



# Open Circuit Apollo Military



# Dive Cylinder



## Description

State-of-the-art manufacturing facilities located on the East and West coasts of USA All SCUBA cylinders are produced from high quality North American sourced raw materials On-site DOT (IIA) Inspections – dimensional, visual, hydrostatic, tensile & burst testing Serialization – complete traceability of cylinder production batch, test reports and raw material Personalized customer support – technical inquiries, new product development, logistics Customizable colors, labels and graphics

## Specification

PART #	WATER CAPACITY			DIAMETER		LENGTH		WEIGHT		BUOYANCY LBS		
	cu in	lbs	liters	in	mm	in	mm	lbs	kgs	full	500 psi	empty
S80	678	24.5	11.1	7.25	184.2	25.9	658	31.3	14.2	-1.6	2.8	4.1

## Other Information

Specification: DOT-3AL & TC-3ALM designed – ISO design cylinders are available Alloy: – Manufactured from high strength aluminum alloy 6061-T6 Threads: –Standard 3/4-14 NPSM – Other thread sizes available upon request Markings: – As required by specification – Additional markings available upon request Finish: – Shot blasted, fully brushed and powder coat finishes available Graphics: – Logos or labels in silkscreen or Duragrafix available upon request Accessories: – Valves installed upon request

## Tank Valve



### Features

- Standard Yoke Outlet with spin out adapter.
- Converts a standard SCUBA YOKE to a 230 BAR DIN Outlet.
- Precision threading for a clean and tight seal.
- A smooth operating, all-Teflon seat for exceptional durability.
- Specially designed burst-disk assembly that evenly distributes escaping air, preventing your tank from spinning or tipping if the burst-disc vents.
- Precision threading for a clean and tight seal.
- 3/4" NPSM, 14TPI.
- Nitrox Compatible Up To 40% Oxygen.

## Tank Boot



### Features

- Octagonal top shape.
- Round bottom shape.
- Rubberized Black in color.
- Mounted on the bottom of the tube to prevent damage to the bottom of the tube and to prevent the tube from accidentally rolling when the tube is tilted.

# Regulator 1st Stage



## Description

Tool to connect the 2nd stage and Depth and Pressure Gauge Can function with air pressure up to 345 bar or 5,000 psi Fitting type: Yoke Can operate for diving using nitrox gas Using a Viton type O-ring so that it can use nitrox gas Using a double diaphragm system to prevent water from entering the 1st Stage thus preventing the possibility of corrosion

## Features

### Double diaphragm system



The adoption of dual double diaphragm system relieves a worry of freezing moving parts under low-temperature environments.

### high-performance H.P. sheet

The heart of the 1st stage regulator is the newly developed tough and high-performance H.P. sheet bio 360. It stably supplies the air over the long duration which far surpass current conventional reference of "3 million times breath" and "about 3000 dive".  
\* Tested with breathing machine by ourself.



## Specification

Material	Forged brass
Finish	Satin chrome plated
Type	Balanced diaphragm design, environmentally sealed
H.P. ports	7/16" x2
L.P. ports	3/8" x4
Connections	Yoke
Dust filter	Bucket type filter
H.P.seat	bio-360
Pressure level	Tank max 220bar, L.P. 9.6bar
Weight	750g

## Regulator 2nd Stage



### Description

The package of the 1st stage regulator that lavishly uses tough forging body and yoke, and the easy-to-use 2nd stage regulator that equips swivel joint. It supplies comfortable air even under all circumstances.

## Regulator Octopus



2nd stage backup regulator with comfortable swivel to reduce jaw fatigue. Equipped with venturi bypass system, making breathing easier. Coated with anti-bacterial coating. zeomic and non-stick coating that provides protection against corrosion and bacteria.

## Specification

Material	ABS/PC body, TPU top cover
Hose	70cm swiveling hose
Weight	405g (with L.P. hose)
Color	BK

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## Features

### bio air system



"bio-air system", special structure inside of the 2nd stage, leads a direct air flow to the mouth. It will release the valve by sensing slight pressure change in order to achieve a comfortable breathing without any discomfort being affected by changes in depth or pressure remained in the tank. The mouthpiece-tube, relatively small in diameter, reduces the fatigue of the jaw in diving spanning a long period of time.

### Swivel joint L.P. hose



Well-established a swivel joint L.P. hose is equipped as standard, which reduces the fatigue of the jaw.

### Water-repellent plated containing



Main metal parts are water-repellent plated containing fluorine resin, which reduces the operation failure due to the deposition of salt.

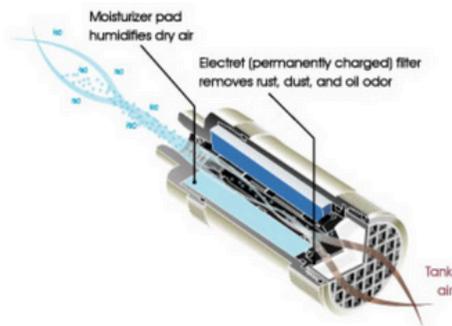
# Biofilter Clean Air System



## Description

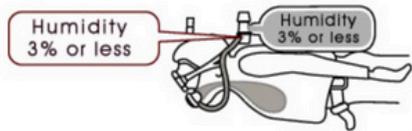
It supplies body-friendly breathing air by removing impurities and odor, and moisturizing air for your breath. The filter material has been refurbished from the current activated carbon dust dust-proof filter to the multiple layer electret filter, which improves the dust-proof performance by 20% and the pressure drop by 44%.

## Features

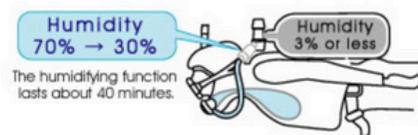


Tank air for diving has a humidity of less than 3%. Therefore, every time breathe tank air, water is taken from the lungs and blood, making us thirsty and tired easily. This bio-filter adds 30%-70% of humidity to the tank air by the built-in water filter to the air purified by the electret filter, and gives water to the body.

Without bio-filter



With bio-filter



The dry air in the tank is sent directly to the lungs, removing water from the lungs and blood each time you breathe.

In normal breathing, it passes through the nostrils to give it adequate humidity and to filter out dust. The bio-filter replaces this nostril function.

## Specification

Color	Silver (SV)
Port fitting	3/8" available
Material	Chrome over brass
Outer diameter	φ32mm
Total length	111mm
Weight	242g
Water capacity	Approx. 18cc
Accessories	2x Electret filter cartridge, 1x Moistureizer pad, 1x Filling bottle, 1x Clamp wrench, 1x Allen-key wrench
Nitrox compatible	Yes to 40% O2 when use new electret filter cartridge

# Depth & Pressure Gauge



## Description

Dedicated boot optimally places the depth meter and residual pressure gauge. The dedicated boot that tilts the depth meter at 15 degree with respect to the residual pressure gauge for providing optimum viewing angle of both gauges.

## Features



Unique residual pressure warning function with our patented brightness perception system (B.R.System) will inform the reach of lower limit of residual pressure by blinking an ultra-high brightness orange LED. By the adoption of the B.R.System, it minimize the power consumption to the limit while the tank is not being connected. It will automatically start up to full operation mode once the tank is connected and being in use.



The scale plates of the depth gauge and the residual pressure gauge are painted with Japanese-made special phosphorescent agent, which will glow stably for hours once exposed to the light. It is ideal for night diving.

## Specification

Components	Pressure gauge (bio-gauge Nrx) + Depth gauge (ag-21 Max) combination gauge
Maximum tank pressure	35MPa (350bar)
Maximum depth	70m
Battery	CR1632x1
Battery life	about 150 dive. Replaceable by user
Face of gauges	Ultra long time fluorescent material " Luminova".
Color	Black (BK)

# Bouyancy Control Device (BCD)



## Description

This is a new BCD, developed based on opinions and requests we gathered on the previous model TAS BC, from professional divers who perform professional diving work, search and rescue, underwater photography and etc.

## Features

Type	Back Float Type
Color	BK
Size	Free Size
Bladder Material	420D Nylon (Laminated)
Buoyancy	13.0kg
Weight	Approx. 3.75kg (Dry State)
Exhaust Valve	Pull Knob Type Exhaust Valve (Left Waist) Quick Exhaust Valve (Left Shoulder)
Others	Four Stainless D-rings Equipped as Standard (2 D-rings on Shoulder Belts, D-rings beneath Weigh Pockets) Tensioning Buckle Equipped as Standard bio-tank lock2 Equipped as Standard Quick Weight Release System Equipped as Standard (2 Weight Pockets on Both Side) Small Pockets Equipped as Standard (2 Small Pockets on Both Sides) Crotch Belt Equipped as Standard

## Specification

### bio-tank lock 2 Equipped as Standard



The synergistic effect of [bio-tank lock 2](#) equipped as standard and tension buckle , together with the use of a thin harness with high strength and light weight, create a sense of unity between the tank and harness, providing a high fit for divers.

### Two Sizes of Bladder, 6kg and 13kg



The 6Kg bladder, same as the TAS BC, is for divers who don't need a big buoyancy but want compactness. The 13Kg bladder with an increased buoyancy is for general diving to deal with heavy diving gears and equipment. Both bladder are donuts-shaped and have a good buoyancy balance. Furthermore, you can switch between those two sizes of bladder depending on the today's diving situation.

### Quick Weight Release System Equipped as Standard



It equips a quick weight release system on the left and right as standard. The each weight pocket can store our 3.5kg weight. Furthermore, it also equips a small pocket outside of the each weight pocket for storing small items. Since each of these pockets can be removed from the BCD body, it can be customized according to the diving situation today.



## Dive Smartwatch with Solar Powered

Solar powered and impact resistant computer diving watch.

Nitrox/air compatible with FO2 that can be adjusted in increments of 1% from 21% to 50% Nitrox (EANx).

Can send verbal alerts that can be heard underwater. Alerts verbal alerts include depth, decompression, change in depth and safety to stop.

Displays include world clock, stopwatch, night mode, dive mode (computer gauge), dive log, date of dive, date, dive count/day, entry time, exit time, dive time, water temperature, depth, warnings, and FO2, N2, PO2.



## Dive Goggle Tactical

Uses Anti-Reflective lenses that are able to reduce the reflection of sun or artificial light.

Skirting is made of thin silicone material and flexible so that it blends with the face, comfortable for long time use.

The distance between the left and right lenses is 0.5 centimeters, make the visibility wider.

Frame made of stainless steel anti-rust.

Can be paired with mask adapters camera and flashlight.



## Dive Goggle Tactical

Provides flexibility for divers as no hands are required to operate the action camera.

1 mounting adapter to place action cameras such as Gopro on the diving mask.

Can only be paired with Dive Goggle Tactical.

Provides flexibility for divers as it does not require hands to operate the dive flashlight.



## Fin

Fin diving designed to be used with Amphibious Boots.

Rubberized heel strap with size-adjusting belt.

Has a lighter weight than fin diving fins in general.

The fins on the diving fin are designed to make it easier for users to do kicking with various styles.

Color: black.



## Wet Suit

Made of 3 millimeter neoprene material.

Has a level of flexibility: high, comfortable and easy to use.

Pre-fitting and easy adjust body shape.

All seams use nylon thread, double stitched and special glue.

Zipper are located on the back, front and ankles.

Equipped with padding on the elbows, knees, and back for comfort long-term use.

Color: black.

## Gloves

Made of highly elastic neoprene material, with a thickness of 2 millimeters.

All seams are coated with waterproof adhesive, and quilted sewing system.

The outside is covered with Textured polyurethane, to facilitate handling and grip to the use of equipment.

Color: black.





## Scuba Diving Hood

Made of elastic neoprene material with a thickness of 3 mm. All seams are coated with waterproof adhesive, and quilted sewing system.

Color: black.



## Amphibi Boots

An amphibious boot designed specifically for diving and beach landings.

Has good drainage holes make water quickly drains out of the shoe when used from sea to land.

Has an upper sole sock-like material that can reduce sand when used on the beach.

The position of the eyelets is designed for long distance swimming.

Can be used with various types of fins diving.



## Tactical Dive Knife

Short size tactical dive knife Blade length 80 millimeters and handle 100 millimeters.

The blade is equipped with a serrated section.

Blunt blade tip.

Made from Titanium Alloy base material.

Equipped with a holster with a SQR (Secure Quick Release) system.

Total weight 100 grams.



## Tactical Belt Knife

The belt is made of neoprene and has 2 buckles that are easy to remove. Can be attached to the arms and thighs.



## Ballast Tactical Belt

Weight belt equipped with a coupling, and 4 pockets for placing weights.

Belt made of water-repellent material polyurethane coated.

Each pocket is equipped with velcro closure.

Equipped with two loops for hanging accessories.



## Lead

Lead weights 1 kg can be paired with weight belt consists of 4 weights.



## 1200 Lumens Tactical Dive Flashlight

Has an illumination or light power of up to 1200 lumens.

Can be mounted on Google Tactical Diving.

Maximum length 15 centimeters.

Lamp diameter 5 centimeters.

Uses a min 3watt LED light source.

Weight 150grams without battery.

Color: black.



## Waterproof Weapon Bag

Waterproof gun bag designed to carry a variety of weapon sizes ranging from M4 to M60.

Capacity: 30.5 liters.

Button closure type: Zip Dry.

Opening width 32 centimeters.

Dimensions: 108 x 40 centimeters.

Color: black.

## Mesh Bag

Bag for carrying scuba dive equipment Using mesh material make the scuba dive equipment is easy to dry.

Can be folded into a compact when not in used.

Dimensions 75 x 45 x 30 centimeters.

Color: black.





## Utility Waterproof Bag

Waterproof equipment bag designed to carry various types of equipment.

Dimensions: 45 x 36 centimeters.

Capacity: 43.5 liters.

Button closure type: Zip Dry.

Opening width 40 centimeters.

Color: black.



## Dive Boots

Uses a strong zipper. There are rubberized protectors on instep and heel.

Has a wide fit size.

The upper part of the shoe is made of 5mm neoprene.

## Snorkel

Polyurethane snorkel has a soft and comfortable mouthpiece.

Comfortable for the user.

Weight: 67gram.

Color: black.





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