PROCEAN®



DRYSUIT USER GUIDE FOR

Technical
Technical Cave
Technical Cave Kevlar
Extreme
Extreme light
Rescue

SUIT INFORMATION

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IMPORTANT NOTICE

PROCEAN reserves the right to modify any products, processes and manufacturing techniques at any time. It is the technicians responsibility to acquire the latest information and parts from PROCEAN .

Should any warnings or information in this manual be unclear or not fully understood, please contact PROCEAN before using the product.

INTRODUCTION

Congratulations on purchasing your PROCEAN Drysuit.

Please be sure to thoroughly read and understand the contents of this user guide. Should you have any questions, please contact your nearest dealer, or our customer service department.

IMPORTANT NOTICES

Any critical information or warnings that might affect the performance of the product or result in injury to the user and/or others are highlighted with the following symbols.

CAUTION

This symbol Indicates a potentially hazardous situation which, if not avoided may result in injury.

WARNING

This symbol Indicates a potentially hazardous situation which, if not avoided may result in serious injury.

DANGER

This symbol Indicates an imminently hazardous situation which, if not avoided may result in serious injury and in extreme circumstances death.

WARNING

IMPORTANT NOTICE

For your protection while using PROCEAN diving equipment we would like to bring to your attention:

1. Any use of this equipment is conditional to reading, understanding and following this user guide.
2. Use of the equipment is limited to those applications described in this guide and for purposes granted in writing from PROCEAN.
3. The equipment must be serviced annually (eg examined, serviced, and if necessary repaired) by an Authorized PROCEAN technician. This maintenance must also be documented. Please use the enclosed logbook.
4. If the equipment is improperly serviced, or repaired by persons not trained by PROCEAN, and in cases where the equipment is used for purposes not specifically designated; liability for the correct and safe function of the equipment transfers to the owner/user.
5. Instructions and statements contained in this document are based on the latest information available prior to printing. PROCEAN reserves the right to make changes at any time.
6. Local statutes and regulations must be followed when transporting this equipment.

DRY SUIT TYPES AND OPTIONS

Further information concerning dry suit types, options and available accessories can be obtained from your PROCEAN authorized dealer.

WARNING

Failure to follow ALL warnings and instructions concerning the use and maintenance of this product mat result in serious injury and in extreme circumstances death.

MATERIAL DESCRIPTIONS

PROCEAN Dry suits are manufactured from either:

a) Tri-laminate material
b) Closed cell neoprene material
c) Butyl (nil bubble) rubber material
d) Twin shell system suits

Naturally these materials are completely waterproof, and therefore NOT breathable.

The result of this will be that a small amount of condensation formes on the inside of the fabric of the Dry suit.

The PROCEAN Dry Suit is designed to keep you, and your insulation DRY while underwater. While some Dry Suit materials may offer a certain degree of thermal protection, some type of THERMAL underwear should be used.

Ask your dealer about our range of undersuits specifically designed for the PROCEAN range of dry suits.

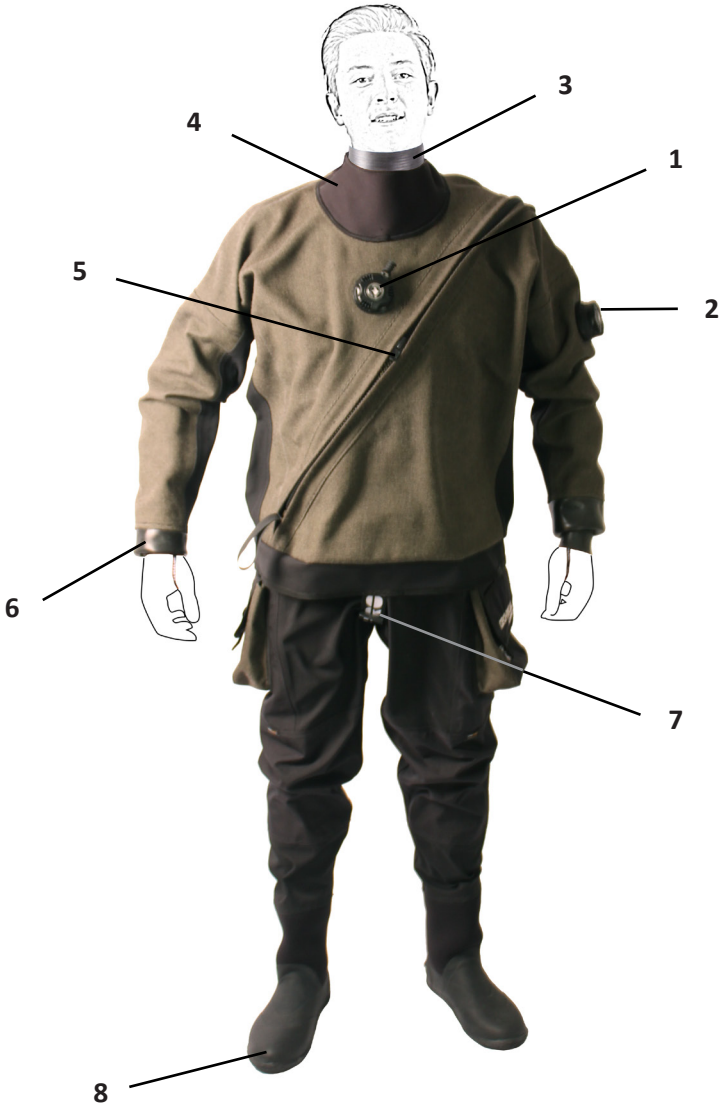
CAUTION

You are STRONGLY advised to use a recommended undersuit in conjunction with your PROCEAN Dry Suit.

WARNING

In ADDITION to your drysuit system, an ALTERNATIVE means of surface support / flotation MUST be used.

A Buoyancy Compensator Device (BCD) MUST be used for all sport diving activities.



MODEL DESCRIPTIONS

1. Inlet Valve, Inclusive hose
2. Exhaust valve
3. Neck seal
4. Warmneck
5. DRY zipper
6. Wrist seal
7. Crotch strap
8. Dry boots

EDUCATION

This PROCEAN drysuit is not just a suit, but an important piece of diving equipment .

WARNING

You MUST therefore successfully complete a comprehensive dry suit diving courses, conducted by a suitably qualified diving instructor, from one of the recognized professional training agencies.

Your PROCEAN drysuit is much more than just a suit, it is a combination of products, including inlet valves using compressed air, and automatic outlet valves (constant volume) or manual dump valves .

You are therefore advised to seek education for your specific suit.

CAUTION

You are STRONGLY advised to succesfully complete a comprehensive dry suit diving courses, conducted by a suitably qualified diving instructor, from one of the recognized professional training agencies, in YOUR own Dry Suit.

FITTING THE DRYSUIT

PREPARATION

1. Check that the zipper is clean, free from sand and other debris.
2. Apply a small amount of Wax to the zipper (Use PROCEAN recommended products) and carefully open and close the zipper to check its function.
3. Should the zipper jam or prove difficult to close/open DO NOT force the zipper.
   Pull the slider back again check for the reason for the jam, clear it, and then attempt to close the zipper again.
4. Now open the zipper.
5. Apply a liberal coating of “Latex powder” to the inside surface of the latex NECK and WRIST seals.

1



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3



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10



FITTING THE DRY SUIT

1. Remove any Jewellery, watches etc. from your wrists, neck, ears etc. as these items may have sharp edges that will damage latex parts (neck & wrist seals).
2. Climb in through the zipper and pull the suit up to your waist.
3. Fit and adjust the Braces (if fitted to your suit style).
4. Place your arm through the sleeve of the arm opposite the zipper slider, and pull your hand through the cuff seal.
5. Place your other arm through the other sleeve, and pull your hand through the cuff seal.

5.1 Adjust the cuff seals taking care not to damage the seals with your finger nails.

5.2 Check that there is no clothing between the seal and your skin.

6. Grasp the Neck seal, from the outside. Gather up the neck seal with your fingers, as shown in the image.
7. Pull the neck seal over your head, while stretching the neck seal sufficiently, as shown in the image.

7.1 Adjust the neck seal taking care not to damage the seals with your finger nails so that it fits closely without creases.

8. Pull up the waist of the suit untill the crotch is in the correct place.

9 Fold the jacket waist downwards.

9.1 Correctly adjust and fasten your crotch strap.

CLOSING THE DRY ZIPPER

10. You will need to ask someone to help you to close the zipper. Ask them to run their fingers along the inside of the zipper to prevent clothing from becoming caught between the teeth of the zipper.

CAUTION

Trapped clothing, or an incorrectly closed zipper may result in:

a) damage to the zipper.

b) Leaks at the zipper.

c) The zipper to BURST open.

Should the zipper jam or become stiff to use, pull it back a small distance, look for the cause of the jam, clean the chain, and then try to close the zipper again, SLOWLY

REMOVING THE DRY SUIT

1. You will need to ask someone to help you to Open the zipper for you.
2. Gather the neck seal with your fingers.
   Avoid damaging the seal with your finger nails.
3. Placing your head both forward and downward.
4. Pull and stretch the neck seal up and over your head.
5. Pull wrist seal over your hand.
6. Pull wrist seal over your hand.
7. Remove the rest of the suit.

USING THE DRY SUIT VALVES

PRE-DIVE CHECKS

1. Before entering the water you are required to check your valves.
2 Having fitted the suit, turn the automatic exhaust valve “Clockwise” to the “ + “ stop.
   Note correct function of the automatic exhaust valve.
3. Inflate the suit using the suits inflation valve.
   Note correct function of inflation valve.
4. While inflating the suit, bend the body at the same time to increase the internal pressure.
5. Press the valve lid to check that the valve dumps air manually.
6. Increase the internal pressure in the suit again, and turn the automatic exhaust valve “Counter-Clockwise” towards the “ - “ stop.
7. The automatic exhaust valve should vent air from the suit at a point between the “ + “ and “ - “ stops. By increasing or decreasing the internal pressure of the suit this setting will change.

WARNING

You MUST successfully conduct, the Pre-dive checks on your dry suits inflation and deflation valves. These checks MUST be conducted before each and every use of the dry suit.

DANGER

Should any valve fail the pre-dive checks you MUST NOT DIVE until the suit has been checked by an authorized dealer of PROCEAN.

USING THE DRY SUIT

THE FIRST DIVE

To be conducted with your diving Instructor.

1. Make sure that your inflator hose is connected and that a sufficient supply of compressed air is available.
2. Start this session by making a careful determination of the required weighting as follows:

a) Enter shallow water with the automatic exhaust valve open.
b) Ensure that your BCD is completely empty.
c) Add weights until the top of your head is touching the surface.
d) Calculate the weight loss of used air.
e) Add a further 1kg and put the total calculated weight on the weight belt.
f) Adjust the volume in the suit by turning the automatic exhaust valve "Clockwise" towards the " + " stop, adding air as necessary to achieve neutral buoyancy.

CAUTION

You are Required to conduct, a Confined water check out with your instructor to determine the required weight requirement for you to achieve correct buoyancy control. This Must , be conducted under actual diving conditions, e.g. full equipment.

DIVING THE DRY SUIT

Descending

1. Make sure that your inflator hose is connected and that a sufficient supply of compressed air is available.
2. When proper weighting is achieved, lift arm with the automatic exhaust valve to vent air, descend feet first.
3. When under the surface, tilt over to normal swimming position.

Descending

4. While descending compensate for compression, and rate of descent by adding air as necessary to the Dry suit.
5. Whenever changing depth ALWAYS be aware of the need to control the Buoyancy of your dry suit by either adding or venting air.

Ascending

1. While ascending it is important to be in a position where the EXHAUST valve is in the highest position.
2. Open the exhaust valve “anti-clockwise” a very small amount.
3. Ascending will create a volume and pressure increase within the suit. This increase in pressure will exert a force on the piston of the exhaust valve, which if correctly adjusted will automatically vent excess air.
4. It is important that your left arm is free, allowing you to keep the exhaust valve as the highest point.
5. You should have good access to the exhaust valve with your right hand so that you can push down on the valve if manual venting is required.
6. If swimming in the Horizontal, you will need to keep the valve as the highest point (this may require you to roll so that the exhaust valve is the highest point) and the valve, which if correctly adjusted will automatically vent excess air.

WARNING

You SHOULD ONLY USE YOUR DRYSUIT FOR BUOYANCY CONTROL when diving with a variable volume drysuit.

ADDITIONAL FLOTATION

1. Use your BCD etc. for surface flotation support when diving with a dry suit.
2. On the surface, turn your exhaust valve “clockwise” to the “ + “ stop . This will retain the internal pressure / air volume of the suit, and aid surface flotation while swimming.

MAINTENANCE OF THE DRY SUIT

CLEANING

1. Wash the outside of the suit with fresh water after each dive, being careful to clean the valves and zipper.
2. Remove any stains with a mild solution of “Suit Cleaner”
3. Flush the exhaust valves through with running water, while turning the valve lid backwards and forwards. This action will help to remove any possible salt build up. Use compressed air to blow the valves dry.
4. All latex parts that have come into contact with skin oils should be washed with a mild salt solution (warm if possible).
5. The inside of the suit should be cleaned with a mild solution of “Suit Cleaner”.

LUBRICATION.

1. Coat ALL latex parts with “Dry Seal powder”
2. Close the zipper and coat with a zipper wax.
3. Do NOT use Silicone or NON APPROVED lubricants as they may damage the fabric of the suit and the zipper tape.

STORAGE OF YOUR PROCEAN DRY SUIT

1. The operations under CLEANING and STORAGE must first be carried out.
2. Defective or perished seals should be replaced.
3. Store with zipper OPEN
4. Store in a DARK, DRY and COOL place.

REAR ENTRY SUITS

1. Storing the suit rolled.
2. Holding the suit by the boots, place the boots on top of each other heel to toe
3. Now roll the suit from the boots working up to the top of the suit.
4. Fold the arms across the suit.
5. Place in storage bag.

FRONT ENTRY SUITS

1. Storing the suit rolled.
2. Place the suit face down.
3. Fold the arms across the suit.
4. Now roll the suit from the top down.
5. Place in storage bag.

REPAIRS TO THE DRY SUIT

Self repair should only be carried out in the extreme case when the suit cannot be brought to a repair service center.

CAUTION

Any self made repair may lead to leaks, water ingress, and air pressure loss. You are Required to bring your suit to an authorized service center.

1. Repair kits are available, please contact your dealer.

LUBRICATION

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2. Close the zipper and coat with a zipper wax.
3. Do NOT use Silicone or NON APPROVED lubricants as they may damage
   the fabric of the suit and the zipper tape.

STORAGE OF YOUR PROCEAN DRY SUIT

1. The operations under CLEANING and STORAGE must first be carried out.
2. Defective or perished seals should be replaced.
3. Store with zipper OPEN
4. Store in a DARK, DRY and COOL place.

WARRANTY TERMS FOR THE DRY SUIT

WARRANTY TERM - SUIT

1. This warranty is valid for a period of TWO years against the SUIT excluding Valves and latex seals, for the ORIGINAL PURCHASER of the DRY SUIT.
2. This warranty is against manufacturing defects, and faulty material ONLY. It does NOT include normal wear and tear attributed to the suit being used.
3. When any part of the suit excluding valves, and latex seals (after technical assessment and testing) proves to be defective (excluding normal wear and tear) within a period of two years from date of purchase, they will be repaired or replaced free of charge.

WARRANTY TERM - VALVES

1. The warranty for the valves is valid for a period of one year for the ORIGINAL PURCHASER of the DRY SUIT.
2. This warranty is against manufacturing defects, and faulty material ONLY. It does NOT include normal wear and tear attributed to the valves being used.
3. When any part of the valves, (after technical assessment and testing) proves to be defective (excluding normal wear and tear) within a period of one year from date of purchase, they will be repaired or replaced free of charge.

WARRANTY TERM - LATEX SEALS

1. The warranty for the latex components is valid for attachment, and for faults found immediately at time of purchase ONLY.

WARRANTY VALIDITY

1. This warranty will only be valid when the PURCHASER has their DRY SUIT checked and serviced by an Authorized PROCEAN dealer, and that the Service record has been filled in, dated and stamped.
2. This booklet, and the completed service record MUST be returned with thesuit when ANY form of warranty claim is submitted.
3. Warranty is void by unauthorized repairs.
4. This warranty is VALID for the ORIGINAL purchaser only.

CAUTION

PROCEAN disclaims ALL liability any accidents caused by incorrect handling or maintenance.

LOG BOOK

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