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**BC2071, BC2077, BC2060, BC2030,  
BC2074, BC2083, BC2073**  
**Travel, Venture, Trek, Classic, Rec,  
Nomad, and Super Buoyancy  
Compensator Wings**

## Product description and specifications

Each of the wings (buoyancy compensators) provides superior performance, reliability, and durability. They range from compact travel size to maximum lift with redundant bladder for anything from single tank open water diving to extreme technical diving.

All wings can be purchased and fitted with a standard inflator or with the Rite-Source Integrated Inflator/Octopus. All wings are available with Rapid Exhaust with a 16-inch corrugated hose or elbow. With an elbow, there is a choice of hose lengths for the corrugated and LP inflator hoses. The corrugated hoses are available in 12, 16, and 22-inch lengths. The LP inflator hoses are available in 15, 22, 27, and 34-inch lengths.

### Travel wings (BC2071)



Travel wings are the most compact BC. They can provide up to 30-pounds (14 kg) of buoyancy and can accommodate a back-mounted single cylinder of up to 95 cubic feet (15 liters). The outer shell helps them maintain a streamlined shape. A 27-inch (69 cm) low-pressure inflator hose is standard. Travel wings are designed specifically for use with the TransPac harness.

### Venture wings (BC2077)



Venture wings are a compact BC designed specifically for applications combining single cylinders with a rigid back plate/harness configuration or TransPac harness. They can provide up to 45-pounds (20 kg) of buoyancy for use with the largest single cylinders. The outer shell is constructed of heavy-duty ballistic nylon. A 27-inch (69 cm) low-pressure inflator hose is standard.

### Trek wings (BC2060)



Trek wings provide up to 40 pounds (18 kg) of buoyancy. They are best suited for use with single cylinders of any size and with lightweight to medium-weight double cylinders of up to 83 cubic feet (13 liters). Trek wings also incorporate a built in gusset control cord to help divers manage the shape and lift capacity of the BC. A 27-inch (69 cm) low-pressure inflator hose is standard. Includes 2 Assembly Screws to attach the wing to the TransPac.

## Classic wings (BC2030)



Classic wings provide up to 59 pounds (27+ kg) of buoyancy and are designed for use with medium- to heavyweight doubles. Classic wings can accommodate up to two 104 cubic foot (16 liter) back-mounted cylinders and one 80-cubic foot (11 liter) stage bottle. A 22-inch (56 cm) low-pressure inflator hose is standard.

The Classic Wing is available as a redundant bladder model (BC2040). The redundant bladder model is only available in black. Classic wings with a redundant bladder provide up to 59 pounds (27 kg) of buoyancy in the primary bladder and 51 pounds (23 kg) of buoyancy in the secondary bladder. The secondary bladder is fitted with a 12-inch corrugated hose and inflator with a 22-inch (56 cm) low-pressure inflator hose. A protective nylon sleeve is included to prevent abrasion of this assembly.

**Note:** Classic wings should not be used with single cylinders.

## Rec wing (BC2074)



Rec wings provide up to 51 pounds (23 kg) of buoyancy. They can be used with both single and double cylinders. Rec wings can accommodate up to two 104 cubic foot (16 liter) back-mounted cylinders. Rec wings incorporate a built in gusset control cord. A 27-inch (69 cm) low-pressure inflator hose is standard.

The Rec wing is available as a redundant bladder model (BC2075). The redundant bladder model is only available in black. Rec wings with a redundant bladder provide up to 51 pounds (23 kg) of buoyancy in the primary bladder and 50 pounds (22 kg) of buoyancy in the secondary bladder. The secondary bladder is fitted with a 12-inch corrugated hose and inflator with a 22-inch (56 cm) low-pressure inflator hose. A protective nylon sleeve is included to prevent abrasion of this assembly. Includes 2 Assembly Screws to attach the wing to the TransPac.

## Super wings (BC2073)



Super wings provide up to 77 pounds (35 kg) of buoyancy in the primary bladder and 60 pounds (27 kg) of buoyancy in the secondary bladder, depending on the gusset control cord's tension. They can accommodate up to two 120 cubic foot (19 liter) back-mounted cylinders and two 80

cubic foot (11 liter) stage bottles. The wings incorporate a heavy-duty outer bag and redundant inner bladders with separate inflators. Two 22-inch (56 cm) low-pressure inflator hoses are standard. Super wings incorporate a built in gusset control cord.

SuperOne wings provide up to 84 pounds (38 kg) of buoyancy, depending on the gusset control cord's tension. They can accommodate up to two 120 cubic foot (19 liter) back-mounted cylinders and two 80 cubic foot (11 liter) stage bottles. The wings incorporate a heavy-duty outer bag and a single internal bladder. A 22-inch (56 cm)

low-pressure inflator hose is standard. SuperOne wings incorporate a built in gusset control cord.

**Note:** Super wings should not be used with single cylinders.

### Nomad wing (BC2083)



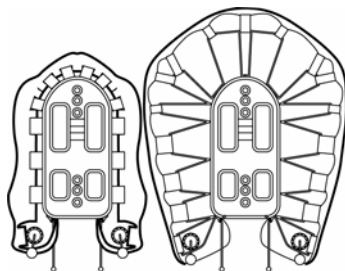
The Nomad wing provides up to 50 pounds (23 kg) of buoyancy and is designed to be used with the Nomad Expedition Harness. Nomad wings incorporate a built in gusset control cord. A 22-inch (69 cm) low-pressure inflator hose is standard.

## Using the gusset control cords

The gusset control cord on the Trek, Rec, and Super wings fulfills the following functions:

- When not inflated, the cord helps compress the BC to as small a profile as possible. This reduces drag and helps protect BC's from damage.
- By tightening the cord, users can limit lift capacity to only what's needed for a particular application (e.g. diving single cylinders generally requires less buoyancy than double cylinders). Reduced lift capacity also helps reduce the likelihood of uncontrolled ascents.
- Tightening the gusset control cord helps to prevent the BC from wrapping around the sides of single cylinders.

You can tighten or loosen the gusset control cord by adjusting the clips at each side of the base of the BC. When doing so, adjust both cords evenly.



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**WARNING:** Before using your Trek, Rec, or Super wings in open water or other, more challenging environments, spend time in a controlled environment, such as a pool, practicing venting your wings in a variety of positions. The inability to vent such a high-capacity BC quickly and efficiently can lead to dangerous, uncontrolled ascents. Such ascents can result in *serious personal injury or death*.

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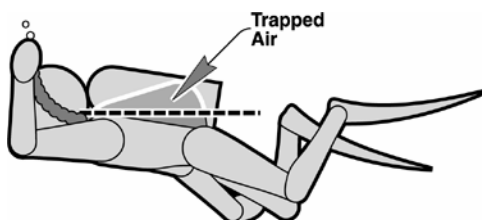
## Using a redundant BC

The Rec, Classic, and Super wings with redundant bladder contain a primary bladder, which you inflate and deflate through the large diameter inflation/deflation hose located on the left side of the BC. In the event of bladder or air hose failure, these BCs also contain a back-up bladder. You inflate and deflate the back-up bladder with the inflation/ deflation hose located on the right side of the BC. The secondary bladder is not designed to be used at the same time as the primary bladder to increase buoyancy; the secondary bladder is a back-up to the primary bladder. Due to construction constraints, the secondary bladder has less buoyancy capacity than the primary bladder. Do not plan dives with equipment that requires the maximum buoyancy of the primary bladder.

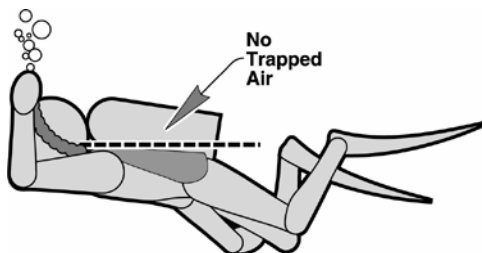
Keep the large-diameter inflation/deflation hose for the back-up bladder readily available as advised during training. We recommend that you keep a low-pressure inflator hose attached to this large diameter hose during each dive.

## Eliminating BC tank wrap

Before using a back-inflation style BC with single cylinders, there are some things you should be aware of. The figure below shows the tendency back-inflation style BCs have when used in conjunction with single cylinders. Air inside the cell causes the BC to wrap around the tank. This traps air above the level of the BC hose elbow when the diver is in a normal swimming position, which may interfere with venting air (deflating) the BC.



The figure below shows the benefit of eliminating tank BC wrap. The entire BC is now below the level of the BC hose elbow, allowing the diver to vent air (deflate) the BC either by 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. Travel wings, Trek Wings and Rec wings each employ a method of helping divers avoid single-tank wrap.



The size and shape of the Travel wing minimizes tank wrap. Keeping the gusset control cord as snug as possible, on the Trek and Rec wings, helps to keep single tank wrap to a minimum.

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**WARNING:** Do not use the Classic or Super wings with single cylinders. When using Trek or Rec wings with single cylinders, always keep the gusset control cords as snug as possible. Failure to do so can prevent the venting of air from the BC and can lead to uncontrolled ascents. This can further result in serious personal injury or death.

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## Care and maintenance

With proper care and service, your BC can provide you years of safe, enjoyable use. Without proper care, your BC 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 BC, shortening its life. Store the BC away from sunlight and excessive heat.
- Keep sharp objects from coming in contact with the BC
- Take care when handling the BC. 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 BC, clean it only with fresh water and mild detergent. Chemicals, strong detergents, and cleaning solutions can damage the BC and shorten its life.
- Have the BC 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 BC thoroughly after each use and allow it to dry completely before storing. Dive Rite recommends Salt-X for salt removal ([www.salt-x.com](http://www.salt-x.com)).

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**WARNING:** Do not disconnect the large-diameter inflation hose elbow/remote exhaust from the BC body. Detachment and re-attachment of 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.

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**Note:** 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 BC fabric. Other substances can cause the inside surfaces of the BC to permanently stick to one another. To prevent this from happening, follow these steps:

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 oral inflator/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. Inflate the BC the rest of the way with air.
3. Turn the BC over and over, so that the fresh water has the opportunity to rinse all of the BC's interior surfaces.
4. Repeat step 1 to drain the fresh water from the BC.
5. Repeat steps 2, 3, and 4 one or two more times.
6. Rinse the exterior of the BC by immersing it in a tub or fresh water or spraying it gently with a hose.
7. 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.
8. Lay the BC out flat or hang it upside down for several hours to allow it to dry thoroughly.
9. Store the BC partially inflated in a dry, dark place.

## **WARNINGS**

Before using your BC, there are several things you must do. 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.
- Misuse of the BC can result in uncontrolled ascents, descents, or loss of buoyancy control. This, in turn, can cause serious personal injury or death.
- 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.
- These BCs are NOT a United States Coast Guard approved personal flotation device (PFD). They will not provide face-up flotation for all users and conditions.

### **Inflation and deflation warnings**

- 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. Installing or changing hoses should only be done by trained technicians working for factory-authorized dive centers. 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 BCs 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

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

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.

All BC bladders have a limited lifetime warranty against RF welded seam separation. No warranty exists for bladder punctures.

If we deem a BC 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](http://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 BCs 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 BC within 30 days of purchase through our online product warranty registration. This is located within our website at [www.diverite.com/warranty](http://www.diverite.com/warranty).
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.