

# ARIA 19 MASK WITH APA (ARIA PROTECTION ADAPTOR) AND RD40-22 MM ADAPTOR TECHNICAL SHEET

Aria 19 mask can be used as a device for personal protection in two different configurations:

1. In combination with the Aria Protection Adaptor (APA) and a P3 filter (standard thread connector EN148-1, RD 40-1/7"). This filter protects against mist, aerosols, particles, fumes and dust. For more info on filter, see the P3 filter technical sheet.



2. In combination with the Aria Protection Adaptor (APA), the RD40 40-22 mm adaptor (conical connector 22mm - ISO 5356-1) and an HEPA filter (standard connection ISO 5356-1). This kind of filter protects against airborne and liquid-borne microbial pathogens. For more info on filter, see the HEPA filter technical sheet.



MESTEL SAFETY Srl

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## SIZE

A system for defining the best option in choosing the size of the Aria 19 masks is shown in the picture on the right.

Available sizes: S, M, L/XL



## TECHNICAL DATA

### **Limitations for the use**

Do not use in areas where the oxygen concentration is lower than 17% in volume nor in the presence of gases and vapours.

### **Breathing and no fogging behaviour**

The patented breathing circulation system of the mask prevents its fogging thanks to the air circulation inside. Potentially contaminated air is breathed in from the user, drawing it in from only one inlet (the filter adaptor APA) through the filter body, and through a one-way only valve. The filter purifies the air according to its certified properties and characteristics. The safe, breathable air then moves onto the visor, pushed onto it from a deflector placed in the topside of the mask: this action prevents fogging. The air is then drawn through one-way valves in the orinasal pocket where the user breaths in. Once the user exhales, the two one-way valves in the specifically designed orinasal pocket, prevent the air's return in the ocular part of the mask. Should there be a less than perfect seal between the cheekbones, nose and orinasal pocket contour, the air will not be able to be drawn back up due to the one-way valve placed on the filter adaptor (APA). The only way the air will be forced to go, is through the one-way valve of the chin, to the outside of the mask.

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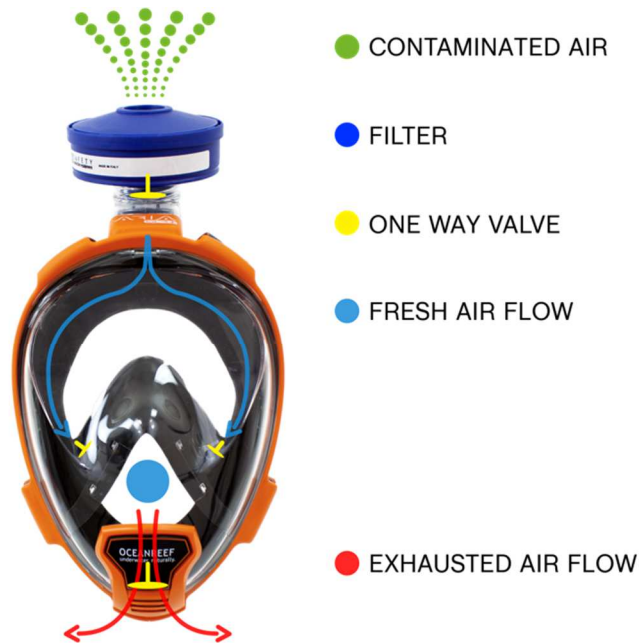
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### Easy use

- ✓ APA and RD40 adaptors are easy to assembly on the Aria 19 mask, also when it is worned.
- ✓ The strap can be quickly adjusted and fits well almost any face shape, allowing a comfortable wearing and removing.
- ✓ The voice can be heard clearly throughout the Aria 19 mask thus allowing a good communication.
- ✓ The high-transparency visor allows a perfect vision (wide optical field) with a slight optical distortion in few areas.
- ✓ It is possible to insert the removable optical lens support inside the Aria 19 mask. Customizable corrective lens can be mounted on the support, or corrective standard lens from -1 to -4 are available as alternative.



More info about how to use safely the 2 configurations based on the Aria 19 mask are available on our website (<https://oceanreefgroup.com/covid19/>).

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## MATERIALS

Aria 19 mask: polycarbonate (visor), silicone (face seal and valves), POM (buckles), synthetic elastic fabric (strap).

APA and RD40 Adaptors: polycarbonate

## WEIGHT

Aria 19 mask: 500 g approximately

APA: 27 g

RD40-22: 18 g

## CLEANING&MAINTENANCE

- ✓ Remove any filter connected to the adaptor prior to sanitization.
- ✓ NEVER use any solvent, cleaner or abrasive product to clean the Aria 19 Mask, the RD40 and the APA Adaptor.
- ✓ Do not sanitise a mask+adaptors protection system that is clearly damaged.
- ✓ Be careful do not deform the Aria 19 Mask, the RD40 and the APA Adaptor during sanitization as it could negatively impact its fit.
- ✓ Store at temperatures between -20 and +50°C and RH < 80%
- ✓ Do not expose the Aria 19 mask and the APA&RD 40-22 adaptors to direct sunlight or heat sources for a prolonged period of time.

### Treatment in Diluted NaClO (bleaching solution)

Place the Aria 19 mask, the RD40 and APA adaptors in a commercial solution of NaClO-sodium hypochlorite (dilution: max 2.5-3% vol/vol) for 5-10 minutes. After sanitization, remove carefully the mask and the adaptors from the solution, rinse deeply under fresh water just to remove all the hypochlorite residuals and allow the perfect drying in a safe and not contaminated environment.

*Max sanitization suggested cycles: 120*

### Treatment in Diluted Ethanol

Place the Aria 19 mask, the RD40 and APA adaptors in a commercial solution of ethanol (dilution: 3-5% vol/vol) for 5-10 minutes. After sanitization, remove carefully the mask and the adaptors from the solution, rinse deeply under fresh water just to remove all the alcohol residuals and allow the perfect drying in a safe and not contaminated environment.

*Max sanitization suggested cycles: 120*

### Treatment with Sanitising Wipes

Aria 19 mask, the RD40 and APA adaptors can be cleaned with commercial ethanol based, benzalkonium chloride or hypochlorite based wipes. 2. After sanitization, remove the wipes, disposing them properly, and allow the perfect drying in a safe and not contaminated environment.

*Max sanitization suggested cycles: 400*

### Treatment with Medical Disinfectants

Clean Aria 19 mask, the RD40 and APA adaptors with commercial medical disinfectants based on benzalkonium chloride, ethanol or chlorhexidine. After sanitization, rinse deeply under fresh water just to remove all the residuals and allow the perfect drying in a safe and not contaminated environment.

Max sanitization suggested cycles: 400

### Treatment in Boiling Water

*(suggested only for domestic use)*

Place the Aria 19 mask, the RD40 and APA adaptors in boiling water for 5-10 minutes. After sanitization, remove carefully the mask and the adaptors from hot water, allowing the perfect drying in a safe and not contaminated environment.

Max sanitization suggested cycles: 160

### Treatment in Dishwasher

*(suggested only for domestic use)*

Place the Aria 19 mask, the RD40 and APA adaptors in a dishwasher for one (1) hour at 70°C using dishwasher soap. The dishwasher should be sterilized prior to use. They should be the only objects in the dishwasher. After sanitization, remove the mask and the adaptors from the machine, allowing the perfect drying in a safe and not contaminated environment.

Max sanitization suggested cycles: 160

### Filter Sanitization

Clean the filter with commercial alcohol based, benzalkonium chloride or hypochlorite based wipes. After sanitization, remove the wipes, disposing them properly, and allow the perfect drying in a safe and not contaminated environment.

Upon completion of the cycle, the filter, the Aria 19 mask, the RD40 and APA adaptors must be stored in a closed PE bag ready for the next use in a dry and cool place. If one of them appears visually damaged or soiled, it should be discarded. Any mask and/or adaptors that has exceeded the sanitization cycles should be discarded as well.

*Please note that successful completion of the chosen method and cycle signifies appropriately sanitised filter, Aria 19 mask, RD40 and APA adaptors. This protocol is not formally approved, and each hospital should consult their EH&S officers and/or infection disease specialists for a standard operating procedure.*

## WARRANTY

The conventional Ocean Reef warranty is 2 years.

*For more information, please check the notes along with the product. Mestel Safety does not take any responsibility for any possible and unintentional mistake and reserve the faculty of modify materials and technical characteristics of its products at any time and without any notice. The pictures are purely indicative and may not represent the actual product described in the text.*

**Aria 19 mask, APA and RD40 adaptors are produced by Mestel Safety Srl-Ocean Reef Group**

PART NUMBER	DESCRIPTION
OR019080	ARIA 19 BLUE - SMALL SIZE
OR019081	ARIA 19 ORANGE - MEDIUM SIZE
OR019082	ARIA 19 WHITE - LARGE SIZE
OR030105	APA + RD40/22MM ADAPTOR

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