

4000 S e R (M/L size)

Cod. 8002080 e 8002082



Characteristics

Models 4000 S and 4000 R are bifilters half masks equipped with a silicone or thermoplastic face piece in double size (S/M or M/L). The ergonomic harness consists of an head rest adaptable by the user connected to a supporting rigid part. The half mask comprises a frontal exhalation valve and two lateral inhalation valves fitted with special bayonet connection mounting two BLS 200 series filters, equipped with the same connection.

Materials

4000 series half masks are made with the following materials:

- oronasal: silicone (4000S), thermoplastic elastomer (4000R)
- rigid part: PA (polyamide)
- exhalation valve holder: PA (polyamide)
- filter holders: PA (poliammide)
- harness + head rest: elastic band + polypropylene

Weight (without filters): 126 g

Filters 200 Series

4000 series half masks are equipped with gas, particle and combined filters BLS 200 series, with special bayonet connection, directly connected to the lateral filter holders. The field of application is different depending on the type of filter used: for example pharmaceutical industry, chemical, shipyard, aeronautics, painting, laboratory, building, etc. Filter type must be selected according to the nature of the contaminant and to the environmental concentration.

Protection

Exposure limit for halfmasks with particle filters:

half mask with filter P2 = 12 * XTLV

half mask with filter P3 = 48 * XTLV

Exposure limit for gas masks with filters:

gas filter half mask = 50 * XTLV

Exposure limit for halfmasks with filters combined:

half mask + gas filter + filter P2 = 12 * XTLV

half mask + gas filter + filter P3 = 48 * XTLV

* NPF (nominal protection factor) as specified in EN 529:2005

EN 140:1998

EN 140:1998 performances		EN 140	4000 R e S (taglia M/L)
Total Inward Leakage (%)		< 2,0	0,03
Breathing resistance (mbar)	inhal. 30 l/min	< 0,5	0,1
	inhal. 95 l/min	< 1,3	0,3
	inhal. 160 l/min	< 2,0	0,6
	exhal. 160 l/min	< 3,0	2,2
CO2 content (%)		< 1,0	0,4

Certification

4000 series half mask meets the requirements of EN 140:1998 European Standard and it has the CE marking according to the European Directive 89/686/EEC, as a PPE of III category. Italcert Srl (Notified Body n°0426) is the responsible of the certification (Art. 10) and of the final product control (Art. 11.A). The products are manufactured in a company that is EN ISO 9001:2008 certified.

Certification tests

4000 half mask meets the requirements of EN 140:1998 standard and has been submitted to the tests provided by this standard.

• Total Inward Leakage

The total inward leakage test provides that 10 subjects carry out a series of exercises simulating the work conditions fitting the respirator. During the test, the test aerosol (Sodium chloride) is measured to see how much of aerosol passes through face seal leakage and exhalation valve leakage. Total inward leakage shall be not greater than 2%.

• Breathing resistance

Breathing resistance offered from the half mask must not be greater than the following values: during the test with breathing machine (25 cycles/min and 2,0 l/stroke) or continuous flow 160 l/min shall not exceed 2,0 mbar for inhalation and 3,0 mbar for exhalation. The inhalation resistance shall not exceed 0,5 mbar with continuous air flow 30 l/min and 1,3 mbar with continuous air flow 95 l/min.

• Flammability

The half masks submitted to test pass over a flame at a temperature of 800°C +/- 50°C with a speed of 6 cm/s. The mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.

• Carbon dioxide content

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).

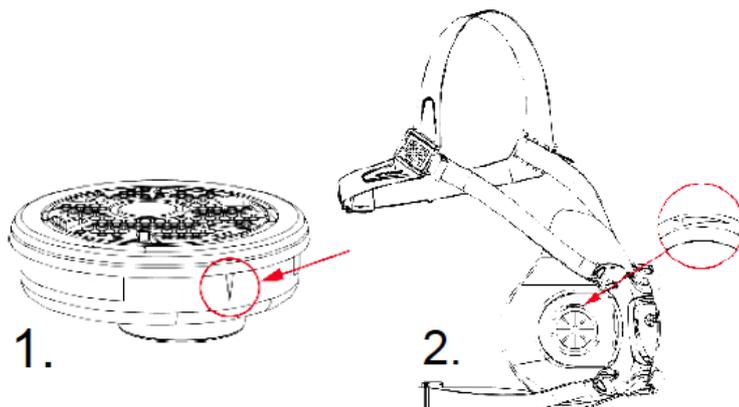
Use and maintenance

Wearing: Lock the filters tightly onto related lateral filter holders, making a 90° rotation. When the arrow impressed on the lateral side of the filter (pict.1) is in correspondence with marking on bayonet connection (pict.2), it means that the filters are in the right position.

Slacken both harnesses to their maximum extent, then put your head into the harness, and place the half face mask over nose and mouth. With the other hand, position and tighten the harness on your head.

Adjust each harness strap individually to achieve a good fit of the mask to your face.

Check that there are no air leaks: if mask is working properly, proceed entering the work area.



Leak test: Press the palm of the hand against the cover of the exhalation valve, in order to block the air flow, and exhale slowly. If no air escapes around the nosepiece seal, the mask is correctly positioned, and is functioning correctly. If air escape, reposition the mask, increase tension on the harness straps, and repeat test until a suitable result is obtained.

Cleaning: This half face mask must be cleaned after each use. First remove filters, and blow dust from the mask using compressed air. Use a soft rag to remove any remaining sediments. Where necessary, disassemble components and clean with warm water containing a neutral detergent. Never use solvents. The inhalation and exhalation valves must be removed and cleaned very carefully, including their housings. Let them dry, avoiding exposure to direct sunlight or other heat sources. Dry rubber parts at temperature below 50°C. Once completely dry, all the components must be reassembled.

Disinfection: Half face mask must be clean before disinfecting. If mask is particularly dirty, or if it must be used by a different person, we recommend to use a common disinfectant that will not harm plastic or rubber components. Finally wash and dry as indicated above.

Storage: Half masks, if not used, should be stored in a closed container and protected from dust, dirt, UV ray, humidity, or heat sources. While moving or storing the mask, make sure that packaging is intact and can't be damaged by sharp objects or materials that could perforate filters, and that filters can't be deformed by excessive loads.

Expiration date: Half mask 4000 R has a shelf life of 5 years and half mask 400 S of 10 years. (check expiration date on the box).

For use limitations and all the other informations about half mask, please refer to User Information booklet enclosed with each half mask.

Technical specifications

4000 series is equipped with bayonet connection (**b-lock** technology), placed in an ergonomic position.

4000 series is compatible with BLS filter 200 series.

K-omfort Harness, with 4 attachment points doesn't mark user's face and fits optimally to the head thanks to the micrometric regulation system.

4000 series consists of four different masks. This models are different for oronasal material (silicone or thermoplastic rubber) and for size. There are in fact two oronasal sizes: S/M and M/L.



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