

### CBM-U101 BIBS MASK SYSTEM



#### Design and Engineering Features

Our new generation CBM-U101 DIVING COMPACT BIBS MASK has been rigorously designed, developed and tested to an operational depth of up to 400 msw in accordance with international technical and safety standards set by NORSOK. The compact Bibs Mask has been tested for breathing resistance in accordance with NORSOK U-101 rev.2 in presence of a DNV-GL surveyor up to 400 msw.

#### Minimised Breathing Effort

The Balanced Second Stage Demand Regulator (inlet) and Exhaust valve (outlet) are both new concept systems. No springs, levers or other mechanical reciprocating parts are installed: virtually a friction-free system, resulting in effortless breathing (a drastic reduction on the supply pressure) for the diver and minimal wear and tear also.

#### Reduced Risk of Leaks

The silicon oral-nasal mask is designed to maximise sealing features.

The mask properly surrounds both the nose and the mouth below the chin, increasing the sealing efficiency and reducing strain on the nasal bridge and jaw. Furthermore, the necessary holes for head support retaining clips are drilled outside the face sealing area for added comfort.



### Improved Safety

Two independent and separate systems for gas supply and exhaust. Additionally an anti asphyxia valves is fitted to reduce choke hazard in case of inhale/exhale system malfunction. Nonetheless the low mask internal volume minimizes the CO2 build up to risk.

### Reduced Risk of Chamber Atmosphere Pollution

The supply pressure for the mask is only 4 bar over chamber pressure. In case of leakage from the main supply line the amount of breathing mixture or oxygen released in the chamber will be considerably lower than the other BIBS systems available on the market where the inlet pressure is 8-10 bar (or more) above chamber pressure.

### Technical Data

<b>Standard Hose Length</b>	3 m (shorter hoses to order)
<b>Inlet Pressure</b>	4 bar over chamber pressure
<b>Inlet flow</b>	RMV = 40 l/min
<b>Outlet Pressure</b>	Self-protecting 3m – 20 msw For safety, protect with BPR beyond 20 msw Recommended to be vacuum assisted from 0 - 3m to comply fully with guidelines
<b>Safety features</b>	Anti-suction/ant- asphyxia valve Independent and separate supply and exhaust system
<b>Weight including standard hoses</b>	1780 g

### Dimensions, Comfort and Ergonomics

The mask is compact and lightweight, with its COG (Center Of Gravity) and hose connection very close to the diver's face.

In addition, the mask has been designed in order to accommodate all components within the mask's shell, resulting in a fully integrated structure.

This specific design reduces the forces and associated stress induced onto the diver's neck, without impairing head movement with better visibility and unrestricted proximity to the task at hand. The flexible silicone oralnasal mask ensures comfort while donned and is fully adjustable to fit any diver as there are different silicone oral-nasal masks for different head dimensions and face shapes.

The silicon mask can be replaced if damaged or one can simply be assigned to each respective diver (as per personal preference) to reduce risk of bacterial contamination.

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