



# DRY GLOVES

## FOR DIVING



Instructions for use



## Instructions for use

- Texts always confront with reality, that is why some untruthful information may occur in the older versions. You can always check the newest versions on [www.kubi.sk](http://www.kubi.sk).
- We welcome any new feedback on how to improve our products.
- We will try to react to any feedback. For further information contact us on [www.kubi.sk](http://www.kubi.sk).

### ***Dry diving gloves KUBI***

***Are light aluminum rings, with surface adjustment.***

***They are embedded by waterproof gloves.***

***They attach to cuffs on a dry suit.***

***The sealing area are solved by o-rings***

***They have brevet for construction solution.***

***They are suitable for every type of diving.***

***they allow high performance.***





# Contents

## Contents

### Part I. – description, maintenance, service, solving problems

|   |    |
|---|----|
| Description .....   | 4  |
| Glove part .....  | 5  |
| Glove part / details / o-rings .....  | 6  |
| Cuff part .....   | 7  |
| Cuff part / details / o-rings .....   | 8  |
| Cuff part / details / removal of cuffs – sliding off the ring .....                 | 9  |
| Maintenance .....   | 10 |
| Service .....   | 10 |
| Recommendation .....  | 11 |
| Solving problems- folds created by wrong use .....                                  | 12 |
| Solving problems - the length of the sleeve .....                                   | 13 |
| Solving problems -- various (waterproof, cold, taking apart, length of glove) ..... | 14 |
| Warnings .....  | 15 |
| Important remarks to competitor products .....                                      | 15 |

### Part II. – Installation of rings onto the gloves

|   |    |
|---|----|
| Step 1 - Position of the glove ring before sliding into the glove ..... | 16 |
| Step 2 - Position of the glove ring after sliding into the glove .....  | 16 |
| Step 3 - Turning the gloves inside out .....                            | 17 |
| Step 4 - Putting on the fixing o-ring .....                             | 17 |
| Step 5 - Returning the glove to its original position .....             | 18 |
| Step 6 - Pulling the rim of the glove .....                             | 18 |
| Step 7 - Bending the rim of the glove .....                             | 19 |
| Step 8 - Sliding on the covering ring .....                             | 19 |
| Step 9 - Putting on the security o-ring .....                           | 20 |
| Step 10 - Putting the sealing o-ring into the channel .....             | 20 |

### Part III. – Installation on cuffs

|  |    |
|--|----|
| Step 1 - Cuff prepared for putting on the cuff ring .....                        | 21 |
| Step 2 - Turning the sleeve inside out .....                                     | 21 |
| Step 3 - Inserting the cuff ring .....   | 22 |
| Step 4 - Bending the cuff .....  | 22 |
| Step 5 - Putting on the fixing o-ring .....                                      | 23 |
| Step 6 - Beginning of turning the sleeve .....                                   | 23 |
| Step 7 - Continuing inserting the ring into the sleeve before turning .....      | 24 |
| Step 8 - Continuing inserting the ring into the sleeve before turning .....      | 24 |
| Step 9 - Continuing inserting the ring into the sleeve before turning .....      | 25 |
| Step 10 - In the final position, when the ring is flat, we turn the sleeve ..... | 25 |
| Step 11 - Gradually pulling out the ring out of the sleeve .....                 | 26 |
| Step 12 - Another gradual pulling out the ring out of the sleeve .....           | 26 |
| Step 13 - Final pulling of the ring out of the sleeve .....                      | 27 |
| Step 14 - Putting on the covering ring .....                                     | 27 |
| Step 15 - Putting on the fixing o-ring .....                                     | 28 |
| Step 16 - Pulling out the cuff .....   | 28 |
| Transportable case .....   | 29 |





## Description

### Contents of the glove set:

- 1) Rubber waterproof gloves
- 2) Set of o-rings
- 3) Set of aluminum rings

Dry diving gloves allow all-year- round diving, because they are thermostatic. The heat is kept inside the glove through the isolation of gas and textiles, even in cold water. A myth says that wet diving gloves allow the same maybe even better heat comfort as dry gloves. Physics certainly proves wrong this opinion.

Cold feeling in dry diving gloves can be a result of tight cuffs, which block the blood flow. Physiological premises cause, that the usage of the same gloves doesn't have to mean the same heat comfort for different divers. It is also a result of a used heat pad. It is ideal to use qualitative and modern materials with characteristics assigned for cold environment.

By maintaining the above mentioned conditions, dry gloves give you sufficient heat comfort and a much better touch in the fingers than wet gloves, which use thick neoprene layers.

Dry gloves, which you received are a patent protected solution which have undergone a long and intensive development. They are made so that you will receive the best possible performance.

To check all the benefits of this solution got to: [www.kubi.sk](http://www.kubi.sk).

These dry gloves are used by many divers and we are sure that it is the best possible solution that is accessible on the diving market.

We are prepared to answer any questions and feedback. We also guarantee utility throughout the whole life span of the gloves.

We wish you a lot of comfortable and successful dives.

For the whole team of people working on the development, testing, production, distribution, and selling.

Peter Kubička

Author of the constructive solutions

Instructor of technical diving





## Glove parts

- 2 x aluminum ring
- 2 x covering aluminum ring
- 2 x rubber waterproof gloves
- 2 x fixing o-ring
- 2 x security o-ring, so that the covering ring doesn't fall
- 2 x sealing o-ring



## Glove part / details / o-rings

(on the pic. on the left)

- **Fixing o-ring - measurements: 69,1 x 5,8 mm NBR70**

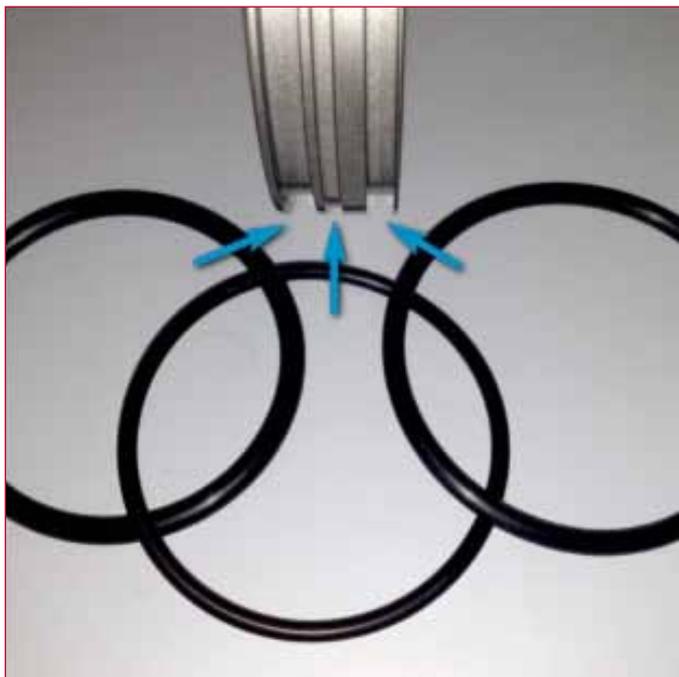
Used for holding the rubber glove. Lubricating is forbidden. Measurements can be adjusted when using a thicker wall of the glove. Even after changing the thickness of the glove wall and the fixing o-ring, the characteristics of the system and other elements of the set do not change. The characteristics of the covering ring also do not change meaning that that you don't have to replace it. It also doesn't move in a way, that it would disturb the characteristics of the set. Taking out during deinstalling is so, that pulling on the changing glove you pull out the fixing o-ring as well.

- **Security o-ring - measurements: 72 x 4 mm NBR70**

Secures the covering ring against movement. Lubricating is forbidden. The measurements don't change even if the glove is exchanged for another one than is supplied. Taking the o-ring out during deinstalling is done by lifting the o-ring by some plastic object.

- **Sealing o-ring - measurements: 75 x 5 mm NBR70**

Lubricating is forbidden. The measurements don't change even if the glove is exchanged for another one than is supplied. When using, it is necessary to keep this o-ring clean. Taking the o-ring out during deinstalling is done by lifting the o-ring by some plastic object.





## Cuff Part

- 2 x aluminum ring
- 2 x covering aluminum ring
- 2 x fixing o-ring
- 2 x security o-ring, so that the covering ring doesn't fall



## Cuff part / details o-ring

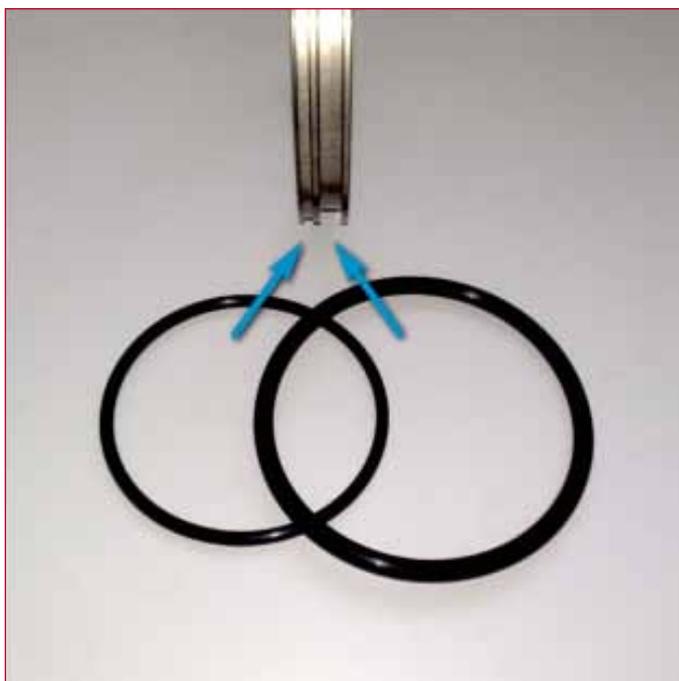
(on pic. On the left)

- **Security o-ring - measurements: 72 x 4 mm NBR70**

Prevents the cover ring moving. Lubricating is forbidden. Measurements don't change even if there is a different type of cuff than latex. Taking the o-ring out during deinstalling is done by lifting the o-ring by some plastic object.

- **Sealing o-ring - measurements: 84,1 x 5,8 mm NBR70**

It is needed to attach the aluminum ring to the cuff. Lubricating is forbidden. Measurements can change if the thicker side of the cuff is used. Even after the change in the wall thickness and fixing o-ring the characteristics of the system and other elements in the set don't change. The characteristics of the cover ring don't change as well therefore there is no need to replace it. It also doesn't move in a way that would disturb characteristics of the set. Taking out during deinstalling is so, that pulling on the cuff you pull out the sealing o-ring as well. Pictures showing how to do this can be found lower in this section of the instructions. The system is constructed to use any type of cuff material: latex, rubber, neoprene . the thickness is not a problem till 3 mm.



## Cuff part / details

### Removal of cuffs – sliding of the ring

The pictures show the method used when taking out the aluminum ring out of the cuff. Before that it is important to take out the fixing o-ring with help of a plastic object and slide the covering aluminum ring off. To slide of the cuff it is just move the cuff with your finger and it will slide down on its own. After it is necessary to take out the fixing o-ring from the cuff.





## Maintenance

Maintenance of the set is easy and it consists of only a few simple rules:

- 1) Maintain the sealing o-ring on the glove part clean
- 2) Maintain the sealing area on the cuff part clean
- 3) After the dive dry the warm pad from humidity and sweat
- 4) After the dive dry the rubber glove from humidity and sweat by turning the glove inside out
- 5) If you wash the whole system after you dived in salty or dirty water you will prolong the life of the gloves and you will prevent damage of the not sealing well. Filthiness or dried sea salt can create problems with sealing the system in upright position.

## Service

You can buy all the parts of the set separately therefore you can make a back up set. Information about the costs of the parts are available on our web pages.

With our product it is not necessary to provide service as it is made from parts which can be damaged only mechanically. Otherwise it always functions well. Consumer materials are rubber gloves, warm pads and o-rings.

In case you use two suits it is possible to buy an independent cuff part and use one pair of gloves fro two suits.



## Recommendations

Several useful advices for use:

- 1) When putting on the cuffs put the cuff part as close as possible to the sleeve that is to the textile on the suit. That way you will get an advantage of the case of the cuff, that protects it against damage.
- 2) In case you decide to use a different type of rubber gloves than were supplied, assure yourself about the waterproofness of them. We also recommend that you use gloves without an integrated heat pad, while you can dry the gloves separately from the heat pad. Also you can have another heat pad ready for exchange for another dive.
- 3) We recommend the solution with a surgical glove as additional protection against the flooding of gloves. You can find details about the usage on [www.kubi.sk](http://www.kubi.sk).
- 4) Take an extra pair of rubber gloves when doing a dive, in case the gloves that you are wearing tear or break. It is also possible to buy a separate glove part which you can get ready and then you won't have to take it apart just before the dive.
- 5) Storage and transport of gloves. As hard and sharp objects can damage the glove, we recommend storing and transporting them in the bag we provide or in a firm and hard case where the walls won't collapse on the gloves. It is ideal to fold the glove through the ring as shown on the picture below.



## Solving problems

### folds created by wrong use

The pictures show proper and improper placing of the fixing o-ring in both cases, like gloves, as well as cuffs. In case that this problem occurs move you fingers slowly on the area to smoothen it down. If this is not done then small gaps can create, causing water to enter the glove. We recommend a detailed check after adjusting the fixing o-rings.





## Solving problems sleeve length

The pictures show proper and improper length of the sleeve. If the sleeve is too long the rings push into the hand. If the sleeve is too short the glove part can come out of the cuff when the hand is stretched.





## Solving problems

### various

#### **The system is not waterproof:**

- 1) It is very likely that the glove is damaged. Change it.
- 2) If the solution before doesn't help check the cleanness of the sealing o-ring and sealing area.
- 3) Also check if small gaps or holes didn't create on either the gloves or the cuffs. The images in these instructions will help you identify the problem in the part "Solving problems – fold created by wrong use".
- 4) Very often the problem with waterproofness of the system is that the glove part was wrongly put in the cuff part. Constructively it shouldn't happen that it will be put on slant but it may happen that during the sliding various things can get into the sealing areas:
  - dirt
  - piece of textile from underwear
  - other material
  - threads from the underwear
  - a piece of textile from a warm glove
  - threads from the glove

#### **Your hands are cold**

We recommend you to use quality heat pads. If the ones that are supplied are not enough, they can be accessed in many outdoor shops or sport shops. Focus on non-stitched gloves with anatomically formed fingers and a short wrist part. We also recommend shortening the cuffs, so they do not prevent blood flow, but be careful so that the waterproofness is not prevented. If you wouldn't do so, and the glove would tear, then the entire dry suit would be flooded with water.

#### **Problematic taking out or putting in of gloves into the cuff part of the ring.**

Gently lubricate the sealing o-ring with silicon Vaseline. If you have put too much on and the glove and cuff parts don't hold together, with alcohol you can take the grease off of the o-ring and try again.

#### **Long gloves**

It is possible to shorten the gloves. Be careful on the bending so that your glove does not slip out of the fixing o-ring.

#### **Long sleeves causing the pressing of the rings on the hands**

There are only two options: shortening the sleeves or pulling up the sleeve and fixing it with a strap e.g.: from a diving watch. This is why we recommend that when you choose a suit you should take into consideration the sleeves and them being a bit shorter. The difference in length can be easily modified by the length of the glove. You will find how it should look in these instructions in the part "solving problems – length of the sleeve".



## Warnings

- 1) We do not guarantee a full heat comfort unless the above mentioned ruled and recommendations are not followed.
- 2) We do not guarantee waterproofness, but it is very likely that the system will be waterproof when the ruled and recommendations are followed.
- 3 )We do not guarantee that the glove wont get damaged and wont lose its waterproofness due to mechanical use. However, the supplied gloves are of high quality decreasing the risk of damage.
- 4) We do not guarantee that you will be able to install it on any type of cuffs and gloves. However, so far we were able to install the system on all the known solutions.
- 5) The product is not made to be used in a way that would risk life. It is also not a life saving object e.g.: guaranteeing heat protection.
- 6) Using this product means having full responsibility, taking into consideration the risk, that during diving a critical situations can occur.

## Important remarks to COMPETITOR PRODUCTS

During development and testing we have come across a few factors, which effect the quality and the outcome of the entire system of dry gloves. That is why we recommend you to be aware of the products that under-go any of the following:

1. The product is made of plastic parts
  - during drying the parts deform, causing the entire system to get destroyed
  - in low temperatures they change their properties and that effects:
    - putting on
    - taking apart
    - material stability (especially cracks and dents)
2. The product needs to be installed in a way, which requires the old cuffs to be removed and the new cuffs to replace them. This type of installation is very dangerous, while the gloves could get damages of torn causing the entire suit to flood. This is extremely dangerous for the organism as it can lead to hypothermia and resulting in death. The connection of the cuff to the sleeve must be perfect and must not be interrupted.

**The connection of the cuff to the sleeve must be perfect and must not be interrupted.**

3. Thick cuff parts do not allow easy put on onto narrower sleeves and shorter cuffs.
4. Big glove and cuff parts, possibly supplied with rough areas, could cause uncontrolled actions over the equipment as well as getting caught into objects e.g.: while jumping into the water.

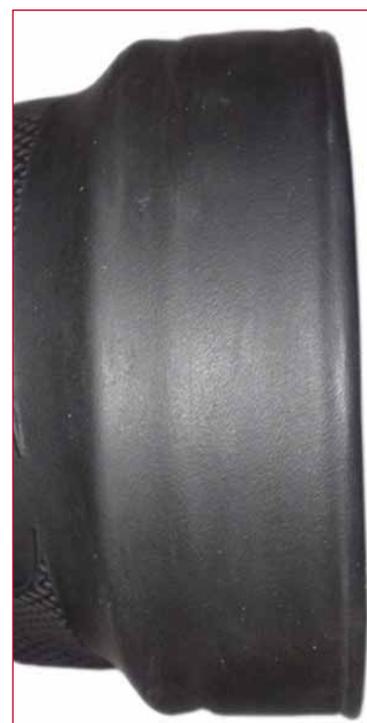


## Step 1

Position of the glove ring before being inserted into the glove.



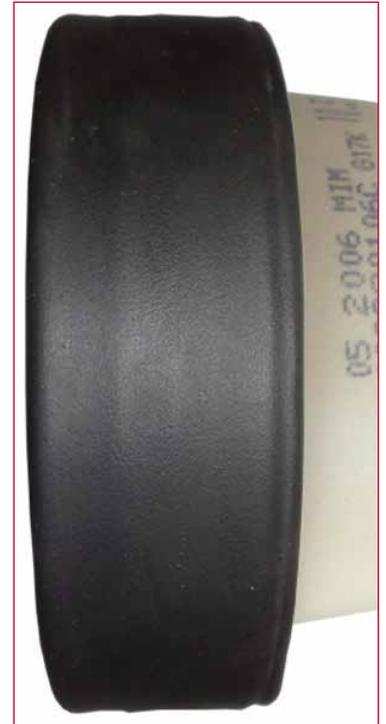
Position of the glove ring after being inserted into the glove.



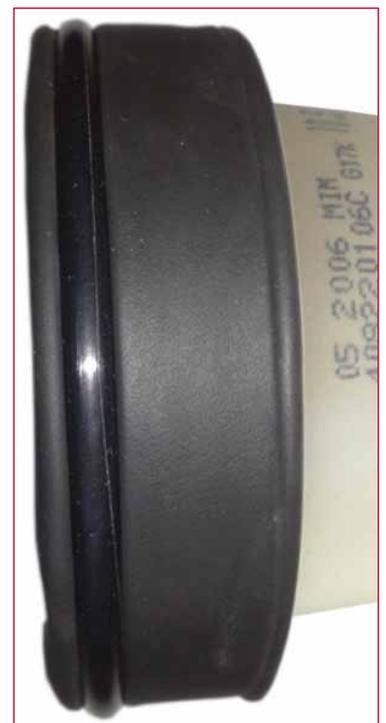


### Step 2

Turning the glove inside out. To allow easier out on of the fixing o-ring.



Putting on the fixing o-ring. The type and measurements are stated in the: dInstructions for use – Part I.: Description\_maintenance\_service\_solving problems. A larger strength is required to put on the o-ring and it is necessary that you check for any folds which cause bad sealing of the system. More information can be found in the section: Instructions for use – Part I.





## Step 3

Turning the glove into its original position.



Pulling on the hem of the glove.



### Step 4

Folding the hem on the glove.



Putting on the covering ring.



## Step 5

Putting on the security o-ring into the slot next to the covering ring. The type and measurements are stated in the section: dInstructions for use – „Part I.: Description\_maintenance\_service\_solving problems“.



Putting on the sealing o-ring into the slot. The type and measurements are stated in the section: dInstructions for use „Part I.: Description\_maintenance\_service\_solving problems“.



■ Step 1

The cuff ready to have the cuff ring attached to it.



Step 2

Turning the sleeve inside out.



### Step 3

Inserting the cuff ring. The right position is when, the thicker slot is pointing towards the constricted opening.



### Step 4

Folding the cuff for an easier handling with the fixing o-ring.



## Step 5

Putting on the fixing o-ring. The type and measurements are stated in the: dInstructions for use – Part I.: Description\_maintenance\_service\_solving problemsĒ. A larger strength is required to put on the o-ring and it is necessary that you check for any folds which cause bad sealing of the system. More information can be found in the section: Instructions for use – Part I.



## Step 6

The beginning of turning the sleeve, for the preparation you have to slide the ring into the sleeve lying on its side. First hold it in the place of the stitch. Stitch is the place which is the most difficult to turn. You have to use your other hand to slide the stitch under the sleeve.



## Step 7

Carrying on sliding the ring into the sleeve before turning it.  
Hold the ring in the cuff and continue under the stitch.



## Step 8

Carrying on sliding the ring into the sleeve before turning it.  
It is important that the ring is pushed into sleeve while its lying flat on its side, as it is harder to push it in while it is standing up right.



## Step 9

Carrying on sliding the ring into the sleeve before turning it. Final position before turning the sleeve. In this position it is much easier to push the ring into the sleeve.



## Step 10

In the final position, when the ring is flat on its side, we turn the sleeve and pull on the ring so that, it comes out on the other side. You have to be careful so that, the grip of the cuff doesn't fall on the slot with the fixing o-ring.



## Step 11

The continuing stage of taking out the ring out of the sleeve. You still have to be careful so that, the grip of the cuff doesn't fall on the slot with the fixing o-ring.



## Step 12

The continuing stage of taking out the ring out of the sleeve. You have to be careful so that, the grip of the cuff doesn't fall on the slot with the fixing o-ring.



## Step 13

Final stage where the ring is taken out of the sleeve.



## Step 14

Sliding on the covering ring. We slide the covering ring so that, a slot stays empty for the fixing o-ring.



## Step 15

Sliding on the fixing o-ring. The cuff has to be tucked inside, so that it doesn't get in the way of the o-ring. The type and the measurements of the o-ring are mentioned in: dInstructions for use – „Part I.: Description\_maintenance\_service\_solving problems“.



## Step 16

Sliding out the cuff.



## Transportable case

It is suitable for storing gloves.

It is also possible to carry other diving accessories in it.

On the side there is a tab so that the case can be hanged and one from the back to attach to a belt.



www.kubi.sk



**We leave compromises to the others**  
We use only quality materials and technology



Information, contacts and customer support:

**e-mail:** kontakt@kubi.sk  
**mobil:** +421 918 986 008  
**skype:** dts.contact.skype  
**www.kubi.sk**