



**DRY SUIT**  
**USER'S MANUAL**

English  
ver. 2.1

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Thank you for purchasing a DiveSystem® dry suit. Every DiveSystem® dry suit is rigorously made in Italy within DiveSystem® premises, with the best quality materials and the best productive techniques.

All our dry suits are CE certified according to legislation EN 14225-2:2005

## IMPORTANT WARNINGS

**This manual CANNOT replace a qualified Instructor's instructions.**

Please, don't use this dry suit until you don't have acquired practical skills of diving with a dry suit, in a controlled location, under a qualified Instructor's supervision.

**Please, make sure to follow all instructions and safety warnings contained in this manual.** An improper or bad use of this dry suit can cause serious injuries or death, caused by the loss of buoyancy control or by the exposure to thermal dangers such as hyperthermia or hypothermia.

**This dry suit is neither a lift bag nor a BCD.** Do not use the buoyancy capacity of your dry suit as means to lift heavy objects underwater. Do not use the dry suit in substitution of a BCD.

**Pay particular attention in cold waters (<7°C):** diving in cold waters (<7°C) is particularly dangerous. Even if DiveSystem® equipment are suitable for these kind of dives, a special training made by a qualified instructor is necessary anyway. Do not take part to dives in cold waters unless you are properly trained and adequately equipped.

**Pay particular attention also to neck and wrist seals measures.** Please ensure that the measures of neck and wrist seals are suitable to your build. In particular, a extremely tight neck seal can cause serious risks to the user. Please refer to DiveSystem® or to a DiveSystem® authorized dealer to intervene on neck and wrist seals.

**Before diving, always check the conditions of valves, zips and seals of your DiveSystem® dry suit.**

## Choice of the appropriate undergarment

The choice of the appropriate undergarment depends on several factors such as:

- Thermal insulation of the dry suit
- Water temperature
- User's sex, mass and weight.

Anyway, the undergarment must not prevent the diver from movements. It must guarantee a thermal insulation neither excessive nor insufficient in order not to incur respectively in hyperthermia or hypothermia.

Avoid to wear fabrics that get drench when in contact with the skin (such as cotton). Use appropriate transpiring technical shirts.

## How to store a dry suit

- To store the dry suit, especially if you will not use it for longtime, it is necessary:
- To wash both the exhaust and the inflating valves accurately with running fresh water
- To wash the dry suit and let it dry in a shady place
- To carry out the ordinary maintenance of the zip. Close the zip leaving 2-3 cm from the zip end. This precaution will allow you to handle the zip more easily in case of oxidation owing to a long stop or to an imperfect maintenance. If the zip should oxidize, an ordinary maintenance should be carried out immediately
- To hang the dry suit to a wide shoulders hanger, paying particular attention to the neck position
- To hang the dry suit in a fresh, dry and shady place.

## How to dress a dry suit

### Preliminary actions.

Especially when a dry suit is new, the exhaust valve is normally subject to settlement inside its site. Such settlement may recur also after long periods of the dry suit's inactivity.

Before diving it is still necessary to check and, just in case, clamp the exhaust valve. Grasp the external ferrule base and the inner valve, clamping clockwise.

**Attention:** Clamp the valve grasping the external ferrule base, not the valve itself (meaning the part used to open or close the valve's drain during the dive).



An incorrect exhaust valve's clamping may let water get inside the valve's site.

### Dressing/undressing preventive measures

**Attention:** never ever use the side dry suit's pockets as handholds to wear/unwear the dry suit.

**Attention:** do not walk with the dry suit without using the shoes given along with the suit itself. If stepping on possible sharp objects, damages to the dry suit and its user may be caused.

## Dressing a neoprene wrist seal

Lubricate with neutral soap or mineral talcum powder both neoprene wrist seal's inner part, then insert your hand, closed as a cone, inside the cuff.



Insert two/three fingers of the other hand inside the cuff and enlarge the wrist to ease up the wrist seal's wearing.

Attention: enlarge the wrist seal with your fingers well stretched out, do not grasp the wrist seals with nails.



Stretch the wrist seal helping yourself with the dry suit's sleeve.

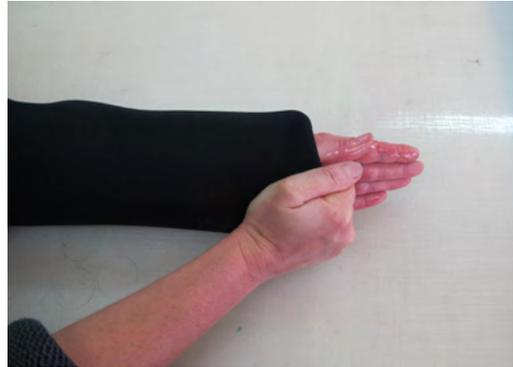
Attention: do not pull the wrist seal grasping it directly; pull from the dry suit's sleeve.



## How to undress a neoprene wrist seal

Pull the cuff out helping yourself with the dry suit's sleeve.

**Attention:** it is very important to pull taking the dry suit's sleeve, not the wrist seal.



**Attention:** do not pull from the wrist seal. Even a brand new cuff can be irretrievably damaged by a wrong dressing/undressing, with a consequent need of wrist seal's replacement.



## How to dress a neoprene neck seal

Insert your head inside the dry suit until you arrive to touch the dry suit's neck seal. Insert your hands from the neck seal's sides and enlarge it.

**Attention:** insert your hands from your ears' side, not from your chin.



Insert your head enlarging the neck seal.



Tip the neck seal over on the dry suit's inner part, so that the neck seal's smooth part is in contact with your skin.



**Attention:** tip the neck seal over carefully. A wrong or not sufficient fold could cause water entrance during your dive.



**Attention:** do not grasp the neck seal's smooth part with your nails when dressing/undressing your dry suit. Even a brand new neck seal can be irremediably damaged by a wrong dressing/undressing, with a consequent need of neck seal's replacement.



## How to undress a neoprene neck seal

Move outside the neck seal's smooth part which has been previously in contact with your skin, paying particular attention not to grasp it with your nails.



As during the dressing phase, insert your hands on the neck seal's sides and enlarge it; pull your head out.

**Attention:** do not grasp the neck seal's smooth part with your nails when undressing your dry suit.



## How to dress a latex cuff

Lubricate with neutral soap or with mineral talcum powder both latex wrist cuffs' inner part, insert your hand closed as a cone inside it

**Attention:** enlarge the wrist seal with your fingers well stretched out, do not grasp the wrist seals with nails.



Stretch the latex wrist seal carefully so that it adheres to your wrist very well

**Attention:** if the latex wrist seal is not well stretched on your wrist, it can cause water seepage.

**Attention:** do not use the dry suit's sleeve as handhold to wear the cuff.



## How to undress a latex wrist seals

Insert two fingers inside the latex wrist seal, making sure to hold the whole cuff's length.

Stretch your hand out the wrist seal.



**Attention:** even a brand new wrist seal can be irremediably damaged by a wrong dressing/undressing, with a consequent need of wrist seal's replacement.

**Attention:** do not pull the latex seal from its extremity

**Attention:** do not grasp a latex wrist seal with your nails

To avoid any problem while undressing the wrist seal, pay particular attention to lubrication carried out during the dressing phase.

## How to dress a latex neck seal

Insert your head inside the dry suit until you arrive to touch the dry suit's neck seal. Insert your hands from the neck seal's sides and enlarge it.

**Attention:** insert your hands from your ears' side, not from your chin.



Insert your head enlarging the neck seal.



**Attention:** enlarge the neck seal with well stretched fingers, do not grasp the neck seal with your nails.

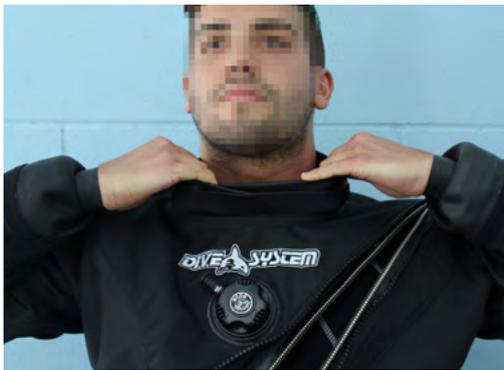
Stretch the latex neck seal out carefully, so that it adhere well to your neck.

**Attention:** if the latex neck seal is not well stretched out on your neck, water seepage may occur.

## How to undress a latex neck seal

As for the dressing phase, insert your hands from the neck seal's sides and enlarge it making sure to catch the neck almost until its end.

Pull your head out.



**Attention:** even a brand new neck seal can be irremediably damaged by a wrong dressing/undressing, with consequent need of neck seal replacement.

**Attention:** do not pull the latex neck seal from its top.

**Attention:** do not grasp the latex neck seal with your nails

## How to dress a dry suit with front zip

### Foot and Legs

Dress the dry suit until your pelvis, having care to let the braces out before introducing your legs.

**Attention:** never ever use the side pockets as handholds to pull the dry suit.

We suggest to wear and tie the speleo boots before going on to dress the dry suit.

### Braces.

Wear the braces having care to cross them on your shoulders.

**Attention:** the braces must not impede movements. Adapt the braces well through their buckles. An incorrect braces regulation may affect the dry suit's comfort.



## How to dress the sleeves

Make sure that the zip is completely opened and the crotch suspender unfastened.

**Attention:** if the zip is not completely opened, may render the dressing phase difficult and, above all, it could be subjected to breakage.

Insert the your left arm (pic. 1) and bring the zip's metallic part close to your neck.

Insert your right arm (pic. 2). The sleeve will be next to your gluteus.

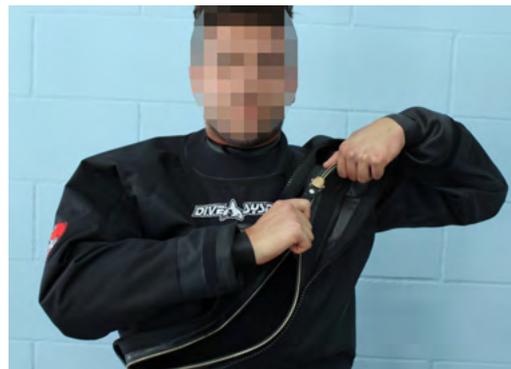
Insert your left shoulder inside the dry suit and prepare to wear the neck seal (pics 3 and 4).



## How to close a front zip

Take the slider with your right hand, grasping the zip with your left hand to ease the closure up.

Close the zip completely. Until you don't have acquired a certain familiarity with a dry zip, we suggest to let your buddy check that it is completely closed.



**Attention:** make sure that the dry zip always works in the correct position and tension.

**Attention:** pay particular attention not to catch the undergarment in the zip.

**Attention:** if the zip should not slide fluently, it is necessary to carry out the ordinary maintenance (see chapter "maintenance")

**Attention:** an incorrect use or the lack of maintenance may heavily reduce the dry zip's life.

## Folding.

Make the dry suit's jacket fold and fasten the crotch buckle.  
The folding give the diver a great possibility of movement and to ease dressing and undressing up.

**Attention:** for a correct folding functioning the braces must not be excessively tight or broad (see chapter "braces")



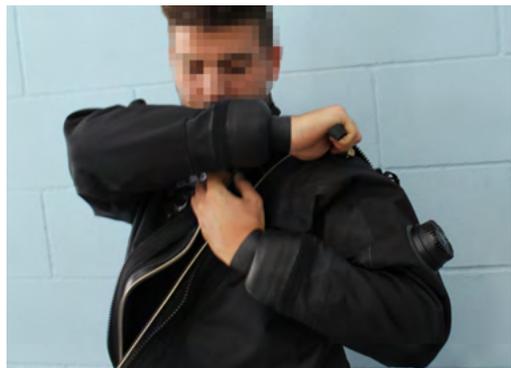
## How to undress a dry suit with front zip

Unfasten and open the folding.



Open the zip completely

**Attention:** a not completely opened zip, besides rendering very difficult undressing phase, is also heavily subject to breakage.

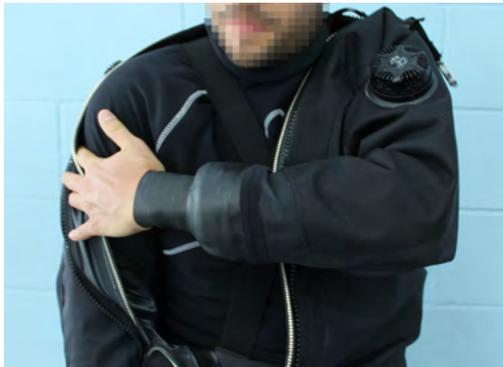


Undress the neck seal (see chapters "how to undress a neoprene neck seal" "how to undress a latex neck seal")



Take the zip next to your neck's left side.  
Undress the right cuff (see chapter "how to undress a neoprene wrist seal" and "how to undress a latex wrist seal")

Let your right shoulder come out .



Grasp the right sleeve with your left hand behind your back and extract your right arm.



Proceed with undressing of your left arm and the rest of the dry suit.

## How to collapse a dry suit

Before diving, it is always advisable make your dry suit collapse, any model you might have.

1- Enlarge your dry suit neck seal.

**Attention:** use all cares described in the chapter "how to wear a dry suit"

2- Crouch down to make all excessive air come out from your dry suit

3- Close the neck seal

4- Stand up and check that any excess of air has remained inside the dry suit.

Just in case, repeat the operation.



## How to connect the inflating hose

Connect the hose given along with the dry suit to a low pressure exit (lp) of your fist stage.

Attention: do not connect the hose to a high pressure exit (hp). Connecting a low pressure hose to a high pressure exit of first stage may cause the explosion of the hose itself with risk of serious injury.



Remove the valve's protection cap.

Connect the hose to the inflating valve on the dry suit's chest by the bayonet fitting, paying attention there isn't sand, salt crystals or anything else on it.

Open the tank and check the loading buttons correct functioning.

**Attention:** unless in case of emergency, do not connect/disconnect the hose from the valve while you are in water. The air under pressure may cause the water remained between the hose and the inflating valve's fittings enter inside.

**Attention:** this product has been designed to be used with gas mix containing 40% of oxygen maximum. Mix containing more than 40% of oxygen or other corrosive gases, may cause a premature decay or malfunctioning of the dry suit's components.

## Maintenance.

### Dry zip maintenance.

A wrong maintenance of the dry zip may cause a premature decay or malfunctioning of the dry suit's zip.

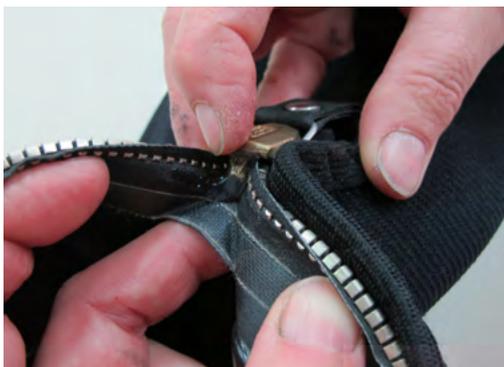
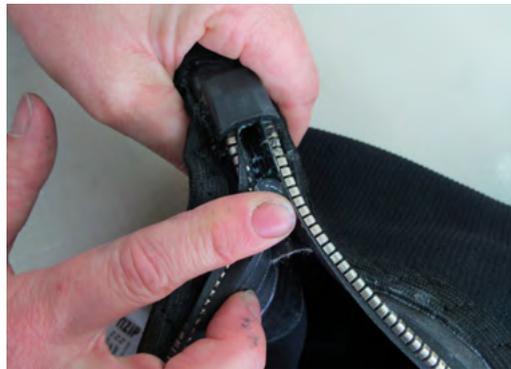
Carry out regular maintenance or anytime you perceive resistance in the dry zip sliding. It is advisable to carry out this procedure both before and immediately after a long inactivity period of the dry suit.

Before starting maintenance, make sure that there aren't any salt debris or other material on the zip. Wash with fresh water and let dry the dry suit before carrying out maintenance.

Do not use materials which may leave fiber debris on the zip's metallic part (for example absorbent cotton).

Put a small quantity of silicon lubricant for zippers in the cavity on both sides of the zip and let it slide twice, so that the lubricant is well distributed in the inner zip's teeth.

**Attention:** do not exceed in the quantity of lubricant.



Apply a small quantity of zip oil on both zip's external sides, for all zip's length. Pass uniformly the oil on the zip with a paper handkerchief.

**Attention:** do not exceed in oil quantity.

**Attention:** If the due oil for zips would not be available, it is possible to use the oil for sewing machines or oil for weapons.

**Attention:** If you prefer to use wax is important clean the zipper before to apply the wax. Remove any trace of old lubricant and dirt from the chain. You need to use pure wax (white color) do not use candles.



**Attention:** Never ever let the oil pour out the zip, both on the zip's base and on zip's seals. Pay particular attention when applying the oil and remove possible pouring immediately



## Repairing a divesystem® dry suit

The dry suits are subjected to a normal usage and decay with time. Divesystem®'s dry suits are manufactured with the best available fabrics and using the best italian labour.

However, it could be possible that a dry suit needs to be repaired, both in the parts subject to normal usage (neck and wrist seals) and in case of holes and accidental leakages.

Repairing interventions carried out by not authorised and not suitably trained personnel (the training must be carried out by divesystem) let warranty fall.

Always send an e-mail to [export@divesystem.com](mailto:export@divesystem.com) for any query and address your dry suit to our company anytime intervention is needed.