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Dual Mode Mask (DMM)

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Dual Mode Mask Assembly (DMM) is based on the Divator full face mask and incorporates a water dump valve and changeover valve. The DMM retains the standard Divator pressure equaliser (nose block), oral / nasal, oral / nasal retainer and the oral / nasal non-return valves for water clearing. It is fitted with a bite mouthpiece that has an anti-collapse reinforcing ring fitted in the first convolution. Provision is made for the fitment of hard wire or through water communications.

Features

An earphone / microphone assembly may be fitted to a 19mm hole in the right hand side of the visor, the microphone being mounted in one of the oral / nasal non-return valve holes. The standard Divator bulkhead has been replaced by the brass bulkhead of the changeover valve assembly, which also houses the open-circuit demand valve, and a plastic middle bulkhead and inner bulkhead. The changeover valve assembly has two positions, closed-circuit and open-circuit. The face port has also been modified to accept the Status LED, which is held in a receptacle on the upper front left side of mask lens.

DMM changeover valve

The mask changeover valve incorporates non-return valves for closed circuit operation and an open circuit demand valve. The changeover has two positions, closed-circuit and open-circuit.

To isolate the Closed-Circuit Primary Breathing System (CC PBS) and access the Open-Circuit Secondary Breathing System (OC SBS), the changeover valve hand-wheel is rotated 90° clockwise (looking at the diver) so that the white indicator button is at the 3 o'clock position. To prevent ingress of water to the closed circuit system, the valve should normally be left in this open-circuit position at all times, unless worn by the diver. To select closed-circuit, the hand-wheel is simply rotated anti-clockwise (looking at the diver) through 90°, until the white indicator button is at the 12 o'clock position.

DMM Open Circuit System

The open-circuit system comprises the mask changeover valve and open-circuit demand valve.

Open Circuit Demand Valve

The open-circuit demand valve is based on the second stage Apeks TX40 and consists of a standard low pressure hand tight adaptor for the demand valve supply hose and a diaphragm assembly.