

Glove Lock QCP

User Manual



Photo: Anders Salestjo, Lysekil

SI TECH ®
INNOVATIVE SAFETY SOLUTIONS – MADE IN SWEDEN

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Glove Lock QCP – User Manual

We want to congratulate you on your purchase of the Glove Lock QCP, 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. The Glove Lock QCP 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 eight components per arm:

- Suit Rings
- Glove Rings
- O-rings
- Red, green, blue, yellow and black Spanner Rings

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

1. Suit Ring: No alignment needed, 360° swiveling connection.
2. Lock and Release Ring: made of rubber for maximum grip, protects the O-ring from mud and debris.
3. Glove Ring.
4. Concealed O-ring.



This manual does not address the topic of gluing/attaching the Wrist Ring of the Quick Cuff 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 seals and gloves. The different Spanner Rings are color coded which indicates various thickness. You simply choose the thickness best fitted for your choice of seals and gloves.
- Always dive the Glove Lock QCP system with seals installed.



Fitting alternatives

- Glove Lock QCP Suit Ring clamped onto fixed seal.
- Glove Lock QCP Suit Ring mounted on top of the Quick Cuff attachment platform.



GLOVE LOCK QCP SUIT RING

1a. Fitting into suit



1a.1 Find appropriate Spanner Ring and move it forward through the arm of the suit towards the latex seal.

IMPORTANT: Make sure that the soft rounded edge of the Spanner Ring heads forward so that the sharp edge of the opposite side does not damage the seal.



1a.2 Position the Spanner Ring so that the system does not affect your wrist movement when diving.



1a.3 Press the Suit Ring evenly onto the seal so that the seal tightens in between the rings. Check for creases on the seal as creases may cause leakage.



1a.4 Test the strength of attachment by pulling the arm of the suit and the Suit Ring in the opposite direction. If the Suit Ring falls off, change the Spanner Ring to a thicker one.



QUICK CUFF

1b. Fitting onto Quick Cuff

The Quick Cuff system is a Modular Quick Change Solution for rapid change of broken or torn seals. It was developed and launched years before the Glove Lock QCP. The Glove Lock QCP however was designed so that the user of Quick Cuff could benefit from it when choosing the Glove Lock QCP.

For illustrative reasons we are using a yellow Wrist Ring. (This is not an available product!)



1b.1 Located on the inside of the Suit Ring of the Glove Lock QCP, there is an edge that will act as fixation point for the soft Wrist Ring of the Quick Cuff System.



1b.2 Squeeze the soft Wrist Ring and insert it into the Suit Ring of the Glove Lock QCP. Expand the Wrist Ring fully and arrange so that the edges of the rings come together.



1b.3 The last steps of the mounting process is same as with a regular Quick Cuff System. It only differs by the fact that you need to choose the black Spanner Ring that comes with the Glove Lock QCP instead of the Spanner Ring delivered with the Quick Cuff kit.



Always check for ceases, dirt or damaged surfaces before mounting and use of the equipment!

Spanner Ring, black

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.



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.

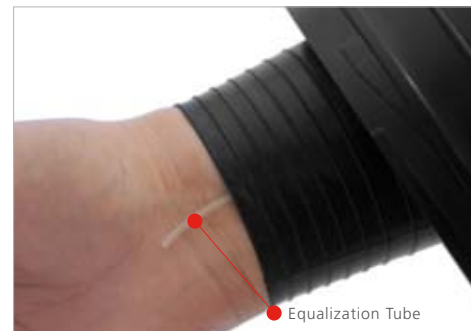
2.5 Check for creases on the glove as creases may cause leakage.



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 testdive 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 [5.3] are properly cleaned and lubricated).



3.3 When the Glove Ring and the Suit 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 Assembly 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 Suit Ring may cause leakage if not removed. Remove O-ring and make sure the O-ring groove and adjoining surface on Suit Ring is clean before replacing the O-ring.

To change or to clean and lubricate the O-ring, follow these simple steps:



Press the Lock and Release Ring backwards with your thumbs until you can access the O-ring. **NOTE: Do not use excessive force as that might break the rings.**

Lubrication



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



When Lock and Release Ring is trapped in its backward position, you will be able to pinch the O-ring and pick it out of its groove.

NOTE: Do not use any sharp tools as they may damage the O-ring.

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.



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been trusted by divers
for more than 40 years*

Spare Parts

Item no.	Item
60523	Suit Ring
60539	Glove Ring with Rubber Ring and O-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
60540	Lube Stick
60233	Pressure Equalization Tube
60524	Spanner Ring, black: For attachment to Quick Cuff

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.



