

# *ORUST Neck System*

*User Manual*



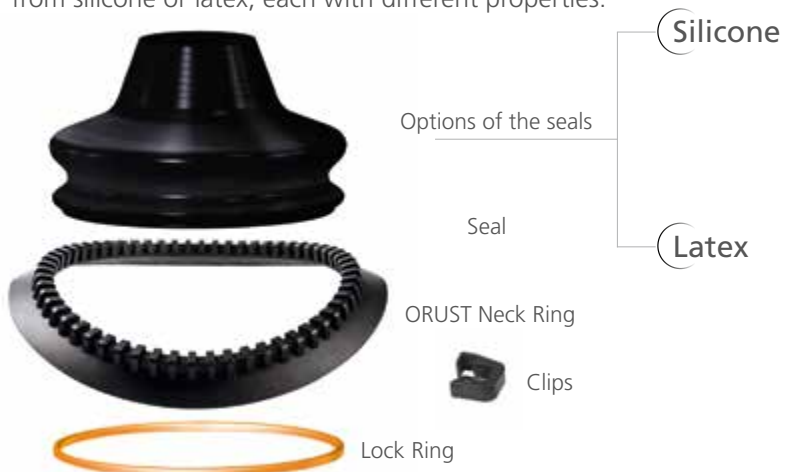
**[www.sitech.se](http://www.sitech.se)**

**SI TECH**   
INNOVATIVE SAFETY SOLUTIONS – MADE IN SWEDEN

## ORUST Neck System – User Manual

We want to congratulate you on your purchase of the ORUST Neck System, a Dynamic and Modular Quick Change Solution developed and manufactured by SI TECH in Sweden.

ORUST Neck system is designed as a modular seal attachment platform providing the opportunity to quickly change a broken, torn or aged seal. It provides you with the flexibility to choose from a variety of seals made from silicone or latex, each with different properties.



### Components

The system itself consist of four components:

- ORUST Neck Ring • Lock Ring • Clips (12 pcs) • Neck Seal (silicone or latex)

### Benefits

- You can choose from a variety of seals; fabrics and sizes.
- If a seal breaks, you will be able to quickly solve the problem without ruining the activity of the day.
- A suit used by several people can easily be adjusted with correct size of seal within minutes.

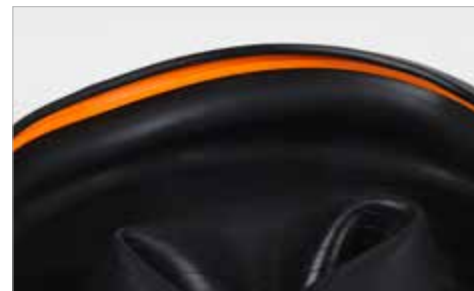
This manual does not address the topic of gluing/attaching the Neck Ring to your drysuit. Please visit: [www.sitech.se](http://www.sitech.se) for information.

ORUST Neck System is patented and a patent is pending for the unique clips system.



*ORUST Neck System is the third generation of Neck System – softer and more flexible than ever!*

### 1. Mounting seal



**1.1** Place the Lock Ring on the inside of the seal. Ensure that approximately 1,5 cm of the seal is pulled over the Lock Ring.



**1.2** Put the seal in position over the Neck Ring (mounted on your drysuit) with the Lock Ring on top of the tapered groove in the Neck Ring.



**1.3-1.4** By applying force, press the Lock Ring down into the tapered groove of the Neck Ring so that the Lock Ring enters the groove and locks into position. **This can be done either with the force of your fingers or by using the Combi tool.**



**1.5** Press with your fingers/with the Combi tool all around, until the Lock Ring and seal assembly has been forced into the groove in the Neck Ring. (Strive to get the same amount of excess part of seal around the entire assembly, see image 1.6.)



**1.6** Ensure that the excess part of the seal is similar throughout the entire dressing. We recommend between 1,5-2 cm.



**1.7** Check that the Lock Ring is in position by following the groove 360°.

## 2. Mounting clips



**2.1** When the seal is in place, the next step is to put on the clips. Totally twelve clips should be mounted on the ORUST Neck ring. Mount the first clip in the center of the chest. (Center of the chest as in picture above.)



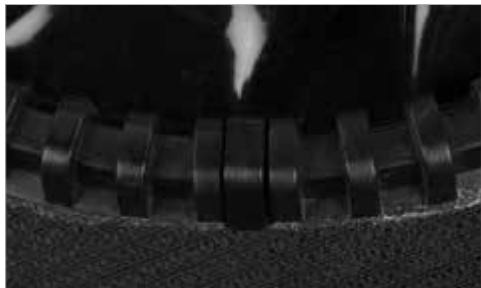
**2.2** Count four empty slots and mount the second clip in slot five.



**2.3** Place the clip with the low tongue just below the all-around ridge of the ORUST Neck ring, as seen in the pictures. **NOTE:** The clip should be mounted from the inside of the ORUST Neck Ring.



**2.4** To snap the clip in place the clip should be pushed as shown in the picture. The clip will then slide over and sit around the ORUST Neck System assembly.



**2.5** When clip is installed correct it should sit as in above picture.



**2.6** Repeat the clip installation for the remaining clips. Totally twelve clips should be mounted on the ORUST Neck ring.



**2.7 After completing the seal attachment section, perform a security check:**

Grab the end of the seal as the image shows and pull it gently away from the joint to ensure that it is seated properly. Do not use excessive force! Simulate the same force as used when donning suit.

### 3. Detaching clips and seal



**3.1** Press with your thumb on the flat surface under the clip that you want to remove. Lift the bottom part of the clip with your other hand and fold the clip up- and backwards. If the clip is hard to remove by hand, you may use a tool to lift the clip up- and backwards. (For example the Combi tool, a screwdriver or other tool that has a flat and blunt edge.)



**3.2** You must remove all twelve clips before you can detach the seal and Lock Ring assembly.

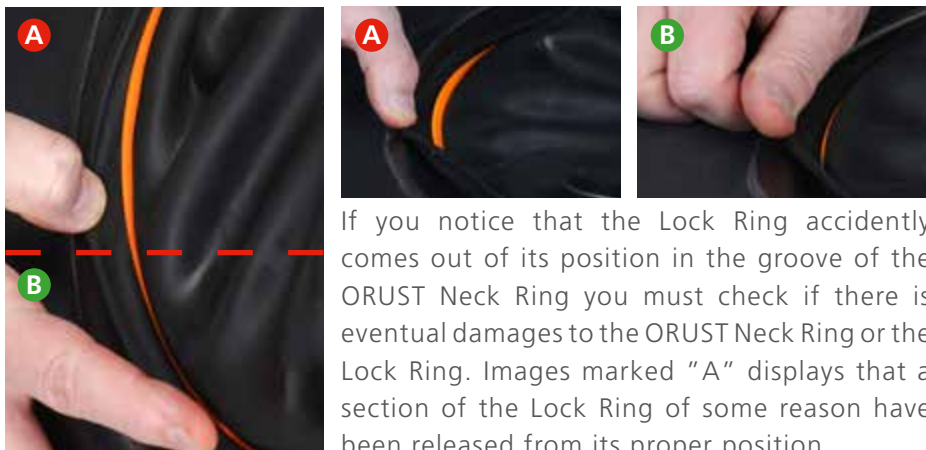


**3.3** The ORUST Neck Ring is designed for dynamic flexibility and will not demand tools for release of the Lock Ring and seal. You can easily release the Lock Ring by using your fingers. Grab the neck seal with one hand and bend (open) the ORUST Neck Ring with the other hand. Pull firmly until the seal and Lock Ring comes loose. **NOTE:** Be aware of the fact that sharp finger nails might damage the seal.



## Important information

Before donning the drysuit it is of great importance to check that the Lock Ring is still fixed in its position. **This must be checked every time** before entering the drysuit. Make this a standard routine!



If you notice that the Lock Ring accidentally comes out of its position in the groove of the ORUST Neck Ring you must check if there is eventual damages to the ORUST Neck Ring or the Lock Ring. Images marked "A" displays that a section of the Lock Ring of some reason have been released from its proper position.

Check the ORUST Neck Ring for damages before mounting the seal again. Images marked "B" displays the Lock Ring in its proper position fixed into the groove of the ORUST Neck Ring.

## These are suggested instructions only

Whatever method chosen, be certain the neck seal, be it latex or silicone, is properly treated. Always make a leakage and stress test on your drysuit seals before diving.

## 4. Donning

When donning a drysuit with a ORUST Neck System mounted it is of great importance that you do not create unnecessary force to the ORUST Neck assembly. This might cause the seal to come out of its position putting the user in danger.



### CORRECT

Grab the seal with your fingers and support with enough force to ease for your head to come through the seal.



### INCORRECT

Do not use this method when donning your drysuit. You will expose your drysuit, ORUST Neck System and seal to unnecessary force that might break the seal or force the seal to come loose from the ORUST Neck System assembly.

## Note:

When packing the drysuit it is of great importance that the ORUST Neck System assembly ends up in a "flat position". If the ORUST Neck System assembly is packed in a twisted position it might force the Lock Ring out of the locking groove.



### CORRECT



### INCORRECT

**Our products have  
been trusted by divers  
for more than 40 years**

### *Maintenance and Storage*

- Avoid exposing the seals to direct sunlight.
- Always clean your seals from sweat and salt water.
- Use talc on seals to extend the lifespan.
- Remove seals during long periods of storage.

### *Spare Parts*

Item no.	Item
60174	ORUST Neck Ring
60173	ORUST Lock Ring
60179	Clips set (pack of 12)
61630	Silicone neck seal, circumference 28-37 cm
61631	Silicone neck seal, circumference 22-30 cm
61655-S	Latex neck seal, circumference 24-32 cm
61655-M	Latex neck seal, circumference 28-37 cm
61655-L	Latex neck seal, circumference 35-43 cm



SI TECH is a Swedish company focusing on manufacturing and marketing of components for protective suits such as; drysuits, rescue suits and garments designed for diverse hostile environments. SI TECH is rooted in the diving industry which is still the company's core market. The company was founded in 1971 by the diving pioneer Stig Insulán.

#### **Core products**

Modular Quick Change Solutions, Drysuit Valves, Drysuit seals, Dry Glove Systems, Gas Inflation Systems and special components for military purposes

#### **Inhouse capabilities**

Development and production is made in-house at our facilities in Brastad, Sweden. Inhouse competencies include: CAD construction, Injection Molding, CNC Machining, EMD Machining, Assembly, Sales and Marketing, Logistics and Administration. Our team of engineers, sales and marketing personell have close co-operation with the distributors and end-users of our products.

