



MAKE DIVING SMART

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AKUANA[®]

BCD User's Guide

Only the best satisfies the best

www.akuana.cn

Congratulations on purchasing a AKUANA BCD. We are confident that you will enjoy extraordinary performance from our BCD which is designed and manufactured using the most advanced technology.

We thank you for choosing AKUANA and wish you a future of safe dives and underwater enjoyment!

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1. Warnings

WARNING

This manual must be read and understood entirely before using the product. It is advised that you keep this manual in your possession during the entire life of your BCD.

WARNING

When diving you must follow the rules and apply the skills taught by a recognized scuba diving Certification agency. Before taking part in any diving activity, it is mandatory to have successfully completed a scuba diving course covering both theoretical and technical aspects of diving.

WARNING

This instruction manual does not replace a diving instruction course!

2. CE Certifications

All AKUANA BCD described in this manual have obtained the CE Certification issued by RIN according to European directive 89/686/EEC. EN 250: 2000 for body harness that provides diver with a device for fixing the tank to body. It has not to be used deeper than 51m.

WARNING

BCD is not a breathing device. Never breath from a BCD. Your BCD may contain gas residue, liquid, or contamination that may result death if inhaled.

WARNING

In accordance with European standards, our BCDs can only be considered certification where all components are present, as per the original AKUANA configuration, including the low pressure hose supplied. Any variation of the original configuration invalidates conformity to European certification standards.

3. Important notice

1. Use the equipment according to the instruction of the manual.
2. Use of the equipment is limited to the uses described in the manual or for the application approved in the writing of AKUANA.
3. Cylinders must only be filled with atmospheric compressed air, according to the EN 12021 norm. Should moisture be present in the cylinder, beside causing corrosion of the cylinder,

it may cause freezing and subsequent malfunction of the regulator during dives carried out in low temperature conditions (lower than 10°C).

4. Cylinders must be transported according to local rules provided for the transport of dangerous Goods. Cylinder use is subjected to the laws regulating the use of gases and compressed air.

5. Equipment must be serviced by qualified personnel at the prescribed intervals. Repairs and maintenance must be carried out by an Authorized AKUANA Dealer Service facility and with the exclusive use of original AKUANA spare parts. Should the equipment be serviced or repaired without complying with procedures approved by AKUANA or by untrained personnel or not certified by AKUANA or should it be used in ways and for purposes other than specifically designated liability for the correct and safe function of the equipment transfers to the owner/user. AKUANA refuses all responsibility for damages caused by non-compliance with the instructions contained in the manual.

WARNING

Always perform a pre dive or post dive check of the BCD.

4. General information

Primary purpose of the Buoyancy Compensator

The primary purpose of a Buoyancy Compensator is to make you more comfortable by enabling you to maintain neutral buoyancy at depth. You are neutrally buoyant when you maintain a specific depth without expending significant physical effort prevent an ascent or descent from that depth.

Choose the right size

25/30lb SEAL BCD is suitable for recreational divers and dive shop use. It can be used only in single tank configuration.

50lb SEAL BCD is suitable for technical explorers, no matter you are a cave, wreck or deep diver. Made out of robust and durable materials for maximum resistance to punctures and abrasions. It can be used only in twin tank configuration.



25lb



30lb



50lb

SEAL series materials

- * Black 1680D nylon and Colorful 1000D Cordura nylon non-fade outer bag
- * 210D inner bladder
- * YKK zipper.
- * 316 Stainless steel backplate/ Aluminum backplate/ Carbon fiber backplate



Features:

- * Totally adjustable, affords unparalleled custom fit for every individual; uncluttered chest area delivers unrestricted movement for the arms and shoulders.
- * Less BCD results in reduced water displacement, consequently decreasing the amount of weight needed, making the dive more enjoyable and safer.
- * Easy to take apart and pack away for traveling.
- * Allows you to dive comfortable with a BCD of superior quality and design.
- * Back plate shifts the weight to the center of gravity improving diving trim and again reducing the weight on the weight belt.
- * Streamlined, prevents unnecessary drag and minimizes swimming effort.
- * Rear over-pressure valve, makes it effortless to vent gas during the dive.
- * Small toggle on over-pressure valve makes it easy to locate, even with thick cold water gloves.
- * Easily replaceable bladder.
- * Quick-adjustment weight pockets ensure best balance.

Extreme series sidemount

- * 35lb lift capacity.
- * Bladder made of high-tech materials used for bullet proof vest.
- * Light weight and cut proof.
- * Molle weight system on the bladder.
- * Including one pair of trim weight pockets.
- * Patented weight fixing parts on dorsal harness.
- * Nylon upper back plate. More comfortable and lighter weight.
- * Reversible inflator can be positioned on left or right side.
- * Low profile exhaust valve.



! WARNING

Do not use BCD as a lift bag for bringing object to surface. These object may get loose when ascent Causing uncontrolled ascent.

5. Adjustment of the BCD

Seal backplate series



1. Proper placement of the backplate.



2. Allowing for at least two fingers of the spacing between the harness strap and your exposure suit.



3. Locate the proper location of the Chest D-rings.



4. Adjustment of the proper location of the waist buckle.



5. Adjusting rear triglide fastener and crotch strap.



6. Locate the proper location of the rear D-ring.



7. Adjustment of the left hip D-ring position.



The Hummingbird side mount system



The adjustment of the side mount BCD

1. Take off the wing. Release all the belts. Starting from dorsal belt.
2. Adjust dorsal belt length to 50cm(+/-3cm) (between upper nylon pad and waist pad. Adjust sidemount tank neck and bolt snap distance to 50cm(+/-3cm) . The distance between chest and waist D-ring will be around 40cm. This adjustment makes sure the tank can fit to anybody.
3. Adjust the crotch strap length.
4. Adjust the shoulder belt and the upper pad position.
5. Adjust the tank holding buggee and the tri-glide position.
6. Adjust the waist buckle position.
7. Adjust all the D ring positions.
8. Adjust the butt plate position. So the wing can be flat after fixing to the plate.
9. Fix the wing to the butt plate and the upper plate.
10. Adjust the buggee length which connects the wing and the butt plate.



WARNING

For proper adjustment of side mount systems, you need to get enrolled in proper side mount diving course.

6. Weight system

AQUANA BCD use stainless steel backplate or weight pockets as the ballasting systems. You can adjust the balance by moving the position of the weight pockets.

Different weight systems

Stainless steel backplate : 2.85kg

Aluminum backplate : 0.7kg

Primary weight pocket : Fit up to 3.5kg each

Trim weight pocket: Fit up to 2kg each



Placement of Trim weight pocket

1. Tank belt or harness.



2. Aluminum backplate.



3. Molle systems.



WARNING

Backplate weights and weight pockets are not designed to be released in an emergency. Failure to create adequate positive buoyancy in an emergency situation may result in injury or death. The user of the BCD must ensure easily and rapidly BCD takeoff on surface in the situation of no gas supply and BCD leak. Please do the exercise under direct supervision of recognized diving instructor.

WARNING

The user of the BCD must not carry excessive weight. The loss of buoyancy may result in injury or death. The user must always dive with a buddy and reserve enough gas for ascent.

7. BCD valve

The BCD has power inflator valve and manual dump valve. The user must obtain proper dive training from recognized dive agency before using the BCD.

Power inflator



Over pressure valve



The over pressure valve The over pressure valve prevents over inflation of the BCD. If the internal pressure exceeds the spring pressure in the over pressure valve, the valve opens automatically to release the air.

WARNING

Keep water out of the inflatable air cell of the BCD. Repeated use of the oral valve or the Over pressure Valve may allow water inside the BCD, reducing the amount of buoyancy provided by the BCD. This could result in injury or death. Drain all water out of the BCD prior to every use.

8. Proper assembly of Seal BCD

WARNING

Make sure the tank belt go through both the slot in the backplate and the bladder. Improper assembly will cause damage to the bladder and danger to death!



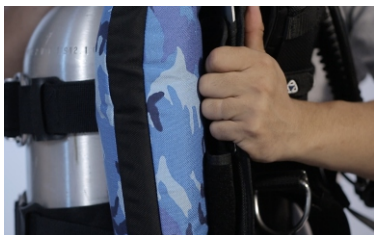
1. Put two tank belt on the tank.



2. Make sure the back plate is parallel with the face of tank valve and at the proper height.



3. After clinching the tank belt buckle, the backplate should not move when you shake it.



4. Hold the bladder and lift the system. Check if the tank belt is tight enough.



9. BCD examination procedure and service

WARNING

Do not use BCD that does not pass the prediver, diver and postdiver examination points.

Prediver Visual check

1. Examine the entire BCD for cuts, punctures, excessive abrasion, missing hardware.
2. Inspect power inflation valve, dump valve and overpressure valve for crack and damage.
3. Operate the inflation valve, dump valve and overpressure valve.
4. Inflate the BCD with oral valve until it is firm. Wait 30 seconds. Check the BCD for loss of air.
5. Soak the cylinder band(s) and fit to scuba cylinder, pull upon the BCD while attached on the SCUBA cylinder, checking that the BCD will not slip while diving.
6. Check the weight system of the BCD.
7. Check the valve operation and visually inspect your BCD and your buddy's BCD.

WARNING

Do not dive with a BCD that is damaged, leaks air, or does not function properly. Terminate any dive as safely and quickly as possible if the BCD becomes damaged, leaks air, or does not function properly.

Post-Dive :BCD Cleaning and examination and Storage

With proper care and service, your BCD should provide years of enjoyment. Maintenance and care procedures must be observed and are as follows.

1. Rinse the BCD thoroughly in fresh water. Do not use aggressive solvent and/or cleansing liquid
 - Fill the BCD Inner Bladder, approximately 1/4 full with clean fresh water through the Oral valve.
 - Orally inflate the BCD and shake to distribute the water inside of the BCD.
 - Rinse the entire BCD with fresh water by dipping in a tub.
 - Rinse all the valve to make sure all the sand and debris is removed.
2. Dry the BCD. If hanging, make sure it is not in direct sunlight. Dry completely if storing. Slightly inflated.

WARNING

Avoid prolonged or repeated exposure to chlorinated water.

Storage

Store your BCD, after it has fully dried, by partially inflating and then placing it in a cool, dark location. Ultraviolet rays will shorten the life of the fabric and cause colors to fade.

Inspection and Service Interval

BCD should be inspected and maintained at an Authorized Service Center at least once every two years, and more often if you dive frequently.

Any damage caused due to failure to maintain the BCD is not covered by the warranty.



WARNING

Due to heavy usage, BCD used for rental/diving centers, professional purposes or other intensive use must be checked at least every 6 months. Overall conditions and main safety parts such as the bladder, valves, elbow, corrugated hose must be inspected.

10. Warranty

AKUANA offer 5 years warranty for the valves, bladder and the corrugated hose.

Warranty claims must be returned with All dated proof of purchase to an Authorized AKUANA Dealer. Product serial number and the proof of purchase must match.

Visit www.akuana.cn for the dealer nearest you.

Warranty does not cover:

- * Loss.
- * Defects, damage or deterioration due to wear and tear to excessive or collision.
- * Damage caused by exposure to heat, prolonged sunlight or corrosive chemicals.
- * Damage due to poor maintenance, over use, alteration, negligence.
- * Damage due to repair by someone other than AKUANA or an Authorized AKUANA Dealer.
- * Issues with look that do not affect function of the product are not covered under warranty.