

THE COMPRESSED AIR LINE BREATHING APPARATUS FOR INDUSTRIAL APPLICATIONS.

The Bioline is an open-circuit self-contained air line breathing apparatus specially designed for industrial applications. It meets the requirements of standard EN 402.

It is very lightweight and attaches at the belt, so it doesn't get in the user's way while working. The supply hose is fixed to the belt, so the mask cannot easily be torn off if yanked accidentally.

The system is made up of a:

- Panoramasque full face mask providing a wide field of vision and optimum resistance in fire and chemical environments
- Zenith demand valve: an automatically triggered positive pressure demand valve
- Waistbelt
- CEJN or Staubli connectors

The breathing air supply arrives through an external air supply network compliant with EN 12021, enabling the user to carry out maintenance tasks and work over long periods, under excellent respiratory comfort and safety conditions.

As the BIOLINE is not self-contained if the compressed air supply fails, it is not recommended for use in zones that are immediately dangerous to the life of the user.

TECHNICAL DATA

Weight: ± 1,90 kg

Operating temperature: -30°C à +60°C

Approvals: EN 139

PRESSURE REDUCER VALVE

Materials: High pressure brass, nickel plated

Reducing System: Piston/spring type, built in safety valve

Working pressure: 200 / 300 bars

Air flow: Pre-set

Pressure Gauge: Constant reading, fixed on the reducer valve, always visible

Air filling: EN 144-2 G-5/8 200 bar.

Moisture: Built-in vacuum device to remove all traces of moisture from the bottle.

Starting: Automatic triggering device at the opening of the bag



PANORAMASQUE FULL FACE MASK

Weight: 585 g

Full and Half Mask: EPDM

Eyepiece: PC

High-pressure regulator outlet: 7.5 bars

Approvals: EN136 - Classe III



DID YOU KNOW ?

BREATHING AIR QUALITY STANDARDS FOR RESPIRATORY PROTECTIVE DEVICES

In an industrial setting, if workers are equipped with respiratory protective devices (masks, hoods, diving apparatus, etc.) supplied by a compressed air system, the limits set out by this standard must be adhered to.

The main requirements are given in the table below:

POLLUTANT	PRESCRIPTION
Oxygen	21% (± 1%)
Impurities	< exposure limit
Lubricants	0.5mg/m ³
Smell and taste	None
Carbon dioxide CO ₂	500 ppm
Carbon monoxide CO	15 ppm
Moisture content (*)	Dew point <5°C at room temperature Lowest expected

(*) There must be no presence of liquid water or risk of frost. If the conditions of use are not known, the dew point of the installation must not exceed -11°C.

You can see that a 'simple' filtration system, such as pre-filter + air/oil separator + activated carbon, is not sufficient to produce breathing air.

A complete system which processes toxic gases such as CO and CO₂ is needed to comply with this standard and prevent any accidents, which can, in the most serious cases, be deadly.