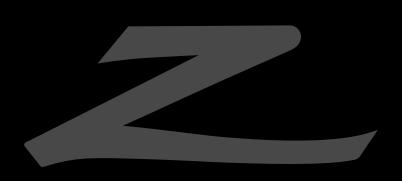
Zeagle



BUOYANCY COMPENSATOR OWNERS MANUAL

ULTIMATE PERFORMANCE IN ANY CONDITION



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1540 2200 W, Salt Lake City, UT 84116

T: 888-270-8595

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Importer - Huish Outdoors LLC

1540 2200 W, Salt Lake City, UT 84116 888-270-8595 | www.huishoutdoors.com

Huish Outdoors LLC European Market Representative:

Huish Outdoors LLC (BARE Sports)

Factory BLB019C, Bulebel Ind Estate

Zejtun, ZTN 3000 Malta

www.huishoutdoors.com | customerservice@baresports.eu

The following personal protective equipment is in compliance with the essential safety requirements of the Regulation (EU) 2016/425 and meets EN1809 requirements, certified by Italcert: Code 3 EC Type Examination

EC Type Examination

DNVGL, Brooktorkai 18, 20457 Hamburg, Germany T: +49 40 36149 6392 | www.dnval.com Manufacturing Site: Huish Outdoors Vietnam, Block BF .01-10Tan Thuan St., Tan Thuan EPZ, District 7 Ho Chi Minh City, Vietnam

SGS United Kingdom Ltd, Inward Way, Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, United Kingdom T: +44 (0) 151 350 6666 | www.sgs.co.uk

Testing and Certification Body: Department of PSA, DGUV Test Zwengenberger Str. 68 in 42781 Haan, Germany T: +49 (0) 2129 576 0 | www.bgbau.de/zs-bgbau-deutsch/pruefstelle

CE Certification

All Buoyancy Control Devices sold by Zeagle in the EU (European Union) meet the following Personal Protective Equipment requirements, and compliance with the following where applicable:

EN 1809:2014+A1:2016 Diving Equipment - Buoyancy Compensators - Functional and safety requirements

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment.

EN250:2014 - Respiratory equipment - Open-circuit self-contained compressed air diving apparatus. (As Applicable)

The following BC products have been CE Certified to EN1809 by DGUV: Zena, Express Tech (EN 1809;1997); Base +, Resort +, and Halo (EN 1809:2016)

The following products have been certified to EN1809 by Italcert S.r.l. (V.le Sarca 336 - 20126 MILANO) and conform to the Regulation (EU) 2016/425: Code 3 and Fury

V.le Sarca 336 - 20126 MILANO

www.italcert.it

T: 02 66104876 int 26



This manual contains information that may affect your safety.

Please read it completely before attempting to use the product. If you do not understand this information, contact your Authorized Zeagle Dealer for more information.

This manual contains information that includes intended use, warnings of possible hazards, maintenance or service and additional information that will make your diving experience more enjoyable and safer.

Zeagle offers a wide range of BC styles including back - inflated and jacket style models.

This manual includes information for the following models:

Base +, Bravo, Code 3, Covert XT, Express Tech Deluxe, Focus, Fury, Marina, Ranger, Ranger Jr., Ranger LTD, Rescue 911, Resort +, SAR, Scout. Stiletto, and Zena.

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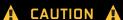
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INTRODUCTION

Certain information present requires direct attention with regard to safety. Use of these symbols indicates the following:



Indicates situation that may, if not avoided or uncorrected, result in serious injury or death.



Indicates situation that may, if not avoided or uncorrected result in minor injury or significant damage to the product.



Used to call attention to or to emphasize an important detail.

WARRANTY INFORMATION



A NOTE A



LIMITED LIFETIME GUARANTEE TO THE ORIGINAL OWNER:

Your BC is guaranteed against defects in materials and workmanship. This guarantee does not cover damages from accident, abuse, neglect, alterations, improper usage, normal wear and tear or failure to provide reasonable care. To validate your warranty you must register online within 30 days of purchase. All warranty claims will be handled through Zeagle, or an authorized Zeagle Dealer.

This warranty covers all Zeagle BCs with the exception of the Sport line, which is covered by at 2-year Limited Warranty.

Product Warranty Registration: www.zeagle.com/registration

SAFETY INFORMATION

A WARNING A

You must receive training and certification from a nationallyrecognized or internationally-recognized scuba training agency before you attempt to use this product. Failure to obtain proper training could result in serious injury or death. Training must include buoyancy control skills and emergency weight ditching training. If you are uncertain as to the meaning of this statement, contact Zeagle Systems, Inc. for clarification.

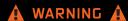
Proper use of any BC requires that you adjust any weight that you add to yourself and the equipment you intend to use to be neutrally buoyant or nearly neutrally buoyant at the surface of the water with approximately 500 psi (35 bar) in your diving cylinder. Configuring your equipment in this way will minimize the frequency and degree of adjustments to buoyancy you will have to make as you dive. If you are unsure as to how this is done, consult with a professional diving instructor for advice.

A WARNING A

NEVER breathe from the bladder assembly. The bladder assembly was not designed as an auxiliary air source and may contain harmful contaminants, which if inhaled, may cause injury or death.



Your Zeagle BC is not a lifejacket or a PFD (Personal Flotation Device). The BC will not guarantee face up flotation for a disabled diver and should not be relied upon to prevent drowning on the surface of the water. Failure to be able to control your position or to receive assistance under these conditions may result in serious injury or death.



Do not use your BC to perform the task of a lift bag. Attempting to lift objects by inflating the BC that you are wearing can result in a sudden change in buoyancy and cause either ascent or descent issues that may result in serious injury or death.

A WARNING A

Diving in cold water at temperatures below 50° F (10°C) requires special training. This training is beyond the scope of this manual and you are advised not to use this product in cold water unless you have received proper instruction and accept the possible added risk associated with cold water conditions. Failure to use this product appropriately under these conditions may result in serious injury or death.

ZEAGLE SYSTEM FEATURES, SETUP, AND ADJUSTMENTS

The Zeagle BC System provides several benefits to the diver including the ability to comfortably attach and support the dive cylinder to the body of the diver, a means to organize instruments and other diver equipment for convenient access and in some cases a means to support and deploy ballast weights, but its primary purpose is to provide a means for the diver to make small buoyancy adjustments to the scuba system as a whole to maintain neutral buoyancy throughout the dive.

Proper selection of equipment to be combined with the BC is critical to avoid imiting the effectiveness of the BC to adjust to neutral buoyancy. Elements that can have significant effect include the dive cylinder characteristic and the choice of ballast weights to be carried. The choice of a large heavy cylinder or double cylinders combined with excessive ballast weights can exceed the lift capacity of the BC and render it incapable of providing neutral buoyancy. Charts provided near the end of this manual contain information about BC lift capacity by model and size and serve as a guide limiting the maximum size cylinder recommended for each model BC. Information for your specific BC appears on a label on the BCD vest.

Please refer to the BCD Lift, Weight & Cylinder chart for your BCD's model and size. You can also find the information for your specific BCD on the BCD label inside the vest.

Most Zeagle systems are designed to work with a variety of tank configurations; however, the SPORT line is designed for single-cylinder use only.

SCUBA CYLINDER SELECTION AND CONFIGURATION

A WARNING A

Failure to comply with the following information may result in an improper buoyancy configuration. You must maintain neutral buoyancy while diving to prevent injury or death.



DO NOT attach a scuba cylinder to your model and size BCD that is larger than recommended by Zeagle. Doing so could cause a diver to be negatively buoyant even with a fully inflated BCD, possibly leading to injury or death

I

Operating Temperature Range

Air -4°F to +122°F (-20°C to +50°C) Water +28°F to +104°F (-2° to +40° C)

Shelf Life

The shelf life for a new, unused BC when deflated and stored in a dry place at room temperature, with no exposure to ultraviolet (UV), light is seven years. Refer to page 65 for Storage and Post Dive BC Cleaning information.

Vest

The vest portion of the system should fit so that it wraps partially around the front of the diver. See the Illustration on page 16. You should be able to tighten the waist strap so that the vest fits quite snuggly around the waist, in order to prevent the BC from shifting during the dive. If you can draw the two sides of the vest together and the fit is still not snug, you need a smaller size vest. If the Vest is uncomfortably tight when the fully extended strap is fastened, you need at larger vest. The Fury BCD is different from other models, in that the vest, weight system and shoulders are fully adjustable. The ZENA women's BCD is different from other models, in that the vest portion is fastened to the body of the BCD with two adjustable straps and is closed by a front zipper. The ZENA is worn so that the top strap is at the narrowest part of the waist, above the hips.

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Side Panels (Cummerbund)

The side panels should fit around the waist (top of the hip) NOT over your rib cage or diaphragm, with at least a four inch overlap on the touch fastener (Velcro) closure. The side panels are attached using six (6) plastic screw fasteners, and can be adjusted by moving the side panels to a different set of grommets on the vest section. See the Illustration on page 16. It is imperative that the BC not be worn to high on the body as this could restrict the ability to breathe, resulting in discomfort or shortness of breath. Side Panel Extenders are available.

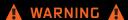
Shoulders

Length of the shoulder strap depends on personal comfort and the length of your torso. Take into consideration different suits you may be wearing with the system, and be sure to allow enough length so the pack may be worn low as described above. The sternum strap should be just above the breast line as shown on page 16. You should easily be able to reach the quick re- lease buckles. The sternum straps have high and low attachment loops. The BCD leaves the factory with the sternum straps attached to the higher loops. If this position puts the strap too close to the neck or the strap is covering a Dry Suit inflator, then the strap can be moved to the lower attachment points.

Bladder Assembly (Back-inflate models)

The bladder assembly for most back-inflation BCs attaches to the vest section via four stainless steel slotted fasteners sewn to the inner edge of the bladder assembly. Each of these slotted fasteners slides over the two Single-Tank Bands. This fastens the Bladder to the Tank Bands. If the BC is to be used with double tanks, then the Single Tank Bands are removed and the optional Double Tank Straps (p/n 7019T) slide through the webbing slots at the back of the vest just as the removed Single Tank Bands did (see cylinder band illustration on page 15). The stamped metal ends of the straps are threaded through the eye of the metal tabs on the Bladder Cover (see illustration on page 15).

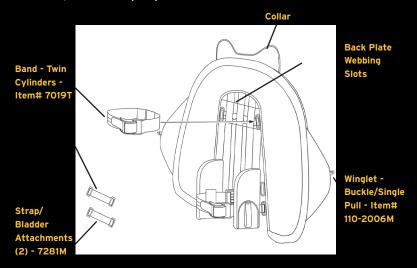
There are two plastic buckles on the Bladder Cover Winglets, which clip over the weight pockets to hold the buoyancy forward. Do not dive with the two forward small side release buckles detached! The shoulder straps should pass through the collar at the top of the bladder assembly. Diving with the bladder not correctly secured could lead to being unbalanced during diving and result in serious injury or death.



Do NOT dive with the two winglet side release buckles detached!

|4| www.Zeagle.com

The Tank Bands and the optional double tank straps go through the same backplate webbing slots. Shoulder strap goes through the collar, Surface Buoyancy Label Location.



Optional double-tank Straps are required IF Double Tanks are mounted to the BC. p/n 7281M (2 required), The Winglet Side Release Buckles must be attached to the vest.

Proper Fit

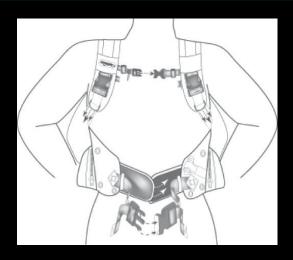
The Zeagle Personal Fit System (not applicable on the SPORT line) allows the diver to size each component of the buoyancy system independently, for a true custom fit. For proper performance, please be sure that your system fits as described below. Put the BC on (before attaching it to a SCUBA cylinder) and adjust the shoulders and waist as follows.



A NOTE A



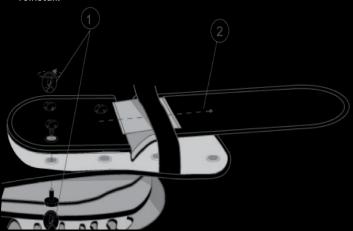
While the BCs of the SPORT line do not incorporate the PFS, they offer adjustability in shoulder, waist and cummerbund.



- Loosen the shoulder straps before donning. Put it on like you
 would a jacket. If your system is equipped with cummerbund side
 panels, stretch the elastic by extending each side panel as far as
 possible before wrapping it around you and fastening the Velcro.
- 2) The system should be worn low with the bottom of the vest at the top of your hips. Once the cummerbund side panels are secure, fasten the waist strap and tighten it snuggly.
- 3) Fasten the sternum strap. It should be just above the breast line. If you are wearing a dry suit, be sure that the sternum strap does not obstruct the drysuit inflator hose or valve. There are two sets of loops for the sternum strap. If the sternum strap is too high, the strap can be moved to the lower loops.
- 4) Adjust the shoulder straps.

Adjusting the Side Panels (Back-inflate models)

- Use a coin, unscrew the plastic barrel-screw fasteners.
- 2) Move the side panel to different set of grommets on vest and reinstall.



3) Please note that one extra plastic barrel-screw is installed in an unused grommet hole when the BCD leaves the factory. This extra screw can be used if one is lost.



A NOTE A



On the models Base +, Resort +, Focus, HALO, the side panels can be adjusted by Velcro.

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Adjustment and Function of the SAR BC

Please note the vest, shoulders, cumberbund and bladder assembly on the SAR are adjusted as outlined for all back inflate PFS Zeagle BC's.

The unique feature of the SAR is its hoisting capability, which meet ADCI tensile requirement.

A single hoisting and tether point is built into the harness of the BC. These two points on the harness are specifically designed for hoisting and attaching an umbilical.

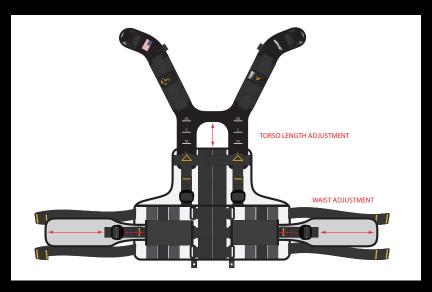


A WARNING A

Note that ONLY the identified hoisting and umbilical thether point is used for this purpose. No other portion of the BC is designed for hoisting.

Failure to select proper attachment location could result in loss of control of load hoisted and could result in serious injury or death.

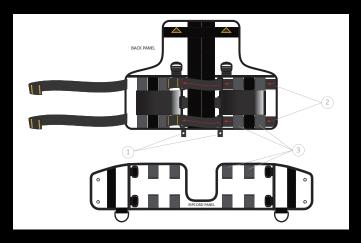
FITTING AND ASSEMBLY OF FURY - INSTALLATION & ADJUSTMENT OF SHOULDER PANEL & CUMMERBAND



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FITTING AND ASSEMBLY OF FURY - INSTALLATION RIPCORD WEIGHT SYSTEM

- Use a coin, unscrew the plastic barrel-screw fasteners to separate Bladder from BCD.
- Place the strap end through all insertion loops including the 2 plastic loops located on the BACK panel.



3) Only use GREY loops to attach Ripcord Weight System.

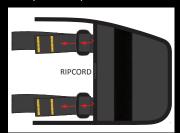


FITTING AND ASSEMBLY OF FURY - INSTALLATION RIPCORD WEIGHT SYSTEM

- Secure strap end with retaining Tri-glide located on Ripcord panel. Ensure to complete steps B & C for added security.
 - A) Insert the strap into Tri-glide.



B) Loop the strap end back.



C) Insert strap end into strap holder.



FITTING AND ASSEMBLY OF FURY - INSTALLATION QLR4 WEIGHT SYSTEM

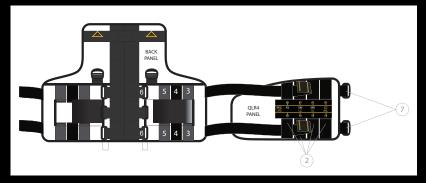
Start with a chosen size indicated on QLR4 panel

REG (resizes: XS, SM, MD, LG marked in WHITE

LRG sizes: LG, XL, XXL marked in YELLOW

ALWAYS use BOTH GREY insertion loops (2 &4) on BACK panel.

ALWAYS skip one 'in-between' insertion loop where applicable



- Use a coin, unscrew the plastic barrel-screw fasteners to separate Bladder from BCD.
- Place the strap end through an insertion loop for a chosen size indicated on QLR4 panel.
- Slide the strap end back through the FIRST GREY insertion loop found on the BACK panel.
- 4) Move the strap end through the BLACK insertion loop of QLR or BACK panel, depending on a chosen size.
- 5) & 6) Then back through the SECOND GREY insertion loop & plastic loop on the BACK panel.

FITTING AND ASSEMBLY OF FURY - INSTALLATION QLR4 WEIGHT SYSTEM

QLR SYSTEM INSTALLATION DIAGRAM (right side shown)



- 7) Secure the strap end with retaining Tri-glide on QLR4 panel.
- A) Insert the strap into Tri-glide.
- B) Loop the strap end back.
- C) Insert strap end into strap holder.







Threading The Standard Single Cylinder System

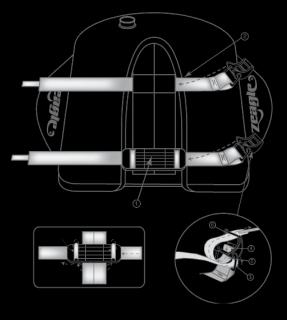


ILLUSTRATION 'A' (Single Cylinder Band Assembly)

ILLUSTRATION 'B' (Standard System Only)



A NOTE A



Tank bands expand and lengthen when wet. For this reason, you will get a tighter fit if you make your initial adjustments with tank bands that have been wet for at least 20 minutes.

- 1) Thread the lower cylinder band through the non-slip plate and then under the bottom center backplate straps as shown in Illustration "A."
- 2) Thread the upper cylinder band under the top center backplate straps on the BC as shown in "A".
- 3) After threading the bands through the cam buckle, thread the bands through the buckle shown in illustration "B".
- 4) Threading instructions are also embossed on the side of the plastic buckle.
- 5) After Looping the webbing through final slot in the buckle, check to be sure that your cylinder is lined vertically on the BC. "Cam" the buckle over for extra tension.
- 6) Lock the buckle by engaging the Velcro material on the tank band.



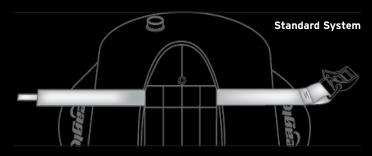
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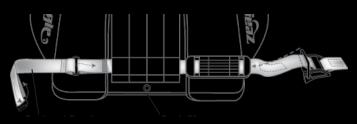
All models of the SPORT line come standard with one tank band. A second tank band can be added as an option.

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Threading the Standard & Quick Release System on a Twin Cylinder Back Plate (Back-inflate models)



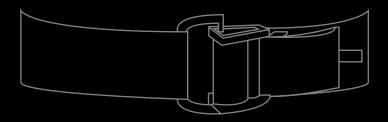
Optional Quick Release System



An alternate method of attaching twin cylinders with steel bands is by bolting through the back plate grommets.

Optional band extension used only with quick release band for twin cylinder use.

There are only minor differences on a twin cylinder model. The traction pad should be completely installed on the bottom band opposite the touch fastener (Velcro) material on the band, before inserting the band under the webbing on the pack. The bands go under the vertical webbing on the back plate. If your system has only two pieces of vertical webbing, it is not a twin cylinder model and should not be used with twin cylinders. If you are setting up a double pack for single cylinders, please note that the single size cylinder bands only go under the center 4 inches (10.2 cm) of vertical webbing on the back plate and the non-slip plate is installed as illustrated on page 22.



Quick Release Full Closed



VERTICAL REAR TANK MOUNT



TANK CAM STRAPS SHOWN: CODE 3 BCD



VEST ADJUSTMENT STRAPS WITH REAR MOUNT TANK



VEST ADJUSTMENT STRAPS WITH FRONT MOUNT TANK



Mounting Optional Backplate for use with Double Tanks



A NOTE A

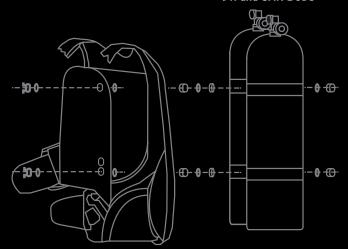


Not applicable for models of the SPORT line and HALO

Backplate Available in:

Black Anodized Aluminum p/n 519-BP01A Stainless Steel p/n 519-BP01S

911 and SAR BCDs



For Ranger, Ranger LTD, 911 and SAR BCDs.

For Ranger, Ranger Ltd. Require modification of built-in.

PREDIVE ASSEMBLY AND ADJUSTMENTS

Pre-Dive Assembly



Adjust the BC so that it does not restrict your breathing. Restriction of normal breathing while wearing your BC could result in injury or death. Before each dive, check all bands, straps, clips, and/or waist panels for proper adjustment.

Over Pressure Valve (OPV)

The over pressure / dump valve is typically located on the lower front of the bladder assembly. Some models have two OP Valves. As its name implies, the OP Valve prevents over inflation of the bladder. The valve automatically releases air when the internal bladder pressure exceeds the its maximum operating pressure. The valve will automatically close when the internal bladder pressure is less than maximum operating pressure. This valve may also be used to "dump" air when you are diving, by pulling the knob / string that is attached to the valve.

The OP Valve should be inspected before every dive.

ZEAGLE SYSTEM FEATURES, SETUP AND ADJUSTMENT

Remote Exhaust Valve (RE Valve)

Your BC may be equipped with a remote exhaust valve. If it is, it is located on the upper left, just behind the shoulder, on the bladder assembly. The RE Valve allows you to "dump" or exhaust air manually as you adjust for neutral buoyancy. The RE Valve operates by simply pulling on the power inflator mechanism and corrugated rubber hose.



A NOTE A



The RE Valve should be inspected before every dive for proper operation. Also, inspect that both threaded caps on the RE Valve, are tightened securely. The power inflator is attached to the RE Valve mechanism via a steel cable inside the corrugated hose. The RE valve closes when tension on the steel cable is released. Without proper tightening of these caps, they may loosen over time and be lost.

Bx Power Inflator/ Oral Inflator Mechanism

Your BC assembly will also be equipped with a power inflator/oral inflator mechanism. This unit consists of a Bx Coupler, Oral Valve Mouthpiece, Oral Valve Button, and Pneumatic Inflation Valve (PIV) and connects directly to the RE Valve via a steel cable (inside the corrugated hose). The PIV requires a supply pressure of 6.5-13.8 bar (95-200 psi). To inflate the BC using the PIV, attach a low pressure hose to the guick disconnect (QD) fitting and depress the PIV button. To inflate the BC using the oral inflator, depress the Oral Valve Dump Button and exhale into the Oral Valve Mouthpiece. To release air throught an oral valve, move yourself to an upright position, hold the valve above your head and depress the oral valve button. Release the button to stop venting air.

ZEAGLE SYSTEM FEATURES. SETUP AND ADJUSTMENT

BALLAST FUNCTION AND SET UP

As stated previously the primary function of the BC is to provide a means to establish neutral buoyancy at all times during the diving experience. In order to maximize the efficient use of the BC, you must first perform a buoyancy check to determine the amount of weight you should add to your system in order to maintain neutral buoyancy.

Neutral buoyancy is achieved during the buoyancy check when

- you are fully equipped with all of the diving equipment you intend to wear or carry, including the exposure suit and any accessories to be transported.
- the BC is EMPTY and not contributing to your buoyancy
- the specific dive cylinder type to be used is nearly empty
 with approximately 500 PSI remaining. Note that buoyancy
 characteristic of different type cylinders can vary significantly and
 the air contained has weight and will affect buoyancy. Be certain
 you do the buoyancy check with the correct cylinder with most the
 weight of the compressed air in the cylinder reduced to that which
 would be remaining at 500 PSI.
- you are able to float upright suspended without the tendency to rise or sink. You should be able to float after holding a normal inhaled breath with water surface approximately level with your eyes. Note that buoyancy in seawater will be slightly greater than in freshwater.

ZEAGLE SYSTEM FEATURES, SETUP AND ADJUSTMENT

Note that in order to meet these requirements (page 36) it is likely you will have to add ballast (weights) to your system. Using a hand held container, start by adding weights in small increments. Having someone hand you weights one at a time simplifies this process. Stop adding weight when you achieve neutral buoyancy. The amount of weight in the container is approximately the correct ballast you will need to add to your scuba system.

If dring this process you are not able to reach the surface of the water, release all of ballast received.

After you have determined the amount of ballast required, you need to select how the ballast will be carried. Zeagle offers several options for integrating weights with the BC depending on the model you choose. Regardless of how you choose to carry the ballast, and assuming you are able to maintain neutral buoyancy at the surface with an EMPTY BC, you must have a means to ditch not less than 10 pounds (4.5kg) of ballast in order to achieve additional buoyancy in an emergency.

ZEAGLE SYSTEM FEATURES, SETUP AND ADJUSTMENT

A WARNING A

Perform the buoyancy check only in water shallow enough for you to stand and under the supervision of someone qualified to assist and support you at the surface of the water. Attempting to determine the amount of weight to add as ballast under other conditions can result in negative buoyancy and uncontrolled descent exposing you to possible serious injury or death.

A WARNING A

You must configure your scuba system so that you are able to achieve neutral buoyancy at all times during a dive and you must be able to ditch enough weight to achieve approvximately 10 pounds (4.5 kg) of positive buoyancy by ditching ballast in an emergency. Failure to maintain neutal buoyancy or to achieve positive buoyancy is an emergency that may lead to serious injury or death.

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A WARNING A

It is very important that you configure your entire scuba system such that you achieve neutral, or nearly neutral buoyancy at the surface at the beginning of the dive with NO air in the BC. If you are not able to ensure this condition exists, there is the possibility that your BC may not be able to perform to its maximum capacity as you descend and compressible items, such as the exposure suit lose buoyancy. In the extreme, you may find that a completely full BC will not have sufficient capacity to stop your descent. If this occurs you should attempt a brief swimming ascent to regain sufficient buoyancy and if this measure fails to allow you to continue to ascend, you must immediately release ditchable weights to gain control and ascend.

If you do not understand how to properly ballast for diving, consult your professional instructor for advice and do not dive. Failure to exercise options available to you to minimize this risk can be fatal.

ZEAGLE SYSTEM FEATURES, SETUP AND ADJUSTMENT

CHECK ALL MECHANISMS BEFORE EVERY DIVE FOR PROPER OPERATION AND LEAKS.

Weight Ballast System Options and Operation

Although this system provides a means to easily release trim weights, it is considered to be non-ditchable weight due to it location on the BC. Trim weights should only be used to adjust body position in the water and should not be considered a replacement for ditchable systems.



A NOTE A



There are several types of weight systems available on Zeagle BCs. Compare your BC with the following pictures to determine which type of weight release system you have. When you see your BC's weight system, follow the directions shown.



A WARNING A



Before entering the water check the weight system to be certain that it will not release without your intentional action. Unintended release may cause an uncontrolled ascent and possible serious injury or death.

PREDIVE ASSEMBLY AND INSPECTION

Trim Weight™ Velcro Touch Fastener System - Check to see that the touch fastener material flap on the bottom and sides of each weight pocket completely overlaps and is secure.

Quick Lock Release (QLR) system - check buckles of weight system to ensure it is properly snapped in and there is no fabric caught between the male and female buckle. (applicable on Marina, Bravo, Resort +, Fury)



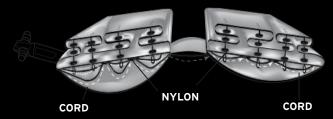


Make sure the plastic release buckle is completely fastened with no fabric pinched in the buckle.

Re-threading the Ripcord System

If the Ripcord is not completely secure, re-thread using the following procedure.

- Lay the BC out in front of you. The Ripcord handle should be to your right side (on a table works best if possible).
- Return the Ripcord handle to the secure position by pushing the cords back through the red webbing and secure the handle by velcro.
- 3) The shorter cord will be used on the right side.
- 4) Starting with the one closest to the Ripcord handle, thread the white nylon loop through the 3 grommets that sit directly above it. The orange cord is then threaded through the end of the white loop. Move on to the next white loop.
- Thread the cord under the black webbing between the grommets where necessary.
- 6) Repeat for all remaining loops on this side.
- 7) Push the end of the cord up between the vest and the pocket.
- 8) If necessary, push the longer orange cord until it comes all the way out on the left side.
- 9) Repeat steps 4-7 on the left side.
- 10) After re-threading is complete, make sure to check that the Ripcord cable moves freely through the white loops without hinderence.



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Loading the Zeagle Integrated Weight System



A NOTE A



The following is required for proper BC performance

- Weights can be loaded before or after the system is donned. Considerations include the amount of weight and the distance to enter the water. Ask your buddy for help in either case. To load the weight system:
- Unfasten the buckles securing the bladder assembly winglets to the side of the vest to allow easy access to the weight pockets (where applicable).
- Ripcord™ load your weights through the RED zippered opening on the pocket top. Be sure the RED zipper is fully closed after loading.
- Pull-Out Weight System pull the pouch out of its pocket and load it through the zippered opening. Close the zipper and load the pouch into pocket according to illustration, make sure it snaps in with an audible click.
- Refasten the buckles securing the bladder winglets to the side of the vest.
- Be sure to load in the weights in the Ripcord pocket closest to the diver. The outer zipper pocket is a utility pocket, it is NOT designed for weights. The outer zipper pocket is NOT releasable with the Ripcord system. The outer zipper pocket is for carrying other items like gloves, small lights, mesh catch bag, etc.

- The Ripcord weight system is designed to accept block weights, shot pouches and the recommended Zeagle zippered weight pouch (# 8042- 12 pound and #8043-18 pound capacity each). It is recommended that small weights of 2 pounds or less are not used loose in the Ripcord systems as they may fall out the bottom of the pockets.
- To load the weights, unzip the weight pockets (with red zipper pull tab) and insert weights. Do not overfill pockets. Zipper should zip close easily. Use equal amount of weight in each side of yest to ensure proper balance.
- To release the weights pull the red ripcord handle fully to stop.



f A CAUTION f A

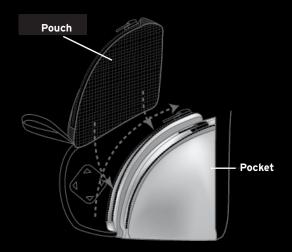


Do not attempt to pull past the ripcord stop. The handle and cable are not designed to be completely separated from the system. The stop is designed to prevent you from losing the handle and pull cable. Pulling too hard past the stopping point may cause damage to the system.

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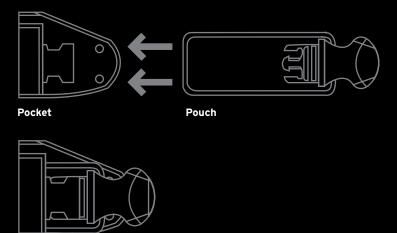
When returning to the boat from a dive you may want to remove
the weight before boarding the boat. In this case, you can unzip
the weight pocket on the back-inflate Zeagle BCs, or pull the pullout weights on the Jacket-style SPORT line models, and hand
weights to an assistant on the boat or place weights on diving
platform before climbing onboard.

Installing the Weight Pouch into the Ripcord™ Weight System



QUICK LOCK RELEASE WEIGHT SYSTEM

Quick Lock Release Weight System Assembly Procedure



Pocket

With weight system loaded as it would be for diving, check for easy access to the release mechanism. Practice removing the weights as if you were returning to the boat or in an emergency. Making sure the weights drop free from you whether you are using a weight belt or other integrated weight system.

With a Ripcord type system, when fully geared up, periodically pull the release handle to stop and re-thread cable. Be sure nothing is hindering the movement of the cable through the release loops or channel and that nothing is hindering the release of weights from the diving vest.

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DONNING PROCEDURE

Be sure you have read and performed the Proper Fit page in the Fitting and Assembly section of this manual first.

- Verify that cylinder is secured to the BC as described in the setup section.
- Open the cylinder band buckle(s) and loosen the band(s).
- Align the system so that the top of the bladder assembly is even
 with the cylinder valve (slightly higher or lower may be required
 depending on the diver's size and the type of tank, but this is a
 good starting point). This may require loosening the tank band and
 relocating the BC postition relative to the cylinder.
- Make sure that the two sets of bands are in vertical alignment with vour tank and not twisted to one side.
- Pull the bands snug and close the buckles. Secure the loose end of the bands on the Velcro touch fastener.
- Connect the regulator to the cylinder valve and finish assembling the system per manufacturer's instructions.
- Be sure you are familiar with the low pressure inflator system on your Zeagle BC. Inflate the system and check for leakage.
- Weights can be installed in the weight pockets before the BC is donned or after. It may be easier to add your weights after you have the system on to avoid lifting the tank and weights together. Considerations include the amount of weight and the distance to enter the water. Ask your buddy for help in either case.
- Loosen the shoulder straps.
- Have your buddy balance the system while you put it on like a iacket.

DONNING PROCEDURE

- Remember, the system should be worn low with the bottom of the vest at the top of your hips.
- Fasten the side panels and/or the waist band. Extend the cummerbund side panels (where applicable) as far as possible before wrapping them around your body. Be sure to get the waist tight.
- Fasten the sternum strap and adjust it. If you are wearing a drysuit, be sure that the sternum strap does not obstruct the drysuit inflator hose or valve.
- · Adjust the shoulder straps.
- Fasten the split saddle strap if your system is so equipped.
- When using Code 3 vest, this product is universal size. The adjustment strap on left and right side of vest should be pulled until vest is snug against user body.

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PREDIVE CHECK

- Be familiar with all your gear and your dive buddy's equipment.
- Operate the power inflator to fill the BC until the OPV opens. Stop inflating and verify the OPV closes. Operate the RE valve if present and verify BC vents and closes. Test connection of LP hose to power inflator by gently pulling to ensure connection is secure.
- With weight system loaded as it would be for diving, check for easy access to the release mechanism. Practice removing the weights as if you were returning to the boat or in an emergency. Making sure the weights drop free from you whether you are using a weight belt or other integrated weight system.



f A NOTE f A



Abort any dive if any part of your live support system (including regulator, BC, drysuit, etc.) is not functioning correctly. Have any malfunctioning problem resolved before beginning your dive. Any parts or areas with excessive wear should be checked out by a qualified technician before diving.

PREDIVE CHECK

Emergency Procedures



A WARNING A

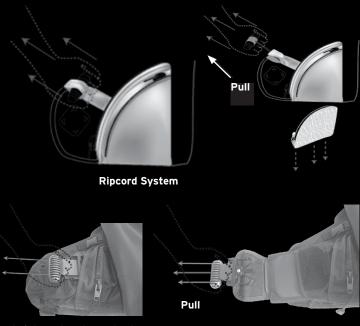


If you are diving with a buoyant wet or drysuit, be aware that releasing weights at depth should only be done if absolutely necessary (for example, if your drysuit has flooded, making you extremely negative). Without weights, it may be very difficult to control your ascent rate as you near the surface. Weight release at depth should only be done according to the standards set by your certification agency.

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PREDIVE CHECK

Emergency Weight Release



Quick Lock Release System

EMERGENCY PROCEDURES

Problem Management

Inflator problem

Inflators may fail due to foreign material in the mechanism, damage from impact by tanks or weights, or other causes. Practice the procedures below (in a safe location with your buddy) for your safety.

Inflator fails to operate

Check to see that the low pressure hose is properly connected. Orally inflate the bladder if necessary to establish proper buoyancy.

Inflator valve sticks open

Should the inflator valve stick open, causing an uncontrolled inflation, abort the dive. Immedately assume an upright position and place the Oral Valve on the Power Inflator Assembly above your head. Press the Oral Valve button and continuously vent excess air to gain neutral buoyancy. Then operate the LP hose disconnect fitting to separate the LP hose from the Power Inflator Assembly. Abort the dive. Swim under control to the surface while operating the Oral Valve as necessary to vent any expanding air in the bladder and maintain a controlled ascent.

Exhaust valve or over pressure valve sticks open

If the exhaust valve on the inflator sticks open, hold the inflator in the lowest position possible, to allow the bladder to hold air from that level up. Abort the dive and attempt to swim slowly, 1 ft per 2 sec (0.3 m per 2 seconds), or less, to the surface. Should excessive negative buoyancy be created, your weights may need to be released.

Weight release at depth should only be done according to the standards set by your certification agency.

EMERGENCY PROCEDURES

Failure to hold air

If for any reason the system should fail to hold an adequate amount of air to provide necessary buoyancy, abort the dive and attempt to swim slowly, 1 ft per 2 seconds (.3 m per 2 seconds) or less, to the surface. Should excessive negative buoyancy be created, your weights may need to be released. Weight release at depth should only be done according to the standards set by your certification agency.

The above is based on recreational not decompression diving. Diving requiring decompression procedures is considered advanced diving and dedicated training, equipment and procedures apply. You are advised to follow advanced training as prescribed by your training agency.



$oldsymbol{\Lambda}$ NOTE $oldsymbol{\Lambda}$



If at any time abnormal performance or unexpected equipment operation is experienced, the system must be serviced by an authorized Zeagle Dealer prior to any further use.

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How to Measure for your BCD

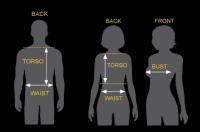
Torso length (shoulder to waist dimension) can vary a great deal, even for individuals of the same height, so if you are either very short or long-waisted in relation to your height or waist size, conventional "generic" sizing may not give you a good fit

MALE:

- TORSO: Measure the length from the top of the shoulder to the natural waistline. This will determine your shoulder size.
- 2. WAIST: Measure the width at the natural waistline (smallest point of the waist). This will determine your vest size.

FEMALE:

- TORSO: Measure the length from the top of the should to the natural waistline. This will determine your shoulder size.
- 2. BUST: Fit to chest/bust size. This will determine your front panel size.
- 3. WAIST: Measure the width at the natural waistline (smallest point of the waist). This will determine your vest size.



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BRAVO, RESORT, AND FOCUS:

WAIST (Vest size) - Mea.	sure wai	ist	size
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,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
SM	24 in - 42 in (61 cm - 107 cm)
MD	30 in - 45 in (76 cm - 114 cm)
LG	35 in - 50 in (89 cm - 127 cm)
XL	37 in - 52 in (84 cm - 132 cm)
XXL	44 in - 56 in (112 cm - 142 cm)

TORSO (Shoulder size)- Top of shoulder to top of hip

SM	17 in - 20 in (43 cm - 50 cm)
MD	20 in - 23 in (50 cm - 58 cm)
LG	22 in - 25 in (56 cm - 63.5 cm)
XL	23 in - 26 in (58 cm - 66 cm)
XXL	23 in - 27 in (58 cm - 68.5 cm)

MARINA:

WAIST (Vest size) - Measure waist size

XS	26 in - 28 in (71 cm - 91 cm)
SM	30 in - 38 in (76 cm - 96.5 cm)
MD	33 in - 41 in (84 cm - 104 cm)
LG	36 in - 44 in (91 cm - 112 cm)

MARINA (CONT.):

TORSO (Shoulder size)- Top of shoulder to top of hip

XS	15 in - 18 in (38 cm - 46 cm)
SM	17 in - 19 in (43 cm - 48 cm)
MD	18 in - 20 in (46 cm - 50 cm)
LG	19 in - 21 in (48 cm - 53 cm)

SCOUT, STILETTO, RANGER (LTD) TECH, RESCURE 911 AND SAR:

WAIST (Vest size) - Measure waist size

SM	35 in (89 cm)
MD	33 in - 41 in (84 cm - 104 cm)
LG	37 in - 45 in (84 cm - 114 cm)
XL	42 in - 50 in (107 cm - 127 cm)

TORSO (Shoulder size)- Top of shoulder to top of hip

SM	14 in - 18 in (46 cm - 65.5 cm)
MD	18 in - 22 in (46 cm - 56 cm)
LG	22 in - 26 in (56 cm - 66 cm)
XL	26 in - 29 in (66 cm - 74 cm)

RANGER JR:

WAIST (Vest size) - Measure waist size

YC	
	56 cm - 71 cm)
A3	

TORSO (Shoulder size)- *Top of shoulder to top of hip*XS 9 12 in - 15 in (30.5 cm - 38 cm)

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ZENA:

WAIST (Vest size) - Measure waist size

XS	20 in - 24 in (50 cm - 61 cm)	
SM	24 in - 30 in (61 cm - 76 cm)	
MD	26 in - 34 in (66 cm - 86 cm)	
LG	36 in - 44 in (71 cm - 96.5 cm)	
BUST SIZE (Vest size)		
XS	26 in - 30 in (66 cm - 76 cm)	
SM	30 in - 34 in (76 cm - 86 cm)	
MD	34 in - 37 in (86 cm - 93 cm)	
LG	37 in - 42 in (93 cm - 107 cm)	
TORSO (Shoulder size)- Top of shoulder to top of hip		
XS	10 in - 13 in (25.4 cm - 33 cm)	
SM	13 in - 16 in (33 cm - 40.6 cm)	
MD	15 in - 18 in (38 cm - 46 cm)	
LG	17 in - 19 in (43 cm - 48 cm)	
COVERT XT: The Covert XT does not use the Personal Fit Stystem		
WAIST (Vest size) - Measure waist size		

SM	30 in - 45 in (76 cm - 114 cm)
MD	35 in - 50 in (89 cm - 127 cm)
LG	37 in - 52 in (84 cm - 132 cm)
XL	44 in - 56 in (112 cm - 142 cm)

COVERT XT (CONT.):

TORSO (Shoulder size)- Top of shoulder to top of hip

SM	20 in - 23 in (50 cm - 58 cm)
MD	22 in - 25 in (56 cm - 63.5 cm)
LG	23 in - 26 in (58 cm - 66 cm)
XL	23 in - 27 in (58 cm - 68.5 cm)

FURY REGULAR (REG):

WAIST (Vest size) - Measure waist size

XS	25 in - 33 in (63.5 cm - 84 cm)
SM	29 in - 37 in (74 cm - 94 cm)
MD	33 in - 41 in (84 cm - 104 cm)
LG	35 in - 43 in (89 cm - 109 cm)

TORSO (Shoulder size)- Top of shoulder to top of hip

XS	<14 in (<35.5 cm)
SM	14 in - 18 in (35.5 cm - 46 cm)
MD	18 in - 22 in (46 cm - 56 cm)
LG	20 in - 24 in (50 cm - 61 cm)

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FURY LARGE (LRG):

WAIST (Vest size) - Measure waist size

LG	37 in - 45 in (94 cm - 114 cm)
XL	41 in - 49 in (104 cm - 124.5 cm)
XXL	45 in - 53 in (114 cm - 134.5 cm)

TORSO (Shoulder size)- Top of shoulder to top of hip

LG	22 in - 26 in (56 cm - 66 cm)
XL	26 in - 29 in (66 cm - 74 cm)
XXL	>26 in (>66 cm)

	Lift Ib/N	Maxi Ditch wei	nable	Maximum Non-ditchable weight		Maximum tank size (L)	Double tanks? Y/N	CE? Y/N
_		(lb)	(kg)	(lb)	(kg)			
Base+								
XS	18/80	*	*	*	*	15	N	*
S	20/90	*	*	*	*	15	N	*
М	25/110	*	*	*	*	18	N	*
L	29/130	*	*	*	*	18	N	*
XL	36/160	*	*	*	*	18	N	*
XXL	36/160	*	*	*	*	18	N	*

Bravo

S	26/120	20	9	6	3	15	N	*
М	33/150	20	9	10	5	18	N	*
L	33/150	20	9	10	5	18	N	*
XL	40/180	20	9	10	5	18	N	*
XXL	42/190	20	9	10	5	18	N	*

Code 3 Vest

0/S 28/24 * * 24 20 20 N	O/S 2	28/24	*	*	24	20	20	N	Υ
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Lift lb/N	Maximum Ditchable weight		Maximum Non-ditchable weight		Maximum tank size (L)	Double tanks? Y/N	CE? Y/N
	(lb)	(kg)	(lb)	(kg)			

Covert XT

XS	26/120	*	*	*	*	15	N	*
S	26/120	*	*	*	*	15	N	*
М	26/120	*	*	*	*	18	N	*
L	26/120	*	*	*	*	18	N	*
XL	35/160	*	*	*	*	18	N	*
XXL	35/160	*	*	*	*	18	N	*

Express Tech DLX

S	*	*	*	*	*	*	N	Υ
М	*	*	*	*	*	*	N	Υ
L	*	*	*	*	*	*	N	Υ
XL	*	*	*	*	*	*	N	Υ

Fury

REG QLR	26/116	20	9	16	7	15	N	Υ
LRG QLR	33/155	20	9	16	7	18	N	Υ
REG RIPCORD	26/116	24	11	16	7	15	N	Υ
LRG RIPCORD	33/155	24	11	16	7	18	N	Υ

* Pending

	Lift Ib/N	Maxi Ditch wei	nable	Maximum Non-ditchable weight		Maximum tank size (L)	Double tanks? Y/N	CE? Y/N
Halo		(lb)	(kg)	(lb)	(kg)			
S	31/137	20	9	10	5	15	N	Υ
М	36/160	20	9	10	5	18	N	Υ
L	41/182	20	9	10	5	18	N	Υ
XL	45/200	20	9	10	5	18	N	Υ
XXL	45/200	20	9	10	5	18	N	Υ

Marina

XS	20/90	20	9	6	3	15	N	*
S	22/100	20	9	6	3	15	N	*
М	26/120	20	9	10	5	18	N	*
L	33/150	20	9	10	5	18	N	*

Ranger

S	44/196	36	16	16	7	15	Y	Υ
М	44/196	36	16	16	7	18	Y	Υ
L	44/196	36	16	16	7	18	Υ	Υ
XL	44/196	36	16	16	7	18	Υ	Υ
XXL	44/196	36	16	16	7	18	Y	Υ

Ranger Jr.

XS	24/107	16	7	16	7	N	N

* Pending

Lift Ib/N	Maximum Ditchable weight			itchable	Maximum tank size (L)		CE? Y/N
	(lb)	(kg)	(lb)	(kg)		Ť	

Ranger LTD**

S	44/196	36	16	20	9	15/15 x2	Υ	Υ
М	44/196	36	16	20	9	18/15 x2	Y	Υ
L	44/196	36	16	20	9	18/15 x2	Y	Υ
XL	44/196	36	16	20	9	18/15 x2	Y	Υ

Rescue 911**

S	65/290	36	16	20	9	15/15 x2	Υ	Υ
М	65/290	36	16	20	9	15/15 x2	Y	Υ
L	65/290	36	16	20	9	18/15 x2	Y	Υ
XL	65/290	36	16	20	9	18/15 x2	Υ	Υ

Resort +

XS	18/80	*	*	*	*	15	N	*
S	20/90	*	*	*	*	15	N	*
М	25/110	*	*	*	*	18	N	*
L	29/130	*	*	*	*	18	N	*
XL	36/160	*	*	*	*	18	N	*
XXL	36/160	*	*	*	*	18	N	*

^{*} Pending

^{**} Double tank conversion kit p/n 7281M (x2) required

Maximum

Ditchable

weight

(kg)

(lb)

Lift

Ib/N

31/138

31/138

31/138

XL

24

24

24

11

11

11

Scout

S	24/107	None	None	16	7	15	N	N
М	24/107	None	None	16	7	18	N	N
L	24/107	None	None	16	7	18	N	N
XL	24/107	None	None	16	7	18	N	N
Stiletto	o							
XS	35/156	24	11	16	7	15	N	Υ
S	35/156	24	11	16	7	15	N	Υ
М	35/156	24	11	16	7	18	N	Υ
L	35/156	24	11	16	7	18	N	Υ
XL	35/156	24	11	16	7	18	N	Υ
XXL	35/156	24	11	16	7			
Zena								
XS	31/138	24	11	16	7	15	N	Υ
S	31/138	24	11	16	7	15	N	Υ

Maximum

Non-ditchable

weight

(kg)

(lb)

Double

tanks?

Y/N

CE? Y/N

Maximum

tank size

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16

16

16

7

7

7

18

18

18

Ν

Ν

Ν

Υ

Υ

Υ

MAINTENANCE



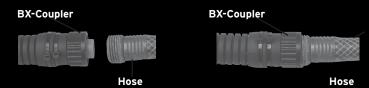
A NOTE A



The reliability and correct functioning of your equipment depends on the care it receives.

Post Dive BC Clean

- Rinse the BCD thoroughly with fresh water after each use.
- Rinse the inside of the bladder using the Bx Coupler (Note: The models of the SPORT line are not equipped with this feature). Simply unscrew the Bx Coupler from the Power Inflator, and screw onto a standard garden hose



Turn the water on and rinse the bladder.



MAINTENANCE

- Reconnect the BX securing until hand tight
- Hang the BCD upside down and allow it to dry while partially • inflated. Drain any residual water through the exhaust hose while the BCD is hanging upside down.
- Store the BCD partially inflated in a cool dry place.



A NOTE A



When screwing on the Bx Coupler to the garden hose, DO NOT OVER TIGHTEN. Some water leakage here is normal during rinsing. Over tightening may cause damage to the coupler.

Inspection and Service Interval

Your BCD (including the Inflator) should be inspected and maintained by an Authorized Zeagle Dealer at least once a year, and more often if you dive frequently. This is a required action to keep your warranty in effect. There is a Service Record in the back of this manual for the Dealer to record the service performed.



lacklacklack NOTE lacklacklacklack



Check that the Bx connection is snug (or hand tight) before EACH DIVE! Periodically check ALL threaded connections such as OPV Flanges and Shoulder Dump Cap for tightness.

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MAINTENANCE

Installation of New Parts / Alterations



Use of non-factory parts or accessories, or any change to the product not specifically authorized by Zeagle Systems, Inc., or performed by an unauthorized repair facility, may cause improper operation, damage, or leakage of the BC resulting in a loss of buoyancy control or air holding capability. This could result in injury or death, plus will void your warranty. Replace worn or damaged items with approved, factory supplied or specified parts ONLY.

Attach the original or a copy of your purchase receipt to this booklet and store it in a safe place. Your receipt may be needed for warranty validation if you take your BCD to a different Zeagle Dealer for service.

Location and Service Support

The Dealer that sold you your BC will be able to assist you with additional questions regarding product operation, warranty, and service. Go to www.zeagle.com for dealer locations near you.

Date	Service Record



zeagle.com

ZE.02.02.0001 Rev 10/23