

OBERON

User Manual



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SI TECH [®]
INNOVATIVE SAFETY SOLUTIONS – MADE IN SWEDEN

OBERON – User Manual

We want to congratulate you on your purchase of OBERON, a Dry Glove system developed and manufactured by SI TECH in Sweden. By reading this manual you are only some simple steps away from diving it. OBERON is an easy to mount, easy to use Dry Glove System, designed to perform – no matter the diving environment. This complete package include components that will fit your needs undepending the choice of Dry Gloves.



Components

The system itself consists of twelve components per arm:

- OBERON Ring (with Lock and Release Ring, Rubber Ring and O-ring)
- Glove Ring
- O-rings for attachment to SLÄGGÖ Flex Ring (3 pcs)
- Red, green, blue and yellow Spanner Rings

Benefits

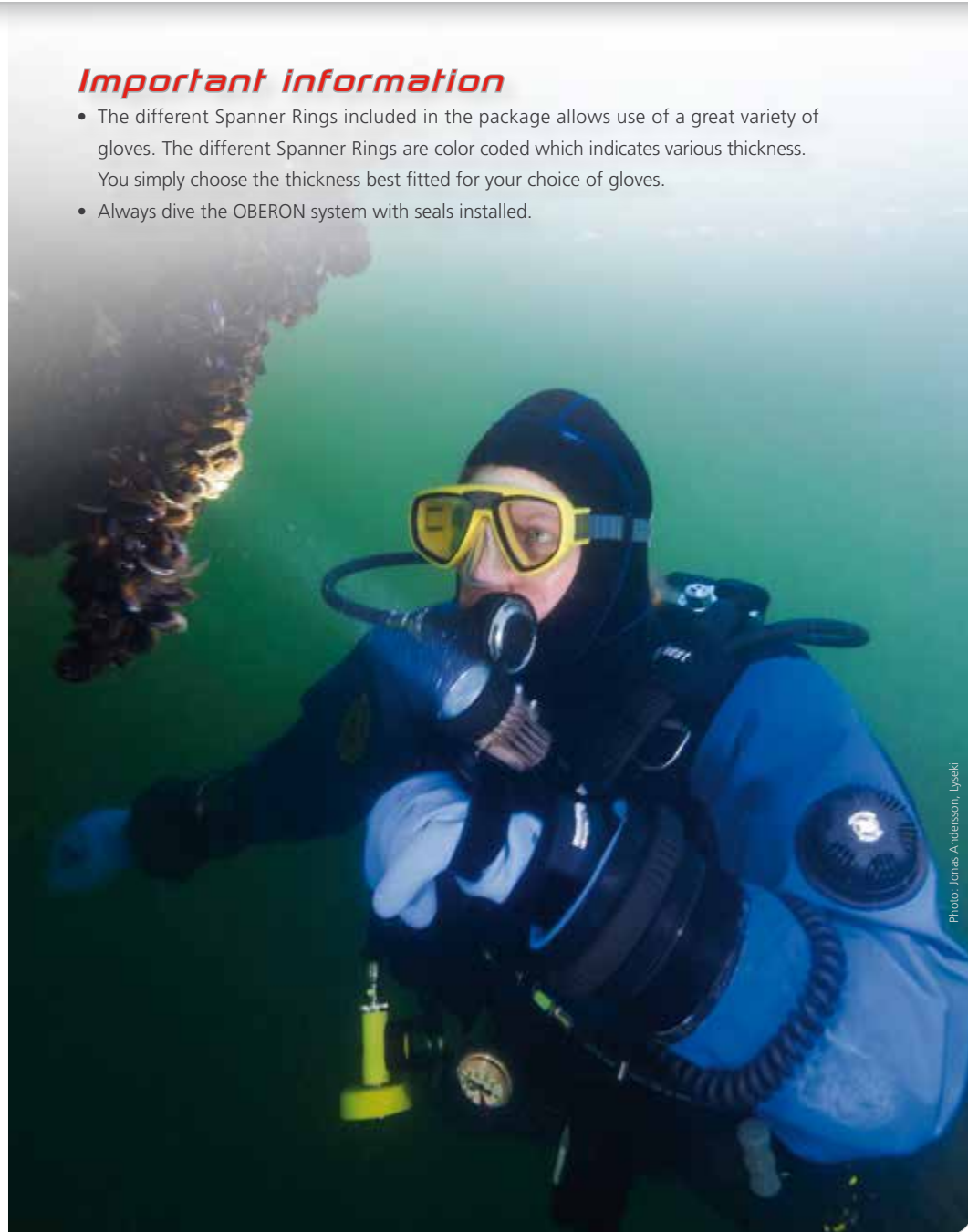
- Connects on SLÄGGÖ Flex Ring (large and medium size)*.
- User friendly.
- Self supported.
- Accomodating all hands.
- Fits to most common Dry Gloves.
- Sturdy construction.
- Suit Ring: No alignment needed, 360 swiveling connection.
- Lock and Release Ring: made of rubber for maximum grip, protects the O-ring from mud and debris.

*SLÄGGÖ Flex Ring is a Modular Quick Change Solution designed to simplify change of broken or torn wrist seals on drysuits.

This manual does not address the topic of gluing/attaching the Wrist Ring of the SLÄGGÖ Flex Ring to your drysuit. Please visit: www.sitech.se for information.

Important information

- The different Spanner Rings included in the package allows use of a great variety of gloves. The different Spanner Rings are color coded which indicates various thickness. You simply choose the thickness best fitted for your choice of gloves.
- Always dive the OBERON system with seals installed.



1. Fitting onto SLÄGGÖ Flex Ring



1.1 Three O-rings should be installed into each SLÄGGÖ Flex Ring, to secure the wrist seal and the Glove Ring.



1.2 Pinch the O-ring and insert it from the top of the SLÄGGÖ Flex Ring.



1.3 The O-ring shall be inserted all the way through, so that it is visible on both sides.



1.4 Bend the O-ring and insert it (from the top) into the compartment next to the first.
Tip! Use a paper clip or similar to pull/push the O-ring through the opening.



1.5 The O-ring should look like this when installed properly.



1.6 Put the Glove Ring on top of the SLÄGGÖ Flex Ring to find out correct placement of the two remaining O-rings. Install the two remaining O-rings in the same way as the first one.



1.7 Mount the seal onto the OBERON Ring as displayed in this image. Ensure that the flange of the seal is inserted into the groove of the OBERON Ring.



1.8 Mount the OBERON Ring and seal assembly into the top groove of the SLÄGGÖ Flex Ring.



1.9 Attach the O-ring around the notches on the OBERON Ring as displayed in these two images.



2. Attach glove



2.1 Start by finding appropriate Spanner Ring. When pressing the Spanner Ring and glove into the Glove Ring they shall slide without use of excessive force. Use green Spanner Ring for thin fabrics, blue for medium fabrics and yellow for thick fabrics.



2.2 Place the Spanner Ring on the inside of the glove, make sure to find proper position for optimized length of the glove.
2.3 Fold the glove shaft inwards over the Spanner Ring (latex gloves can be fitted and folded the opposite way).



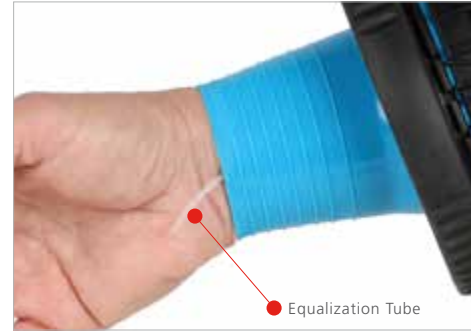
2.4 Press the glove with Spanner Ring evenly into the Glove Ring.
2.5 Check for creases on the glove as creases may cause leakage.



2.6 Test the strength of attachment by pulling Glove Ring and glove in the opposite direction. If the assembly does not hold together, please change the Spanner Ring to a thicker one.

After you have conducted a test dive you may trim the excess material on the glove shaft for optimized function, comfort and visual appearance.

3. Donning



3.1 Put your hand through the seal and fit the Equalization Tube between seal and wrist. Make sure the Equalization Tube reaches all the way through the seal.



3.2 Join the rings together (make sure that the O-ring and sealing surface are properly cleaned and lubricated).



3.3 When the Glove Ring and the OBERON Ring has been joined together just turn the Lock and Release Ring as the image displays. Turn the Lock and Release Ring until it stops. When this procedure has been made properly you should only be able to see part of the edge of the bayonet (as displayed in the right section of the image box).

4. Doffing



4.1 Turn the Lock and Release ring in opposite direction compared to the donning procedure. Turn until the Glove Ring and the OBERON Ring are separated. **Tip!** Keep glove on when doffing second ring. The glove provide a higher friction against the rubber ring.

These are suggested instructions only

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

Troubleshooting

- If high resistance occurs, disassemble and lubricate with SI TECH Lube Stick.
- If the rings are misaligned, disassemble and don again.
- Sand and debris caught up by lubricant on Glove Ring and/or OBERON Ring may cause leakage if not removed. Remove O-ring and make sure the O-ring groove and adjoining surface on OBERON Ring is clean before replacing the O-ring.

Lubrication



For best performance; lubricate the surface marked with red. Use SI TECH Lube Stick.

IMPORTANT:

- Lubricate the O-rings.
- Avoid any lubricant on seals.
- Clean by disassemble and rinsing all parts thoroughly in fresh water.
- Dry before assembly.

Maintenance and Storage

- After every dive you should check for damage or debris and clean the system with fresh water.
- Before every dive you may do the same check depending on how you store the system.
- The O-ring seal and its groove is especially important to check for dirt.
- Store the rings apart in a debris free environment.



Spare Parts

Item no. Item

OBERON

60771	OBERON Ring, large
60773	OBERON Ring, medium
60527	Lock and Release Ring
60526	Rubber Ring
60523	Glove Ring
60538	Spanner Ring, red: For extremely thin fabrics
60537	Spanner Ring, green: For thin fabrics
60536	Spanner Ring, blue: For medium fabrics
60535	Spanner Ring, yellow: For thick fabrics
80197	O-ring for OBERON/VIRGO/Glove Lock QCP
80057	O-ring for attachment to SLÄGGÖ Flex Ring
60540	Lube Stick
60233	Pressure Equalization Tube

SLÄGGÖ Flex Ring

60710	SLÄGGÖ Flex Ring, large (black)
60711	SLÄGGÖ Flex Ring, medium (black)
60712	SLÄGGÖ Flex Ring, small (black)

Seals

61025	Silicone Seal, Standard (wrist circumference 13,2-17 cm / 5,2-6,7")
61026	Silicone Seal, Small (wrist circumference 10,6-15 cm / 4,2-5,9")
61060	Latex Seal, X-Small (wrist circumference 12,5-14 cm / 5,0-5,5")
61061	Latex Seal, Small (wrist circumference 13,5-16 cm / 5,4-6,4")
61062	Latex Seal, Medium (wrist circumference 15,5-18 cm / 6,2-7,4")
61063	Latex Seal, Large (wrist circumference 18-21 cm / 7,2-8,4")



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.

