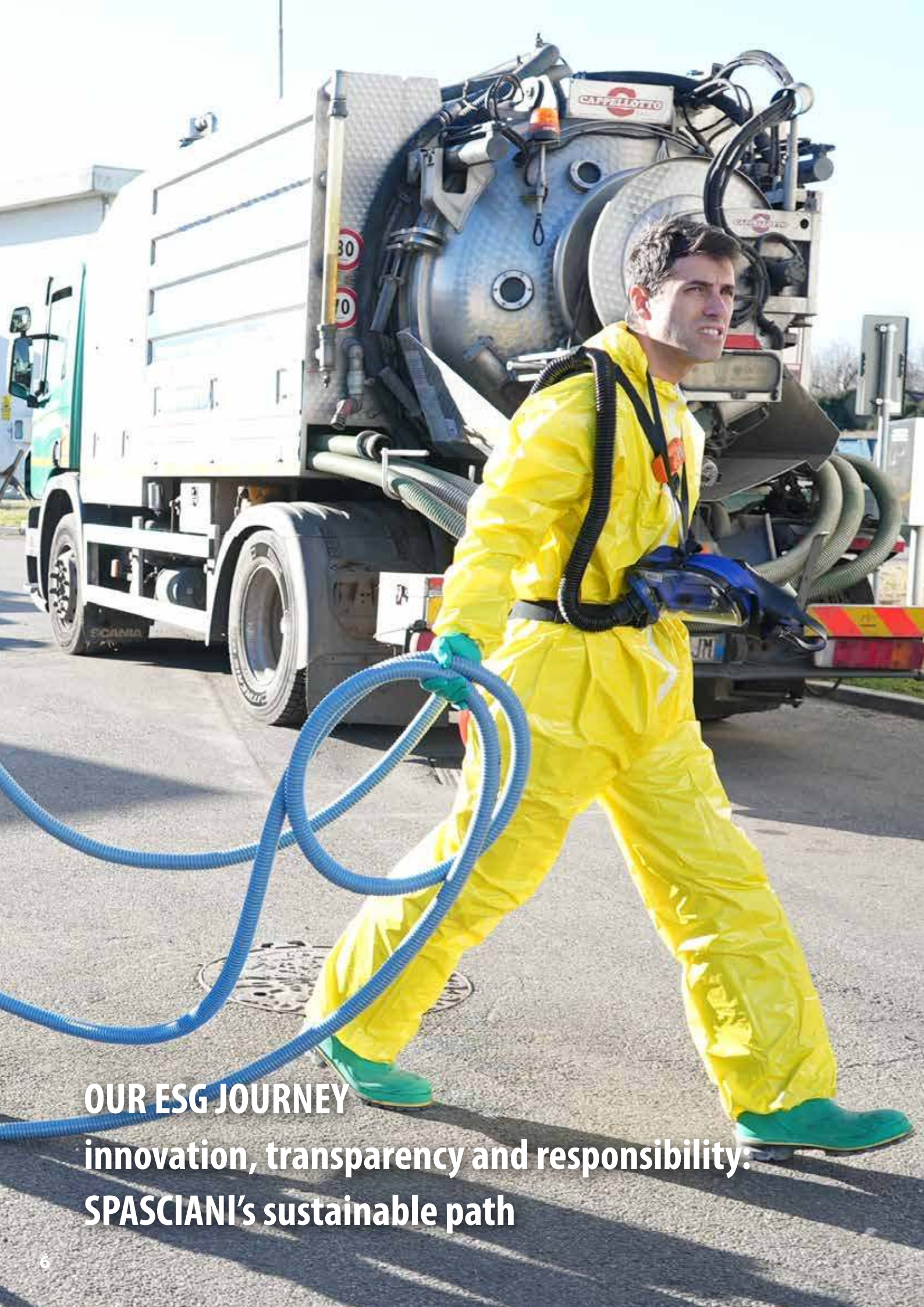
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# MARKING





**OUR ESG JOURNEY**

**innovation, transparency and responsibility:**

**SPASCIANI's sustainable path**

# OUR ESG JOURNEY

## A NEW CHAPTER IN OUR COMMITMENT TO SUSTAINABILITY

At SPASCIANI, we believe that every action counts and that true success is not just a matter of numbers, but above all of shared value. For us, being a leading company means making a concrete contribution to a more sustainable future, taking care of the environment, people, and generations to come. This is why, since 2023, we have chosen to integrate ESG principles (Environmental, Social and Governance) as a fundamental pillar of our strategies and daily activities.

### TRANSPARENCY AND QUALITY: OUR FIRST SUSTAINABILITY REPORTING

We voluntarily prepare our Sustainability Report according to the European CSRD Directive (EU 2022/2464) and the ESRS Standards of EFRAG, well before it became mandatory. This step demonstrates our willingness to be pioneers, adopting the best European practices to ensure transparency, reliability and quality in the ESG information we share with our stakeholders.

### FROM CONTEXT TO STRATEGY: OUR SUSTAINABLE ROADMAP

We have established a Sustainability Committee that plans concrete actions across three time horizons:

- **Short term** (1 year): immediate interventions to consolidate the foundations of change;
- **Medium term** (2-5 years): development of innovative and medium-term projects;
- **Long term** (over 5 years): an evolutionary vision for lasting and systemic transformation.

A careful analysis of the market context, competitors and stakeholders led to the creation of our double materiality matrix, which enabled us to identify concrete strategic priorities for the future. This analysis was the starting point for a clear and forward-thinking sustainability strategy, capable of evolving alongside our value chain.

### RESULTS, OPPORTUNITIES AND CONTINUOUS INNOVATION

We constantly assess and update the initiatives undertaken in recent years, analysing the results achieved, risks, development opportunities, and the effectiveness of monitoring actions already in place. We are convinced that every challenge represents an opportunity: "every cloud has a silver lining", as the saying goes, and even critical issues can turn into chances for growth and innovation.

### AN INTERNATIONALLY RECOGNISED COMMITMENT

To further strengthen our transparency and credibility, we have undertaken an assessment with the EcoVadis platform, one of the world's most recognised in corporate sustainability. This commitment marks another step forward in our journey: we want to be not only witnesses but active protagonists of positive change.

### AN INVITATION TO CONSULT OUR REPORT

The full text of the SPASCIANI Sustainability Report is available on our website [www.spasciani.com](http://www.spasciani.com). Join us in this story: only by working together can we build a better, fairer and more sustainable tomorrow for everyone.

# THE NEW ERA OF SPASCIANI DOCUMENT MANAGEMENT

*Discover the SPASCIANI Smart App: your digital ally for personal protective equipment*

## SPASCIANI Smart App: the digital revolution in safety

In the world of workplace safety, having simple, immediate, and secure access to information about personal protective equipment (PPE) is essential. With this awareness, Spasciani presents the new Spasciani Smart App: an innovative digital platform designed to revolutionise the management of technical documentation for its products.

### One tool, all information at your fingertips

The Spasciani Portal App was created with the aim of making life easier for safety operators and all professionals who need to ensure their PPE is always compliant. Thanks to an intuitive interface accessible from any device, the platform allows users to consult technical datasheets, user instructions, declarations of conformity, and certifications for Spasciani products quickly and easily.

### Quick access and consultation wherever you are

Whether you are in the office, on site, or travelling, all information about Spasciani products is always available, even offline. Once you log in to the app, you can search for your PPE, view the list of related documents, and always keep track of deadlines for certifications, inspections, and testing documentation.

### Ease of use: from scanning to complete traceability

One of the search functions using barcode, QR code or batch number makes the app intuitive and extremely easy to use. Simply photograph the code on the device to instantly access the original documents of the product in use and obtain all essential information on conformity, maintenance, and updates. This solution allows you to trace each PPE item to its source, ensuring transparency, reliability, and flawless document management, in line with the latest regulations.

## ALL THE BENEFITS IN A SINGLE APP

### ALWAYS UP-TO-DATE DOCUMENTATION

Receive notifications on new document versions and important deadlines.

### FAST AND SMART SEARCH

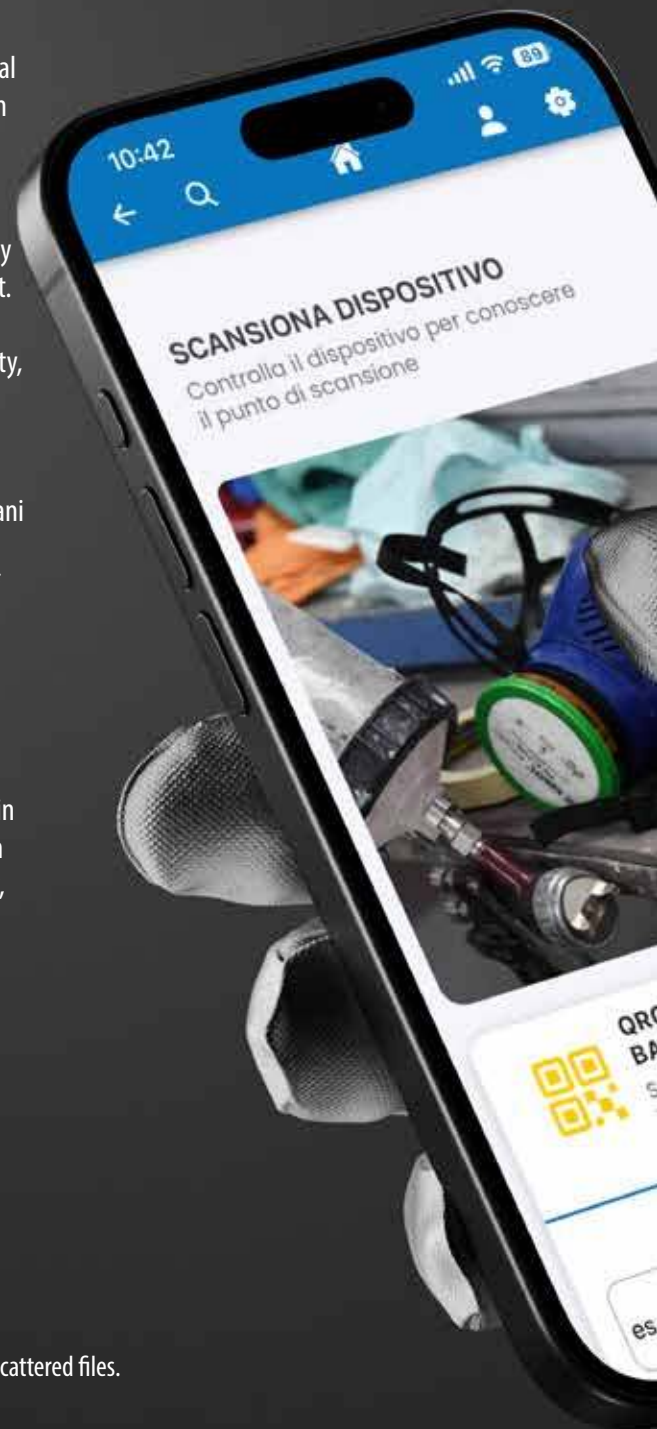
Instantly find what you are looking for, with no time wasted on paper archives or scattered files.

### OFFLINE ACCESS TOO

Safety never takes a holiday - consult your PPE data in any situation, even without a connection.

### TOTAL TRACEABILITY

Identify the product instantly and check its history and certifications with a simple click.



## WHY CHOOSE THE SPASCIANI PORTAL APP?

*As a well-known Italian proverb says, "Prevention is better than cure": with the Spasciani Portal App, you can prevent any risk related to the lack of up-to-date information on your protective devices.*

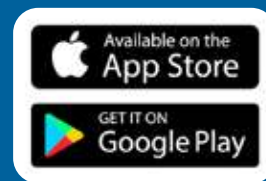
*No matter where you are or which PPE you need to check: the new Spasciani digital platform becomes your personal assistant, ensuring maximum efficiency, time savings, and regulatory compliance.*

## START YOUR DIGITAL EXPERIENCE WITH SPASCIANI TODAY

Download the Spasciani Portal App and discover a new dimension in safety management.

Simplify your work, reduce risks, and access all the information you need, wherever and whenever you need it.

With Spasciani, protection begins with innovation.



# SPASCIANI



The Spanish Branch focuses on the production and storage of consumable PPE, such as disposable half masks and all the products for hearing, eye and head protection.





In the Headquarter based in Origgio there are the administrative and commercial departments, the specialised production and the laboratories of Reserach and Development of all the products devoted to the protection of the breathing ways.

# NUEVA SIBOL



# RESPIRATORY PROTECTION



# FOLDABLE FILTERING HALF MASKS



Foldable filtering halfmasks are devices that protect against toxic solid dusts and solid or liquid aerosols (water or oil-based). Their wide surface ensures both a greater coverage of the user's face and a lower breathing resistance. The facepiece is completely welded and its material does not release fibers. Its foldable shape allows an easy storage. The exhalation valve (optional) reduces exhalation resistance and increases the user's comfort, thus facilitating the expulsion of hot-humid air to the outside. The nose clip allows an optimal adaptation of the face piece to the different shapes of the face; while the elastics facilitate its correct positioning on the face.

The **D marking** (clogging test with Dolomite powder) guarantees an effective protection even in very dusty environments. Some models are equipped with a layer of activated carbon which protects against unpleasant odors caused by gases and vapors, both organic and acidic, including ozone (ideal for welding operations), in concentrations below the threshold limit value (TLV).

Filtering halfmasks are available in a wide range of models to meet the most different and demanding requirements.

## PLUS RANGE

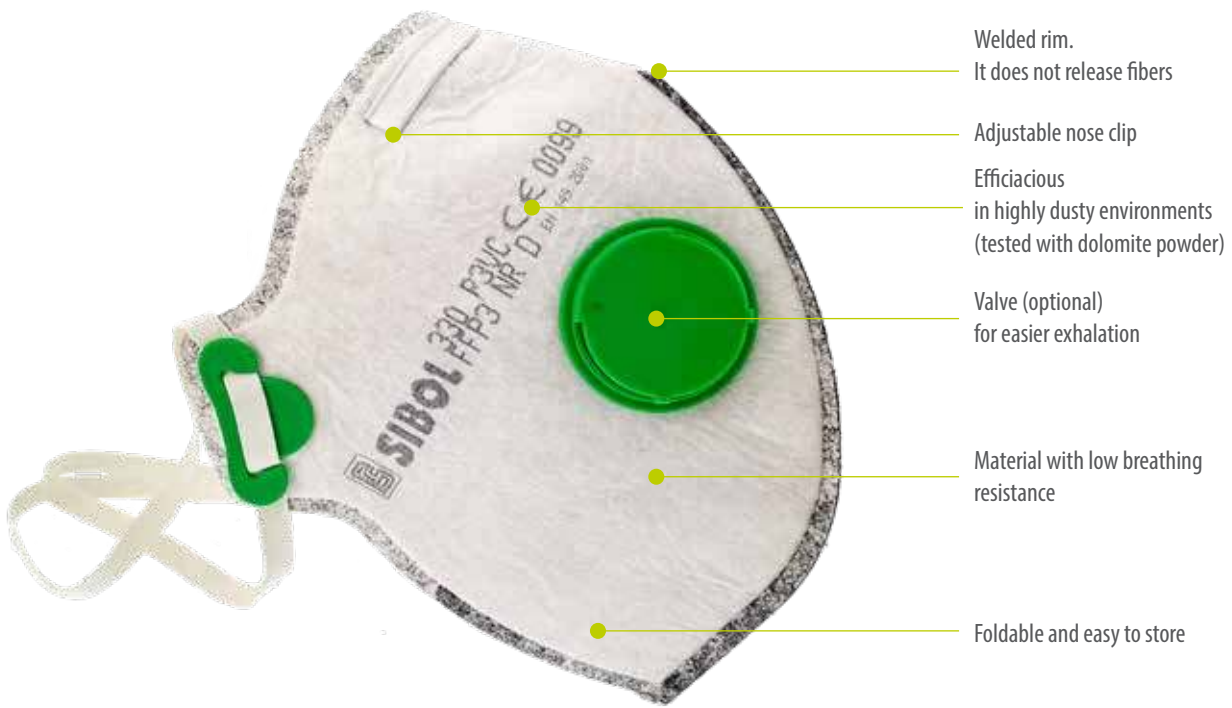
P/N	Description	Class	Valve	Carbon
WSB14011004	440 P1D	FFP1		
WSB14011013	440 P1DV	FFP1	✓	
WSB14011019	550 P2D	FFP2		
WSB14011018	550 P2DV	FFP2	✓	
WSB14011022	990 P3D	FFP3		
WSB14011021	990 P3DV	FFP3	✓	
WSB14011017	330 P2DVC	FFP2	✓	✓
WSB14011020	330 P3DVC	FFP3	✓	✓

The half masks of the **PLUS range** are distinguished by:

- Models: wide range
- Packing: single packing that allows you to maintain a high level of hygiene, combined with the possibility of opening the device without touching the internal part which is in contact with the user's face.
- Performance: high in terms of filtering efficiency and respiratory resistance
- Materials: technological and of high quality
- Appearance: robust
- **D marking** (clogging test with Dolomite powder) which means high efficiency in very dusty environments
- Use: Disposable

## Classification

Half mask in accordance with Regulation (EU) 2016/425 requirements. Half mask in accordance with EN 149: 2001 + A1: 2009



- Welded rim. It does not release fibers
- Adjustable nose clip
- Efficient in highly dusty environments (tested with dolomite powder)
- Valve (optional) for easier exhalation
- Material with low breathing resistance
- Foldable and easy to store

**Plus**

# FOLDABLE FILTERING HALF MASKS

## REUSABLE RANGE

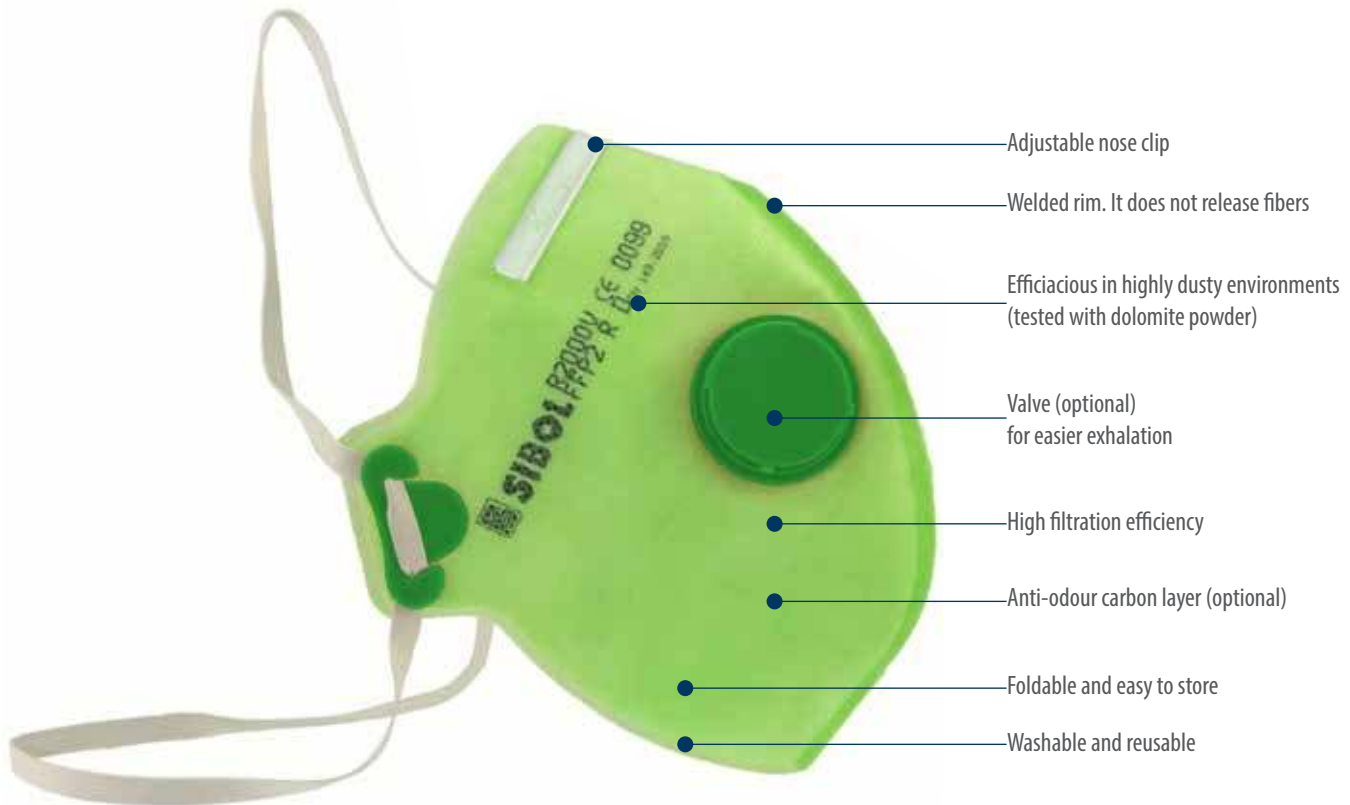
P/N	Description	Class	Valve	Carbon
WSB14011019R	R2000 P2D	FFP2		
WSB14011018R	R2000 P2DV	FFP2	✓	
WSB14011021R	R3000 P3DV	FFP3	✓	

The half masks of the **REUSABLE range** are distinguished by:

- Use: the halfmasks can be cleaned with a moistened cloth and disinfected, so as they can be reused
- Appearance: robust
- Packing: single packing that allows you to maintain a high level of hygiene, combined with the possibility of opening the device without touching the internal part which is in contact with the user's face.
- Performance: high in terms of filtering efficiency and respiratory resistance
- **D marking** (clogging test with Dolomite powder) which means high efficiency in very dusty environments

### Classification

Half mask in accordance with Regulation (EU) 2016/425 requirements. Half mask in accordance with EN 149: 2001 + A1: 2009



## Reusable

## ECO RANGE

P/N	Description	Class	Valve
WSB14011006P20	110 P1D	FFP1	
WSB14011008P20	110 P1DV	FFP1	✓
WSB14011058P20	110 P2D	FFP2	
WSB14011059P20	110 P2DV	FFP2	✓
WSB14011067P20	150 P3D	FFP3	
WSB14011057PI	150 P3DV	FFP3	✓

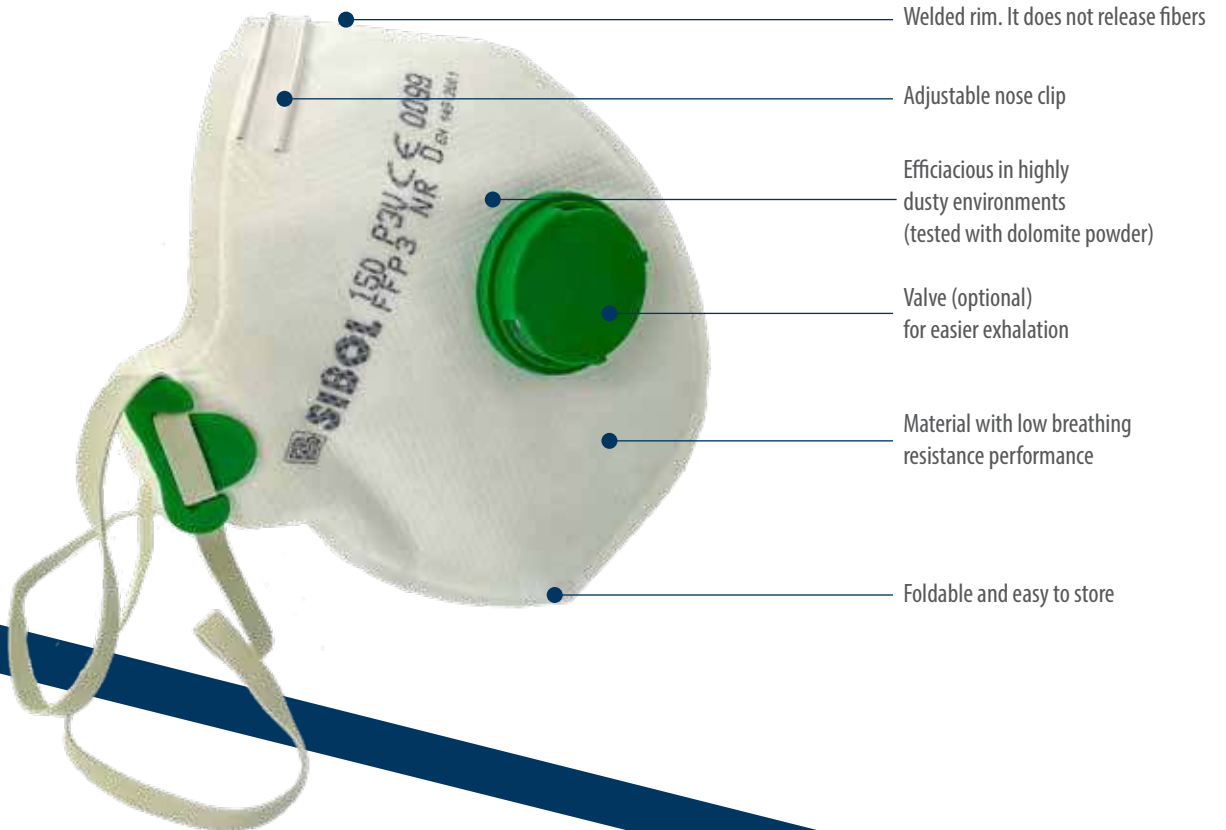
The half masks of the **ECO range** are distinguished by:

- Packing: in light carton boxes
- Performances: good performances in terms of filtering efficiency and breathing resistance
- Materials: technological and of good quality
- **D marking** (clogging test with Dolomite powder) which means high efficiency in very dusty environments
- Use: Disposable

### Classification

Half mask in accordance with Regulation (EU) 2016/425 requirements. Half mask in accordance with EN 149: 2001 + A1: 2009

Eco





# CARTRIDGE MASKS



Professional, durable and decontaminable half masks to be used with the suitable anti-gas, dust and combined cartridges. These halfmasks can be used for spraying, for handling toxic substances and gases, solvents, pesticides and dusts. They are suitable to be used in chemical and pharmaceutical industries and in agriculture.

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110

Cartridge masks and half masks	
102000000	Half mask DUO prolonged use
102530000	Half mask DUETTA limited maintenance
WSB14051560	FIT MASK P87. Blue TPE. Harness to the head
WSB14051565	FIT MASK 987. Blue TPE. Harness to the head
113090000	Mask TR 2002 "DUPLA"



FitMask 987



FitMask 87



Duetta



Dupla



Duo

# HALF MASKS

**FIT MASK** is a versatile half mask to EN 140, usable in various industrial environments.

It features an ergonomic design and a soft TPE facepiece with comfortable revert seal which ensures perfect tightness on the face.

FIT MASK is available in two versions: FIT MASK 87 with two filters Series 87 and FIT MASK 987 with one filter series 987



Large and adjustable head harness

Strong exhalation set, avoiding deformations or breaks.

Updated and ergonomic design to fit optimally to the face

Made of anti-allergic TPE

Triple evacuation cavity that facilitates the exit of air while maintaining protection, improving users comfort

Threaded connection (maximum reliability on mask and filter connection)

Wide range of filters Series 87 available

## Fit Mask 87

### **FIT MASK 87**

Twin-cartridge halfmask made of TPE, which is an odourless, hygienic and flexible material that easily adapt to different shapes of the face. The one piece headharness, with four points of connection integrated in the mask body, allows an homogeneous distribution of the pressure on the head and reduces the risk of leakage.

The internal rim of the mask body grants a perfect seal.

Thanks to the large volume of the halfmask and to the presence of the exhalation valve, the breathing resistance is very low.

According to the types of filters used and chosen among the ones of series 87, this halfmask can be used for different applications.

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110



Light and compact design

Valve to facilitate exhalation

Mask body made of anti-allergic TPE

Adjustable head harness

Wide range of filters Series 987 available

Threaded connection (maximum reliability on mask and filter connection)

## Fit Mask 987

### **FIT MASK 987**

Single-cartridge halfmask made of TPE, which is an odourless, hygienic and flexible material that easily adapts to different shapes of the face.

The one-piece headharness, with four points of connection integrated in the mask body, allows an homogeneous distribution of the pressure on the head and reduces the risk of leakage.

The internal rim of the mask body grants a perfect seal.

Thanks to the large volume of the halfmask and to the presence of the exhalation valve, the breathing resistance is very low.

According to the types of filters used and chosen among the ones of series 987, this halfmask can be used for different applications.

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110

# HALF MASKS



Head band made of an elasticated webbing and a nape rest made of nylon

2 adjusting buckles

Soft co-moulded sealing edge for a comfortable fit

Rigid shell giving strength and incorporating the bayonet connection;  
made of shock and solvent resistant plastic

Exhalation membrane

## Duetta

**DUETTA** is ideal for spray painting, pesticides spraying and for the handling and spilling of chemicals. Thanks to its soft edge, it fits comfortably on the user's face, by covering both his mouth and nose. A rigid shell supports the filters (it is always used with twin cartridges), optimally distributing their weight

Half mask **DUETTA** stands out for:

The harness made up of an elastic fabric band and a nape rest, which is particularly easy to adjust

Two valves integrated in the face piece – inspiration and expiration valve – make the respiration easier

The air, inspired through the correctly mounted filters, reaches nose and mouth, whereas the expired air is released in the outer environment through the exhalation valve.

**DUETTA**, in combination with filtering cartridges SPASCIANI series 2000, represents the filtering device with the best value for money. The filtering cartridges can be matched with special prefilters that preserve the exhaustion of the dust part of the filter in case of use in particularly dusty environments.

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110



## Duo

**DUO** is a professional durable halfmask that can be decontaminated. It is ideal for use in the handling of harmful chemicals, toxic gases, solvents, dusts and in spray painting.

This halfmask is suitable for workers employed in chemical or pharmaceutical industry, in agriculture and in the grinding of minerals.

Halfmask **DUO** stands out for:

Half-facepiece made of anatomically moulded rubber, which can easily adapt to the user's face, thus ensuring the tightness of the halfmask.

A four-point harness made of an elastic band equipped with a moulded polyethylene nape rest and a quick adjustable buckle. The harness is wide, comfortable and well-balanced thanks to its four-point attachment. The quick adjustable buckle facilitates donning. A mushroom-shaped rubber exhalation valve protected by a snap-in

pre-chamber / cover. The valve facilitates the emission of hot and humid exhaled air, thus preventing it from accumulating inside the mask body.

Two bayonet attachments made of anti-shock and anti-solvent plastic material, where appropriate filters chosen among series SPASCIANI 2000 must be applied. The bayonet connection is reliable and resistant both from a physical and chemical point of view (anti-solvent).

We suggest you should use DUO halfmask in combination with filtering SPASCIANI cartridges series 2000. These filtering cartridges can also be combined with special prefilters that preserve the exhaustion of the dust part of the filter in case of use in particularly dusty environments.

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110.

# CARTRIDGE FULL FACE MASKS



Head harness with five branches, made of EPDM

Outer face piece provided with ergonomic bellows-like sealing edge

Panoramic visor with anti-fogging air circulation

Inner half mask of TPE

Connector group which integrates the exhalation and inhalation membranes and the speech diaphragm

Dupla adapter

Carrying strap of PVC

## Dupla



Dupla adapter

The **DUPLA adapter** made of nylon (p/n 157900000) allows the connection of two cartridges SPASCIANI series 2000 to the TR2002 mask.

Negative pressure full face mask with threaded connector EN 148-1. This mask can be used both with filters with threaded connectors EN 148-1 and with the special cartridges SPASCIANI series 2000.

This mask is composed of:

- Ergonomic and double sealing rim
- High visibility panoramic visor
- Connector group which integrates the exhalation valve, the speech diaphragm, the valve-holder gasket and the inhalation valve
- Inner half mask
- Five point harness
- Carrying strap

For further information, consult the table "GUIDE TO FILTER SELECTION" at page 110



# FILTERS SIBOL 87 AND 987

**Series 2000** bayonet cartridges feature a solid and quick connection system, ensuring maximum practicality and safety in use.

Lightweight and well-balanced, they provide excellent comfort even during extended wear. The series includes a wide range of models to meet various protection needs, confirming the quality and reliability.

Filters **Series 87** are equipped with a threaded connector M66x6 to be used, in pairs, on half masks **FIT MASK 87**. They are available in various gas, dust P2 or P3 models or combined P2 and P3 for the protection against gases and dusts to offer a complete protection in all sectors.

They are compact and light weight filters which do not interfere with the user's field of vision.

Filters **Series 987** are equipped with a threaded connector M66x6 to be used, singularly, on half masks **FIT MASK 987**.

They are available in various gas, dust P2 or P3 models or combined P2 and P3 versions for the protection against gases and dusts to offer a complete protection in all sectors.

Filters have to be chosen according to the type and to the concentration of the toxic gas present in the environment. Filters may be re-used until their saturation. The end user becomes aware of saturation when he starts perceiving the smell/taste of the toxic gas or an increase in breathing resistance. At that point, filters have to be replaced in a safe zone, free from any dangerous substance.

**Cartridges** are identified by a colour and a letter in conformity with the protection given as specified in **EN 14387:2021** (gas and combined), **EN 143:2021**.

Series 2000	
113930000	2030 LD P3
113900000	2030 A2
114000000	2040 A2 P3
113880000	2030 A1B1
114070000	2040 A1B1 P3
114030000	2040 A1B1E1 P3
113890000	2030 A1B1E1K1
114080000	2040 A1B1E1K1 P3
114090000	2040 A1B1E1K1 Hg P3



Compact filter, to be used with Spasciani half mask Duo and Duetta

Snap-in connection for a reliable mounting on the half mask

Reusable for more than one work-shift. Possibility of disinfection

Protection against gases (active carbon), against dust (filtering disc P3) and combined (carbon + P3)

## Cartridges Series 2000

Series 87	
WSB14052011	87 A2
WSB14052013	87 A1B1
WSB14052114	87 A1B1E1
WSB14052025	87 A1B1E1K1
WSB14052016	87 P2
WSB14052017	87 P3
WSB14052311	87 A2P3
WSB14052317	87 A1B1E1K1P3
WSB14052123	Prefilter 87 P2
WSB14052124	Prefilter 87 P3 R

Series 987	
WSB14052001	987 A1
WSB14052214	987 A1B1E1
WSB14052015	987 A1B1E1K1
WSB14052018	987 P3
WSB14052023	Prefilter 987 P2



Compact and light filters reduced dimension so as not to interfere with the visual field

Threaded connection (maximum reliability on mask and filter connection)



Replaceable dust prefilters (P2 and P3) available to create combined filters

## Series 87



Threaded connection (maximum reliability on mask and filter connection)

Low breathing resistance

High filtration efficiency

Replaceable dust prefilters (P2 and P3) available to create combined filters

## Series 987





# MASKS WITH THREADED CONNECTOR



These masks are equipped with a standard threaded connector EN148-1 and as such they can be used with all devices provided with the same connector (gas and particle filters, negative pressure BA, air line etc.).

**ST 85** is a professional and durable half mask. It is ideal for chemical and pharmaceutical companies, agriculture and mining industry.

**TR82** and **TR2002** are masks with wide visibility visor and speech device. These masks are available in TPE, EPDM or Silicone.

SPASCIANI filters are available in many versions and capacities with high performances.

They are the result of the fruitful Research & Development and of the technology improvement.

Consult the table "GUIDE TO FILTER SELECTION" at page 110.



TR82



TR 2002 CL3

## Masks with threaded connector EN 148-1

113020000	TR 2002 CL2 FULL FACE MASK
113030000	TR 2002 CL3 FULL FACE MASK ONE SIZE
1130300ML	TR 2002 CL3 FULL FACE MASK L/M
1130300SM	TR 2002 CL3 FULL FACE MASK S/M
113080000	TR 2002 CL3 FULL FACE MASK YELLOW SILICONE
112190000	TR 82 FULL FACE MASK
112240000	TR 82 FULL FACE MASK HARD COAT VISOR
112170000	TR 82 FULL FACE MASK YELLOW SILICONE
112220000	TR 82 FULL FACE MASK SAFETY GLASS
112250000	TR 82 FULL FACE MASK SAFETY GLASS SILICONE
112100000	TR 82 E FULL FACE MASK -BUCKLES FOR HELMET-



ST85



TR2002 CL2



TR82 S



TR2002 CL3 S

# TR 2002 CL3

**TR 2002 CL3** is a mask fitted with a panoramic scratch and solvent resistant polycarbonate visor. It features two distinct areas to permit unaltered vision even downwards to see possible obstacles. The visor is Optical Class 2 (EN166).

The seal on the face is obtained by a double revert flap made of EPDM

or Silicone. The head harness with self-adjusting buckles is made of EPDM. The modern and endearing design allows a comfortable wear and an easy dismantling for cleaning and maintenance.

The shape of the facepiece permits the use of safety helmets and ear muffs. The mask is **Class 3** i.e. it is particularly suited to firefighting due to its high resistance to flames and heat.



Five arm head harness moulded in rubber and fitted with quick adjusting buckles

Outer facepiece moulded in rubber or silicone

Wide visibility visor moulded in scratch and solvent resistant coated polycarbonate

Inner half mask made of TPE fitted with two check valves for air circulation to prevent the visor from steaming-up

Connector Group which unites: exhalation valve, speech diaphragm, inhalation valve holding gasket and threaded connector EN148-1 (40 x 1/7")

DUPLA adapter (optional)

Strap around the neck for carrying the mask during rests

## Masks with threaded connector EN 148-1

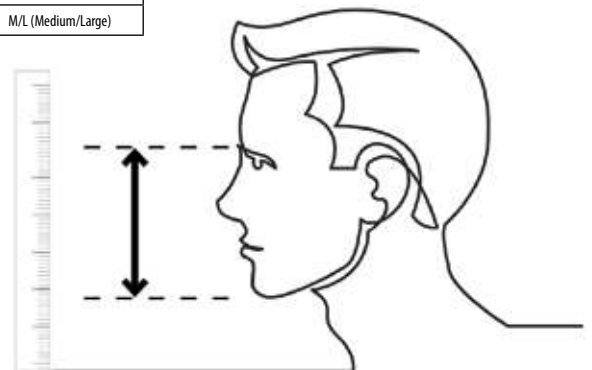
113080000	Mask TR 2002 CL3 in silicone
113030000	Mask TR 2002 CL3 scratch resistant visor

## Available in 2 sizes and universal size

Distance	Suggested size
from 105 to 120 mm	S/M (Small/Medium)
from 120 to 130 mm	M/L (Medium/Large)



TR2002 CL3 S  
113080000



# TR 2002 CL2

**TR 2002 CL2** keeps the major characteristics of a modern and endearing design, comfortable wear and easiness of dismantling for maintenance and cleaning of the version in Class 3. The main differences in respect to the better performing model are in the double revert seal facepiece which is made of TPE.

Moreover the wide panoramic visor is made of natural polycarbonate, it keeps the feature of avoiding vision distortion as all TR 2002. This mask is **Class 2**. More precisely it is suitable to all activities where resistance to radiant heat is not required.



## Mask TR 2002 CL2

113020000

Mask TR 2002 CL2

# TR 82

**TR 82** is a mask fitted with natural polycarbonate visor providing a wide field of vision. The seal on the face is obtained by a double revert flap made of EPDM or Silicone. The head harness with self-adjusting buckles is made of EPDM.

The classic design allows a comfortable wear particularly to thin or female faces. The maintenance is very simple and it is possible to easily replace the visor.

This mask is **Class 3**, i.e. it is particularly suited to firefighting due to its high resistance to flames and heat. The version with safety glass visor is best suited for spray painting.

## Masks with threaded connector

112190000	Mask TR 82
112240000	Mask TR 82 Solvent and Scratch resistant visor
112170000	Mask TR 82 Yellow Silicone
112220000	Mask TR 82 Safety Glass
112250000	Mask TR 82 Safety Glass Visor Silicone



Five-arm head harness moulded in rubber and fitted with quick adjusting buckles

Outer facepiece moulded in rubber or silicone

Wide visibility visor moulded in coated polycarbonate scratch and solvent resistant or Safety Glass

Inner half mask made of TPE fitted with two check valves for air circulation to prevent the visor to steam-up

Connector Group which unites:

- exhalation valve
- speech diaphragm
- inhalation valve
- holding gasket and threaded connector

Strap around the neck for carrying the mask during rests



# TR 82 E

This mask is specifically designed to hook to the helmets of firefighters, the Police and Civil Protection. It meets DIN 58610. The unique anchorage system is complete with small levers which permit to adjust the tension of holding straps. This gives a perfect adherence to the face and a stable and solid helmet/mask combination.

The **TR 82 E** is fitted with scratch and solvent resistant polycarbonate visor giving a wide field of vision. The seal on the face is obtained by a double revert flap made of soft EPDM. The maintenance is very simple and it is possible to easily replace the visor.

This mask is **Class 3** i.e. it is particularly suited to firefighting due to its high resistance to flames and heat.

Outer facepiece moulded in EPDM rubber

Wide visibility visor moulded in scratch and solvent resistant coated polycarbonate

Two anchorages to connect the mask to the helmet

Strap around the neck for carrying the mask during rests



## Mask TR 82 E

112100000

Mask TR 82 E

# HALF MASKS EN 148-1

**ST85** is a half facepiece made of EPDM. Anatomically shaped it adapts itself to the user's face contour. The four pivoting rapid buckles allow a fine adjustment of the tension of the straps for the maximum comfort. The **ST 85** is durable and decontaminable. It can be disassembled in all its components which snap into the elastic facepiece body. **ST 85** is suitable for the handling of dangerous chemicals, toxic gases, solvents and dusts and for general use in chemical industries.

**RESPIRATOR DIN** is a single filter half mask in hypoallergenic black rubber, which easily adapts to any face shape. Head harness is also available as elastic band. The harness attachment points are integrated into the mask, so as to reduce the risk of leakage; moreover, the internal edge of the mask body guarantees a perfect seal. Thanks to the two exhalation valves, the exhaled hot-humid air flows freely, increasing operator comfort. Depending on the type of filter used, the half mask can be used for different applications.



Head harness with four anchorages and elastic band, nape of the neck rest moulded in polyethylene and four quick adjusting buckles

Anatomic half facepiece moulded in rubber

Two exhalation valves with rubber membrane protected by a pre-chamber cover

A standard EN 148- connector for use with filters up to a maximum weight of 300 g

## ST 85

Rubber body

Adjustable harness

High efficiency exhalation valve

Compact and lightweight design

EN 148-1 thread connection for suitable filters below 300 g



## Respirator DIN

### Halfmasks with threaded connector EN 148-1

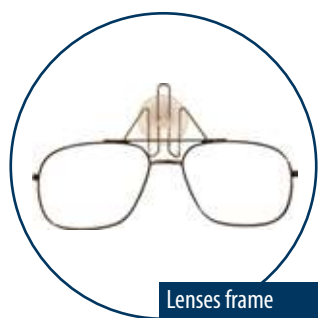
111200000	Halfmask ST 85
WSB14051006	RESPIRATOR DIN. Black rubber. Standard harness

# ACCESSORIES

To complete our offer we suggest a series of accessories and spare parts for the storage and maintenance of the masks.

Accessories	
156710000	TR 2002 SET OF SPARES HEAD HARNESS
118090000	TR 2002 NYLON BAG
118280000	TR 82/TR 2002 PACK OF 10 PROTECTIVE FILMS FOR VISOR
118290000	TR 82/TR 2002 PRESCRIPTION LENSES FRAME (with sucker)
118040000	TR 82 CONTAINER/BAG FOR 1 MASK+1 FILTER
118170000	TR 82 WALL PLASTIC CABINET (VED) FOR 1 MASK
118200000	TR 82 WALL PLASTIC CABINET (WID) FOR 3 MASKS
156150000	TR 82 HEADHARNESS SET (1 headharness + 1 strap)
156870000	TR82 SAFETY GLASS VISORS 20 PCS
160090000	PACK OF 300 CLEANING AND SANITIZING TOWELS

*Some maintenance interventions can only be made by the manufacturer or by an authorized service station. For both ordinary and extraordinary maintenance interventions, every time the mask is reassembled, the perfect efficiency of the mask must be checked. For further information see the information notice or contact the manufacturer.*



Lenses frame



Soft bag  
for TR 2002



Hard bag B88  
for TR 82



# SCREW FILTERS

Screw filters	
124150000	100 P3
124200000	200 A2
123100000	201 B2
123110000	201 E2
124210000	200 K2
123200000	201 A2B2
123220000	201 A2B2E2
124410000	202 A2B2E2K2
124430000	202 AX
124550000	203 AXP3
124450000	203 AXB2 P3
124420000	202 A2P3
123300000	202 B2P3
123310000	202 E2P3
124320000	202 K2P3
123320000	202 A2B2P3
123350000	202 A2B2E2P3
124530000	203 A2B2E2K2P3
124540000	203 A2B2E2K2HGP3
124740000	205 A2 P3 R D REACTOR
124720000	205 A2B2E2K1 P3 R D FORMALDEHYDE
124730000	205 A2B2E2K1 P3 R D REAKTOR
124600000	203 UP3

Filters **Series 100 and 200** include dust filters P3, gas filters class 2 and combined filters class 1 and 2 P3, equipped with a standard threaded connector EN 148-1. They have a blue plastic case with diameter 100 mm.

Their height depends on the type (100, 200, 201, 202, 203) and they are available in a wide range of models, specific for certain toxic gases, multipurpose or universal for a complete protection.

Gas filters contain granular activated carbon that chemically and / or physically blocks contaminating gases and vapours.

Gas filters can be combined with an anti-dust element, consisting of a class P3 filtering pleated disc.

Dust filters contain one high efficiency class P3 filtering pleated disc only.



Anti-gas protection (active carbon+P3), dust (filtering disc P3) and combined protection

Anti-shock and anti-solvent plastic case

Reusable for more than a work shift, possibility of disinfection

Standard thread EN 148-1 for an efficacious coupling with masks and halfmasks

## Screw filters EN 148-1

**In combination with:**

Filter Series 100 can be used with:

- Half masks ST85
- Full face masks TR82 and TR2002

All dust filters are certified according to EN 143:2021 and EN 143 2004/A1:2006 whereas gas filters and combined filters are certified according to EN 14387:2021 e EN 14387: 2004 + A1:2008

Filter 203 UP3 is an universal filter with double marking: according to EN 14387:2021 as multipurpose combined filter ABEK2P3 and according to DIN 58620 for the protection against CO (duration 20 min) and NO.

For further information and details consult the table "MARKING - LEGEND" at page 116.

In our range we have a wide range of highly technical filters.





# FILTERING ESCAPE DEVICES



Fires or leaks of toxic gases in the environments can cause confusion and loss of consciousness to the workers.

In such cases the escape respirators grant sufficient filtered air to ensure time enough for a safe retreat from the polluted area. Thanks to their robust and high visibility orange case, they are compact and easy to carry. The ergonomic design with non-slip surfaces allows an easy and safe handling.

All escape respirator shall be subject to periodic inspection to ensure safe operation during emergencies.



M 900 P3



M900 ABEK P15



H 900 ABEK

Filtering escape devices	
117050000	M900 P3
117060000	M900 ABEK 15
117070000	M900 ABEK P15
117080000	H 900 ABEK 15
117090000	H 900 ABEK P 15
117110000	H 900 CO P
117100000	H 900 ABEK CO P
117250000	H 900 A2B2E2K2P3
117260000	H 900 A2B2E2K2HgP3

Accessories and spares filtering for escape respirators	
615300000	CONTAINER FOR M900
779990000	SHOULDER STRAP
911020000	BELT



H900 A2B2E2K2HgP3



H900 CO P

# M 900

The escape respirator **SPASCIANI M 900** is provided with gas filter **ABEK15** (Gases) or **ABEKP15** (gases and particles).

This innovative product takes advantage of the memory of the silicone to reduce packing at minimum.

The silicone of the facepiece makes the mask very comfortable and eases the leak tightness on the user's face. All that minimizes donning time.

The **ABEK15** and **ABEKP15** are low resistance filters and give protection from different toxic gases for at least 15 minutes. The headband, soft and stable has two anchorage points. The halfmask has a perfect tightness on the face and the honeycomb design of the front of filter grants a low breathing resistance.

**SPASCIANI M 900** is a comfortable product and easy to use and don even with gloved hands. Its minimum size does not interfere with the escape pace.

## Characteristics and advantages

- Light and compact
- Quick and easy to don
- Easy to carry along in the pockets or at the waist belt
- Big handles for gloved hands

## Option:

REFURBISHING KIT: M900 after 5 years can be refurbished



## ATEX Marking

**ATEX** marking put on **M900** devices - where all the fields of application are explained - is the following:

### II 1G Ex h IIC T6 Ga

Non-electrical devices for use in the surface industry, where there is the possibility that explosive atmospheres due to the presence of gas occur - **Zone 0**

### II 1D Ex h IIIC T85°C Da

Non-electrical devices for use in the surface industry, where there is the possibility that explosive atmospheres due to the presence of dust occur - **Zone 20**



## M900

117050000	M900 P3
117060000	M900 ABEK 15
117070000	M900 ABEK P15

**M 900** high visibility cases are compact and resistant, a built-in clip allows for portability. Very robust they protect from atmospheric agents and shocks and are provided with a sealing label and a OR gasket that ensures airtightness. The loop for the belt is 50 mm wide thus making it easy to hang the case to it or to the work garments granting great stability.



Detail of the holder



Lid

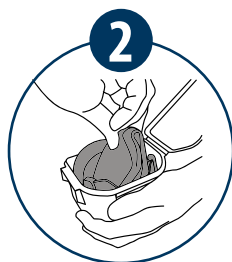
Gasket

Label seal

Opening with one movement

Polypropylene case

## QUICK DONNING



# H 900



Welded PVC

High visibility PVC coated hood

Panoramic PVC visor with anti-fog treatment

Silicone halfmask

External exhalation valve

Self-adjusting elastic harness

Welded elastic PU collar

Filter ABEK/ABEK P

## H900 ABEK

Emergency hoods series **H900** grant a 15-minute protection for escape from environments contaminated by chemical substances. They are single use only and have to be disposed of after use. The emergency hoods have to be used only for self-rescue and for escape only. They must not be used during normal work conditions and not permanently for more than 15 minutes. They are available in one universal size.

## ATEX Marking

**ATEX** marking put on **H900** devices - where all the fields of application are explained - is the following

### 1G Ex h IIC T6 Ga

Non-electrical devices for use in the surface industry, where there is the possibility that explosive atmospheres due to the presence of gas occur - **Zone 0**

### 1D Ex h IIIC T85°C Da

Non-electrical devices for use in the surface industry, where there is the possibility that explosive atmospheres due to the presence of dust occur - **Zone 20**



Hoods series **H900** are composed of:

- Bag made of antistatic fabric with loops for belt, ring to hang it to the wall and lateral rings for the use with a shoulder belt. The hood is placed inside the bag, sealed into an airtight bag. The protective seals placed on the fastening of the package grant that it has not been opened.
- Orange hood equipped with a wide anti-fogging visor, with a sealed adjusting elastic harness and with an elastic tight collar
- Halfmask made of silicone, anatomically shaped, conceived to adapt optimally to any face.
- Exhalation valve protected by a cover
- Filter which is different according to the model chosen in order to grant various types of protection.

H900	
117080000	H 900 ABEK 15
117090000	H 900 ABEK P 15
117110000	H 900 CO P
117100000	H 900 ABEK CO P
117250000	H 900 A2B2E2K2P3
117260000	H 900 A2B2E2K2HgP3



H900 COP  
With filter CO P / ABEK CO P



H900 A2B2E2K2HgP3



Eyelet for wall hook

Flip-off top

Wearing instructions

Eyelet for shoulder strap

Belt loops

High visibility reflective band

Padding band for filter protection

Antistatic PVC bag <math>10^8</math> Ohm

**H900 bag**



# POWER ASSISTED RESPIRATORS



**TURBINE** is a range of Powered Air Purifying Respirators (PAPR) for breathing protection fed by a fan. They are provided with rechargeable battery and used with two dust or combined filters. They replace the traditional filtering devices made of face piece and filter in heavy and prolonged works, because the continuous air flow reduces the respiratory effort.

They are suitable for tasks such as asbestos removal, work in dusty environments or in crop spraying. Besides **TURBINE TM 1702** (full face mask), which has been on the market for sometime, the range has been widened with two new models: **TURBINE CFU** (helmet with visor) and **TURBINE FU** (lightweight hood with visor).

**TURBINE PAPR** are designed to protect the operator granting high comfort, achieved by:

- supplying the mask, the helmet or the hood, with the ideal flow rate to reduce the breathing effort to a minimum without any disturbing flow on the face.
- the ergonomic waist belt provided with soft pad.
- the very low weight compared to the autonomy offered.

They are designed to withstand decontamination showers.



Turbine CFU



Turbine FU



Turbine H



Turbine TM

## Power assisted respirators

130810000	Set Turbine TM 1702 2
130860000	Set Turbine CFU helmet with visor
130870000	Set Turbine FU light weight hood with visor
130880000	SET TURBINE H HOOD
130890000	SET TURBINE FOR ASBESTOS

## Accessories

156520000	Battery charger Turbine 170 LI-IONE
124150000	Filter 100 P3 R
123320000	Filter 202 A2B2P3 R D
123350000	Filter 202 A2B2E2P3 R D
156780000	PVC belt

# TURBINE TM 1702

**Turbine** is a range of respiratory protection equipment fed by a motor fan. They are fitted with a rechargeable battery and have to be used with two particle or combined filters. They replace the traditional PPE made of a facepiece and filter in heavy duty and prolonged works because the respiratory effort is reduced by the injected air flow. Depending on the filter used, they are suitable for activities such as asbestos removal, dusty products handling and crops spraying.

Panoramic visor  
in transparent  
polycarbonate

## TR 2002 CL3 / CL2

Full face mask, featuring a wide visor offering an extended field of vision. The mask is available in Class 2 (TPE) or Class 3 (EPDM). A version in Silicone is also available.

## Motor fan

On the top there is the on/off button which also permits the selection of the desired airflow. The four luminous LEDs indicate low battery, insufficient air flow, below 120 l/min, air flow set at 130 l/min and airflow set at 170 l/min. The unit features an acoustic alarm which triggers when the airflow drops below 120 l/min due to either clogging of particle filters or chocking of the corrugated hose.

Plastic  
material  
fittings

Polyurethane  
corrugated hose

Belt, padding  
and self-extinguishing  
webbing with nylon buckles



# TURBINE TM 1708

**Turbine 1708 are specifically suited to asbestos removal and handling**



TR 82

Easy to seal beneath the disposable use overall thanks to its five-arm harness



PVC BELT

Easily decontaminable under the shower



FILTER 100 P3

Filter efficiency 99,99%

High level performances (170 l/min)



# MODELS H/ FU/CFU

## Hood Turbine H

Certified EN 166  
Protection Class TH2

*Applications: pharma industry, chemical treatments, building, scrapings.*



Lightness

Optimal air flow distribution and noise attenuation

Increased field of vision (both sideways and downwards).  
Reduced reflection and deformation

## Light visor Turbine FU

Certified EN 166.  
Protection Class TH2

*Applications: All cases where protection of eyes and face are required (building, foundries, welding)*

Hood fitted with an elasticated cover made of PU-coated Nylon fabric

Flip-up visor made of polycarbonate which protects from impact (according to EN 166)

Light and well balanced

Adjustable head band



Highly versatile rigid cap (Certified EN 397- Head Protection)

Light and well balanced

Wide visor giving best field of vision



## Helmet Turbine CFU

Certified EN 166 and EN 397 (head protection). Protection Class TH2

*Applications: grinding, building and scraping, chemical treatments, foundry, agriculture.*

# ACCESSORIES

## Accessories

156520000	Battery Charger 1000 mAh -Turbine 170 LI-IONE
124150000	Filter 100 P3 R
123320000	Filter 202 A1B2P3
123350000	Filter 202 A1B2E2P3
156780000	PVC waist belt

## TM1702

130810000	Set Turbine TM 1702 TR 2002 CL2 TPE
130820000	Set Turbine TM 1702 TR 2002 CL3 EPDM
130820005	Set Turbine TM 1702 TR 2002 S CL3 Silicone

## TM1708

130830000	Set Turbine TM 1708 TR 82 EPDM
130840000	Set Turbine TM 1708 TR 82 safety glass EPDM
130850000	Set Turbine TM 1708 TR 82 scratch resistant visor EPDM
130830005	Set Turbine TM 1708 TR 82 S Silicone
130840005	Set Turbine TM 1708 TR 82 S safety glass Silicone

## Turbine H / FU / CFU

130860000	Set Turbine CFU Helmet with visor
130870000	Set Turbine FU Light visor
130880000	Set Turbine H Hood

## CORRUGATED HOSE



P/N 118430000 for mask

The hoses used for the entire range of SPASCIANI products take advantage of a technology which reaches the highest quality level available.

This allows to reduce the dimensions of connectors and as a consequence they make the product more practical and handy.



P/N 118420000 for hoods

Hoses are much lighter, which eases the wearer's activity.

Moreover, hoses have highly rigid rings while keeping the best flexibility and extensibility due to the plastic material they are made of. They can extend twice their length to make wearer's movements more comfortable.

## Combined filters for 130 l/m available with Turbine



Filter 202A2B2P3



Filter 202ABE2P3





# SANDBLASTING AND AIR LINE RESPIRATORS



**RC4** is a filter respirator with hood. In combination with a P3 filter, it protects face and respiratory system from splinters, fumes, dusts and can be conveniently used for light duty sandblasting works. **ACS 951** and **ACS 952** are constant flow air line respirators. They protect both the respiratory tracts and the parts of the body more exposed to abrasive blasts. **ACS 951** is provided with mask and hood, while **ACS 952** with ABS helmet and waistcoat.

Air line constant flow breathing apparatus is ideal for use in chemical plants and in every industrial workplace.

They protect breathing ways from the dangerous effects of the handled chemicals.

**SET AC190** is provided with mask TR82 or TR2002.



RC4



ACS 951

## Sandblasting respirators

103000000	RC4 respirator half mask with hood
1310200CJ	SET ACS 951 full face mask with compressed air line hood
1315100CJ	SET ACS 952 compressed air line hood

## Air line respirators

1300000EC	SET AC 190 TR82 full face mask with flow regulator
231000000	FU LIGHT WEIGHT HOOD WITH VISOR
231000006	H HOOD
1300100CJ	Set AC 190 TR2002 full face mask with flow regulator

## Accessories

1393000CJ	Hose cut 8 x 17 10m with couplings
1393100CJ	Hose cut 8 x 17 20m with couplings
1393300CJ	Hose cut 8 x 17 30m with couplings
1393200CJ	Hose cut 8 x 17 50m with couplings
1512400EC	Filter unit for compressed air for one operator
1512500EC	Filter unit for compressed air for two operators
1512600EC	Filter unit for compressed air up to three operators
151240100	Coalescent cartridge for one operator
151240200	Carbon cartridge for one operator
151250100	Coalescent cartridge for two operators
151250200	Carbon cartridge for two operators



ACS 952



AC 190 TR2002



AC 190 TR82



AC FU



AC H

# SANDBLASTING AND AIR LINE RESPIRATORS

## Flow regulator AC 95

The regulator **AC 95** delivers to the wearer a continuous flow of air which can be varied by acting on the special knob. It is fitted with universal quick couplings to connect to the feeding hose. An alarm activates if the flow drops below a preset minimum. The regulator is mounted on a supporting plate complete with waist belt.

The **AC 95** is also fitted with a thread to lodge the filter silencer EOD 55 which, beside dampening the noise generated by the airflow, filters possible pollutants that may still be present in the hoses. The limited weight, considering the materials used, and the compact design offer an easy and effective use.

The **AC 95** can be used in combination with masks fitted with EN 148-1 connectors and with hoods in chemical protection or sandblasting.



## AC FU

The **AC FU** combines compressed air protection with the practicality of a flip-up visor, offering an ideal balance between safety and ease of operation. The integrated regulator delivers a steady airflow and excellent freedom of movement, while the flip-up design allows users to easily switch between work and inspection phases without removing the device. Ideal for maintenance, painting, surface treatment, and chemical handling activities, it provides outstanding comfort, durability, and functionality in a single professional system.

## RC 4

**RC4** is a hooded filtering respirator designed to protect the face and respiratory tract from splinters, fumes, dust, and abrasive particles. It is ideal for dusty environments and for tasks such as grinding, sanding, polishing, or light blasting. The device is lightweight, durable, and easy to wear, and it covers down to the shoulders thanks to its robust hood. It can be used with a 100 P3 R dust filter or with any filter compliant with EN 148-1, provided that its weight does not exceed 300 g.

The safety visor consists of two replaceable lenses: an external lens made of clear glass, an internal lens made of polycarbonate.



## ACS 951

**ACS 951** is an isolating respirator fed with a continuous flow of compressed air complete with a hood and protective waistcoat which make it an effective means to protect both the breathing ways and the parts of the body more exposed to the abrasive blast. The facepiece is made of a mask integral with the waistcoat which adapt itself to any face contour without any annoying pressure. Its compact design allows interventions even in awkward spaces. The mask/hood is complete with two exhalation valves protected by a special cover and features two built-in ducts which lead the air flow to skim over the lenses to avoid steaming up. The head harness is outside and attached to the facepiece by means of self-adjusting buckles which permit a quick and easy donning. The hood is sewn to the mask and protects the body down to the waist.



Polycarbonate screen impact resistant

Fast donning hook

Splash proof hood material

Light and strong corrugated hose



## ACH

The **ACH** is a compressed air device equipped with a flow regulator and a splashproof hood, designed to provide full protection for the respiratory system, face, and head. Its lightweight and comfortable construction ensures a constant supply of breathable air even during demanding work conditions. Particularly suitable for painting, handling of chemical substances, industrial cleaning, and operations in contaminated or oxygen-deficient environments. A simple, safe, and reliable solution for continuous professional use.

## ACS 952

**ACS 952** is an isolating respirator fed with a continuous flow of compressed air complete with a helmet and protective waistcoat which make it an effective means to protect both the breathing ways and the parts of the body more exposed to the abrasive blast. The helmet is made of a shock-resistant material and fitted with adjustable head harness from size 55 to 61. In the helmet, a duct leads the airflow to skim over the visor to avoid steaming up. The helmet is fitted with elasticated chin-strap adjustable by means of a sliding buckle, this keeps the helmet in place during any movement or position; two exhale valves protected by a special lid, a double visor, inside polycarbonate, outside glass, easily replaceable when worn out. The waistcoat, made of a strong plasticized fabric, is sewn to the rubber gasket which connects it to the helmet.





# FRESH AIR RESPIRATORS (DUCT)



**DUCT** is a range of Isolating Fresh Air Respirators with full face mask designed to be used in oxygen deficient environments and narrow spaces such as tanks, silos, wells, sewer systems, etc., all confined spaces with a lack of oxygen and where the poor ventilation can suddenly modify the ambient concentration of toxics. For the use of this device it shall be possible to get uncontaminated air from outside the working environment.

**DUCT** is available in two versions:

- **DUCT ECO**, unassisted fresh air respirator, for breathing the lung power only is necessary.
- **DUCT ECO A**, assisted fresh air respirator. The respiration is facilitated by an electric fan. It can be used by two operators simultaneously.



Carrying case made of ABS



DUCT ECO

## Fresh Air Respirators

14000ECO0	Fresh air respirator DUCT ECO (without mask)
14001ECO0	Fresh air respirator DUCT A ECO (without mask)

## Accessories

113020000	TR 2002 CL2 full face mask
112190000	TR 82 full face mask
14017ECO0	Feeding hose - cut 10m
118750000	Corrugated hose TUR TM 2090 V0
911200000	Harness for DUCT
14010ECO0	Manifold with plug for DUCT ECO
14011ECO0	Manifold with valve for DUCT A ECO
157610000	Electric fan DUCT ECO
14016ECO0	Kit 2 <sup>nd</sup> operator DUCT ECO

# RESPIRATOR DUCT ECO / A ECO

**DUCT** is a range of Fresh Air Isolating Respirators that are easy to use and manage. The fact that they are intuitive and easy to learn to use and that they require minimal maintenance compared to all other isolating protection devices makes them ideal for simple applications with limited spending capacity. They are ideal for accessing confined spaces in agriculture or in Utility management. They are supplied in a convenient plastic case that makes them easily transportable.

**DUCT** is available in two versions:  
**DUCT ECO** and **DUCT A ECO**

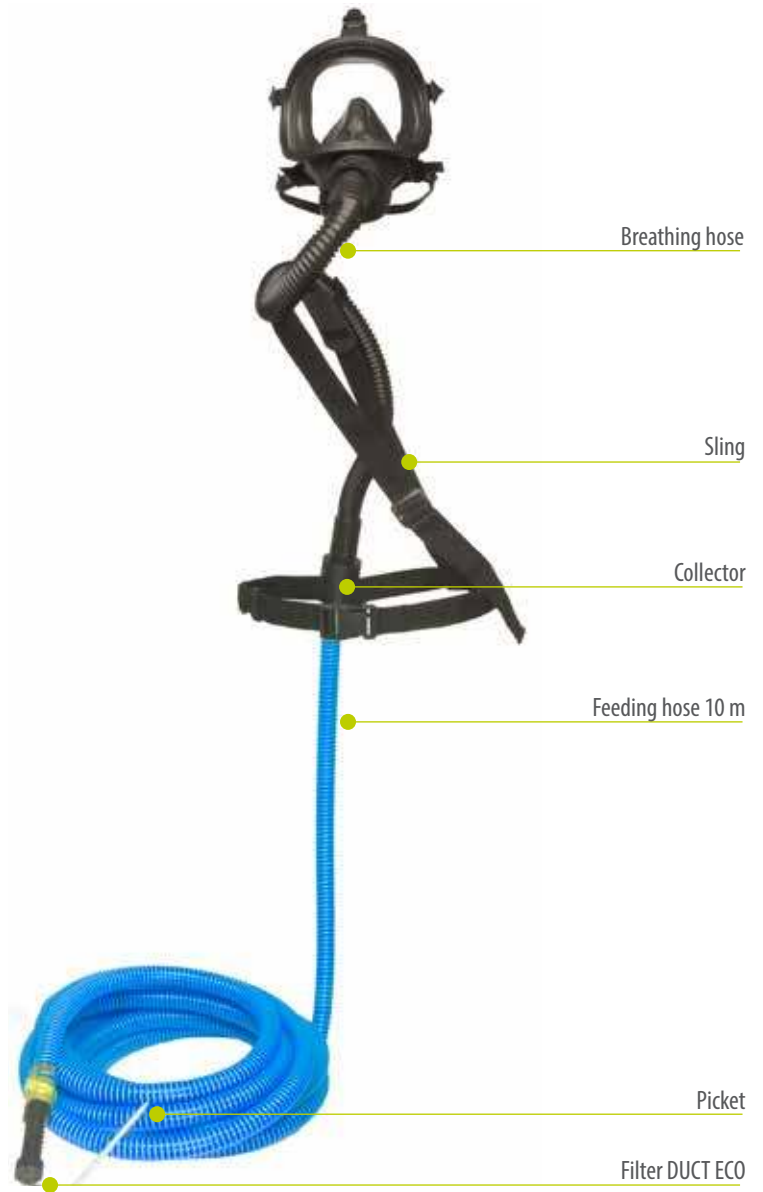
The **DUCT** comes with a 10 m long coiled PVC air supply hose.

It is possible to connect together several hoses to obtain different total lengths:

- 20 m for the non-assisted version
- 60 m for the assisted version if used by only one operator
- 30 m for the assisted version if used by two operators

## DUCT ECO

Unassisted fresh air respirator.  
Only the lung power is necessary for breathing.



### Fresh Air Respirators

14000EC00	Respirator DUCT ECO (without mask)
14001EC00	Respirator DUCT A ECO (without mask)

SPASCIANI fullface masks - certified EN 136:1998 - designed for **DUCT**

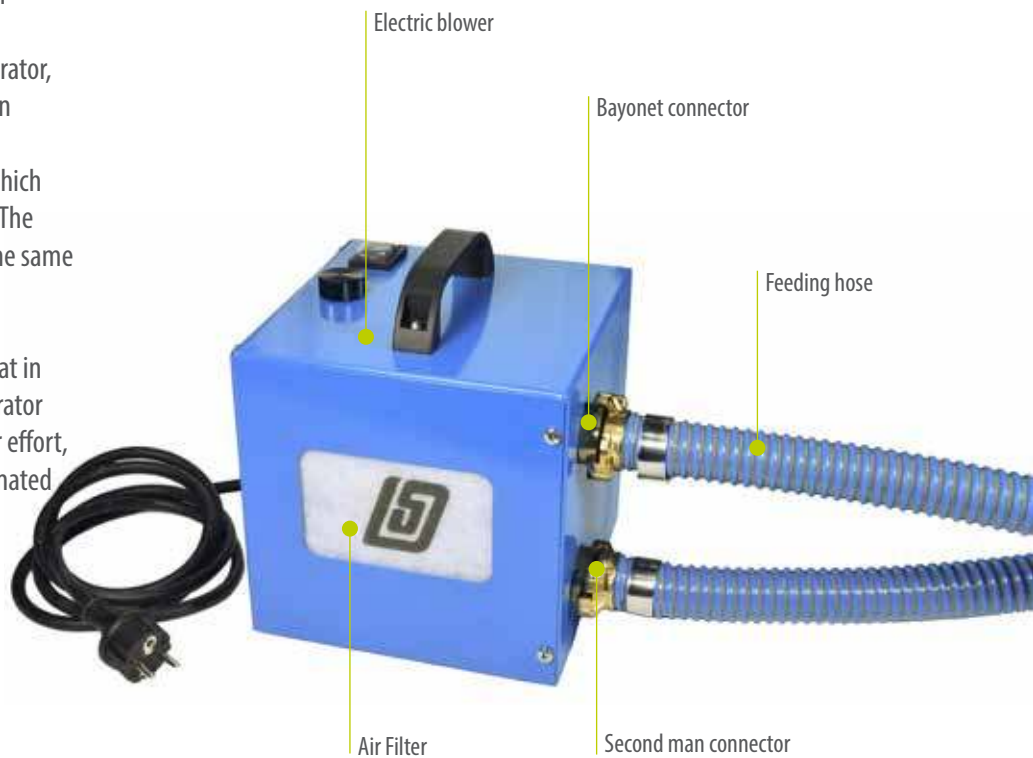


## DUCT A ECO

**DUCT A ECO** is the “assisted” version; it has an electric blower attached to the end of the air supply hose which pumps fresh air to the operator, increasing comfort and decreasing difficulty in respiration.

Moreover, this system has an outflow valve which is useful for the release of possible excess air. The electric blower can supply two operators at the same time.

The **DUCT A ECO** is designed in such a way that in case the electric blower is turned off, the operator can continue to breathe, even if with a higher effort, and may safely move away from the contaminated area.



## CORRUGATED HOSE

The corrugated hoses used for the entire range of SPASCIANI products are made with a new technology which reaches the highest quality level available.

The corrugated hose for the DUCT is moulded with a special additive that makes it flame resistant.

This new technology allows shorter connections and as a consequence to get a more handy and manageable product.



P/N 118440000





# EEBD - EMERGENCY ESCAPE BREATHING DEVICE



**SK1203** is an open circuit breathing apparatus with hood for escape. Designed for use in emergency escape situations and in all the environments potentially dangerous because of the presence of fumes or low level of oxygen. It releases a constant air flow for 15 minutes.

**FUGE** is an Emergency Escape Breathing Device (EEBD) that in case of emergency supplies, on demand, an air flow for a minimum guaranteed time of 15 minutes. It is meant to be used in all environments where dangerous situations may occur due to fire fumes or lack of oxygen.



SK1203



FUGE



FUGE Tail



FUGE Rescue

## Emergency escape breathing device

403010000	SK 1203
40301000C	SK 1203C Composite
403030000	Fuge TR 2002 BN CL3
403050000	Fuge Rescue TR 2002 BN CL3
403020000	Fuge Tail TR 2002 BN CL3
40303000C	Fuge CTR 2002 BN CL3 Composite
40305000C	Fuge Rescue CTR 2002 BN CL3 Composite
40302000C	Fuge Tail CTR 2002 BN CL3 Composite

# SK1203

## Emergency escape breathing device SK

403010000	SK 1203
40301000C	SK 1203C Composite

**SK1203** is a compressed air open circuit breathing apparatus with hood for escape, from all environments potentially dangerous because of the presence of fumes or lack of oxygen. It is designed to create a constant air flow of 15 minutes thanks to a 2 l 300 bar cylinder which is directly connected to the valve/reducer that is provided with a gauge which continuously indicates the pressure inside the cylinder.

**SK1203** is made of a cylinder (steel or composite), a valve / pressure reducer, a breathing tube, a hood and a carrying bag. Set complete with fully charge steel cylinder weighs 6 Kg approx. Set complete with fully charged composite cylinder weighs 4 Kg approx.

Exclusive automatic activation system of the air flow at the extraction of the hood. This allows not to waste air but to benefit of a constant flow of breathable air for 15 minutes.



Our breathing apparatus **SK** boast numerous certifications. They are Personal Protective Equipment (PPE), PED (equipped with compressed breathable air cylinder according to “Pressure Equipment Directive”) and MED (Marine Equipment Directive) certified, which means that they can be used on board ships.

They have obtained the voluntary **ATEX** marking, which states that the device is suitable to be used in potentially explosive atmospheres, which means when the danger of a potential explosion is associated with the presence of gas or dusts on the surface (thus excluding mines and deep caves).

Below the details of the **ATEX** marking:

#### **1G Ex h IIB T6 Ga**

Non-electric equipment intended for use in the surface industry, where explosive atmospheres due to the presence of gas may occur. - **Zone 0**

#### **1D Ex h IIIC T85°C Da**

Non-electrical devices for use in the surface industry, where there is the possibility that explosive atmospheres due to the presence of dust occur - **Zone 20**



# FUGE

## Emergency escape breathing device - FUGE

403030000	Fuge TR 2002 BN CL3
403050000	Fuge Rescue TR 2002 BN CL3
403020000	Fuge Tail TR 2002 BN CL3
40303000C	Fuge CTR 2002 BN CL3 Composite
40305000C	Fuge Rescue CTR 2002 BN CL3 Composite
40302000C	Fuge Tail CTR 2002 BN CL3 Composite



**FUGE** is a Self Contained Breathing Apparatus designed for escape. In case of emergency it supplies, on demand, an air flow for a minimum guaranteed time of 15 minutes with a 2 l/300 bar cylinder

It has great wearability and it's totally hermetic.

It is meant to be used by specialized operators in all environments where dangerous situations may occur due to fire fumes or lack of oxygen.

Set complete with fully charged steel cylinder weighs 6.5 Kg approx.  
Set complete with fully charged composite cylinder weighs 4.2 Kg.



# FUGE RESCUE AND FUGE TAIL

Fuge Rescue and Fuge Tail are provided with a supporting harness to keep the cylinder in position on the thigh. This allows a comfortable wear while enabling the wearer to adjust it according to his needs. This solution allows free movement even in narrow spaces.

**FUGE RESCUE** complete with fully charged steel cylinder weighs 6.7 Kg approx., with fully charged composite cylinder 4.4 Kg.

**FUGE TAIL** is provided with a 3-way valve with switch over device, and acts as a "back-up" to the compressed air systems fed from the line, thus granting, in case of blackout or disconnection from the line, a constant feeding of breathable air.

Set complete with fully charged steel cylinder weighs 7,1 Kg approx. Set complete with fully charged composite cylinder weighs 4,8 Kg and for this reason it is usable for a whole shift.

## AIS Technology

is an exclusive system of acoustic alarm, developed and patented by Spasciani, which is integrated in the demand valve and warn of the imminent exhaustion of the air reserve without air waste.



Fuge Rescue



Fuge Tail

## 3-WAY VALVE

The **3-way valve** is placed between the reducer, the demand valve and the feeding line.

In case the air supply is cut off accidentally or intentionally, the 3-way valve switches automatically to the cylinder. In such a condition the warning, which is built into the demand valve, is activated.

The signal originates from a sounding vibration produced by every inhalation. In this way the full capacity of cylinder is made available to the user for breathing. The acoustic warning is related to the respiratory frequency of the user and allows the user to distinguish his own signal from that emitted by nearby fellows or noise (Self Test Function).

The location of the warning device protects it from frost or dirt.

This system makes use of the **AIS Technology**, the acoustic alarm system integrated in the demand valve.



Black anodized aluminium 3-way valve

## REDUCER

The **pressure reducer** and the cylinder valve are integrated and provided with gauge indicating the pressure inside the cylinder. The pressure reducer keeps the outlet pressure steady throughout the emptying of the cylinder.

The opening/closing knob is anti-slip and easily allows to open/close the air supply.



Brass alloy nichel plated pressure reducer



## Exclusive AIS Technology

**3 minutes more of air** are extremely important when one works in critical conditions, during firefighting or in rescuing.

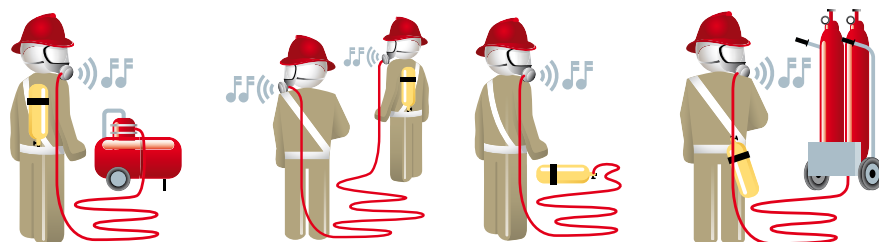
For this reason SPASCIANI developed and patented AIS Technology, a unique acoustic alarm integrated in the demand valve which, activated by the wearer's inhalation without air waste, warns when the air in the cylinder is running out.

It's a system **safe and protected** from external agents, such as frost or dirt, that **extends up to 30%** the time available to quit, in all safety, from the operation area.

# 3 minutes more



## 6 GOOD REASONS



1. No air loss
2. Sealed warning device
3. Self-test
4. Alarm audible in any circumstances
5. Alarm at distance
6. Second operator alarm

# SCBA SERIES FR FIRE FIGHTING

They are self contained breathing apparatus specifically designed for fire fighting, whose duration depends on the cylinder mounted: 6 liter 300 bar steel or 6,8 or 9 liter 300 bar composite cylinders.

**RN FR** can be supplied with mask and demand valve type A (EN148/3) or with mask and demand valve type BN (snap-in connector and threaded connector EN148/1 for filters).

The breathing apparatus is ideal for fire brigades and rescue teams for fire fighting and activities in extremely polluted environments or in oxygen deficiency.

## Back plates

15875FR00	RN FR
15873FR00	RN FR T2 (MED)
15871FREC	RN FR BIBO

## Masks

11230FR00	TR 82 A CL3+
112110000	TR 82 A E CL3+
11231FR00	TR 82 B CL3+
112120000	TR 82 B E CL3+
11300FR00	TR 2002 A CL3+
11301FR00	TR 2002 BN CL3+

## Demand valves

1588500CJ	A
1579100CJ	BN

## Cylinders

923030000	Cylinder 3 L 300 Bar
92323000C	Cylinder 3 L 300 Bar - Composite Unlimited life
924630000	Cylinder 6 L 300 Bar
92448000C	Cylinder 9 L 300 Bar - Composite Unlimited life
92426000C	Cylinder 6,8 L 300 Bar - Composite Ptfе Unlimited life

## Accessories

932290000	Cylinder sleeve made of nomex without reflectors (6 l/6.8 L)
926910000	Cylinder sleeve made of nomex with reflectors (6 l/6.8 L)
9324400CJ	4-way valve
151530000	Supplementary warning device
156890000	Cylinder 300 bar valve EN144 with excess flow valve
7799500CJ	Rescue hood
EATEX0000	ATEX marking





Fire, flames, toxic gases: these and many other risks have to be faced by firefighters and rescue teams. SPASCIANI offers with the RN FR a tool that allows to safely meet any situation.

Panoramic mask in overpressure with broad field of vision

Demand valve with integrated acoustic patented warning device

Adjustable and padded harness which improves comfort and allows prolonged use of the set

Cylinder anchorage with new locking device and retro-reflecting strap

Ergonomic back-plate comfortably distributing the weight and keeping the SCBA stable on the operator's back

The kidney belt makes the wearing of the set more comfortable by reducing the effect of weight on the operator's back during long lasting interventions

Photoluminescent gauge with scale also in PSI, up to 360 bar and with colored exhaustion area between 50 and 0 bar

Piston pressure reducer whose outlet pressure stays constant while the cylinder pressure decreases

Optional connection for 2nd operator

Valve grip preventing accidental opening or closing of the cylinder



# MODULES FOR FIRE FIGHTING BREATHING APPARATUS



## TR 82 A / TR 82 E A TR 82 B / TR 82 E B

These full face masks can be used with RN FR SCBA. They are made of a EPDM face blank and a panoramic visor offering wide visibility. In the E version they are equipped with a special system of metal brackets to fit to the slots of Fire Brigades and Police helmets. The system assures a great stability and tightness of the mask on the face. TR 82 A models are positive pressure full face masks with threaded connector to EN 148-3 (M45x3) while the TR 82 B are positive pressure full face masks with bayonet fitting connector. All of them can be used with positive pressure SCBA and meet the requirements EN 136:1998 Class 3+ / EN 137.



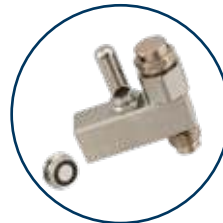
### Demand valve BN

Demand valve with quick connector to DIN 58600, it activates at the first inhalation. It features two easy buttons to release the valve.



### Demand valve A

Demand valve with standard connection to EN 148-3 (M45x3), easy to screw onto the mask even with gloved hands.



### Supplementary warning device

The accessory "supplementary warning device" can be mounted, on request, onto the reducer. This alarm gives the possibility to add a continuous whistle to the intermittent alarm signal built into the demand valve.



### Second man air outlet

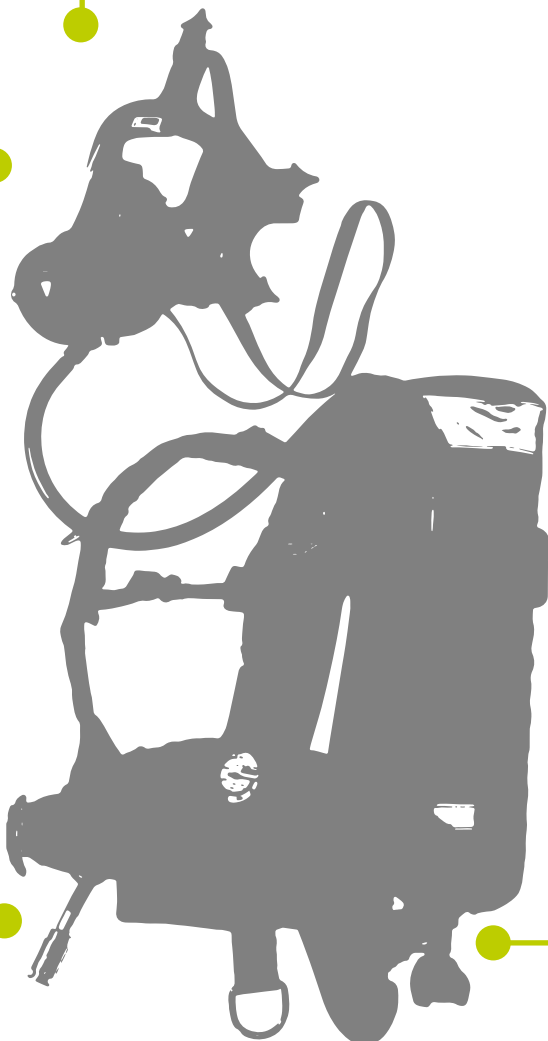
This medium pressure hose ending with a female quick connector allows the connection of a second man to the special outlet provided by the reducer RN FR. This connection can be used either by a full face mask with demand valve or a rescue hood, easier to fit to the casualty being rescued.



### TR 2002

Full face mask in EPDM, it features a modern design and its extremely broad visor grants a wide field of vision.

The mask is available in two different versions: A and BN according to EN 136:1998 / EN 137.



### Twin cylinders

The system RN FR can operate with two cylinders to extend the autonomy of the set. A simple T connector allow the operator to equip with two composite cylinders of 6,8 l or 9 l.



### Composite cylinders

The breathing apparatus RN FR can be outfitted with composite cylinders which lighten the set and grant more agility to the operator. The capacity of these cylinders can be 6,8 l 300 bar or 9l 300 bar.



### Steel cylinders

RN FR series can be equipped with steel cylinders of different volume and pressure capacity. SPASCIANI can offer 6 l 300 bar cylinders.



### Excess Flow Valve EFV

The EFV, optionally fitted onto SPASCIANI Self Contained Breathing Apparatus, limits the uncontrolled exit of compressed air from a high pressure cylinder in case of breaking of the valve or in case of unintentional and sudden opening.

# SCBA SERIES INDUSTRIAL

They are self contained breathing apparatus whose duration depends on the cylinder mounted: 3 or 6 liter 300 bar steel or 3, 6,8 or 9 liter 300 bar composite cylinders. **RN** can be supplied with mask and demand valve type A (EN148-3) or with mask and demand valve type BN (snap in connector and threaded connector EN148-1 for filters; the masks automatically sets itself correctly for the negative pressure when used with filters). This breathing apparatus is ideal for maintenance interventions in chemical plants, to work in very polluted environments or in oxygen deficiency.

## Back plates

158730000	RN T1
158750000	RN
1587100EC	RN BIBO
158250000	BVF
158290000	BVF BU
158320000	RN MINI

## Masks

11230000	TR 82 A
11231000	TR 82
11300000	TR 2002 A CL3
11306000	TR 2002 S A CL3
11301000	TR 2002 BN CL3
11307000	TR 2002 S BN CL3

## Demand valves

1588500CJ	A
1579100CJ	BN

## Cylinders

923030000	3 l 300 bar cylinder unlimited life
92303000C	3 l 300 bar cylinder Composite unlimited life
924630000	6 l 300 bar cylinder unlimited life unlimited life
92448000C	9 l 300 bar cylinder composite unlimited life
92426000C	6.8 l 300 bar cylinder Composite unlimited life
925600000	50 l 300 bar EN 144 cylinder unlimited life

## Accessories

932290000	Cylinder sleeve made of nomex without reflectors (6 l/6.8 L)
926910000	Cylinder sleeve made of nomex with reflectors (6 l/6.8 L)
9324400CJ	4-way valve
151530000	Supplementary warning device
156890000	Cylinder 300 bar valve EN144 with excess flow valve
7799500CJ	Rescue hood
EATEX0000	ATEX certification





Confined spaces and oxygen deficient environments, tanks and plants inspections: RN breathing apparatus is the right product to face any risk safely.

Panoramic mask in overpressure with broad field of vision

Demand valve with integrated acoustic patented warning device

Adjustable and padded harness which improves comfort and allows prolonged use of the set

Ergonomic back-plate comfortably distributing the weight and keeping the SCBA stable on the operator's back

Cylinder anchorage with new locking device and retro-reflecting strap

Photoluminescent gauge with scale also in PSI, up to 360 bar and with colored exhaustion area between 50 and 0 bar

Piston pressure reducer whose outlet pressure stays constant while the cylinder pressure decreases



# RN MINI

## A self contained breathing apparatus (SCBA) that uses an open-circuit breathing system, not depending from the environment.

The **RN MINI** are lightweight apparatus – the set weighs 10,5 Kg, complete with mask and 3 l 300 bar fully charged steel cylinder and 7,5 Kg with mask and fully charged 3 l 300 bar composite cylinder - intended for short interventions and equipped with a small and compact back-plate carrying system to allow operators to easily access confined spaces. SPASCIANI **RN MINI** self-contained breathing apparatus are classified as

Type 1 (device for industrial use) available with 3 l cylinders only. SPASCIANI **RN MINI** self-contained breathing apparatus are optionally provided with the Automatic 4-way valve, an accessory that allows to feed a second operator who will then be equipped with an individual warning device signal at his mask; with this accessory it is also possible to connect the self-contained breathing apparatus to an alternative source of air to prolong its autonomy and/or to ensure a safe escape whenever the main feeding source has suffered an accidental interruption. SPASCIANI **RN MINI** self-contained breathing apparatus are certified with all SPASCIANI fullface masks.

Mask selected among Spasciani models

Demand valve with AIS technology

Shoulder straps with paddings to improve comfort

3l 300 bar composite or steel cylinder

Small and compact back plate

Possible use with 4-way valve

Photoluminescent pressure gauge scaled, also in PSI, up to 360 bar and colored exhaustion area between 50 and 0 bar

Piston reducer whose outlet pressure remains constant while cylinder pressure decreases



## Self contained breathing apparatus provided with 3 liter 300 bar composite and steel cylinder.

BVF is ideal for use in fast interventions in chemical plants or for the escape from dangerous areas.

The optional BU system, in combination with external airline, allows to set the apparatus so that the alarm is immediately activated in case of a failure of the main air supply (compressor or cylinder).

BVF adds the highest degree of safety and comfort to the efficiency, versatility and simple use of the RN System, as well as the astonishing field of vision of the SPASCIANI TR 2002 mask.



# SYSTEM MODULES FOR INDUSTRIAL BREATHING APPARATUS



## TR 2002 CL3 / CL2

Full face mask in EPDM or TPE, it features a modern design and its extremely broad visor grants a wide field of vision. The mask is available in two different versions: A and BN, both in class 2 and in class 3, according to EN 136:1998. They are also available in silicone.



## TR 82 A / TR 82 B

These full face masks can be used with the breathing apparatus RN. They are made of a face blank manufactured in EPDM and a panoramic visor offering wide visibility. They meet the requirements EN 136:1998 Class 3. They are also available in silicone.



## Demand valve BN

Demand valve with quick connector to DIN 58600, it activates at the first inhalation. It features two easy buttons to release the valve



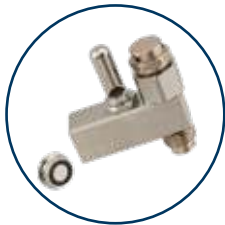
## Demand valve A

Demand valve with standard connection to EN 148-3 (M45x3), easy to screw onto the mask even with gloved hands.



### Soft belt

This soft belt in the hips area improves portability of the breathing apparatus, increasing comfort when used for long periods of time.



### Supplementary warning device

The accessory "supplementary warning device" can be mounted, on request, onto the reducer. This alarm gives the possibility to add a continuous whistle to the intermittent alarm signal built into the demand valve.



### Excess Flow Valve EFV

The EFV, optionally fitted onto SPASCIANI Self Contained Breathing Apparatus, limits the uncontrolled exit of compressed air from a high pressure cylinder in case of breaking of the valve or in case of unintentional and sudden opening.



### Twin cylinders

The system RN can operate with two cylinders to extend the autonomy of the set. Simple T connectors allow the operator to equip with two composite cylinders of 6,8 l or 9 l.



### Composite cylinders

The breathing apparatus RN can be outfitted with composite cylinders which lighten the set and grant more agility to the operator. The capacity of these cylinders can be 3 l, 6,8 l, 300 bar or 9 l, 300 bar.



### Steel cylinders

RN series can be equipped with steel cylinders of different volume and pressure capacity. SPASCIANI can offer 3 l, 300 bar, 6 l, 300 bar cylinders.

# ACCESSORIES FOR SCBA SERIES

## SCBA carrying case



Light ABS carrying case, is useful for the transport and protection of the breathing apparatus; it is available for one or two cylinders (for the twin-cylinder SCBA or spare cylinder). Its high visibility orange color is ideal for emergency situations.

## Prescription lenses frame



Easy to use and extremely stable thanks to the strong sucker to be applied to the visor. This frame allows those that normally wear glasses to use a full face mask in total safety.

## Wall mounted container in ABS



Wall installation with metal holder for the cylinder; it grants extremely quick donning time. The transparent cover makes the breathing apparatus always visible whilst protecting it from UV rays.

## Cylinder sleeve



In flameproof material protects cylinders of different dimension, this protection helps maintaining in optimal conditions cylinders also when used in extreme conditions.

## Metal cabinet



Wall container with metal holder, ideal for fixed and outdoor installations. Protects the breathing apparatus from the environment and grants an easy donning.

## High pressure test group



The tester is used to check the pressure in the cylinders. With a connection EN 144 both male and female this item can be used also as double checking for the breathing apparatus gauge accuracy.

## 4 way valve

**The 4-way valve is a connector that links the RN to a compressed air line.**

The **4-way valve** is an automatic device with two medium pressure inlets provided with male quick connectors and two medium pressure outlet provided with female quick connectors.

The device is mounted on an holder with two slits for the connection to the support belt of RN or BVF breathing apparatus or to the supporting belt used for holding the medium pressure hose of the RC or RL systems.

Two feeding sources at medium pressure can simultaneously be connected to the inlets, two operators can be fed by connecting their demand valves to the outlets.

The feeding sources that can be connected to the inlets are the main feeding from an air line system set at 5-6 bar (LINE inlet) and a breathing apparatus RN or BVF.

The **4-way valve** is automatic and it switches the feeding from air line to the isolating breathing device if the line is interrupted for any reason (accidentally or done on purpose by the user).



## Rescue hood

**The Rescue hood is a constant flow hood, used in case of emergency to help people in need.**

It is extremely easy to use and can be worn by anybody regardless their face shape and size. The Rescue hood can be used with every SPASCIANI respirator connected to the second air outlet. The hood is **rapidly and easily** activated by connecting it to the second man air outlet, placing it on the casualty's head, tightening the hood's string.

The kit is held in a fire-resistant bag that can be hung to the waist belt, owing to velcro loops. It includes Rescue hood and 1200 mm breathing hose.

The Rescue hood has been tested and approved according to EN 137:2006.



## BN Full face mask

**The multipurpose TR 2002 BN mask can be used either with a breathing apparatus or with a filter, as it automatically switches from negative to positive pressure settings.**

The full face mask is able to work both in **negative** and in **positive pressure** thanks to its special device, unique and patented, that recognizes automatically the system connected and pre-charges the mask valve when it is used with a positive pressure apparatus.

The mask is composed by a panoramic visor with wide visibility and face blank with double revert seal.

The TR 2002 BN can be used with breathing apparatus SPASCIANI with demand valve BN with bayonet quick connector according to DIN 58600. The mask can also be used with filters, e.g. like the SPASCIANI series 200, or negative pressure respiratory devices with standard screw connector (EN 148-1).

The full mask TR2002 guarantees a high comfort and a great wearability under the firefighters helmet





# MOBILE FEEDING UNITS



## Mobile feeding units for airlines

With duration from 120 min to 15 hours approximately. Available with one or two 50 l cylinders 300 bar or 2 or 4 steel cylinders 6 l 300 bar. They can feed one or two men via hose cuts of 10, 20, 30 or 50 m.

In the **BUSS** version it is possible to connect the trolley to an airline so that it can act as a back-up. Should the air from the main supply be interrupted, the trolley automatically switches to the cylinder pack, thus ensuring continuity of operation.

All mobile units can be used with simple **kits RL**, full face mask - demand valve - waist belt or connected to any SPASCIANI breathing apparatus equipped with 4-way valve.



RC 2603



RC 25002



BUSS 4603

### Mobile feeding units RC

1513300CJ	RC 2603 Twin Cylinder trolley 2x6l 300 bar, duration 2 hours approx.
1514100CJ	RC 4603 Single Cylinder Trolley 4x6l 300 bar cylinders, dur. 4 hours approx.
1513700EC	RC 15002 Single Cylinder Trolley EN 144 w/o cylinder
1513800CJ	RC 25002 Twin Cylinder Trolley EN 144 w/o cylinders
9326200CJ	RB Pressure reducer

### Mobile feeding units for RL

1513600CJ	Cylinder and filter unit - 2x6l 300 bar (BUSS)
1513900CJ	Cylinder and filter unit - 4x6 l 300 bar (BUSS)
1513500EC	Filter unit - 2x50 l 300 bar (BUSS) EN144*
4049900KT	BVF/A BU 1303 breathing apparatus
	Cascade system

\*w/o cylinders

### Kit RL for one operator

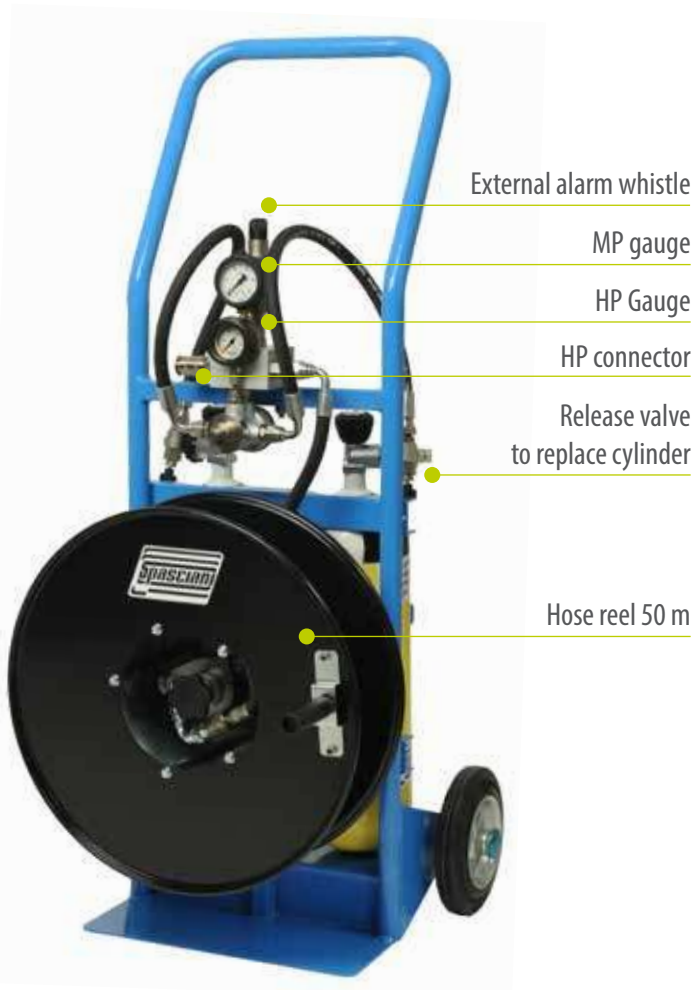
4058000KT	Kit TR 2002 A, demand valve, waist belt
4058200KT	Kit TR 2002 BN, demand valve, waist belt

### Accessories

1393000CJ	10 m 8 x 17 hose cut with connectors
1393100CJ	20 m 8 x 17 hose cut with connectors
1393300CJ	30 m 8 x 17 hose cut with connectors
1393200CJ	50 m 8 x 17 hose cut with connectors
148130000	Holding belt
1588500CJ	Demand valve A
113000000	Mask TR 2002 A

## RC 2603

The mobile feeding unit **RC 2603** is fitted with two cylinders 6 l 300 bar which ensure an autonomy of approx. 120 min to one user. The trolley is fitted with release and check valves which permit the replacement of cylinder in use to extend autonomy. The reducer group is simple to operate and allows monitoring both the high and intermediate pressure. A whistle activates when the air reserve is about to finish.



## RC 25002

The mobile feeding unit **RC 25002** can hold two cylinders 50 l 300 bar which ensure with the latter an autonomy of approx. 120 min to one user.

This unit is designed to get maximum autonomy while keeping the system movable and handy. It can be displaced by one man only. The toolbox can hold all the accessories that make up the airline.



# BUSS 4603

The mobile unit **BUSS 4603** is a backup system for airlines. It can be used independently with the same performances of a feeding unit **RC4603** or it can be connected to an airline through a filter group. In this configuration, should the air from the main supply be interrupted, the trolley automatically switches to the cylinder pack, thus ensuring continuity of operation. When the main air source is restored it switches back to normal operation. It is also possible to replace cylinders during use to extend duration.





SIBOL 150 P3U CE 0099  
FFP3 NR D EN 149:2001

# EYE PROTECTION



# EYE PROTECTION

The range of SPASCIANI-SIBOL glasses is designed to meet the different needs of face protection at the workplace. Safety but also comfort and excellent ergonomic adaptability make these eye protection devices perfect for every user, without neglecting the aesthetic and design.

## TECHNICAL SPECTACLES

SIBOL offers the best and most appropriate range of safety glasses with a wide variety of frames and lenses. Our glasses perfectly combine safety, comfort and design and meet the most demanding European safety standards.

## DESIGN SPECTACLES

Safety spectacles which match the most cutting-edge lines with comfort. SIBOL spectacles are made with the best quality optical lenses, class 1, suitable for continuous works.

Different frames and lens options in order to satisfy all possible work environment risks, with an extensive range of different models, SIBOL offers the most suitable eye protection range. SIBOL eye protection products comply with the most stringent European standards.

## PANORAMIC GOGGLES

Safety goggles which match the most cutting-edge lines with comfort. SIBOL goggles are made with the best quality optical lenses, class 1, suitable for continuous works.

SIBOL eye protection products comply with the most stringent European standards.

## ADAPTORS AND VISORS

SIBOL have a complete range of head and helmet adapters and visors with ergonomic design to protect the face against different hazards.



# TECHNICAL SPECTACLES

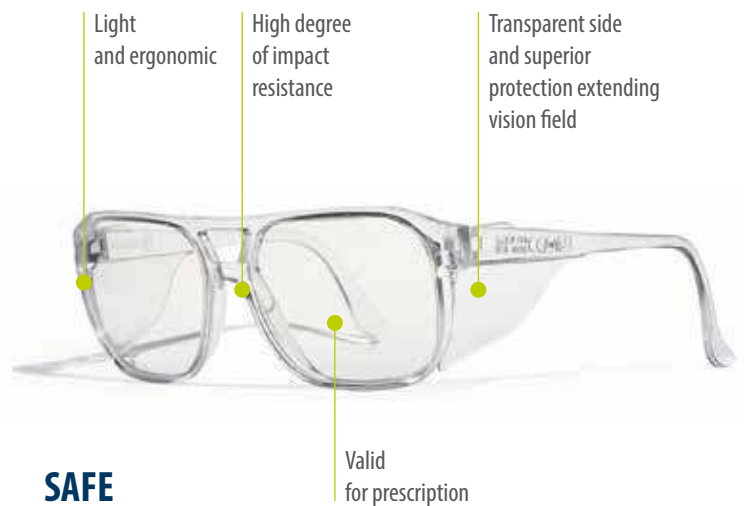
SIBOL offers the best range of technical safety glasses with a large variety of frames and lenses. Our glasses combine safety, comfort, and design and meet the most demanding European safety standards.

LUNA	
WSB11814002	Black Transparent side. Trivex colourless scratch-resistant
WSB11814004	Blue Transparent side. Trivex colourless scratch-resistant
WSB11811001	Black Transparent side. Polycarbonate Scratch-resistant Anti-fog colourless
WSB11811003	Blue Transparent side. Polycarbonate Scratch-resistant Anti-fog colourless



**LUNA**

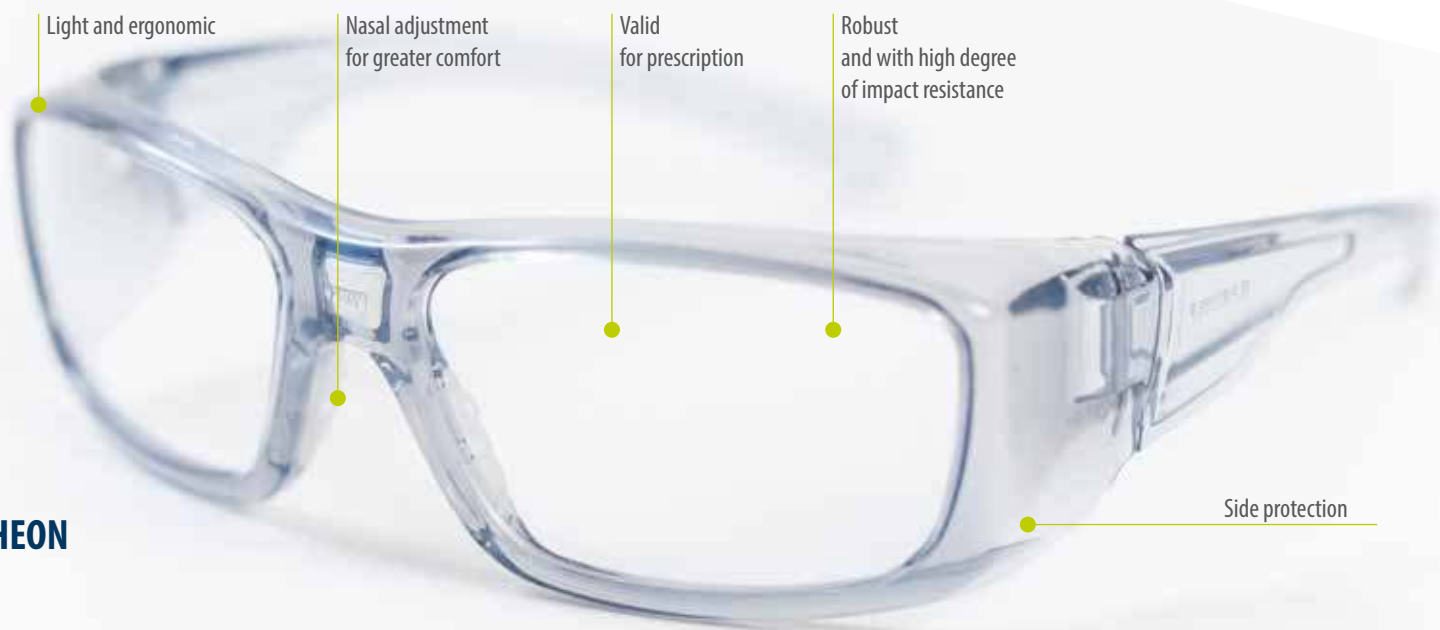
SAFE	
WSB11504000	Crystal metallic core. Trivex colourless scratch-resistant
WSB11521044	Crystal with rubber. Trivex colourless scratch-resistant
WSB11521014	Black nylon CP. Trivex colourless scratch-resistant
WSB11523000	Crystal CP. Polycarbonate Scratch-resistant Anti-fog colourless
WSB11522010	Black nylon CP. Polycarbonate Scratch-resistant Anti-fog colourless



**SAFE**



THEON	
WSB13904000	Trivex colourless scratch-resistant
ESG7910DRX	Polycarbonate Scratch-resistant colourless



Light and ergonomic

Nasal adjustment for greater comfort

Valid for prescription

Robust and with high degree of impact resistance

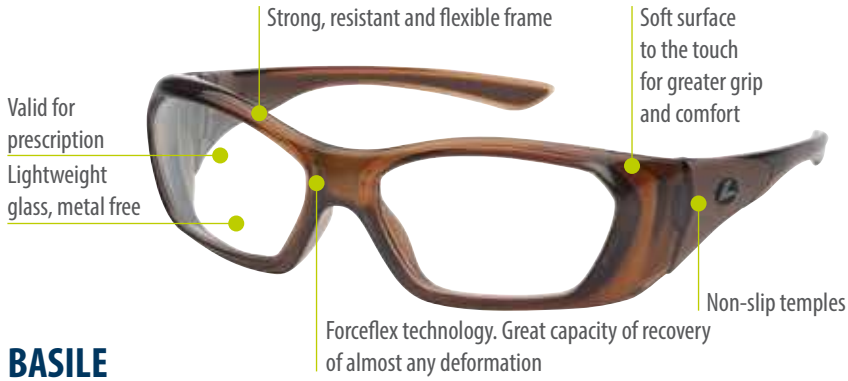
Side protection

**THEON**

# TECHNICAL SPECTACLES

## BASILE

WSB12802000 Polycarbonate Scratch-resistant Anti-fog colourless



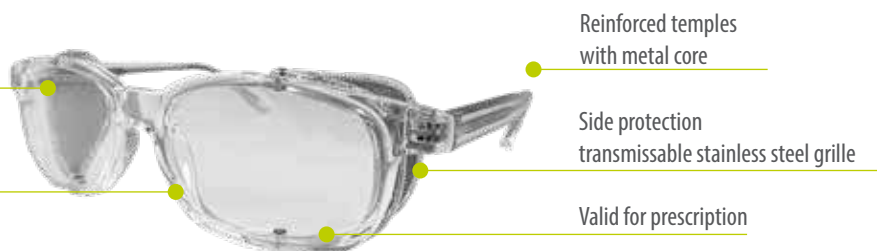
## BASILE

## SEY II

WSB13952000	GAFA T-M Policarbonato
WSB12954000	GAFA T-M Trivex
WSB13962000	GAFA T-S Policarbonato
WSB12964000	GAFA T-S Trivex

Robust and with high degree of impact and splash resistance

Mount sizes available: small, medium and large



## SEY II

## AKILES

WSB12902000 Polycarbonate Scratch-resistant Anti-fog colourless



## AKILES

## GALA

WSB12602000 Pink Polycarbonate Scratch-resistant Anti-fog colourless Size P

WSB12702000 Brown Polycarbonate Scratch-resistant Anti-fog colourless Size M



## GALA

# PANORAMIC GOGGLES

Complete range of safety glasses that combine cutting-edge design and comfort. SIBOL panoramic safety glasses are manufactured with the highest optical quality, class 1, suitable for continuous work. SIBOL eye protection glasses are certified according to European safety regulations and the CE market.

## BOGA

WSB12102107 Polycarbonate KN colourless



Resistant to melted metal drops, incandescent solids, medium energy impacts at 120 m/s, splashes and coarse dust particles

Indirect ventilation that prevents particular passage

Possibility of use with prescription glasses

Adjustable elastic with special width for more adjustment

Light and flexible

Wide visual field

Lens marking:  
K (resistance to surface deterioration by fine particles)  
N (resistance to fog)

## BOGA





# ADAPTERS AND VISORS

SIBOL offers a complete range of adapters and visors for helmet. They have an ergonomic design for better protection of the head when fitted with the most suitable visor.

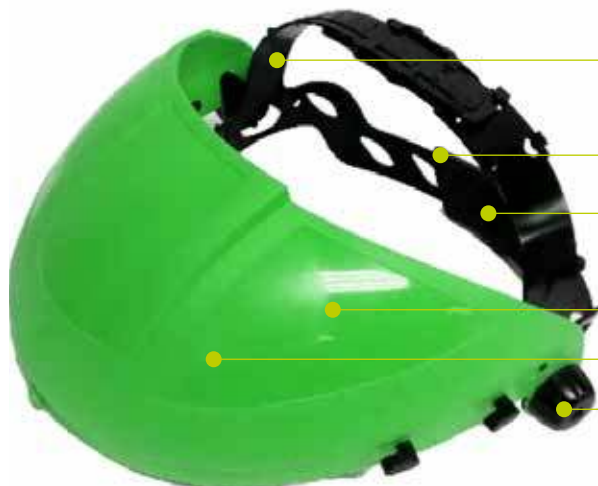
P/N	Description
WSB10000210	ADAPTER universal aluminium helmet 28773 Helmet 3772
WSB10000158	VIEWER Polycarbonate gold. DIN 5 Helmet for ovens 3772
WSB10000203	ADAPTER helmet Screen Holder
WSB10000230	ADAPTER universal aluminium helmet
WSB10000194	VIEWER Polycarbonate colourless. 200mm
WSB10000198	VIEWER Acetate colourless. 200mm
WSB10000204	VIEWER Polycarbonate colourless rigid. Electric arc
WSB10000232	VIEWER Polycarbonate gold DIN 5 ovens
WSB10000227	VIEWER Polycarbonate soldering T5

P/N	Description
WSB10000214	ADAPTER TUCAN 2
WSB10000194	VIEWER Polycarbonate colourless. 200mm
WSB10000198	VIEWER Acetate colourless. 200mm
WSB10000204	VIEWER Polycarbonate colourless rigid. Electric arc
WSB10000232	VIEWER Polycarbonate gold DIN 5 ovens
WSB10000227	VIEWER Polycarbonate soldering T5



- Folding with incorporated bumper
- Possible coupling with Silento (hearing protection)
- Compatible with wide range of visors
- Universal connection to helmet
- Easy placement and withdrawal by click

## Helmet adapter screen holder



- Height adjustment in 3 positions
- Press to "fast" adjustment. Rotor system
- Incorporated antisweat band
- Compatible with wide range of visors
- Large coverage in front and upper part
- Folding system. Adjustment by fixation

## Head adapter Tucan 2



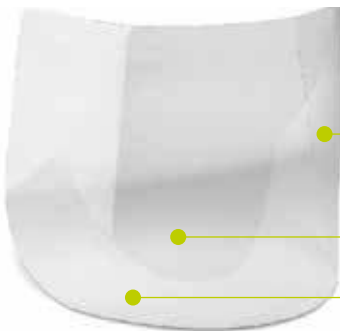
Robust and resistant structure (aluminum)

Two positions folding to maximum

Universal connection to helmet

Compatible with wide range of visors

## Universal helmet adapter



Flexible

Resistant to extreme temperature and medium energy particulate impacts (120 m/s)

Wide visual field

## Visor colorless polycarbonate



Certified as resistant to particles at extreme temperatures and high energy of 190 m/s

Scratch resistant rigid polycarbonate

Resistant to electrical arc short circuits

Resistant to melted metals and embers

UV Protection

## Visor electric arch



Certified as resistant to particles at extreme temperatures and high energy of 190 m/s

Rigid polycarbonate

Resistant to melted metals and embers

UV Protection

## Visor welding DIN 5



# HEARING PROTECTION



# HEARING PROTECTION

## EAR MUFFS

Sibol hearing protection systems have been designed for personal safety against exposure to “all types and levels of noise” that are developed in work environments. Surprising, innovative, effective, ergonomic, hygienic, durable and with an exceptional design, they comply, scrupulously, all the guidelines and quality regulations and are the consequence of the constant research and investment in R&D of the firm.

## EAR PLUGS

Ear protection against exposure to all types and levels of noise. SIBOL provides a wide selection of ear plugs which includes disposable and reusable versions designed to combine comfort with effective protection. Efficient, ergonomic, hygienic, durable and with an exceptional design, that achieve, scrupulously, all the directives and quality standards.



# EAR MUFFS

## UNIVERSAL HELMET EAR MUFFS

WSB16102001 | SILENTO Headset: 24dB



ABS adapter for optimal fixation

Height adjustable shells

Rotating shells with position indicator



## **SILENTO - 24dB**

Suitable to avoid over protection



## EAR MUFFS



Available couplings:

- only to helmet (universal connection)
- screen holder adapter (integrated helmet and visor)

# EAR PLUGS

## EAR PLUGS

WSB16101005 Earplugs dispenser DCMAX. Includes 500 pairs of DCMAX earplugs: 34dB





# MODULES AND ACCESSORIES



# ARAC TEST

## TEST AND MAINTENANCE

The periodic check of the respiratory protection device is an essential operation to have at any time an efficient and safe product ready for use.

SPASCIANI has realized a range of specific instruments for the check of the breathing protection devices to ensure that the performances of the reference standards are met. By means of these instruments, specifically trained personnel can perform the scheduled maintenance.

### Accessories

169050000	ARAC MINI
169040000	ARAC MINI plus
180600000	ARAC 2.5

**ARAC MINI e ARAC MINI Plus** are designed to carry out checks on the field in any environment of masks and breathing apparatus. The instruments are contained in a small case which is easily transportable. Completely analogic, it does not require electricity or compressed air.



## ARAC 2.5

### ARAC 2.5

The new generation of SPASCIANI test benches for the check of respiratory protection devices. The new bench, beside the flexible software and tests as well as the rigid and inflatable head, features a series of automatic routines to make controls easier and quicker. The Data Base access and the management of data have been highly improved and strengthened thus making **ARAC 2.5** ideal for maintenance stations.

**ARAC 2.5** is managed by an on-board PC fitted with a touch screen, it is possible, though, to connect peripherals such as mouse, keyboard, bar code scanner to enhance data entry. It is also possible to connect the machine to the internet for remote assistance and software updates.



# GAS AND DUST FILTERS

When choosing a filter, it is necessary to consider a series of factors which cannot be defined beforehand but they come only from a proper and careful risk analysis.

The type of application, the pollutant(s), the concentration, the temperature, the relative humidity, the smell threshold, the individual characteristics of the user are only some of the factors to be considered for a correct selection of a filter.

Filtering respirators protect from gases and/or vapours and/or dusts, fumes, mists because the filters retain by a chemical/physical action the airborne pollutants.

Depending on the protection given filters are divided into Gas, Particle and Combined filters, the latter being a combination of the previous two.

The standard EN 14387 gives the minimum requirements, the test methods and the marking for gas and combined filters. The standard EN 143 gives the same for Particle filters.

In the standards above, gas filters are divided in types A, B, E, K plus some other special filter as NO and Hg depending on the chemicals they protect from.

They are also classified 1, 2, 3 according to their absorption capacity. Particle filters are indicated by the letter P followed by the number 1 or 2 or 3 according to their efficiency.

Each filter type is then given a specific colour code.

Beside the main types, the so called multi-purpose filters offer at the same time the protection given by more filter types, e.g. AB, BK, ABEK.

SPASCIANI filters are produced in the series 100 and 200 with polypropylene housing, all fitted with standard connection EN 148-1. Filter respirators can only be used in environments where the Oxygen concentration in the air is at least 17% in volume.


When this condition is not granted the use of filtering devices is contraindicated. In such cases one shall resort to isolating breathing apparatus or to fresh air respirators.

It is not possible to state beforehand the duration of gas filters, this depending on the concentration of the pollutant but also on many more factors such as the humidity of air, the temperature, the breathing rate etc.

TYPE	COLOR	PROTECTION
AX		Organic Vapours, b.p. <65 °C
		Organic Vapours, b.p. <65 °C + dusts, fumes, mists
A		Organic Vapours, b.p. >65 °C
		Organic Vapours, b.p. >65 °C + dusts, fumes, mists
B		Inorganic Gases
		Inorganic Gases + dusts, fumes, mists
E		Sulphur Dioxide and Acids
		Sulphur Dioxide and Acids + dusts, fumes, mists
K		Ammonia and basic vapours
		Ammonia and basic vapours + dusts, fumes, mists
P		Dusts, fumes, mists
Hg		Mercury vapours + dusts, fumes, mists
NO		Nitrous vapours + dusts, fumes, mists
Reactor		CH <sub>3</sub> I + radioactive dusts, fumes, mists
UP3		All gases and vapours + dusts, fumes, mists
		All gases and vapours + dusts, fumes, mists
		All gases and vapours + dusts, fumes, mists
		All gases and vapours + dusts, fumes, mists
		All gases and vapours + dusts, fumes, mists
		All gases and vapours + dusts, fumes, mists

# GUIDE TO FILTER SELECTION

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR	ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS
Acetaldehyde	75-07-0	CH <sub>3</sub> CHO	28,8	AX	Brown	0,0002	25C	45C	Irritates nose, eyes ,cough headache
Acetic acid	64-19-7	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	118	A	Brown	2,5	10	25	Caustic, irritating, causes dermatitis
Acetic ether	-	-	-	A	Brown	-	-	-	Irritating: mucous membranes, narcotic, anemia, leukocytosis
Acetone	67-64-1	C <sub>3</sub> H <sub>6</sub> O	56,6	AX	Brown	47,5	500	1188	Irritating: skin, mucous membranes, respiratory tract
Acetonitrile	75-05-8	C <sub>2</sub> H <sub>3</sub> N	1,1	A	Brown	70	40	67	Highly toxic, headache, convulsions, dizziness
Acetylene	74-86-2	C <sub>2</sub> H <sub>2</sub>	-84	**		657,2	nn	nn	Asphyxiating
Acetylene tetrachloride	79-34-5	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	146,3	A	Brown	21	1	6,9	Nausea, vomiting, headache, gastrointestinal disorders
Acrolein	107-02-8	C <sub>3</sub> H <sub>4</sub> O	52,5	A	Brown	0,05	0,1 C	0,23 C	Irritating eyes and respiratory tract
Acrylonitrile	107-13-1	C <sub>3</sub> H <sub>3</sub> N	77,3	A B	Brown Grey	8,1	2	4,3	Highly toxic, headache, convulsions, dizziness, suspect carcinogen
Acrylonitrile	107-13-1	C <sub>3</sub> H <sub>3</sub> N	77	A	Brown	8,1	2	4,3	Highly toxic, headache, convulsions, dizziness, carcinogenicity
Allyl chloride	107-05-1	C <sub>3</sub> H <sub>5</sub> Cl	44,6	AX	Brown	1,41	1	3	Mucous irritants, liver and kidney damage
Ammonia	7664-41-7	NH <sub>3</sub>	-33,3	K	Green	0,026	25	17	Irritating eyes and respiratory tract, bronchitis edema
Aniline	62-53-3	C <sub>6</sub> H <sub>7</sub> N	184,4	A	Brown	-	2	7,6	Harmful central nervous system, eye disorders, tumors
Arsenic	7440-38-2	As <sub>4</sub>	-	P3	White	-	-	0,01	Highly toxic, carcinogen
Arsenic trioxide	1327-53-3	As <sub>2</sub> O <sub>3</sub>	460	BP3	Grey White	-	-	0,01	Carcinogen
Arsine	7784-42-1	AsH <sub>3</sub>	-55	B	Grey	0,84	0,05	0,16	Headache, gastric disorders
Asbestos	1332-21-4	-	-	P3	White	-	0,2	-	Carcinogen
Benzene	71-43-2	C <sub>6</sub> H <sub>6</sub>	80	A	Brown	4,5	0,5	1,6	Toxic, irritating, carcinogen
Benzyl bromide	100-39-0	C <sub>7</sub> H <sub>7</sub> Br	198	A	Brown	-	-	-	Tear gas and toxic
Benzyl chloride	100-44-7	C <sub>7</sub> H <sub>7</sub> Cl	179	A	Brown	0,235	1	5,2	It irritates the mucous membranes strongly carcinogenic
Beryllium	7440-41-7	Be	2970	P3	White	-	-	0,002	Lung diseases. Carcinogenic suspicion
Bis (2-chloroethyl) sulfide	505-60-2	C <sub>4</sub> H <sub>8</sub> Cl <sub>2</sub> S	228	B	Grey	-	-	-	Strong irritant. Vomiting, headache
Bromine	7726-95-6	Br <sub>2</sub>	58,73	B	Grey	0,329	0,1	0,66	Irritates respiratory system burns on the skin
Bromoacetic acid methyl ester	96-32-2	C <sub>5</sub> H <sub>6</sub> OBr	136	A	Brown	-	-	-	Tear gas, toxic
Bromoform	75-25-2	CHBr <sub>3</sub>	149,5	A	Brown	5300	0,5	5,2	Irritates the mucous membranes. At high doses it is deadly
Bromomethane	74-83-9	CH <sub>3</sub> Br	3,56	AX	Brown	80	1	9	Irritating nerve and vascular disorders
Bromotoluene	95-46-5	C <sub>7</sub> H <sub>7</sub> Br	183,7	A	Brown	-	-	-	Irritating
Bromotrifluoroethylene	598-73-2	C <sub>2</sub> BrF <sub>3</sub>	-2,5	AX	Brown	-	-	-	Toxic damage the kidneys, liver. Cause of nausea

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR	ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS			
<b>Butyl alcohol (n-)</b>	71-36-3	C <sub>4</sub> H <sub>10</sub> O	117,5	A	Brown	0,36	50 C	152 C	Narcotic, dermatitis, liver damage and eyes			
<b>Butyl alcohol (ter)</b>	75-65-0	C <sub>4</sub> H <sub>10</sub> O	99,5	A	Brown	219	100	303	Narcotic, dermatitis, liver damage and eyes			
<b>Carbon dioxide</b>	124-38-9	CO <sub>2</sub>	-	**		-	5000	9000	Asphyxiating			
<b>Carbon disulfide</b>	75-15-0	CS <sub>2</sub>	46,5	AX	Brown	0,024	10	31	Headache, dizziness, delirium, vomiting			
<b>Carbon monoxide</b>	630-08-0	CO	-191	CO	Black	-	25	29	Strongly toxic, nausea, headache, dizziness			
<b>Carbon tetra-chloride</b>	56-23-5	CCl <sub>4</sub>	76,8	A	Brown	60	5	31	Headache, vomiting, dizziness, liver disorders			
<b>Carbonyl chloride</b>	75-44-5	COCl <sub>2</sub>	8,3	B	Grey	2	0,1	0,4	Irritating. Pulmonary edema. Very toxic			
<b>Chlorine</b>	7782-50-5	Cl <sub>2</sub>	-34,5	B	Grey	0,03	0,5	1,5	Toxic, corrosive. Irritating the skin. Pulmonary edema			
<b>Chlorine dioxide</b>	10049-04-4	ClO <sub>2</sub>	9,9	B	Grey	0,3	0,1	0,28	Irritating the mucous membranes. Stomatitis, pharyngitis edema.			
<b>Chloro Bromomethane</b>	74-97-5	BrCH <sub>2</sub> Cl	67,8	A	Brown	2100	200	1060	Irritating and narcotic			
<b>1-Chloro-1nitro propane</b>	600-25-9	C <sub>3</sub> H <sub>6</sub> ClNO <sub>2</sub>	134	A	Brown	-	2	10	Irritating			
<b>3-Chloro-1-propyne</b>	624-65-7	C <sub>3</sub> H <sub>3</sub> Cl	31,6	AX	Brown	2000	5	20	Dizziness, anesthetic action, carcinogen			
<b>Chloroacetone</b>	78-95-5	C <sub>3</sub> H <sub>5</sub> ClO	119	AP3	Brown	White	-	1 C	3,8C	Tear gas		
<b>Chloroaceto-phenone (CAF)</b>	99-91-2	C <sub>8</sub> H <sub>7</sub> ClO	237	AP3	Brown	White	0,102	0,05	0,32	Strong tear gas		
<b>Chlorobenzene</b>	108-90-7	C <sub>6</sub> H <sub>5</sub> Cl	131,7	A	Brown	0,98	10	46	Toxic to the central nervous system, spasms headache			
<b>Chloroethane</b>	75-00-3	C <sub>2</sub> H <sub>5</sub> Cl	12,3	AX	Brown	21	100	264	Drowsiness, apathy, visual disturbances, tremor			
<b>Chloroform</b>	67-66-3	CHCl <sub>3</sub>	61,26	AX	Brown	250	10	49	Narcotic, irritates mucous membranes, unconsciousness. Carcinogenic suspicion			
<b>Chloropicrin</b>	76-06-2	CCl <sub>3</sub> NO <sub>2</sub>	112	AP3	Brown	5,4	0,1	0,67	Irritating, tear gas. Gastric disorders, vomiting			
<b>Chloroprene</b>	126-99-8	C <sub>4</sub> H <sub>5</sub> Cl	59,4	AX	Brown	-	10	36	Toxic central nervous system			
<b>Chlorosulfonic acid</b>	7790-94-5	HSO <sub>3</sub> Cl	151	BP3	Grey	White	-	-	-	Lacrimogen, sneezing		
<b>Cresol</b>	1319-77-3	C <sub>7</sub> H <sub>8</sub> O	200	A	Brown	0,001	5	22	Ulcerates skin, causes conjunctivitis			
<b>CS</b>	-	-	-	ABEP3	Brown	Grey	Yellow	White	-	-	-	Lachrymatory
<b>Cyanogen</b>	57-12-5	CN-	-21	B	Grey	500	10	21	Irritating mucous membranes, headache, nausea. Mortal			
<b>Cyanogen chloride</b>	506-77-4	CNCl	13,1	B	Brown	2	0,3C	0,75 C	Loss and leukemia			
<b>Cyclohexane</b>	110-82-7	C <sub>6</sub> H <sub>12</sub>	80,7	A	Brown	1,43	300	1030	Irritating to the skin			
<b>Cyclohexanol</b>	108-93-0	C <sub>6</sub> H <sub>12</sub> O	161,5	A	Brown	400	50	206	Narcotic. It damages kidneys, liver, blood vessels			
<b>Cyclohexanone</b>	108-94-1	C <sub>6</sub> H <sub>10</sub> O	155,6	A	Brown	0,48	25	100	Poor narcotic, irritant			

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR		ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS
DDT	50-29-3	C14H9Cl5	-	AP3	Brown	White	5,07	-	1	Action on the central nervous system
Dichloro ethane	75-34-3	C2H4Cl2	83,5	A	Brown		445	100	405	Irritating
Dichloro ethylene	75-35-4	C2H2Cl2	59	AX	Brown		0,336	200	793	Irritating and narcotic
Dichloroethyl ether	111-44-4	C4H8Cl2O	178,5	A	Brown		90	5	29	Irritating to mucous membranes. Eddema lung
Dichloro-methane	75-09-2	CH2Cl2	39,8	AX	Brown		540	50	174	It hurts the eyes, narcotic. Headache, nausea. Carcinogenic suspicion
Dichloropropane	26638-19-7	C3H6Cl2	96,8	A	Brown		-	75	347	Dermatitis, liver damage, congestion
Dichloropropene	26952-23-8	C3H4Cl2	75	A	Brown		-	1	4,5	Strong irritant
Diethylamine	109-89-7	C4H11N	55,5	A K	Brown	Green	0,085	5	15	Dangerous for the eyes
Dimethyl formamide	68-12-2	C3H7NO	152,8	A	Brown		300	10	30	Irritating, liver damage
Dimethyl hydrazine	57-14-7	C2H8N2	63,3	K	Green		12	0,01	0,025	Irritating, suspicious carcinogen
Dimethyl sulfate	77-78-1	C2H6O4S	37,5	AX	Brown		-	0,1	0,52	Skin burns, conjunctivitis, paralysis. Carcinogenic suspicion
Dioxane	505-22-6	C4H8O2	101	A	Brown		0,018	25	90	Irritating to the mucous membranes. Liver problems
Ethane	74-84-0	C2H6	-172	**			-	-	-	Asphyxiant
Ethane trichloride	79-00-5	C2H3Cl3	74,1	A	Brown		542,8	350	1910	Narcotic, irritating
Ethanol	64-17-5	C2H6O	78,3	A	Brown		0,34	1000	1880	Irritating eyes and respiratory tract
Ethanolamine	141-43-5	C2H7NO	170,5	A K	Brown		5,333	3	7,5	Irritating
Ethyl acetate	141-78-6	CH3COOC2H5	77,15	A	Brown		0,02	1440	400	Irritates mucous membranes, narcotic, anemia, leukocytosis
Ethyl bromide	74-96-4	C2H5Br	38,4	AX	Brown		890	5	22	Toxic narcotic. Causal conjunctivitis. Carcinogenic suspicion
Ethyl Ether	60-29-7	C4H10O	34,6	AX	Brown		0,99	400	1210	Unconsciousness, paralysis, lack of appetite. Irritating
Ethyl methyl ketone	78-93-3	C4H8O	79,5	A	Brown		0,738	200	590	Narcotic irritant
Ethylbenzene	100-41-4	C8H10	-	A	Brown		8,7	100	434	Irritating to mucous membranes
Ethylene	74-85-1	C2H4	-104	**			299	-	-	Asphyxiant
Ethylene diamine	107-15-3	C2H8N2	117,2	AK	Brown	Green	0,48	10	25	Caustic
Ethylene oxide	75-21-8	C2H4O	10,7	AX	Brown		520	1	1,8	Strongly toxic, nausea, respiratory disturbances
Fire Fume -CO	-	-	-	BP3	Grey	White	-	-	-	-
Fire Fume + CO	-	-	-	COP3	Black	White	-	-	-	-
Formaldehyde	50-00-0	CH2O	-19,5	AX	Brown		1,47	C 0,3	C0,37	Irritating, pulmonary edema. Carcinogenic
Formic acid	64-18-6	CH2O2	100,8	A	Brown		0,005	5	9,4	Corrosive, ulcerative, irritant: mucous membranes
Freon	-	-	-	**			-	-	-	Asphyxiating, narcotic
Fumes	-	-	-	P3	White		-	-	-	-
Furfural	98-00-0	C5H6O2	161,7	A	Brown		0,24	2	7,9	Irritating. Damage to the eyes
Furfuryl alcohol	98-00-0	C5H6O2	171	A	Brown		32	10	40	Poison, high toxicity
Hexachloro cyclohexane	319-86-8	C6H6Cl6	-	AP3	Brown	White	-	-	0,5	Irritating acts on the central nervous system, convulsions, edema

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR	ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS
<b>Hydrazine</b>	302-01-2	N <sub>2</sub> H <sub>4</sub>	113,5	K	Green	3	0,01	0,013	Systemic poisoning, carcinogenic suspect
<b>Hydrocarbons</b>	-	-	>65	A	Brown	-	-	-	-
<b>Hydrogen bromide</b>	10035-10-6	HBr	126	B	Grey	6,66	3 C	9,9 C	Highly toxic, depression, skin rash
<b>Hydrogen chloride</b>	7647-01-0	HCl	-84,8	B E	Grey Green	7	5C	7,5C	Caustic, irritating, causes dermatitis
<b>Hydrogen cyanide</b>	74-90-8	HCN	25,7	B	Grey	0,9	4,7 C	5 C	Highly toxic, headache, convulsions, dizziness
<b>Hydrogen fluoride</b>	7664-39-3	HF	19,4	B	Grey	0,033	3C	2,3C	Toxic, corrosive, causes burns, inflammatory
<b>Hydrogen iodide</b>	10034-85-2	HI	-35,3	B	Grey	-	-	-	Irritating the mucous membranes. Stomatitis, pharyngitis edema.
<b>Hydrogen phosphide</b>	7803-51-2	PH <sub>3</sub>	-87	B	Grey	0,028	0,3	0,42	Irritating. Anemia, appetite, bone fragility
<b>Hydrogen sulfide</b>	7783-06-4	H <sub>2</sub> S	-60,4	B	Grey	0,0004	10	14	Irritating, headache, cough very toxic
<b>Insecticides</b>	-	-	-	AP3	Brown White	-	-	-	-
<b>Iodide 131 methyl</b>	74-88-4	CH <sub>3</sub> I	-	Reactor P3	Orange White	-	-	-	-
<b>Iodine</b>	7553-56-2	I <sub>2</sub>	184	B	Grey	-	0,1C	1C	It irritates the mucose. Stomatitis, pharyngitis, edema.
<b>Iodine 131</b>	7553-56-2	I <sub>2</sub> 131	-	Reactor P3	Orange White	-	-	-	-
<b>Iron pentacarbonyl</b>	13463-40-6	C <sub>5</sub> FeO <sub>5</sub>	103	COP3	Black White	-	0,1	0,23	Nausea, vomiting, unconsciousness. Toxic
<b>Isoamyl alcohol</b>	137-32-6	C <sub>5</sub> H <sub>12</sub> O	116	A	Brown	25,2	100	361	Irritating eyes and respiratory tract
<b>Isobutylene</b>	115-11-7	C <sub>4</sub> H <sub>8</sub>	-6,9	AX	Brown	54,96	-	-	Toxic corrosive. Irritating the skin. Pulmonary edema
<b>Isocyanates</b>	-	-	-	AP3	Brown White	-	-	-	-
<b>Isopropyl alcohol</b>	67-63-0	C <sub>3</sub> H <sub>8</sub> O	80,3	A	Brown	7,84	400	983	Irritating , eyes damages, narcotic
<b>Ketene</b>	463-51-4	C <sub>2</sub> H <sub>2</sub> O	-56	AX	Brown	-	0,5	0,86	Irritating, pulmonary edema
<b>Lindane</b>	58-89-9	C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>	-	**		-	-	-	Irritating, acts as a central nervous system
<b>Maleic anhydride</b>	108-31-6	C <sub>4</sub> H <sub>2</sub> O <sub>3</sub>	202	A	Brown	1,84	0,25	1	Burns skin and eyes, pulmonary edema
<b>Mercury vapors</b>	502-39-6	Hg	356,9	HgP3	Red White	-	-	0,025	Inflammation of the mucous membranes, gingivitis, tremors
<b>Methane</b>	74-82-8	CH <sub>4</sub>	-161,5	**		-	-	-	Asphyxiant
<b>2-Methoxy-ethanol</b>	109-86-4	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	156,4	A	Brown White	0,288	5	24	Irritating to occurring, kidney injury.
<b>Methyl alcohol</b>	67-56-1	CH <sub>4</sub> O	64,5	AX	Brown	13,11	200	262	Harmful nervous system, optic nerve, liver. Dermatitis, nausea
<b>Methyl Chloride</b>	74-87-3	CH <sub>3</sub> Cl	-23,7	**		-	50	103	Narcotic, it destroys eyes, liver, heart and central nervous system
<b>Methyl formate</b>	107-31-3	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	32	AX	Brown	500	100	246	Narcotic, irritating to the eyes and respiratory tract
<b>Methyl iodide</b>	74-88-4	CH <sub>3</sub> I	42,5	AX	Brown	-	2	12	Carcinogenic suspicion
<b>Methylene chloride</b>	75-09-2	CH <sub>2</sub> Cl <sub>2</sub>	39,8	AX	Brown	540	50	174	It hurts the eyes, narcotic. Headache, nausea. Carcinogenic suspicion

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR	ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS
<b>Methylethyl ketone (MEK)</b>	78-93-3	C <sub>4</sub> H <sub>8</sub> O	79,5	A	Brown	0,738	200	590	Narcotic irritant
<b>Mist (in general)</b>	-	-	-	P3	White	-	-	-	-
<b>n-Amil acetate</b>	628-63-7	CH <sub>3</sub> COOC <sub>5</sub> H <sub>11</sub>	149	A	Brown	0,026	713	150	Irritates eyes, nose, throat. Nausea, cough, migraine
<b>n-Butyl acetate</b>	123-86-4	CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	126	A	Brown	0,009	730	150	Irritates eyes, nose, throat. Nausea, cough, migraine
<b>Nickel carbonyl</b>	13463-39-3	Ni(CO) <sub>4</sub>	43	COP3	Black White	0,21	0,05	0,12	Dizziness, gastric disorders, haemorrhage, carcinogenicity
<b>Nitric acid</b>	7697-37-2	HNO <sub>3</sub>	86	BP3	Grey White	0,75	2	5,2	Toxic, corrosive, pulmonary edema
<b>Nitrobenzene</b>	98-95-3	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	210,9	A	Brown	0,024	1	5	Cyanosis, headache, dizziness, nausea
<b>Nitrogen Oxide</b>	10102-44-0	NO <sub>2</sub>	21	NO P3	Blue White	2	3	5,6	Respiratory irritation, coughing, dyspnoea, pulmonary edema
<b>Nitroglycerin</b>	55-63-0	C <sub>3</sub> H <sub>5</sub> N <sub>3</sub> O <sub>9</sub>	-	A	Brown	-	0,05	0,46	Headache, dizziness, cirrhosis, tremors
<b>NOx</b>	-	-	-	NO P3	Blue White	-	-	-	Respiratory irritation, coughing, dyspnoea, pulmonary edema
<b>Petrol (vapour)</b>			-	A	Brown	-	300	890	Eye disorders, carcinogen
<b>Phosphorus pentachloride</b>	10026-13-8	PCl <sub>5</sub>	166,8	B	Grey	-	0,1	0,85	Eye damage. Irritating
<b>Phosphorus trichloride</b>	7719-12-2	PCl <sub>3</sub>	74,2	B	Grey	-	0,2	1,1	Irritating to eyes, nose, throat
<b>Phosphoryl trichloride</b>	10025-87-3	POCl <sub>3</sub>	105	B	Grey	-	0,1	0,63	Eye damage. Irritating
<b>Phthalic anhydride</b>	85-44-9	C <sub>8</sub> H <sub>4</sub> O <sub>3</sub>	295	AP3	Brown White	-	1	6,1	Irritating mucous membranes and cornea
<b>Powders</b>	-	-	-	P3	White	-	-	-	-
<b>Propane</b>	74-98-6	C <sub>3</sub> H <sub>8</sub>	-41	**		1800	-	-	Anesthetic, asphyxiating
<b>Pyridine</b>	110-86-1	C <sub>5</sub> H <sub>5</sub> N	115,3	A	Brown	0,009	5	16	Narcotic, irritating, headache, eczema
<b>Sodium hydroxide</b>	1310-73-2	NaOH	-	P3	White	-	-	2C	Corrosive, irritant
<b>Spray paint</b>	-	-	-	AP2	Brown White	-	-	-	
<b>Styrene</b>	100-42-5	C <sub>8</sub> H <sub>8</sub>	146	A	Brown	0,43	20	85	Mystique, fissure, narcotic irritation
<b>Sulfur Chloride</b>	10025-67-9	S <sub>2</sub> Cl <sub>2</sub>	138	BP3	Grey White	-	1C	5,5 c	It irritates the mucous membranes of the eyes and the respiratory tract.
<b>Sulfur dioxide</b>	7446-09-5	SO <sub>2</sub>	-10	E	Yellow	1,17	2	5,2	Harmfull for eyes and respiratory tract, bronchitis edema
<b>Sulfur trioxide</b>	7446-11-9	SO <sub>3</sub>	44,8	EP3	Yellow White	-	-	-	Harmfull for eyes and respiratory tract, bronchitis edema
<b>Sulfuric acid</b>	7664-93-9	H <sub>2</sub> SO <sub>4</sub>	330	EP3	Yellow White	1	-	-	Caustic, destroys tissues, loss of knowledge
<b>TDI</b>	584-84-9	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	-	A	Brown	0,14	0,001	-	Bronchitis spasms dermatitis
<b>Tetrachloro-ethane</b>	79-34-5	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	146	A	Brown	0,2	1	-	Headache gastritis and soreness
<b>Tetraethyl lead</b>	78-00-2	C <sub>8</sub> H <sub>20</sub> Pb	198	AP3	Brown White	-	-	0,1	Insomnia, hypothermia, tremitis, headache, nausea
<b>Toluene</b>	95-53-4	C <sub>7</sub> H <sub>9</sub> N	110,4	A	Brown	17,55	50	188	Toxic, irritating. Carcinogenic suspicion
<b>Toluene diisocyanate</b>	91-64-5	C <sub>9</sub> H <sub>6</sub> O <sub>2</sub>	118	A	Brown	3,2	0,005	0,036	Bronchitis spasms dermatitis

CHEMICAL NAME	CAS N°	FORMULA	B.P. °C	FILTER	COLOR	ODOUR THRESHOLD mg/m <sup>3</sup>	TLV ppm	TLV mg/m <sup>3</sup>	PHYSIOLOGICAL EFFECTS
<b>Trichloro ethylene</b>	79-01-6	C <sub>2</sub> HCl <sub>3</sub>	87,1	A	Brown	1,134	50	269	Headache gastritis and soreness
<b>Trifluoro-methane</b>	75-46-7	CHF <sub>3</sub>	-82	**		-	1000C	5600C	Gastric disorders, headache, and soreness
<b>Turpentine oil</b>	8006-64-2	-	160	A	Brown	560	100	55,6	Visual headache, irritating headache
<b>Vinyl acetate</b>	108-05-4	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	73	A	Brown	0,36	10	35	Irritating skin, narcotic
<b>Vinyl chloride</b>	75-01-4	C <sub>2</sub> HCl <sub>3</sub>	-13,4	AX	Brown	-	5	13	Dizziness, anesthetic action, carcinogen
<b>Xylene, mixture of isomers</b>	1330-20-7	C <sub>8</sub> H <sub>10</sub>	144,4	A	Brown	0,348	100	434	Toxic, irritating. Carcinogenic suspicion

## Legend

### B.P. (Boiling Point)

Very important for Organic Chemicals as 65°C is the limit of filterability of those substances by a filter type A. Chemicals with lower b.p. can be retained by Type AX filters only. For some substances, it is recommended the use of compressed air breathing apparatus instead.

### Filter

It indicates the filter(s) type(s) recommended for the chemical shown.

Two \*\* indicate that the chemical is not filterable and it is therefore necessary to use compressed air or fresh air respirators

### Odour Threshold

It shows the minimum concentration detectable by humans' nose.

It is a mere indication and is taken from studies in the specialised literature.

### TLV ppm (Threshold Limit Value)

The table shows the values the TLV-TWA published by the American Conference of Governmental Industrial Hygienists. They correspond to the concentration to which a worker can be exposed 8 hours a day for his entire working life without effect on his health. When the C appears, it means that it is a Ceiling Value, meaning that that concentration shall not be overpassed at any time. TLV-TWA are also commonly used when testing the breakthrough time of gas filters, i.e. the contaminant concentration in the effluent air which is considered to correspond to the exhaustion of the filter.

### Physiological effects

It indicates very briefly the symptoms of chronic or acute intoxication of the concerned chemical. Sometimes reference is made to other entries either because they have similar effects or they are the same chemical referred to with different commercial or chemical names.

# MARKING - LEGEND

SPASCIANI S.P.A. has certified its own Quality System Management according to the standard ISO 9001:2015

Every product is certified according to the current European standards which regulate the production and trade of personal protective equipment of the breathing ways, eye, hear and head protection.

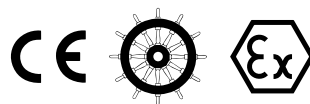
## PPE

The personal Protective Equipment (PPEs) falls within the range of application of EU Regulation 2016/425, in force since 21 April 2018, replacing Directive 89/686 / EEC.

Personal Protective Equipment is defined as a "Device designed and manufactured to be worn or held by a person to protect themselves from one or more risks to their health or safety".

Respiratory Protection Devices belong to the third category and is called "complex design", which means intended to protect the user from the risk of death or serious and permanent personal injury. PPE belonging to the third category is subjected to the procedure of CE Certification by a Notify Body (form B of Regulation 2016/425). In addition, the PPE belonging to the third category must also be subjected to the control of production (form D of Regulation 2016/425). In case of production control, PPE must be CE marked reporting also the number of the Notified body carrying out the check (in the case of ITALCERT: CE 0426).

The product certification procedure (module B), called "Type certification", involves both the execution of laboratory tests and the evaluation and approval of the technical documentation, whose content must correspond to the requirements established in regulation 2016/425.



## MED

Marine equipment falls within the scope of Directive 2014/90 / EU (formerly 96/98 / EC). Any equipment falling within the definition of the directive 2014/90 / EU must be placed on board ships pursuant to international conventions on the safety of navigation and to IMO resolutions and circulars, as well as to the relevant international testing standards.

For equipment falling within the scope of the Directive 2014/90 / EU, the following conformity assessment procedures must be performed:

- MODULE B EC type examination
- MODULE D guarantee of production quality.

Marine equipment compliant with directive 2014/90 / EU subject to the required conformity assessment procedures, must bear a marking consisting of the symbol of a "wheelmark" followed by the four-digit numerical identification code of the Notified Body that performed the compliance assessment procedure if this participates in the control phase of the production, as well as the last two digits of the year in which the mark has been affixed. Example 0426/20

## PED

Directive 2014/68 / EU (PED) governs the requirements of design, equipment manufacturing and conformity assessment of the pressure equipment and relevant sets. The 2014/68 / EU was implemented in Italy with Legislative Decree No. 26 of February 15, 2016 and repealed the previous directive 97/23 / EC from 19/07/2016. The PED applies to both individual equipment such as containers, pipes, safety accessories, pressure accessories subject, during their operation, at a maximum allowable pressure higher than 0.5 bar, both to units marketed and put into service as such. In order to assess compliance with the PED, the pressure equipment must first be classified into categories from the first to the fourth according to the following parameters:

- type of fluid - GROUP 1 for dangerous fluids or GROUP 2 for all other fluids;
- energy potential - PS XV or PS X DN

Where:

- PS - maximum allowable pressure in bar;
- V - volume in liters;
- DN - nominal size of the pipeline in millimeters

The sets are classified according to the highest category of the devices involved (not considering the safety accessories). Moreover there are pressure devices that fall under article 4 paragraph 3 and - despite the fact that they are not subject to the CE marking - must be designed and realized according to a correct building procedure and must be provided with user's instructions and marking.

According to the category involved, you must choose the module or procedure of conformity assessment to be used among the ones required by PED directive. SPASCIANI devices belong to CATEGORY III and use the assessment procedure B+D.

## ATEX

ATEX (ATmosphères and EXplosives) is the conventional name that groups two directives of the European Union:

- 2014/34 / EU for the regulation of equipment intended for use in areas at risk of explosion; the directive is addressed to the manufacturers of equipment to be used in areas with potentially explosive atmospheres and it requires the certification of these products. The directive 94/9/CE was repealed by this directive starting from 20 April 2016;
- 99/92 / EC for the safety and health of workers in explosive atmospheres; it is applied in environments with risk of explosion, where certified plants and equipment are put into operation and is therefore addressed to users.

According to Directive 2014/34/EU (ATEX Directive), Personal Protective Equipment (PPE) is excluded from ATEX certification and cannot bear the official ATEX marking symbol. However, PPE designed for use in potentially explosive atmospheres must comply with the relevant safety requirements of the PPE Directive.

SPASCIANI SCBA, Escape Apparatus SK, Escape Hood H 900 and Escape Halfmasks M 900 have been tested for use in potentially explosive atmospheres and are identified with the acronym "ATEX" (ATmosphere EXplosive) followed by the classification of the environment in which they can be used.



# MERCHANDISING



## Samples Kit made of:

- TR 82
- TR 2002 CL 3
- DUPLA
- M900
- DUETTA
- DUO
- ST 85
- Corrugated hose 11481
- Flow regulator
- AC 190 Overflow valve
- EOD Filter
- Turbine
- Corrugated hose for Turbine
- 1 Filter ABEK
- 1 Filter UP3
- 2 Filters P3 for Turbine
- 2 Cartridges P3
- 2 Cartridges ABEK
- 2 Cartridges A2P3
- Holding bag



Shopping bag



T-Shirt



Block Notes

Tablet pen

Disinfecting wet wipes



Counter display



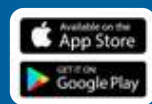
SCBA display



Ground display



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