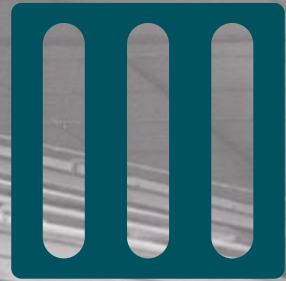


# ARIA19 *Kit*



# SAFETY

An OceanReefGroup company



Ocean Reef Group

# MAIN BUSINESS

 **OCEANREEF**  
underwater, naturally.

The diving equipments produced by Mestel Safety are distributed under the Registered Trademark, OCEAN REEF.

 **S A F E T Y**  
electronics

- Electronics
- Under Water Communication Systems

 **S A F E T Y**  
engineering

- Engineering
- R&D in Material Science and Tecnology
- Project Management

 **S A F E T Y**  
protection equipment

The Military and Respiratory PPEs are known under the Mestel Safety brand or, simply, as SAFETY Protection Equipments.





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# WHAT WE DO

Mestel Safety is a company of the OCEAN REEF Group with more than 70 years of experience molding rubber goods and working in several different markets.

OCEAN REEF Group has two manufacturing plants of 6,000 and 40,000 sq/feet in Vista, CA - USA and Genoa - Italy. Mestel Safety Italy is an ISO 9001-2015 certified company and also a NATO classified supplier.

# EXPERT IN FULL FACE MASK



# SAFETY FIRST, AS THE INNOVATOR OF THE MARKET

CO<sub>2</sub> LEVELS TESTED  
PATENTED  
CERTIFIED  
SAFE



Mestel Safety has more than 25 years of design and production experience in the US/EU military, professional and recreational full-face scuba diving mask and gas mask industries.



Notified Body n° 0426

Test report n° PPE125RP2602  
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The values of breathing resistance (inhalation and exhalation) were recorded continuously and are shown below

#### Results

Id.sample	Inhalation resistance $\Delta P$ ( mbar )		Exhalation resistance $\Delta P$ (mbar)	
	25 x 2 l/min	25 x 2,5 l/min	25 x 2 l/min	25 x 2,5 l/min
#A1	6,4	9,2	5,8	7,2
#A2	6,3	8,3	6,0	7,4
#A3	5,7	8,1	5,4	7,2



Not only we determined, thanks to our manufacturing experience, what existing safety norms could apply to the engineering of our products - we decided to have a third party entity test our products.

We want to share our knowledge related to FFM safety, specifically related to potential risks concerning CO<sub>2</sub>.



# **ARIA 19** **FIGHTS AGAINST** **COVID19**

The spread of COVID-19 pandemic sadly led to PPE shortages all around the world, causing a tremendous challenge to the U.S. healthcare system.

Since 1980, OceanReefGroup has been a worldwide leader in full face masks and the diversification of our expertise allowed us to design and produce a mask with an innovative breathing filtration system and a full coverage face shield.

# THE PROJECT

In the beginning of March 2020, we deposited an international Patent through our company Mestel Safety, under the brand OCEANREEF manufactures full face masks purposes and through the brand Safety Protection Equipment, manufactures gas masks.



# DEVELOPMENT OF THE SAFETY STANDARD BEHIND OUR PRODUCT



Upper volume (**RED**) and Lower volume – technically called Orinasal Pocket (**BLUE**)

The FFM shares this same design, which means that the breathing cycle of both products perform in the same manner.



# BREATHING - CO<sub>2</sub>



1. Inhaled air goes from outside to inside the mask from the filter
2. Inhaled air is transferred from the upper volume (where it fogs visibility through the mask) to the lower volume, via the one-way valves in the orinasal pocket, reaching the inside of the orinasal pocket.
3. The air is, then, inhaled by the user.
4. Exhaled air cannot move back into the upper volume, because the orinasal pocket seals the nose and mouth around the cheeks. The valves are one-way valves and do not open upwards.
5. The exhaled air moves in the only direction it can: through an exhalation one-way valve.

This breathing cycle is called one-way breathing circulation. The benefit is to separate fresh air, containing only 0.4% CO<sub>2</sub>, from used, exhaled air with 4% CO<sub>2</sub> concentration.

# FEATURES



- Easy use APA and RD40 adaptors are easy to assembly on the Aria 19 mask, also when it is weared.
- 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.



**VARIOUS  
COMPATIBLE FILTERS**



**CO<sub>2</sub> TESTED**



**REUSABLE**



**FOG FREE**

# CORPORATE SOCIAL RESPONSIBILITY

Thanks to Aria19 KIT we were able to give a small contribution to help thousands of health care in the right against coronavirus.



# ORGANISATION CHART

## MEDICAL DIVISION



### Marketing Manager

Luca Gamberini

[l.gamberini@oceanreefgroup.com](mailto:l.gamberini@oceanreefgroup.com)



### Business Development Manager

Piergiuseppe Donato

[p.donato@oceanreefgroup.com](mailto:p.donato@oceanreefgroup.com)

### Customer Care

Europe, Middle East, Asia, Oceania



- Samantha Moresco

[s.moresco@oceanreefgroup.com](mailto:s.moresco@oceanreefgroup.com)



- Federico Giunto

[f.giunto@oceanreefgroup.com](mailto:f.giunto@oceanreefgroup.com)



North & South America

Eleonora Fontana

[e.fontana@oceanreefgroup.com](mailto:e.fontana@oceanreefgroup.com)

### Sales & Information

Europe, Middle East, Asia, Oceania



Margherita Lunetta

[megl@oceanreefgroup.com](mailto:megl@oceanreefgroup.com)



North & South America

Sandra Campos-Montalvo

[operator@oceanreefgroup.com](mailto:operator@oceanreefgroup.com)

### Customer Service/ Tech Support

Europe, Middle East, Asia, Oceania



Fabio Porcile

[f.porcile@oceanreefgroup.com](mailto:f.porcile@oceanreefgroup.com)

North & South America

Jesse Negrete

[customerserviceusa@oceanreefgroup.com](mailto:customerserviceusa@oceanreefgroup.com)

