



READ CAREFULLY. YOUR COMFORT AND SAFETY IS WORTH MORE THAN 15 MINUTES.

CONGRATULATIONS!

YOU HAVE PURCHASED A PERFECT PRODUCT IN WHICH, WITHOUT ANY COMPROMISE, WE HAVE CONNECTED THE BEST EXISTING MATERIALS MADE IN EUROPE AND IN THE USA, WITH BOTH OUR TECHNICAL AND RECREATIONAL DIVING EXPERIENCE. WHILE DESIGNING IT, WE HAVE ALSO CONSULTED A CONSIDERABLE NUMBER OF DIVERS WHO USE VARIOUS CONFIGURATIONS OF EQUIPMENT FROM MANY VARIOUS PRODUCERS.

WE HOPE THAT OUR PRODUCT MEETS YOUR EXPECTATIONS, REGARDLESS OF WHETHER YOU ARE A RECREATIONAL DIVER OR AN EXPERIENCED TECH DIVER.

INDEX

06	INTRODUCTION
10	CE CERTIFICATION
12	SAFETY RULES
16	PARTS OF PROJECT SYSTEM
20	ADJUSTING
24	CONNECTING THE SCUBA TANK
26	CONNECTING THE LP HOSE
28	PRE-DIVE INSPECTION
30	OPERATION
32	POST -DIVE MAINTENANCE
34	REPAIR AND MAINTENANCE
36	SPECIFICATION

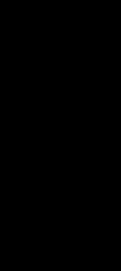




INTRODUCTION







PRE-USE GUIDELINES

Before you use any of the products described in this manual, carefully read all the information contained herein with comprehension. Becoming familiar with this information is a prerequisite for safe and long-term use of the products described in this document.

This manual is intended as a guide for correctly trained divers, and so a number of matters related to diving are described here only roughly. In no way can this manual act as a substitute for professional diver training or course. Therefore, before you start using any of the products described in this manual, make sure that you have relevant qualifications issued by a registered diving organization.

If any of the information contained in this manual or if any information label placed on the Buoyancy Compensation Device is not clear, contact the manufacturer for explanation:

XDEEP Spółka z ograniczoną odpowiedzialnością Sp. k.

Ul.Ogrodników 3, 43-227 Góra Poland

Phone: +48 12 44 66 998 e-mail: biuro@xdeep.pl

М

IMPORTANT!

This manual includes two types of designation, which you should pay special attention to. They indicate warnings or other information which may be crucial for health and life of the user or other people. You should read them with special attention:

DANGER

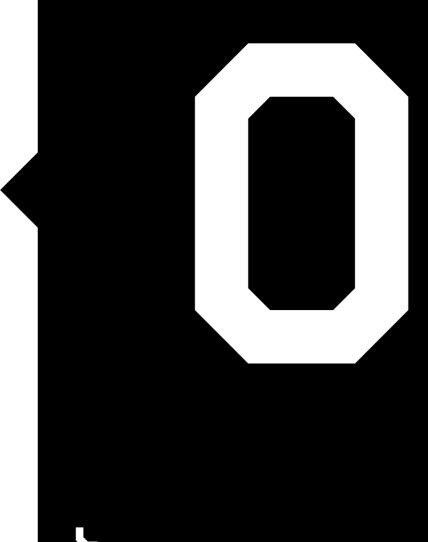
INDICATES AN IMMINENTLY HAZARDOUS SITU-ATION WHICH, IF NOT AVOIDED, WILL RESULT IN A SERIOUS ACCIDENT WHICH MAY CAUSE DEATH OR SERIOUS INJURY.

WARNING

INDICATES A POTENTIALLY HAZARDOUS SITU-ATION WHICH, IF NOT AVOIDED, COULD CAUSE DAMAGE TO THE PRODUCT OR SERIOUS INJURY. IT MAY ALSO INDICATE WRONG AND DANGEROUS PRACTICES.

CE CERTIFICATION

G





CE CERTIFICATION

М

The products described in the following instruction have been a subject of certification in a recognized unit and meet the requirements of 89/686/EWG directive and of the norm EN 1809:2014-09, synchronized with this directive, in its full extent; and of EN 250:2003-08 covering scuba harness.

The compliance assessment of PROJECT compensator and NX Series diving harness was performed by:

Polski Rejestr Statków S.A., Recognised certification unit nr 1463

Al.Gen.Józefa Hallera 126 80-416 Gdańsk Poland PROJECT buoyancy compensators has been certified as compatible with 89/686/EWG directive, as far as it contains air compatible with EN 12021 norm. Regarding the lack of EN norms for safety requirements while the use of it takes place with mixtures of higher oxygen content, the above mentioned buoyancy compensator cannot be regarded as one which has been a subject of CE certification with gas mixtures with oxygen level higher than 21% (+/- 2%) as stated in 89/686/EWG directive.

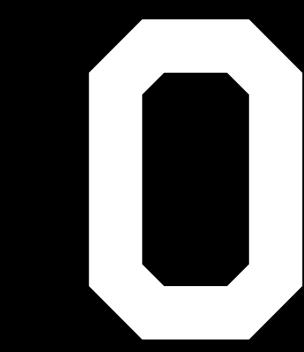
WARNING

IN NON-EU COUNTRIES ADDITIONAL CONDITIONS, LAW REQUIREMENTS AND BUOYANCY COMPENSATOR NORMS MAY EXIST. DOUBLE CHECK THE CURRENT REQUIREMENTS IN THE COUNTRY IN WHICH YOU INTEND TO USE IT.

WARNING

THE BUOYANCY COMPENSATOR IS NOT A SAFETY JACKET: IT DOES NOT GUARANTEE A PROPER HEAD-UP POSITION ON THE SURFACE.







SAFETY RULES

DANGER

XDEEP BCDS ARE DESIGNED TO PROVIDE THE USER WITH SAFETY AND COMFORT. IMPROPER USE MAY RESULT IN AN ACCIDENT, THEREFORE IT IS NECESSARY TO COMPLY WITH ALL OF THE FOLLOWING RULES.

1.

Before every dive, carefully inspect all elements of the equipment, including the BC. For furtherinformation on the subject, read: "Pre-dive inspection".

2.

Do not dive with the BC if there are signs of defective operation, damage or wear, such a BC should be withdrawn from use until it is repaired by an authorized XDEEP distributor.

3.

During diving, perform mutual buddy-check, visually inspecting the BC against any leakages or other irregularities. Arrange checkout procedures with your buddy and practice relevant diving signs once again before diving.

4.

In case of an uncontrolled ascent, you should immediately start releasing air from the BC in order to stop or slow down the rate of ascent.

5.

In order not to drown as a result of an uncontrolled descent, in all cases you should be able to use an emergency source of buoyancy or remove the weight. The BC CANNOT be the only source of buoyancy!

6.

Do not use your BC to lift or bring heavy objects to the surface. Doing so may result in a serious accident due to damage done to the BC or an uncontrolled ascent. For bringing objects heavier than 2kg, use appropriate equipment, such as a lift bag.

7.

To prevent the BC from damage, avoid prolonged exposure of your BC to direct sunlight or extreme heat and keep it away from sharp objects.

8.

Do not inhale air from the BC. It may contain harmful contaminants, gases, or dangerous bacteria which evolve in damp places.

9.

A BC is not a lifejacket and does not guarantee a head-up position of the user on the surface. Therefore, you should always dive with a buddy in case of losing consciousness on the surface.

10.

Do not lift or move the BC by pulling the inflator hose. Such practice may result in irreparable damage to the BC.

11.

When diving in cold water (below 10 degrees Celsius), you should take into account that the inflator may freeze, as a result of which, it may supply air in an uncontrolled way, or other irregularities in its operation may appear. Before diving in cold water, it is necessary that you practice emergency procedures should the inflator freeze!

Cold water diving (in the temperature lower than 10°C) significantly increase the risk of inflator freeze, which may result in uncontrolled air inflation or other irregularities. In the case of inflator freeze you should follow the procedures of your diving federation which you've leaned on your diving course.

In order to minimize the risk of inflator freeze you must follow these rules:

1.

Use gas mixture according to the EN 12021 norm and use only dry and clean cylinders filled in the authorized stations. Increased humidity of the gas has a significant impact on the increased risk of inflator freeze.

2.

Avoid adding large amount of air to the compensator at one time since the high flow of air through the inflation valve considerably increases the risk of valve freeze while diving in cold waters. Instead you should control the buoyancy by adding small amounts of air at one time.



Perform the BCD maintenance as per the time periods specified in this manual. Worn-out parts in the inflator or any contaminants may trigger rapid growth of ice crystals inside the inflation valve causing the valve freeze.

4.

While diving in waters of temperature lower than 10°C, remain at the surface as short as possible.

Diving in tight spaces, in the wrecks, under overhanging reef walls and in the caves involves the risk of sudden loss of buoyancy caused by the bladder's puncture due to the contact with sharp edges of wrecks or reefs or the lock of the overpressure valve by the sediments falling down from the ceiling. If the sudden loss of buoyancy caused by compensator would happen, you should immediately use the emergency source of buoyancy.

In order to minimize the risk related to sudden loss of buoyancy we should:

1.

Always have the emergency source of buoyancy available and make sure that you can use it at any time.

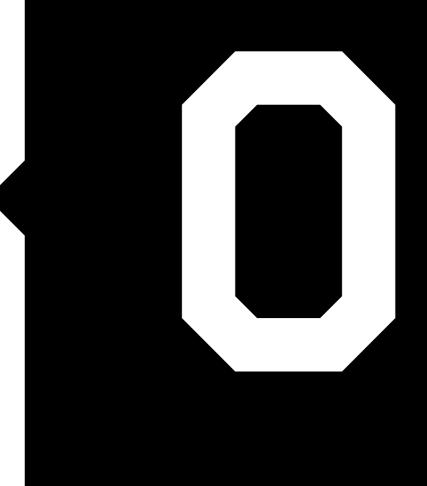
2.

Keep proper distance from the wrecks and reefs. Sharp edges may cause puncture or cut the compensator bladder resulting in sudden and irreparable loss of buoyancy.

3.

Avoid diving into places where sediments, rocks or other solid particles may fall down from above, e.g. due to the movement of fins or the flow of water. Falling particles may block the overpressure valve in a closed or open state, resulting in incorrect compensator operation.

7 PARTS OF PROJECT SYSTEM



PARTS OF PROJECT SYSTEM

PROJECT system consists of two basic elements:

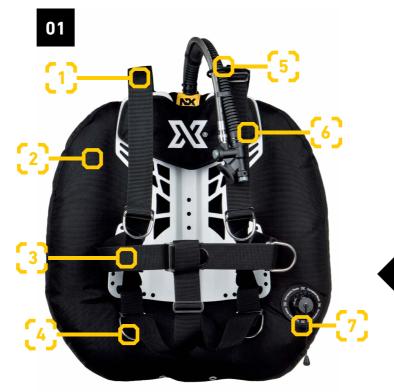
Double shell PROJECT BCD;

2.

NX Series diving harness of M or XL size, in simple or easy-to-unfasten version;

The PROJECT BC can be used with any harness which has two mounting holes of 12mm and a spacing of 11 inches. However, we recommend using one of high quality CE certified NX Series harnesses.

On the following pages of this manual we described particular elements of the system and also their configuration and adjustment.



М

Fig. 1. GHOST BCD with basic harness

\$

- Compensator bladder
 Shoulder strap
 Waist strap
 V-type crotch strap
 Inflator hose

- 6. K-type inflator
- 7. Over pressure relief valve

K-type Power Inflator

A K-type inflator is a reliable device made of shock-proof technopolymer which is resistant to environmental conditions. The inflator valve is made of metal, which makes the inflator more resistant to freezing and it can be operated much longer than inflators made entirely of plastic.

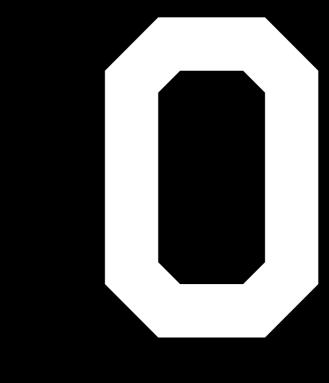
The inflator is equipped with an inflator button (1) to inflate the BC with air, a purge button (2) to deflate the BC or inflate it orally, and a mouthpiece (3) to release the air that is deflated or inhale the BC orally.



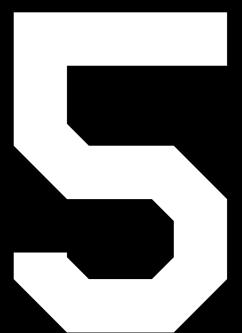
Ж

ADJUSTING

М









ADJUSTING

When you order a complete buoyancy set, you're going to receive all parts assembled and ready to use. However, to improve the comfort and safety of the user, in the end you should adjust the shoulder straps and the crotch strap.

NX Series harness is available in two sizes: M and XL. M-size harness is designed for people of 175cm in height and shorter, whereas XL-size harness for people taller than 175cm.

The unique construction of NX Series harness, providing automatic shortening of shoulder straps after you fasten the waist strap, combines the advantages of the traditional technical harness with easiness to put it on and take it off provided by the harness with easy-to-undo buckles. In most cases the set requires adjustment only before the first dive after the purchase and in the case of changing the suit, thanks to which, at all times, the user has a set providing optimal trim and stability.

NX Series harness is traditionally equipped with V-type crotch strap which distributes pressure on a larger area and at the same time improves comfort in particular when you dive with a scooter. If you prefer the traditional type of crotch strap, contact the producer to obtain information on how to attach it.

In the basic version of harness the shoulder straps and the crotch strap are adjusted through shortening or lengthening the loop which forms at the end of the webbing. The following picture shows points where shoulder straps and crotch strap can be adjusted:

М



Fig. 2. Points where shoulder straps and V-type crotch strap can be adjusted in standard harness.

In order to lengthen the shoulder or crotch strap, first insert the end of the webbing into the blocking buckle (stopper) and then take out the excess of the webbing at the side of the loop. In order to shorten the strap, do the opposite, i.e. first insert the webbing at the side of the loop into the blocking buckle and then take out the excess of the webbing at its loose end.

STEP 01



Fig. 3. Strap adjustment

STEP 02



Fig. 4. Strap adjustment

Guidelines for how to adjust NX Series harness:

1. In properly adjusted NX Series harness the waist strap should be placed few centimetres below the waist(you need to properly adjust the height at which the plate is installed as well as the length of shoulder straps). Too high or too low location of the waist strap will decrease your comfort.

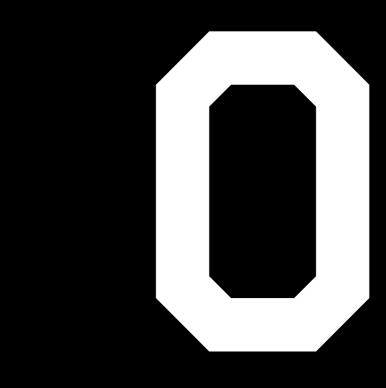
2. In NX Series harness the waist strap shall be fastened so that it is placed onto shoulder straps. The fastening of the waist strap should press the shoulders straps to the body improving the adjustment of the harness. You need to take it into consideration while adjusting the harness and check the adjustment of shoulder straps after you fasten the waist strap.

3. The length of the crotch strap should be so adjusted that after the fastening the waist strap falls downwards creating Y shape with the crotch strap.

4. The crotch strap should not be too short since it could be more difficult to find it while putting on the harness.

7 **CONNECTING THE SCUBA TANK**

М



22



CONNECTING THE SCUBA TANK

DANGER

AN INCORRECTLY CONNECTED TANK MAY UNEXPECTEDLY DETACH FROM THE HARNESS. SUCH SITUATION IS EXTREMELY DANGEROUS AND MAY RESULT IN A SERIOUS ACCIDENT OR EVEN DEATH. THEREFORE THE TANK CONNECTION HAS TO BE INSPECTED CLOSELY.

Attention:

PROJECT buoyancy compensator is designed to be used with tanks of parameters indicated in technical specification included at the end of this manual. Using this compensator with other types of tanks, although physically possible, is not recommended.

In order to connect the double scuba tank in proper and safe way, read and understand the user manual delivered with the double set.

To install the BC on double tank set:

1. Put the double tank set in the stable surface to have bolts on the top.

2. Place the BC on the bolts. The inflator's elbow adapter should be on the cylinder-side.

3. Place the backplate on the bolts.

4. Tighten the screws.

WARNING

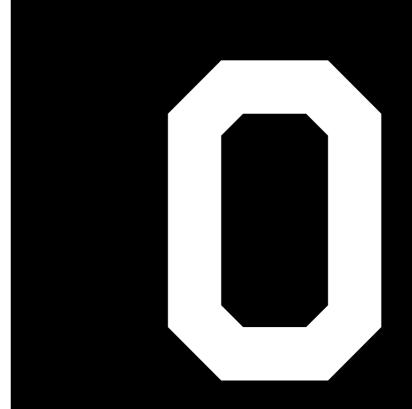
BEFORE CONNECTING THE BCD TO THE CYLIN-DERS CHECK THE DISTANCE BETWEEN BOLTS IF IT'S EXACTLY 11 INCHES (279.4) AND CORRECT IF NECESSARY.

М

WARNING

CHANGING THE POSITION OF THE BCD AGAINST CYLINDERS MAY SIGNIFICANTLY AFFECT YOUR TRIM. AFTER CHANGING THE POSITION OF THE BCD YOU MUST CHECK THE TRIM IN SHALLOW WATER BEFORE THE FIRST DIVE.

CONNECTING THE LP HOSE





CONNECTING THE LP HOSE

To allow for proper operation of the inflator it must be connected to the LP port of the 1st stage of the regulator using the LP hose supplied with the BC.

DANGER

LP HOSE CONNECTION USING THE 1ST STAGE OF THE REGULATOR MUST BE MADE TO THE LOW PRESSURE (LP) PORT ONLY. CONNECTION TO THE HP PORT MAY RESULT IN SERIOUS INJURIES AS WELL AS DAMAGE TO THE EQUIPMENT.

In order to connect the LP hose to the inflator you should gently pull at the sleeve of the LP hose's nozzle (step 1), and then put the nozzle onto the quick connector (step 2), as presented in the pictures below:

WARNING

THE INFLATOR SUPPLY PRESSURE VALUE SHO-ULD BE BETWEEN 6 AND 15 BAR. BEFORE CON-NECTING THE INFLATOR TO THE LP HOSE, MAKE SURE THAT THE PRESSURE FROM THE REGULA-TOR IS WITHIN THIS RANGE. М

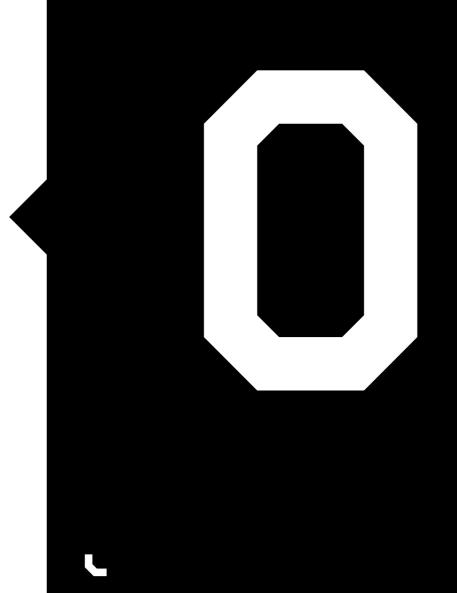


Fig. 5. LP hose connection



Fig. 6. LP hose connection

PRE-DIVE INSPECTION





PRE-DIVE INSPECTION

Before every dive it is necessary to follow the inspection procedures for checking the correct operation of all BC elements. Even if on a given day you have already dived using your BC, before diving again make sure that all of its elements are working correctly.

1.

Check that no element of the BC show any signs of wear, paying particular attention to the condition of webbing, buckles, the outer shell and the LP hose.

2.

Check whether all detachable elements are tightened correctly; those are: bolts, valves, hose adapter and single tank adapter (if applicable).

3.

Check the BC's oral inflation putting the inflator's mouthpiece into your mouth and pressing the purge button while breathing out. Using this method, inflate the BC to at least half of its volume.

4.

Press the inflator button until the automatic dump valve is activated. The automatic dump valve should open with a characteristic sound. The air supply should stop immediately after release of the inflator button.

5.

Check the correctness of manual operation (opening) of the dump valve by pulling on its string. By doing so you should release air.

6.

Inflate the BC using the inflator button and then press the purge button, checking whether air is being released from the oral inflator's hole. Repeat this step a couple of times.

7.

Inflate the BC using the inflator button and leave it fully inflated for 15 minutes. After the 15 minutes the BC should remain full. If it is not, do not use it until the defect is removed by an authorized XDEEP service center.

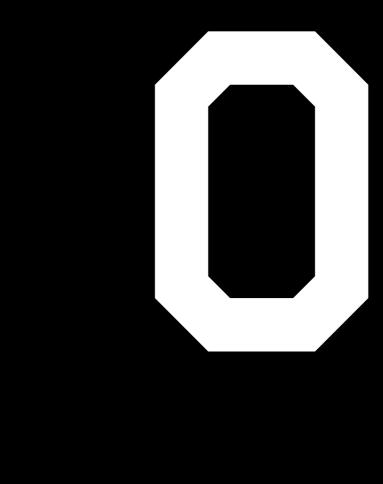
8.

During descent, stop at three meters at the most and perform mutual buddy-check, visually inspecting the BC against any leakages.

Caution:

Air bubbles appearing on the outer shell do not necessarily mean leakage. They may result from air being stuck in the structure of the fabric or under the inner shell.







OPERATION

POST-DIVE MAINTENANCE

Buoyancy on the surface

In order to ensure maximum buoyancy on the surface, before getting into the water (or directly afterascending) inflate the BC using inflator button. Stop inflating the BC when the automatic dump valve activates.

DANGER

BEFORE JUMPING INTO DEEP WATER FROM A BOAT OR A BANK INFLATE THE BC USING THE INFLATOR BUTTON. GETTING INTO WATER WITH THE BC NOT FULLY INFLATED MAY RESULT IN **DROWNING!**

Ascent

Ascending too quickly may result in decompression sickness. Therefore you must control the rate of ascent by gradually releasing the expanding air from the BC with the purge button.

DANGER

ASCENDING OR REDUCING THE DEPTH LEVEL **TOO QUICKLY MAY RESULT IN DECOMPRESSION** SICKNESS (DCS). ALWAYS PAY ADEQUATE ATTEN-TION TO BUOYANCY CONTROL AND RESPECT THE **ASCENT RATE LIMITS.**

Descent

In order to descend, press the purge button holding the inflator over your head. Use the purge button with care, as releasing too much air may result in an uncontrolled descent.

Neutral buoyancy

Maintain neutral buoyancy for a given depth during the dive, using the inflator and purge buttons as needed.

In order to ensure precise control over buoyancy you should press the inflator button for a short moment. If more air needs to be added to the BC, press the inflator button for a short moment several times.

During release of air from the BC hold the inflator over your head, so the air may escape freely.





POST-DIVE MAINTENANCE

REPAIR AND MAINTENANCE

Disconnecting

After diving, take out the weight from the weight pockets (if applicable), disconnect the LP hose from the inflator, and then disconnect the tank.

Draining

Inflate the BC orally using the purge button of the inflator. Next turn the BC to keep the automatic dump valveat the lowest point of the BC. Pull the valve string, at the same time pressing the BC with your hands to make water flow out by the open dump valve. Repeat the procedure until all water is removed from the BC.

Rinsing

Every time you use the BC in salt or chlorinated water, it should be rinsed thoroughly inside and out with fresh water. Never use hot water for rinsing!

To rinse the BC inside, press the purge button of the inflator and fill the BC approximately ¼ full with water by means of a garden hose spout or other source of fresh water. Rotate the BC several times, and next drain it according to the above procedure.

WARNING

DO NOT PRESS THE INFLATOR BUTTON WHEN RINSING YOUR BC! THIS MAY MAKE DAMP AND OTHER CONTAMINANTS ENTER THE INFLATOR VALVE, WHICH MAY CAUSE SUBSEQUENT DAMAGE TO THE VALVE.

Drying

After every use, you should dry the BC thoroughly. When drying, the BC should be fully inflated and hung in a dry, airy and dark place. When drying, do not expose your BC to direct sunlight or extreme heat!

Storing

Store your BC partially inflated and hung in a dry and dark place away from sharp objects, lubricants, fuels or solvents.

WARNING

TO PREVENT YOUR BC FROM DAMAGE, YOU SHO-ULD NEVER KEEP IT WET FOR A LONGER PERIOD THAN A DOZEN OR SO HOURS.

REPAIR AND MAINTENANCE

XDEEP BCDs does not contain any elements which can be repaired by the user, and so all repairs (including lubrication or replacement of worn-out elements) should be performed only by trained technicians holding certificates issued by the producer (authorized service center).

For repair of XDEEP BCDs, only elements and spare parts supplied by the producer must be used. Elements and spare parts from other sources, although identical by all appearances, may have slightly different properties, which may negatively affect the working life of the BC.

The only maintenance procedure which may be performed by the user is rinsing the BC in fresh water. It is recommended after diving in salt or chlorinated water. On no account should detergents, cleaning agents or solvents be used for cleaning the BC. In case of heavy soil, contact the producer for additional information.

WARNING

FOR SAFETY REASONS, THE BC SHOULD BE OVERHAULED AFTER EVERY 200 DIVES, HOWE-VER NOT LESS FREQUENTLY THAN ONCE A YEAR. SUCH OVERHAUL SHOULD BE PERFORMED BY AN AUTHORISED XDEEP SERVICE CENTRE. М

SPECIFICATION



SPECIFICATION

Inflator

Basic parameters		Туре	K-type
Туре	Double shell toroidal type BCD with the NX Seriess harness	Working pressure range	From
Buoyancy	230 N	Permisible tank parameters	
Outer shell fabric	Cordura 1100 dTEX	Туре	Double ta
Bladder fabric	Nylon 440 dTEX	Size	2x 1
Mounting bolts displacement	11 inch (27.94 cm)	Diameter	From
Full set weight (without weight pockets):	3.3 kg (7.3 lbs)	Operating temperatures	
		Water	Froi

Air

6 bar to 17.23 bar (250 PSI)

tank set (twinset)

18 L

140 mm to 220 mm

om -2°C to 40°C

From -20°C to 60°C



CE



© 2016 XDEEP, All rights reserved.