



HunterPac BCD

User Manual

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Product Description

For the avid spear fisherman, the HunterPac BCD takes all of our great technical and recreational BCD features and combines them with a few spear fishing essentials creating a BCD that excels in any type of open water diving. Spear fishing today and shooting pictures tomorrow, the HunterPac BCD makes it possible with all of its features and functions.

Providing 35 lbs. (15.8 kg) of lift, the HunterPac 360-degree, donut wing supports aluminum and steel tanks with a maximum weight of 32 lbs. (14.5 kg) with optional pockets. With an integrated Gusset Control system that reduces “taco” effect and promotes effective streamlining, the HunterPac puts buoyancy where it is most needed (throughout the torso supporting the weight of the tank) for superior horizontal trim. Coming standard with a shoulder exhaust pull-dump and a waist-level exhaust valve, trimming the BCD is easy. The donut shape and design of the air cell (wing-style) provides maximum comfort throughout the dive with no squeezing or restrictions that can happen with a typical jacket-style BCD. Floating on the surface in a vertical position in the HunterPac is not a problem; it won’t tip you over.

Diving in a wetsuit or drysuit, warm water or cold water, steel tank or aluminum tank, the HunterPac will adapt. With an extremely comfortable soft back plate and lumbar pad and the versatile one-size-fits-all adjustable harness with cross-chest strap and crotch strap, the HunterPac can be sized for any diver for a perfect custom fit. Double stainless steel cam straps that accommodate almost any single tank configuration and the ability to add optional weight pockets gives you unlimited options.

Carrying a spear fishing stringer or a ZooKeeper's Lionfish unit is not a problem with the HunterPac’s configurable D-ring mounting points for gear placement. Position the existing D-rings anywhere you want or add additional D-rings is your choice.

Extremely rugged, the HunterPac is designed for long-term use based on a hybrid design of our technical BCDs. Using the same materials and craftsmanship with a simplified design, the HunterPac weighs in at only 6.2 lbs. (2.8 kg) making it ideal for travel. Its ruggedness is enhanced with a heavy-duty, 210-denier nylon laminated bladder.



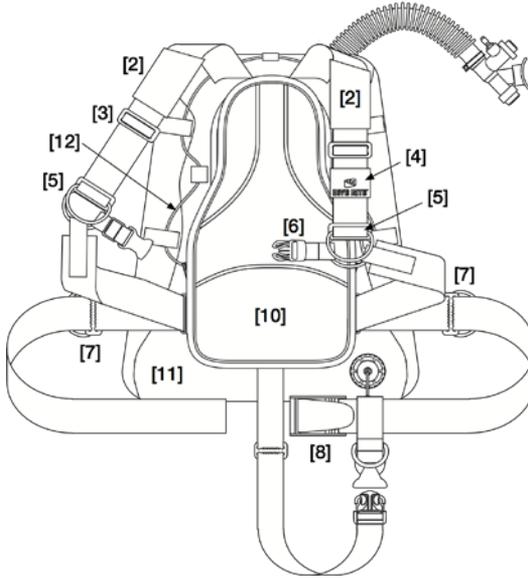
Tech Specs

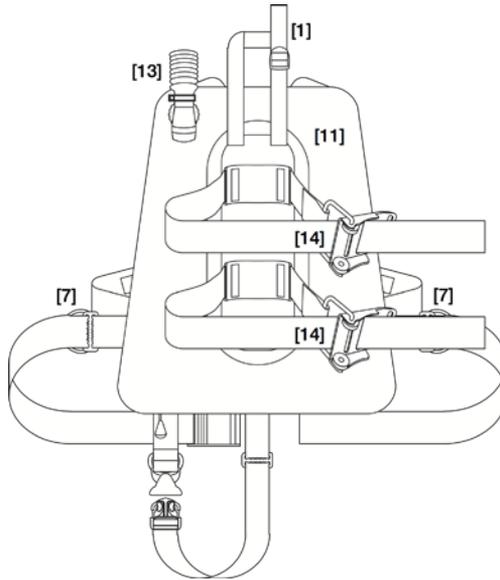
- 210-denier nylon laminated bladder
- Wing Gusset Control system for streamlining
- Lift: 35 lbs. (15.8 kg)
- 22-inch (55.8 cm) LP inflator hose
- 16-inch rapid exhaust (pull-dump)
- 2 bent chest D-rings
- 2 waist D-rings
- Stainless steel belt buckle
- Cross chest strap
- 1.5 in. (3.8 cm) crotch strap (D-ring to accommodated up to 2" crotch strap)
- Two 36-inch (91.4 cm) stainless steel cam straps
- Optional weight pocket systems and butt plate
- Weight: 6.2 lbs. (2.8 kg)
- Size: 22.5-in H x 19-in W (57.2 cm x 48.3 cm)
- Made in the USA



Features and Functions

The HunterPac has many features in its design. Each feature is detailed below with its position on the HunterPac and the function it performs.





[1] Tank adjustment strap: Used to maintain the HunterPac’s height on a cylinder. The strap loops over the valve and sits on the neck of the cylinder.

[2] Padded shoulder straps: Provides the comfortable secure fit.

[3] Shoulder-strap adjustment point: Enables sizing the shoulder straps and allows for adding or removing D-rings from the shoulder strap.

[4] Floating, self-closing “epaulet” on the left side: Used to keep inflation hoses secured and under control.

[5] Two-inch (50 mm) shoulder D-rings: One D-ring on each shoulder strap is bent at a slight angle for better access and can be adjusted for height.

[6] Cross-chest strap: Used to position the shoulder straps on the chest for a proper comfort and fit.

[7] Two-inch (50 mm) waist-strap D-rings: One D-ring on each side of the waist-strap is adjustable to any position on the waist-strap.

[8] Waist-strap and Buckle: Two-inch (50 mm) waist-strap webbing with a stainless quick-release buckle, which is used to size the waist strap. The waist-strap design enables easy mounting of pockets and other accessories.

[9] Crotch strap attachment D-ring: D-ring for attaching the 1.5-inch crotch strap. Other crotch-strap widths can also be accommodated.

[10] Back plate and lumbar pad: Soft, padded back plate that is comfortable diving in any type of exposure suit.

[11] BC Wing: The wing, in its compact donut shape, holds the air for buoyancy control. The inner bag is replaceable in the event of a tear or abrasion.

[12] Gusset Control system: Bungee cord that holds the wing in place to help reduce the “taco” effect of the wing around the cylinder. This promotes effective streamlining.

[13] Inflator: Used to inflate and deflate the wing. The low-pressure inflator hose connects to the inflator. The mouthpiece is used to manually inflate the BC and for dumping air from the BC.

[14] Cam-straps: Two, two-inch (50 mm) cam straps that secure the BC to a cylinder. They can accommodate most any single cylinder.

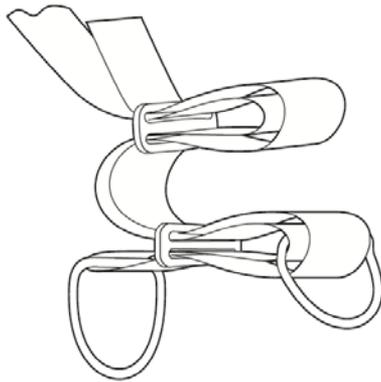


Adjusting the HunterPac

Adjusting the HunterPac to fit properly is essential for comfort and good streamlining. The HunterPac should fit snugly and securely no matter whether you're diving a wetsuit, drysuit, or thin skin suit. The shoulder, waist, chest, and crotch straps easily adjust for a proper fit.

To adjust the HunterPac:

1. Loosen the shoulders straps using the two belt slides just above the D-rings on the shoulder straps.



2. Loosen the waist strap at the buckle.
3. Loosen the cross-chest strap and crotch strap.
4. Wearing your typical exposure suit, put on the HunterPac.
5. Fasten the waist strap so that it's comfortable.

Position the buckle so that it's just to the right of center on your body. This allows the crotch strap waist attachment point to be positioned directly above your crotch.

6. Fasten the cross-chest strap so that the shoulder straps are parallel on your chest, but do not tighten it.
7. Partially tighten the waist and shoulder straps.
8. Partially tighten the cross-chest strap so that the shoulder straps are parallel to each other on your chest and shoulders.
9. Repeat steps 6 and 7 until you achieve the most comfortable fit.

10. Fasten and tighten the crotch-strap until it fits securely.
11. Rock gently from side to side and move around to make sure the harness fits tightly and is secure.
12. Fully inflate the wing to ensure it does not restrict your breathing or movement.

CAUTION: Properly fitted, the harness should not restrict your breathing when the BC wing is fully inflated.

13. Weave any webbing loose ends through the belt slides so that they are securely in place.



Attaching the HunterPac to a Cylinder

The HunterPac is easily attached to an aluminum or steel single cylinder using the two stainless steel cam-bands provided. The cam-bands can be easily removed for cleaning or transport.

To attach the HunterPac to a cylinder:

1. Thoroughly soak the cam-straps in water and allow them to stretch.
2. Loosen the cam-straps to fit the size of the cylinder.
3. Slide the cam-straps over the cylinder.
4. Hook the tank-height adjustment strap over the cylinder valve and position around the neck of the cylinder.

See “Adjusting the Tank Height Adjustment Strap” for more information.

5. Position the HunterPac to the desired height on the cylinder.

Note: When the tank height adjustment strap is adjusted correctly, you should be able to reach back and turn on/off your cylinder’s valve.

6. Tighten the cam-straps until they snap tightly around the cylinder.
7. Pick up the unit by the harness shoulder straps and shake it up and down.

Make sure that the tank is fastened securely and that the band is tight enough to prevent it from coming undone accidentally. If the cam-strap is not tight enough, tighten it and perform the shake test again.

WARNING: Before each use, check the HunterPac cam-bands, straps, and the waist strap for wear. Have an authorized repair facility replace worn or damaged items before use. Failure to replace worn or damaged tank buckles and bands could lead to loss of cylinders or of the HunterPac assembly itself. This could lead to serious personal injury or death.

Using the Tank-Height Adjustment Strap

The tank-height adjustment strap hooks over the cylinder valve and is positioned at the neck of the cylinder. It is used to maintain a consistent height position for the HunterPac each time you attach it to a cylinder. The strap can



also be used as a handle to carry the HunterPac when it is not attached to a cylinder.

The tank-height adjustment strap fastens and adjusts using a belt slide. You need to experiment with the adjustment strap until the height is right for you.

Note: When the tank height adjustment strap is adjusted correctly, you should be able to reach back and turn on/off your cylinder's tank valve.



Adding and Removing D-rings

To add or remove D-rings from HunterPac shoulder or waist straps, you need to thread or unthread the 2.0-inch (50 mm) strap webbing through a stainless belt-slide (weight retainer), which holds the D-ring in place on the strap.

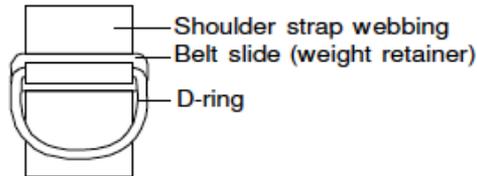
Note: It is recommended that you only add or remove D-rings from one shoulder strap at a time. This way, you can refer to the other shoulder strap if you have difficulty in routing the webbing strap correctly.

To add or remove D-rings:

1. Pass the loose end of the webbing strap through the plastic belt slide (shoulder straps and left-side waist strap).
2. Pass the loose end of the webbing strap through the stainless-steel belt-slide holding the existing D-ring (or, on the left-side waist strap, through the cam buckle and then through the belt-slide).

Note: Only unweave the belt-slides if you want to remove the D-ring.

3. Remove or add D-rings to the strap as desired.
4. Once the D-rings are in place on the strap, route the webbing-strap back through the belt-slide to hold the D-ring in place. See diagram below.

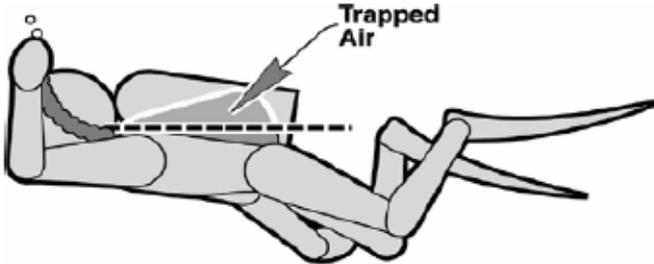


5. Route the webbing strap back through the plastic belt slide (for shoulder straps) or cam buckle (waist strap) to hold the loose end of the strap in place.
6. On the shoulder straps, tuck the loose end of the strap under the neoprene shoulder pads.

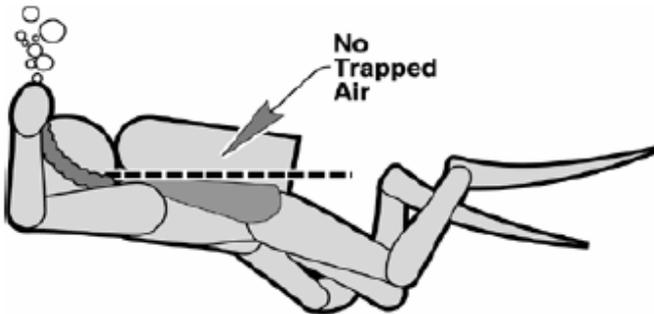


Using the Gusset Control System

The integrated Gusset Control system is designed to reduce the “taco” effect (BC tank wrapping). Using a single cylinder with a wing style BC can cause the BC to wrap (taco) around the cylinder creating drag and reducing the ability to easily exhaust air because the air gets trapped above the level of the BC exhaust hose elbow when the diver is in a normal swimming position.



By using the Gusset Control system, the wing is held in place across the divers back and does not wrap around the cylinder. With the wing in this position, effective streamlining is accomplished, and the HunterPac puts buoyancy throughout the torso supporting the weight of the tank for superior horizontal trim. It also keeps the wing below the level of the exhaust hose elbow, allowing the diver to exhaust air from the BC using the remote exhaust valve in the hose elbow or by holding the end of the hose up and depressing the oral inflation/manual deflation button.





Care and Maintenance

With proper care and service, your HunterPac can provide you with years of safe, enjoyable use. Without proper care, your HunterPac system can become damaged and be either unserviceable or dangerous to use.

Note: Stainless steel can develop rust even when properly cared for.

General Maintenance Procedures

- The sun's ultraviolet rays can fade and damage the HunterPac, shortening its life. Store the HunterPac away from sunlight and excessive heat. Although the HunterPac is designed for use in water as cold as 28 F (-2 C) and as warm as 104 F (40 C), Dive Rite recommends storing the HunterPac between 0 and 104 F (-18 to 40 C).
- Keep sharp objects from coming in contact with the HunterPac.
- Take care when handling the HunterPac. Do not rest heavy objects on the BC or drag it over rough surfaces.
- Periodically lubricate the low-pressure inflator hose coupling and quick disconnect plug with silicone lubricant.
- Due to the type of material used in the construction of the HunterPac, clean it only with fresh water and mild detergent. Chemicals, strong detergents, and cleaning solutions can damage the HunterPac and shorten its life.
- Have the HunterPac inspected yearly by your local, authorized Dive Rite dealer.
- Avoid excessive pool use. Excessive use in chlorinated water can lead to premature discoloration and shorten the products' life.
- Rinse the HunterPac thoroughly after each use and allow it to dry completely before storing. Dive Rite recommends Salt-X for salt removal (www.salt-x.com).

WARNING: Do not disconnect the large-diameter inflation hose elbow/remote exhaust from the BC body. Detaching and re-attaching this component should only be attempted by a qualified technician working under the supervision of an authorized Dive Rite dealer or distributor. Attempts to remove and/or

replace this component without the necessary training and tools may result in permanent damage to the inflation hose assembly or BC.

Cleaning the Inside of the BC

The greatest threat to the BC's long life is the presence of contaminants inside the BC. Salt water, when it evaporates, leaves behind razor-sharp crystals that can easily puncture the BC's fabric. Other substances can cause the inside surfaces of the BC to permanently stick to one another.

To clean the inside of the BC:

1. Drain any water that may have collected in the BC during the dive.
To do so, partially inflate the BC and then turn it over so that the hose elbow is at the lowest point. Depress the manual deflator button while squeezing gently on the BC. Continue to do so until all of the water is out.
2. Refill the BC with fresh water until it is approximately one-quarter full.
3. Inflate the BC the rest of the way with air.
4. Turn the BC over and over, so that the fresh water has the opportunity to rinse all of the BC's interior surfaces.
5. Drain the fresh water from the BC (see Step 1).
6. Repeat steps 2, 3, and 4 one or two more times.
7. Rinse the exterior of the BC by immersing it in a tub of fresh water or spraying it gently with a hose.
8. Inflate the BC until it is nearly full and let it stand for 30 minutes. After 30 minutes, check the BC for loss of air.
9. Lay the BC out flat or hang it upside down for several hours to allow it to dry thoroughly.
10. Store the BC partially inflated in a dry, dark place.



Warnings to Note Before Use

Before using your HunterPac, there are several things you must do and be aware of. These include:

- Obtain a minimum of entry-level open-water scuba diver training and certification from a recognized diver-training organization.
- As part of this training, you must master all the basic skills of buoyancy control, including proper weighting, ascents, descents, surface swimming and resting, and establishing neutral buoyancy under water. This training must also cover (both at the surface and underwater) the use of buoyancy control devices (BCs), oral inflation of BCs, low-pressure inflation of BCs, and deflation of BCs using a variety of methods.
- You must read and understand this owner's manual and all other warnings that accompany the product. If you do not understand some part of this manual, contact Dive Rite or your local authorized Dive Rite dealer.
- Failure to follow the instructions given in this manual or to heed the warnings it provides can cause equipment loss or damage, serious personal injury, or death.
- Misuse of the HunterPac can result in uncontrolled ascents, descents, or loss of buoyancy control. This, in turn, can cause serious personal injury or death.
- The HunterPac is NOT a United States Coast Guard approved personal flotation device (PFD). It will not provide face-up flotation for all users and conditions.
- These wings are only to be used with standard air or enriched air Nitrox with an oxygen concentration not to exceed 50%. Use with a greater concentration of oxygen may create a fire hazard and expose the user to risk of serious injury. For safety reasons, it is strictly forbidden to change from air to Nitrox and vice versa unless the buoyancy compensator has been inspected and properly cleaned by competent personnel. Remember that the depth and the duration of the dive are strictly dependant by the percentage of oxygen in the breathing gas.
- In case of contamination with oil, the wing must be inspected and cleaned by competent personnel.

- When a regulator and inflator hose are connected to a cylinder, always open the cylinder valve slowly, especially when using Nitrox.
- The HunterPac must be used with compressed air compliant with standard EN 12021.

Inflation and Deflation Warnings and Cautions

- When using a remote exhaust pull-dump, DO NOT continue to pull if air is not coming out. Adjust your body position so that the exhaust valve is at the highest point and then LIGHTLY pull down on the exhaust again. Do not yank on the exhaust as doing so could cause damage to the BC.
- Do not attach the low-pressure inflator hose to a high-pressure air source, such as the HP (high pressure) port of a regulator. The BC's low-pressure inflator and its supply hose can only handle pressures of approximately 150 pounds per square inch (10 bar) over ambient pressure.

Note: Read your regulator manufacturer's instructions concerning the proper connection of low- and high-pressure hoses. Trained technicians working for factory authorized dive centers should only install or change hoses. Product damage can result from improper hose connection.

- Always inflate the BC slowly, both at the surface and underwater. Rapid inflation underwater can result in uncontrolled ascents. Uncontrolled ascents can cause serious lung overpressure injuries, such as Arterial Gas Embolism (AGE). Serious overpressure injuries can result in death.
- Maintaining a safe rate of ascent requires training and practice. The BCs' overpressure relief valve does not control or prevent uncontrolled ascents.
- These instructions do not incorporate all of the steps required to orally inflate the BC above or below the water. Oral inflation of BCs underwater requires special training and practice. This should first be attempted under controlled conditions and under the supervision of a certified instructor.
- Never breathe from the BC's oral inflator/manual deflator mouthpiece. The BC may contain contamination or gas residue that may be hazardous if inhaled.
- Use of the oral inflator/manual deflator or overpressure relief valve for deflation may allow water to enter the BC. Repeated deflation of the BC under water may allow enough water to enter the BC to substantially

reduce the BC's lift capacity (buoyancy) or interfere with its ability to allow the user to control buoyancy.

Note: If you have questions regarding any of the information you find in this manual or — equally important — questions pertaining to information about the HunterPac you cannot find in this manual, contact your local authorized Dive Rite dealer. If there is no authorized Dive Rite dealer in your area, contact Dive Rite directly, using the contact information appearing in this manual.



Warranty Information

The Dive Rite HunterPac carries a limited lifetime warranty. Dive Rite will — at its sole discretion — repair or replace a HunterPac proved to be damaged by faulty manufacture or material, at no cost, for the lifetime of the HunterPac.

This warranty applies only to the original retail purchaser. It does not cover commercial or rental use, nor does it extend to units purchased from other than an authorized Dive Rite dealer.

This warranty specifically excludes color changes, light fastness, or fading. Dive Rite does not accept responsibility for stains or transference or bleeding of color to other items.

If we deem a HunterPac component to be beyond repair — through no fault of the user — then, and only then, will we replace the affected component(s).

To make a claim under this warranty, the owner must have registered his/her warranty using Dive Rite's website (www.diverite.com). All warranty repairs (international or domestic) *must* be accompanied by a copy of the purchase receipt. For warranty repairs (international or domestic) the product must be returned to the *store* where the item was purchased or directly to Dive Rite. A Return Authorization must be obtained by calling Dive Rite corporate offices (386-752-1087) to send items to Dive Rite. No warranty service will be performed for other than registered owners. **Note:** Local dealers and distributors are not responsible for service of items purchased from unauthorized dealers, Internet dealers, or dealers from other territories.

This warranty becomes void if the HunterPac system components are damaged by anything other than normal recreational diving use, or if they have been serviced or repaired by other than authorized Dive Rite dealers.

Repairs made under this warranty will not extend the warranty period.

All further claims, especially for damage after diving accidents, are excluded from coverage under this warranty.

Dive Rite has no obligation to honor any extension of this warranty.

This warranty is in lieu of all other warranties, expressed or implied. No other person or representative is authorized to assume for Dive Rite any other liability in connection with the sale of this product.

Activating and Utilizing your Warranty

1. To activate your warranty, you must register your HunterPac within 30 days of purchase through our online product warranty registration. This is located within our website at www.diverite.com.
2. Proof of original ownership is provided by your purchase receipt and should be retained for your records.
3. If you intend to receive your service directly from Dive Rite, you must first obtain a Return Merchandise Authorization (RMA) number by calling Dive Rite at 386-752- 1087. Your RMA number is to be printed on the address label of your package.