



Surfaced Supplied MOD-1 Mask

User/Operator Course

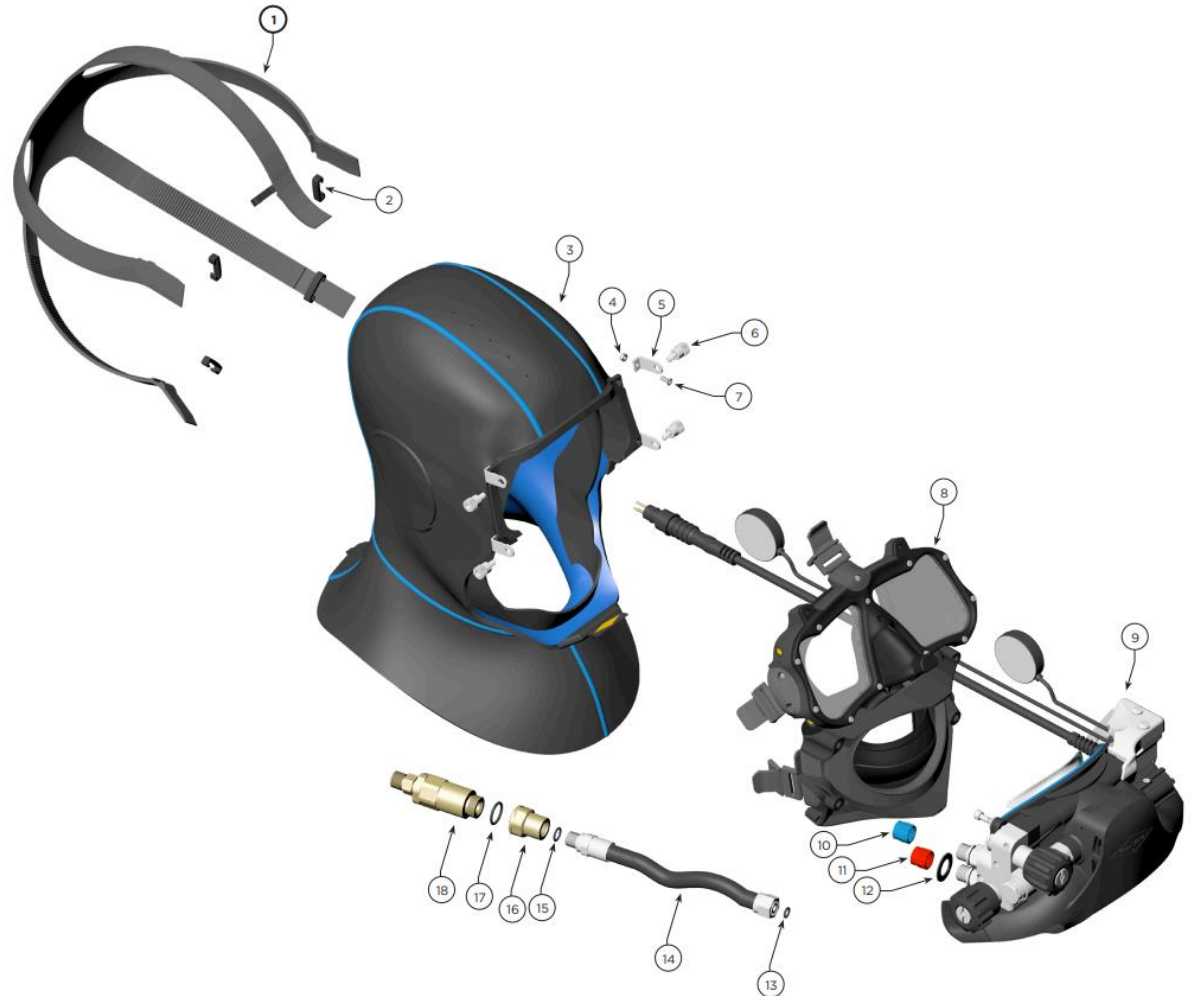


SS MOD-1 Mask Components

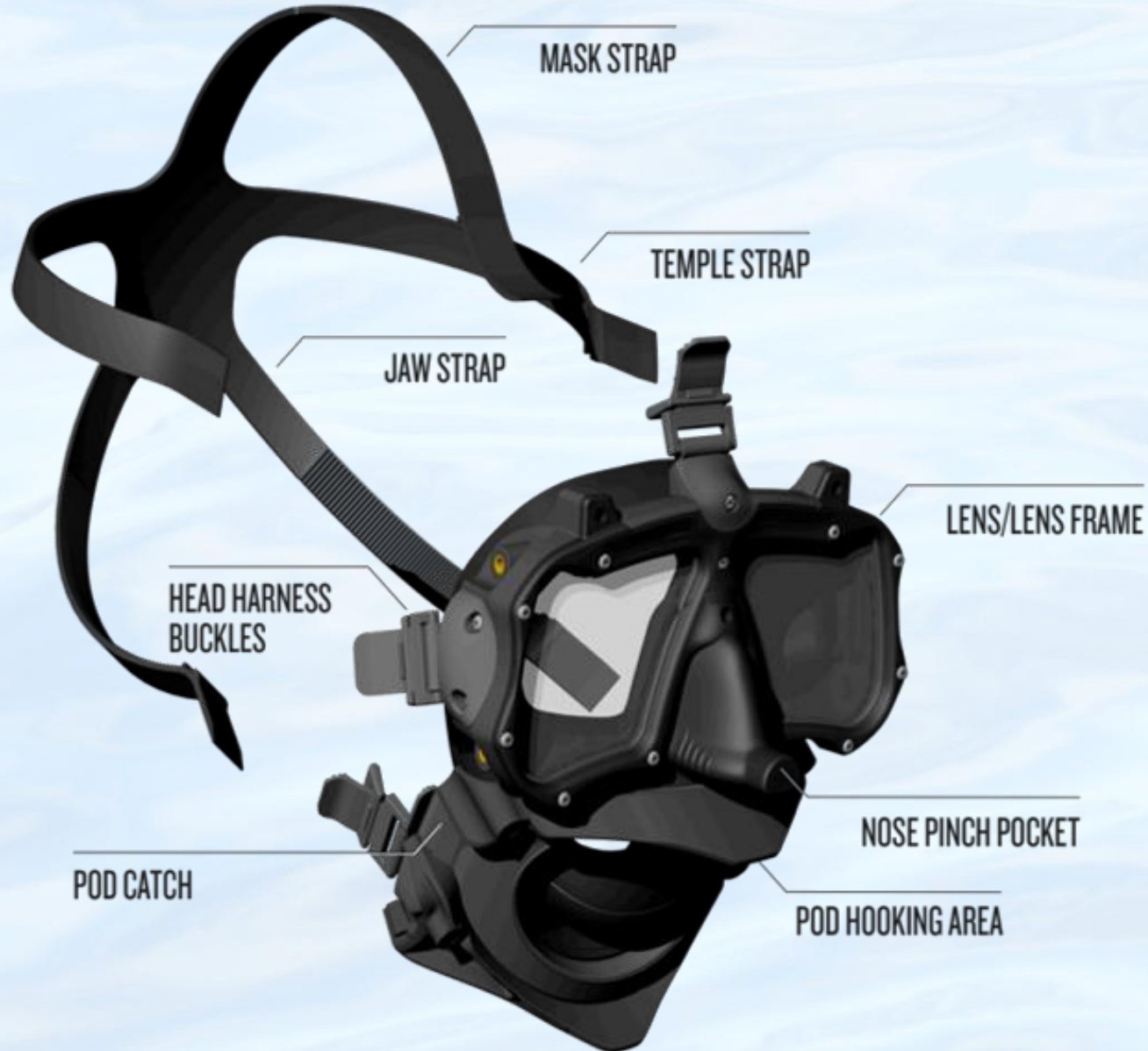
P/N 500-800 Surface Supplied MOD-1

Location #	Part #	Description
1	810-007	Mask Strap
2	820-225	Strap Keeper
3	805-125	MOD-1 Hood Assembly w/Bib L/XL, 7 mm (includes loc. #4, 5 and 7)
4	330-105	Nut (included with loc. #3)
5	840-010	Hood Frame Bracket (included with loc. #3)
6	850-095	Hood Mount Block Stud
7	830-047	Screw (included with loc. #3)
8	805-180	Mask, M-48 MOD-1, w/ Vent Passages
9	805-225	Surface Supplied Pod
10	805-038	Cap w/O-ring
11	805-039	Cap, w/O-ring-Red
12	850-002	EGS Split Washer
13	510-010	O-ring (included with loc. #14)
14	855-010	Jumper Hose (L.P.) Supply Assembly
15	510-012	O-ring (included with loc. #14)
16	850-155	Adapter
17	510-483	O-ring (included with loc. #18)
18	505-060	One-Way Valve Assembly

* Denotes a critical component



SS MOD-1 Mask



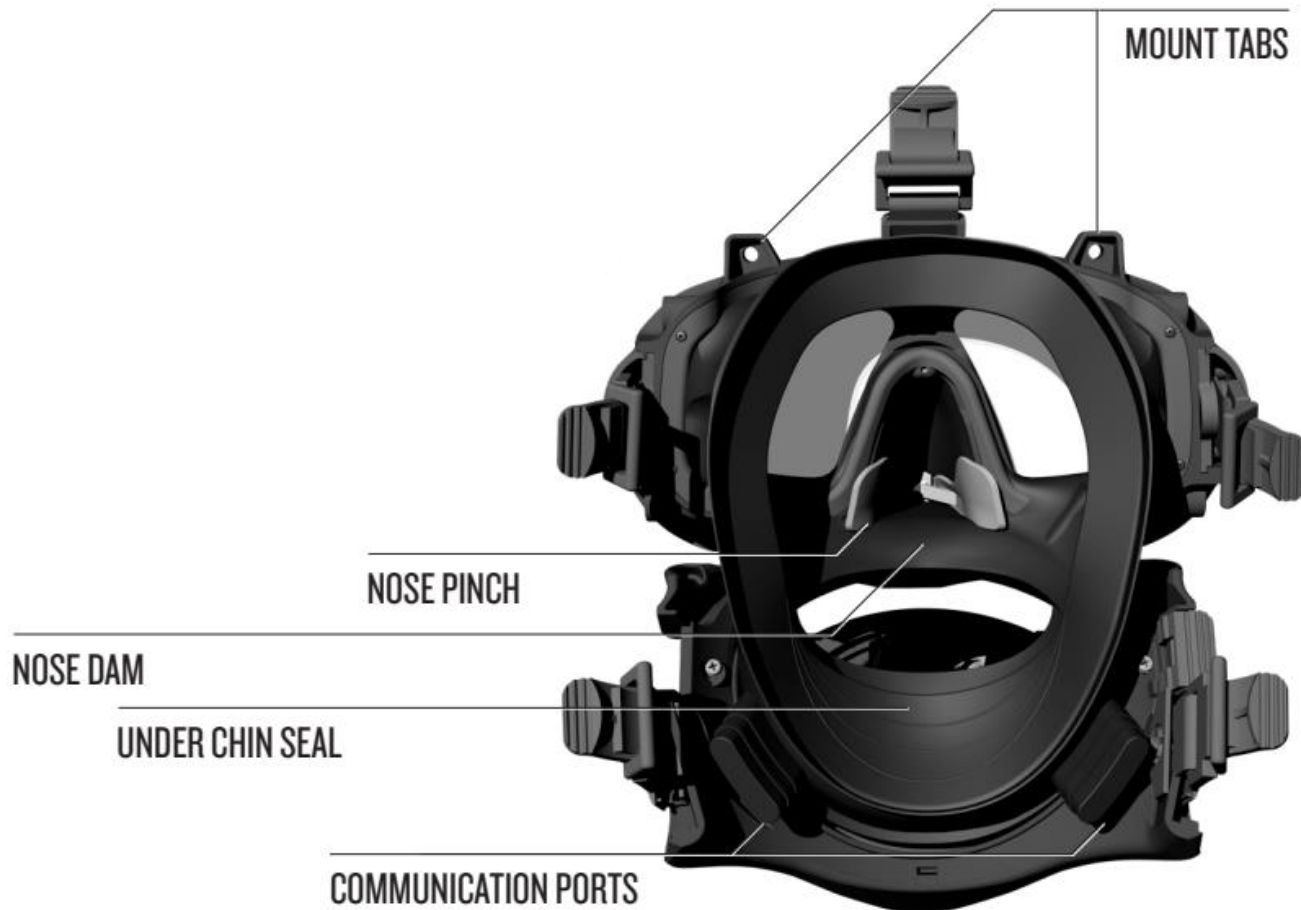
POD

Controls operate the same as a helmet



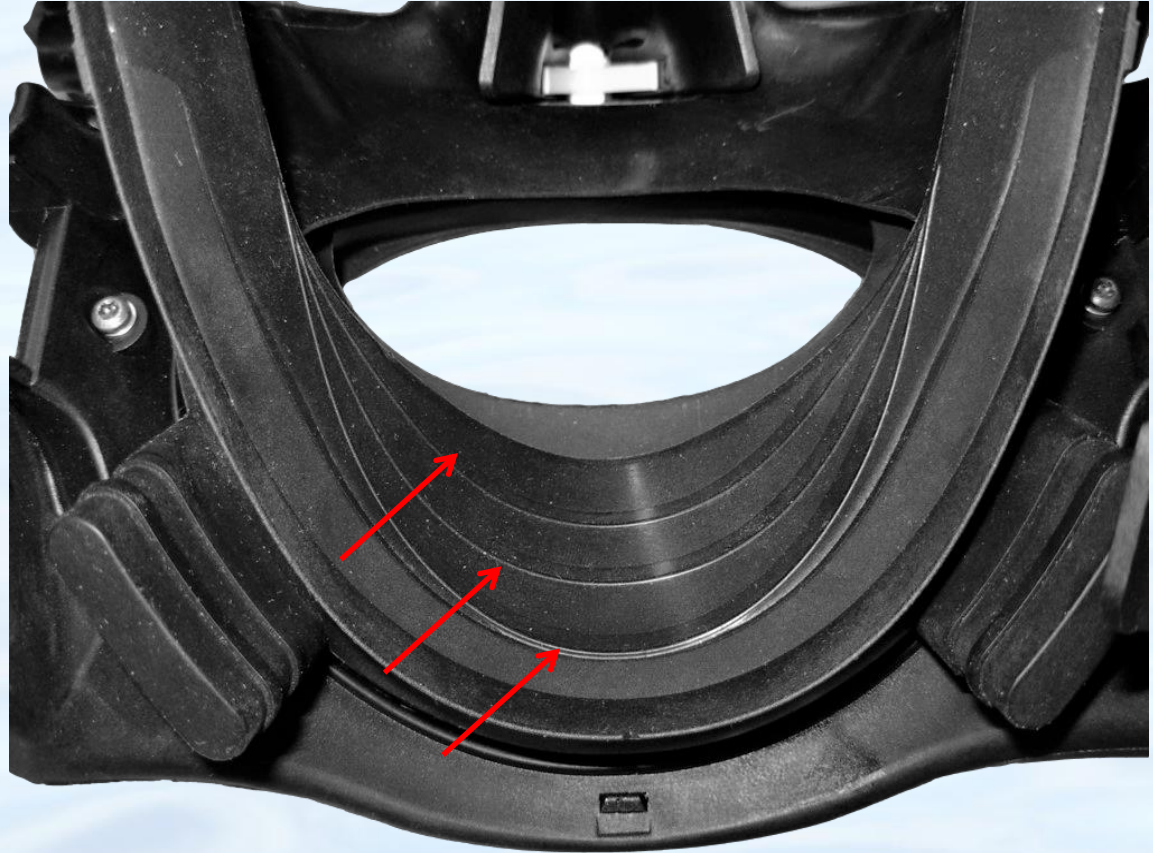
M-48 MOD-1 Mask

Interior Features



Trimming Face Seal

- Trim lines for face seal
- Use sharp scissors
- Trim one line at a time, test fit in between each cut
- Refer to user guide for detailed instructions



Neoprene Hood

- Fully assembled hood incorporated into mask
- Excellent option for cold water diving
 - Hoods that are permanently attached to dry suits can still be used



Removing Neoprene Hood



Detailed instructions included with KM hood kit
(instructional video on KMDSI website)



Hood Assembly



- Remove earphone from pockets
- Remove hood from mask

Neoprene Hood

Visually inspect the hood interior and exterior for damage/deterioration. IAW O & M manual





Mask Assembly

Visually inspect mask interior/exterior for loose/missing fasteners and obvious signs of damage. IAW O & M manual





Pod Assembly

Perform communication check



Pod Assembly



- Using needle nose pliers, remove communication wires from the connector body
- Remove microphone from oral cup , pull back cover, inspect, clean, replace if necessary

Mask Assembly



Remove nose pinch assembly, inspect, and reinstall

Pod Assembly

Pod removed for pictures only



- Remove the oral cup, clean, inspect, and replace if necessary
- Inspect exhaust valves and replace if they are dried, stiff, or warped

Pod Assembly

Pod and gasket removed for pictures only



- Install oral cup
- Ensure oral cup is properly fitted around exhaust valve flange

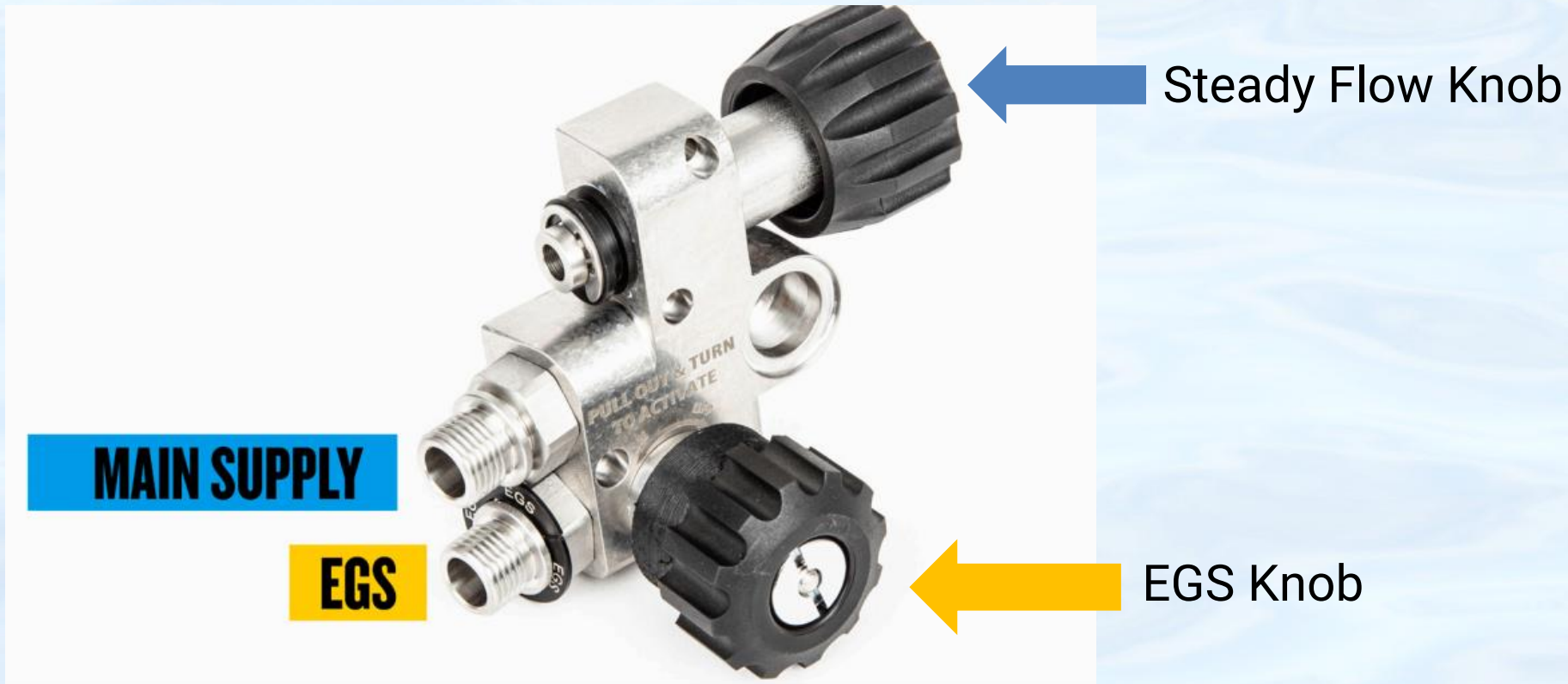
Donning the Mask

- Install microphone assembly
- **NOTE:** Pod Gasket must **not interfere** with microphone clearance and fit into the Oral Cup



EGS Controls

Controls operate the same as a helmet



- Without air ensure Steady Flow Valve and EGS Valve operate smoothly
- If the valves do not overhaul them IAW O & M manual

Mask Assembly



- Adjustment knob/dial-a-breath knob must be removed first
- Remove regulator exhaust cover/whisker
- Inspect exhaust cover for damages

Pod Assembly

Inspect the two exhaust valves for damage, contamination, hardened or warped



Demand Regulator



- Remove and Inspect the Diaphragm Retainer Ring, Diaphragm Washers and Diaphragm
- Visually inspect the interior of the Regulator Pod, Main Tube, Packing Lock Clip Body for corrosion and/or contamination
- Carefully inspect diaphragm

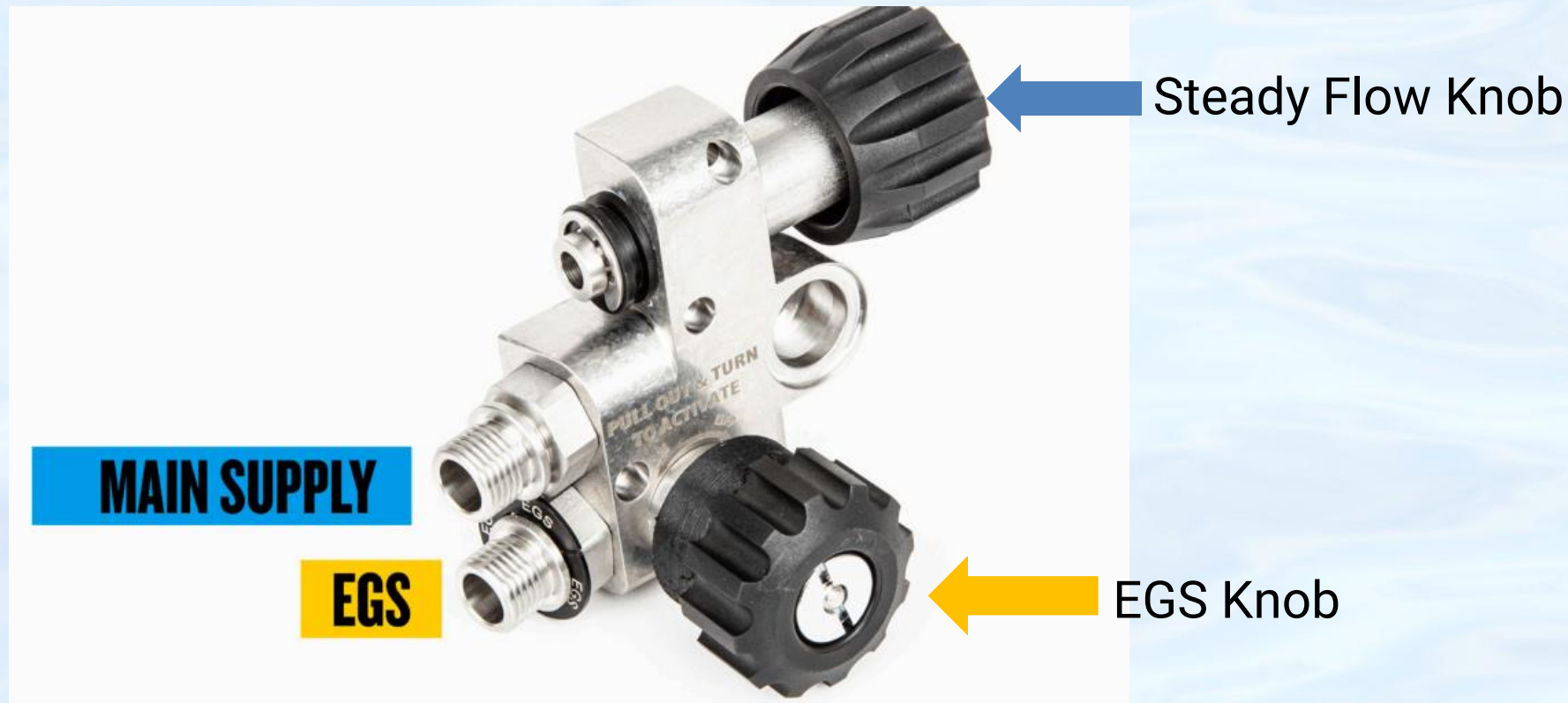
Demand Regulator



Reinstall diaphragm, diaphragm washers & diaphragm retainer cover

EGS Controls

Controls operate the same as a KM helmet



- Ensure EGS and steady flow knobs are closed
- Attach LP air source to main supply inlet

POD

Controls operate the same as a helmet



EGS Knob

Adjustment
Knob/Dial-
breath

Steady Flow
Knob

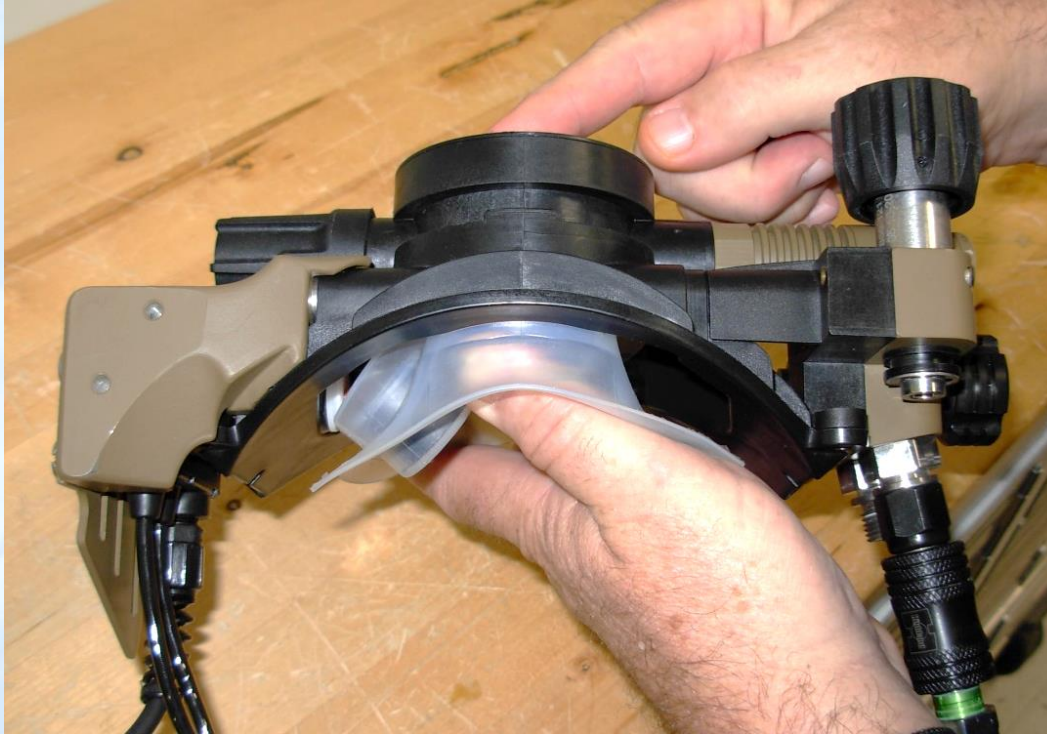
Balanced Regulator

Demand Regulator



- Temporarily install adjustment knob
- Rotate the adjustment knob OUT, counterclockwise, until the knob stops
- Turn the adjustment knob in one complete turn
- Attach an L.P. regulated gas supply to the hose adapter on the side block

Demand Regulator



- Lightly depress the regulator purge cover several times (three–five) and ensure the gas flow is stable
- Listen for a slight hiss, indicating a very minor amount of gas escaping from the regulator
- If no hiss is heard rotate the adjustment knob out 1/4 of a turn- if more is required, inlet nipple adjustment is required

Demand Regulator



- Lightly depress the regulator purge cover several times (three–five) and ensure the gas flow is stable
- Listen for a slight hiss, indicating a very minor amount of gas escaping from the regulator
- Rotate knob in slightly (Clockwise), not to exceed 3/4 of a turn, and verify hiss stops, If hiss does not stop – inlet nipple adjustment is required

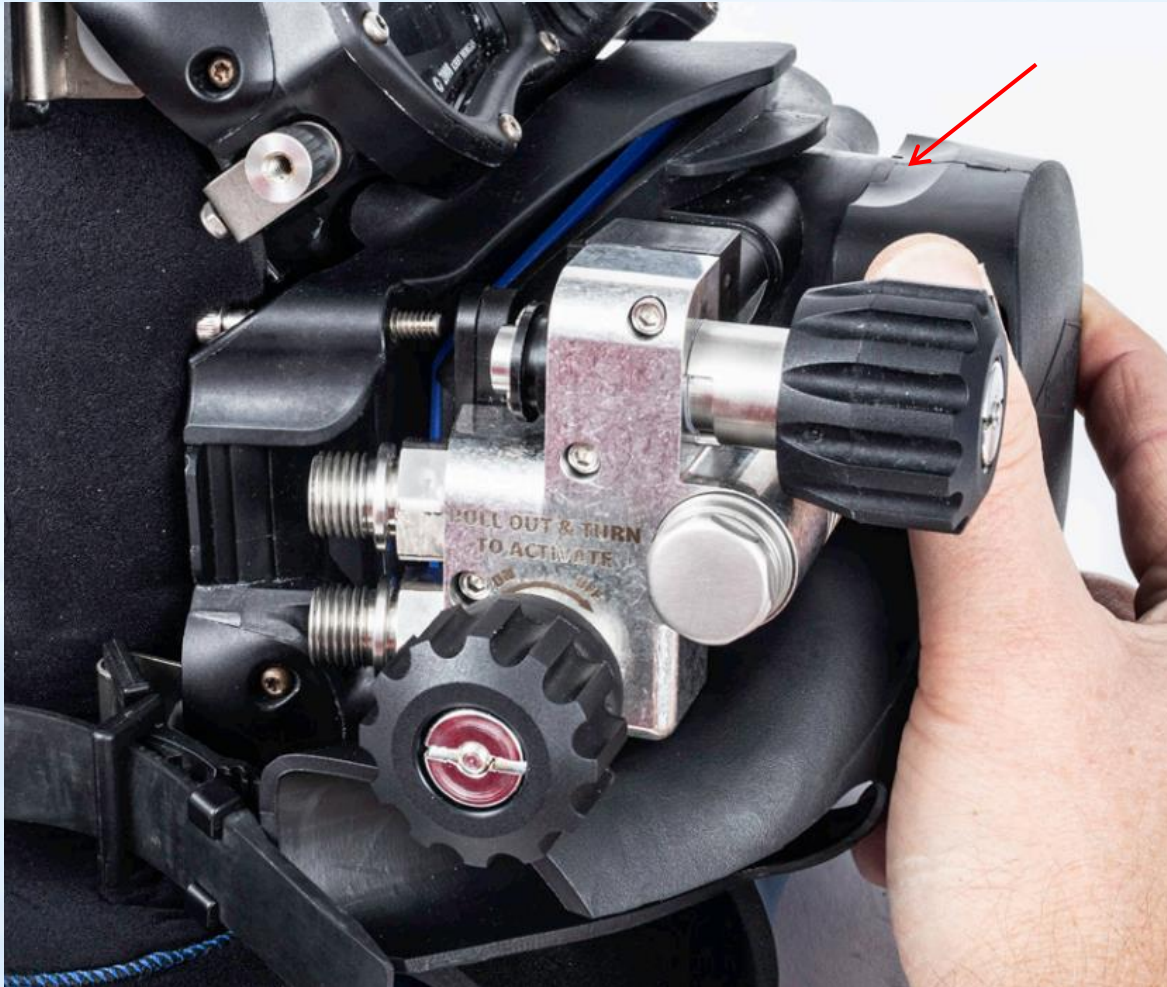
Demand Regulator

If adjustments are necessary



- Remove the Cap from the Banjo Tube
- Confirm Steady Flow is closed
- Turn the adjustment knob all the way out (counterclockwise) then back in (clockwise) one full turn
- Insert a 1/4" wide flat blade screwdriver into the slot in the end of the adjustment nipple to adjust, as necessary. Do not exceed 1/16 of a turn at a time

Pod Assembly



Fit the top of the cover into the indented portion at the top of the regulator Pod

Pod Assembly



- Secure two bottom tabs of exhaust cover into receiving holes of the Pod
- Insert the two knobs on exhaust cover into corresponding holes on Chamber Cover
- Secure the Regulator Adjustment Knob

Demand Regulator



- Gently collapse the Assist Spring with the tubing side of the spring facing down
- Insert collapsed spring into the open slot on exhaust cover

Demand Regulator



- Reinstall regulator adjustment knob/dial-a-breath
- Tighten screw until just flush with regulator adjustment knob

Functions Check



- Connect LP air source
- Rotate adjustment knob/diala-breath counterclockwise until free flow and then until it stops
- Cycle steady flow listening for strong flow of gas and no leaks
- Cycle EGS knob checking for smooth operation and no leaks

Mounting Pod to the Mask



- Align tabs to mask and insert screws
- Ensure the neoprene material tucks inside of the leading edge where the lens body and jaw frame meet
- Stretch the nylon packet to capture the apex of the jaw frame

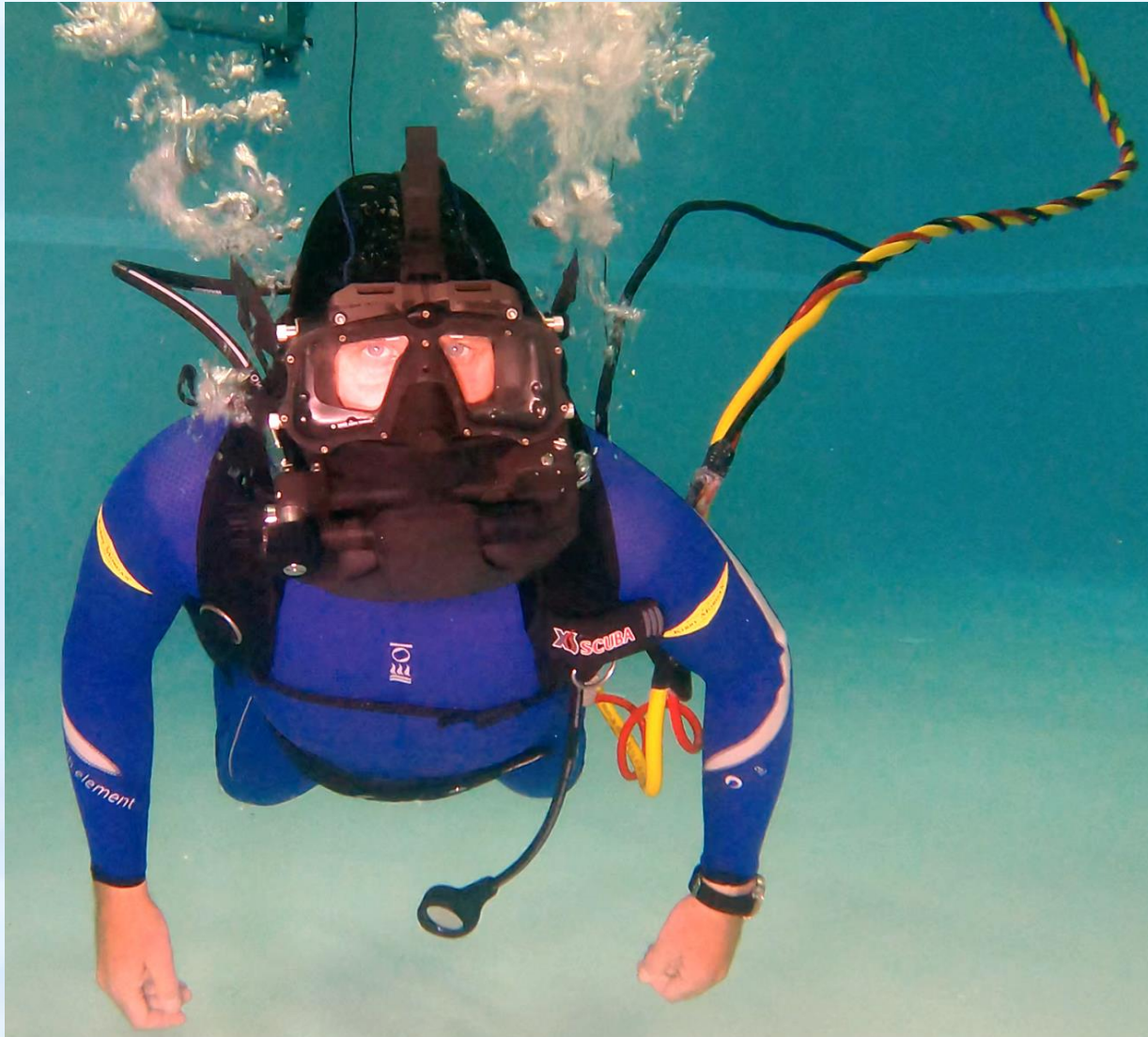
Reinstall Hood Assembly



Ensure the leading edge of the outer seal is clear of the mask skirt

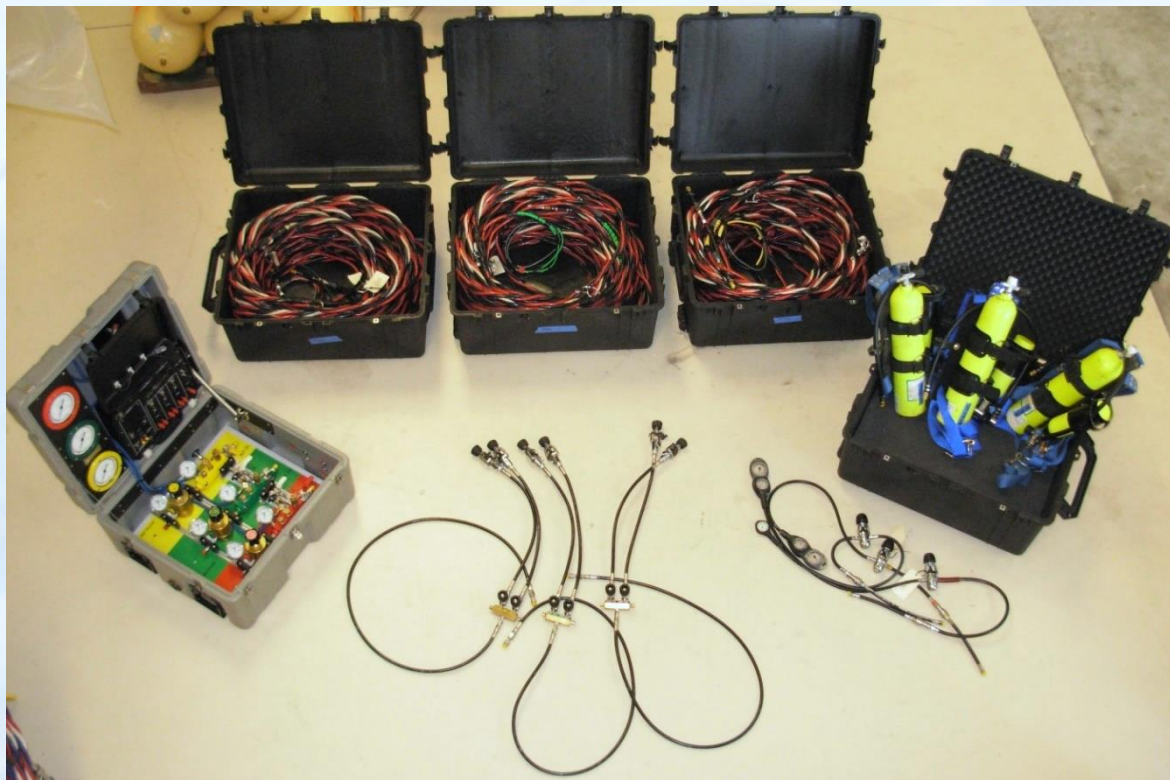


Mask is ready for Diving Operations



Minimum Equipment for SS MOD-1

- Surface Air control system (LP, HP or combination of both)
- Umbilical designed for SSD operations
- One Way Valve (Non-return) attached to SSD pod main gas connection
- Communications system
- Complete diver worn bail-out system with harness





Minimum Equipment



1. Topside air supply
2. Complete EGS System
3. Communications Box
4. SSD Umbilicals





Gas Supply Hoses

⚠ WARNING

Never connect the main gas supply hose from the diving control station to the Emergency Gas valve assembly (EGS) on the Pod. The EGS fitting is the lower fitting of the two that are on the side block. Failure to incorporate a check valve into the main supply line can result in serious personal injury or death.

⚠ WARNING

Never connect the main gas supply hose from the diving control station directly to the side block. If this is done there is no one way valve protection for the diver in the event of damage to the umbilical or related equipment. The diver could be exposed to a serious “squeeze”. This can result in serious personal injury or death.

⚠ WARNING

Do not dive without a diver worn Emergency Gas System. If the main gas supply is lost, you will have nothing to breath and may drown.

Pre- Dive Procedures



- Complete pre-dive inspection A2.3 prior to diving operations
- Pre-dive inspections were covered in A2.2

Pre- Dive Procedures

Standard SCUBA
threads- 9/16
inch-18 male
threads

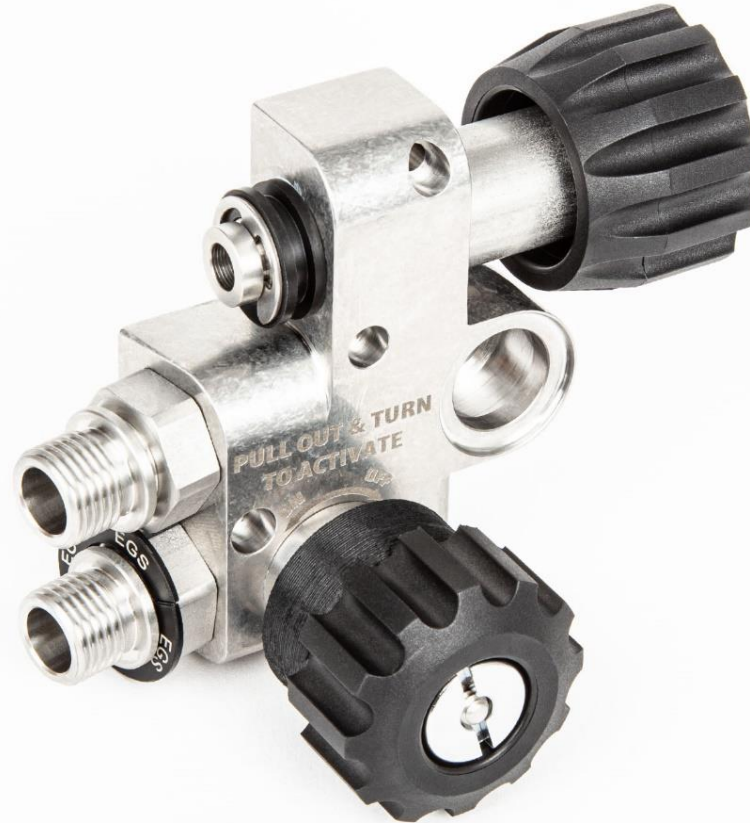


One way Valve



1. One way valve **MUST BE SECURED** in line with main supply if not installed
2. **NEVER** connect the main gas supply directly to the side block. A jumper hose **MUST** be used
3. Both main supply and EGS supply fittings are standard SCUBA threads 9/16 inch-18 male threads

Pre- Dive Procedures



4. Normal operation the EGS control knob is in the FORWARD/OFF position

Pre- Dive Procedures

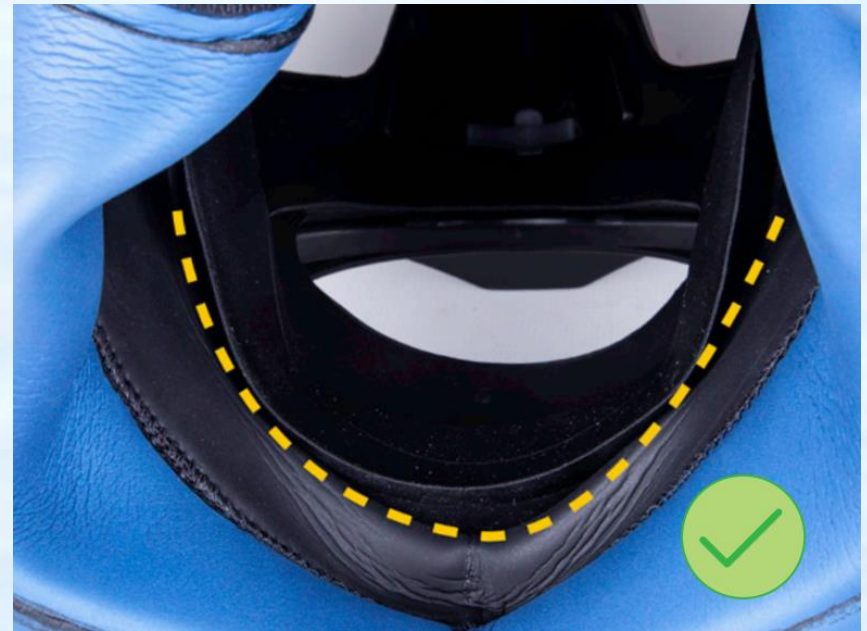
M-48 MOD-1 HOOD ASSEMBLY



5. Verify thin and smooth flap seal on the inside of hood is completely outside of the mask's face seal
6. It is recommended to use a defog solution

Donning the Mask

1. Ensure the leading edge of the outer seal is clear of the mask skirt



Donning the Mask

2. Unzip bib found on hood and hold the M-48 MOD-1 so that it is hanging from the Mask Strap and the five straps are completely loose



Donning the Mask

3. Don mask and zip the hood

4. Ensure the Mask Strap junction is resting at the lowest part of the head

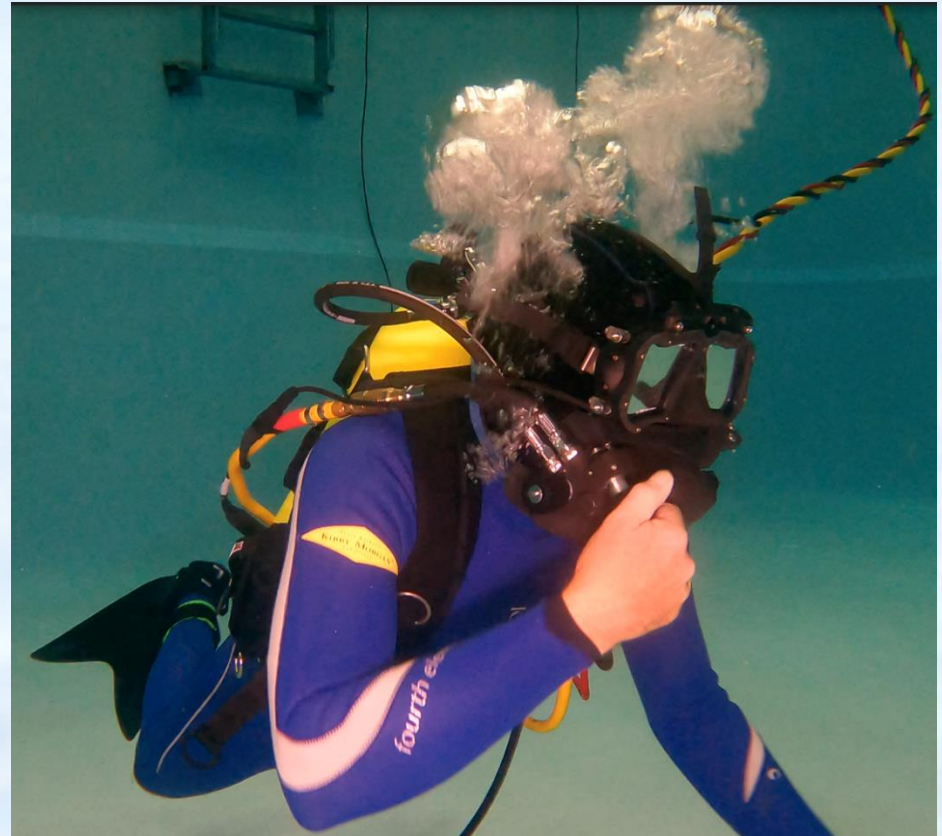




Mask Clearing & Dewatering

To clear water from the upper eye section clear the mask in the same procedure as you typically would in any SCUBA mask while in the upright position

Water will leave the upper portion of the mask to the lower cavity and will be expelled through the dewatering valve





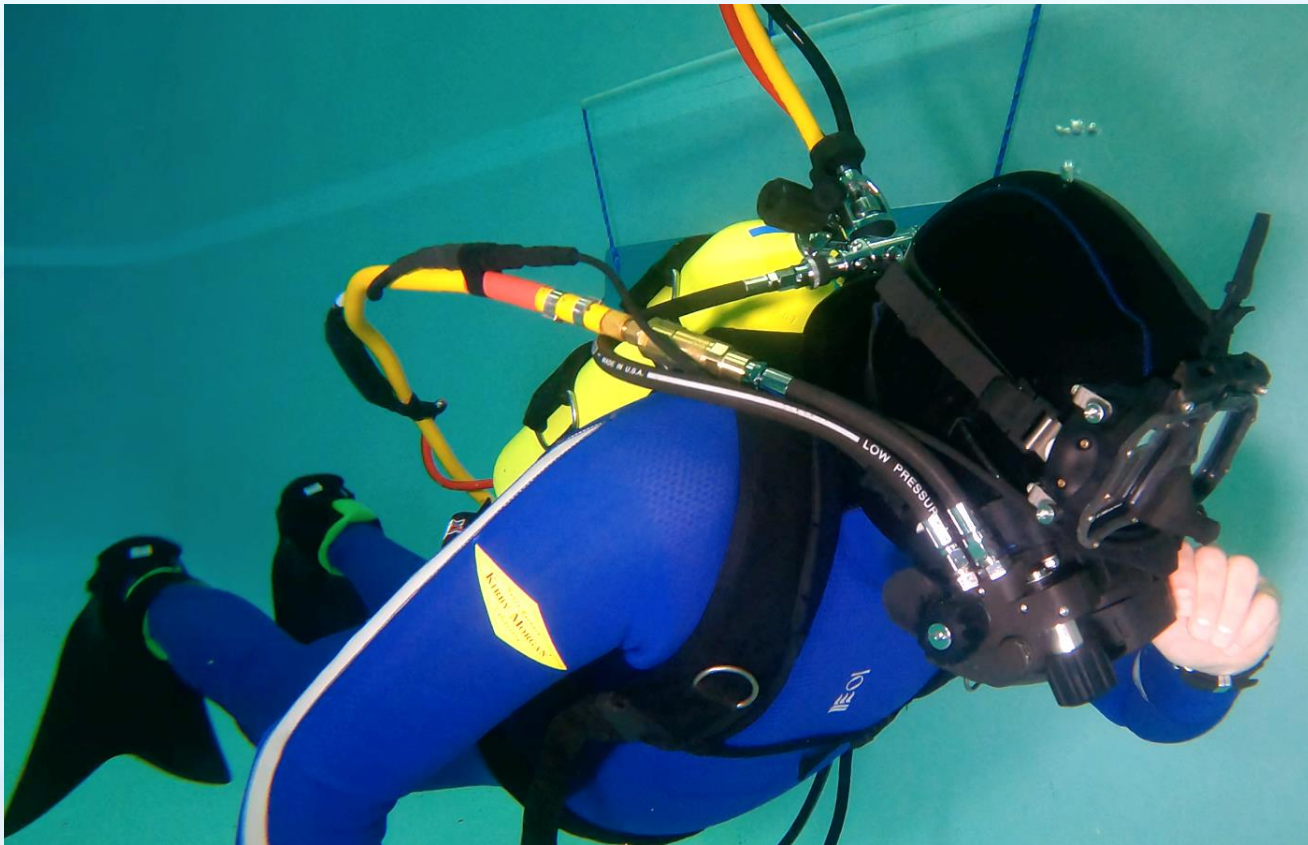
Post Dive Procedures

- Post dive procedures are the same for all SCUBA related equipment
- Wash with soap and water
- Thoroughly rinse with fresh water
- Allow to dry
- Properly store
- Refer to user guide for detailed instructions



Safety Recommendation

Kirby Morgan recommends that all users make at least a 30-minute indoctrination dive prior to open water diving the M-48 MOD-1



Questions?

