SOLR®
Oxygen Mask

The SOLR® Oxygen Mask is the next generation MMF/HAHO oxygen supply system. The SOLR® Oxygen Mask is built off a modular platform allowing field maintenance and reconfiguration to become effortless.

The SOLR® mask features the strong characteristics of its predecessor, the Airborne Systems' PHAOS Oxygen Mask and is compatible with the new SOLR® and legacy PHAOS Bailout Bottles. It is also compatible with the PHANTOM Bailout Bottle.

The SOLR® Oxygen Mask is built around the GENTEX MBU-20 Jet Fighter Pilot Oxygen Mask, whose low profile gives an increased downward field of view. It offers 5 different sizes and fits a range of persons from the 3rd percentile female through the 97th percentile male. Its black soft silicone shell has a lower durometer than the traditional harder gray silicone shell found on other Oxygen Masks and was specifically developed to improve comfort over extended period of use.

The SOLR® Oxygen Mask features a new non-dilution oxygen demand regulator which delivers 100% oxygen during inhalation, both during pre-breathing and during the actual jump and descent under canopy. This ensures that the jumper is never breathing a mix of gas and mitigates the risk of hypoxia, drastically increasing the safety of operation. This breakthrough innovation is made possible thanks to the very high service pressure of Airborne Systems' latest Bailout Bottles, allowing them to contain significantly more oxygen than traditional Bailout Bottles.

To further increase duration, the regulator can be easily fitted with an optional dilution valve that preserves oxygen by diluting the oxygen delivered by the regulator valve with ambient air. Nevertheless, this option adds an unnecessary level of complexity to the mask and requires more frequent adjustments and calibrations.

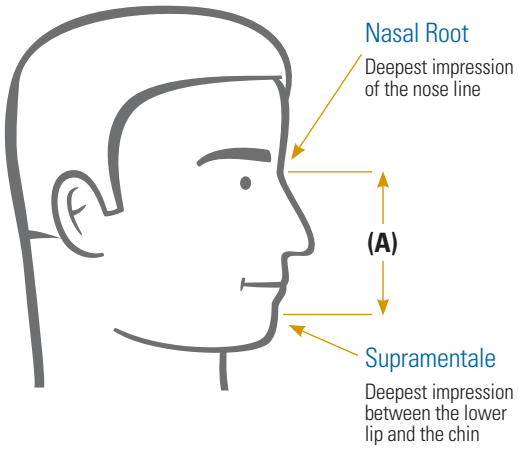
Use of the non-dilution oxygen demand regulator represents a cost saving opportunity for Airborne Systems' customers by lowering the cost of the equipment and the associated service and logistical costs as well.

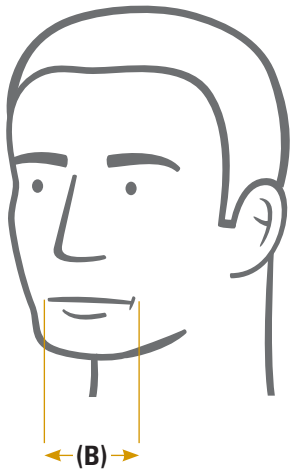
The SOLR® Oxygen Mask is equipped with an automatic Anti Suffocation Valve that opens up automatically when the jumper's Bailout Bottle is empty or disconnected from the mask. It allows the jumper to breathe comfortably throughout the total descent, even after all oxygen is consumed. It also provides facial protection for inadvertent landings in brush and trees. The SOLR® Oxygen Mask eliminates hoses and connectors on the front torso providing the parachutist with a "clean front" thus improving vision and mobility.

It provides a secured and adjustable seal to the jumper's face. It can be easily and rapidly detached by the jumper himself or by another user assisting the jumper in case of emergency. The SOLR® Oxygen Mask is also equipped with a standard M-169A/ AIC microphone that can be connected easily to the parachutist's communication equipment.

Key Features

- Lightweight
- On demand regulator, no dilution (100% O2)
- Modular (dilution module optional)
- Compatible with SOLR / PHAOS / PHANTOM Bailout Bottles
- 5 sizes
- Compatible with all parachutist helmets on the market
- Easy maintenance





Product Specifications

Medium	Oxygen	
Intlet Pressure	40 to 80 psig	2.8 to 5.5 bar
Operating Environment		
Temperature	-65° – +160°F	-54° – +71°C
Humidity	0 to 100%, non-condensing	
Altitude (ceiling)	35,000 ft	10,668 m
Product Interfaces		
Intlet Fitting	Quick Disconnect Plug (mates with 1/8 inch socket)	
Helmet Attachment	OPS CORE / GENTEX / MSA / PRO TEC / TEAM WENDY	
Mask Size Measurement	**Face Length (A)**	
XSN (Extra Small Narrow)	Less than 84 mm	
SN (Small Narrow)	84 mm to 87 mm	
MN (Medium Narrow)	87 mm to 100 mm	
MW (Medium Wide)	87 mm to 100 mm	
LW (Large Wide)	More than 100 mm	
Mask Size Measurement	**Mouth Width (B)**	
Narrow	Less than 62 mm	
Wide	More than 63 mm	

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