

# *ATOS Cable Entry Port*

*User Manual*



Photo: Mats Gunnarsson

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

**SI TECH** <sup>®</sup>  
INNOVATIVE SAFETY SOLUTIONS – MADE IN SWEDEN

## *ATOS Cable Entry Port*

We want to congratulate you on your purchase of the ATOS Cable Entry Port developed and manufactured by SI TECH in Sweden. By reading this manual you are only some simple steps away from diving it. The ATOS Cable Entry Port is used in combination with your regular SI TECH swiveling Inflation valve. You don't need to make an extra hole in your drysuit for cable entry when using heated undergarments.



Inflation valve, cables and grease are not included in the package!

### *Main Components*

**The ATOS Cable Entry Port set includes:**

- ATOS Cable Entry Port (complete)
- 2,5 mm Allen key

### *Benefits*

- Provides passage for cable in one single unit.
- Easy set-up and maintenance.

*The ATOS Cable Entry Port is available in different versions, for more information; see [www.sitech.se](http://www.sitech.se).*

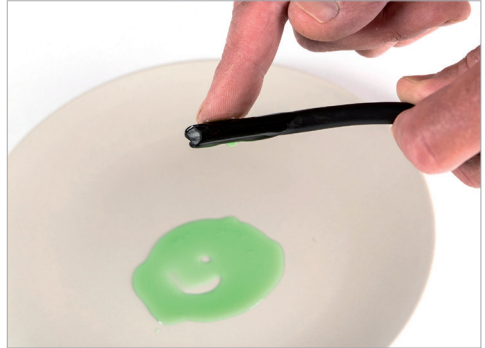
## *Important Information*

- Please note that this manual do not cover installation/guidance or safety instructions for wiring, assembly and usage of battery packs, wires, connectors, garments or other parts of the electrical system or parts connected to electrical system.
- Always mount the ATOS Cable Entry Port with friction washer installed on the inside of the suit.
- Always remember to disconnect power sources when working on cables etc.
- Always remember to grease O-rings and check them for eventual damage. Damaged O-rings must always be replaced.

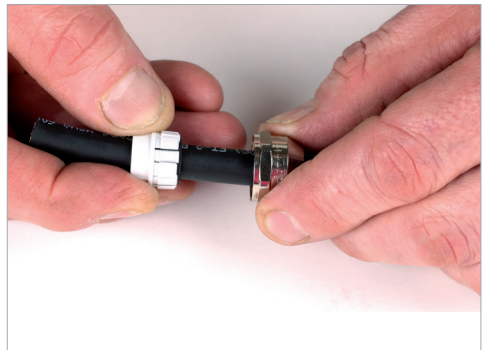
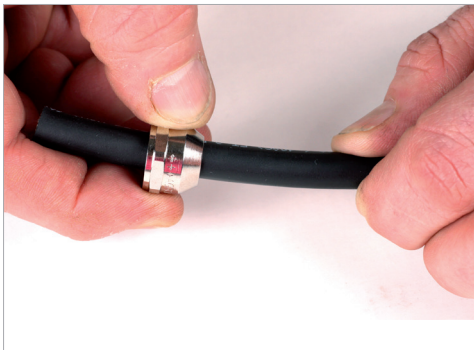
## 1. Cable entry



**1.1** Dismantle the cable entry as shown in this picture. The arrow explains the path of the cable when installing it.



**1.2** Lubricate the cable cover with soft soap or similar product. This will ease up the process of getting the cable through the cable entry components. **Ensure that the cable is disconnected from eventual power sources.**



**1.3** Thread the cable through the nipple components as shown in this picture.



**1.4** Before next step it is important to measure the length of the cable for your specific need. When the nipple is mounted and fastened it will not be possible to adjust the cable in any direction without disassembly.



**1.5** Mount the cable and nipple into the Cable Entry Port body. Use a metric wrench (size 18) to gently rotate clockwise. Be careful not to damage the threads.

## *2. Final assembly*



**2.1** Disassemble the bottom lid by removing the screws with a 2,5 mm Allen key.



**2.2** The Cable Entry Port can be mounted in any SI TECH Valve Ports with large or dual guide ridge and in all Internal Valve Ports. Adjust the direction of the cable (when mounting the Cable Entry Port to the Valve Port). The Cable Entry Port is not swiveling.





**2.3** Mount the Cable Entry Port into the drysuit and attach the body of the bottom lid. Position the Cable Entry Port in preferred direction and tighten it by force of hand. Tightening shall be made through rotation of the bottom lid body.



**2.4** Bend the cable in preferred direction and mount the lid.

Do not forget the anti-friction washer that must be located on the inside of the drysuit.



**2.5** Tighten the screws gently with the 2.5 mm Allen Key.



**2.6** Mount your Inflation Valve on top of the ATOS Cable Entry Port. (The bottom lid of the Inflation Valve will not be used.) The Valve is now ready for use!

## *Troubleshooting*

- If the screw is difficult to tighten; remove and check for dirt (both on the screw and in the screw hole). There should be no resistance when tightening the screw.
- If leakage occur; check the Valve port and O-rings first. If the problem still occur; check the cable nipple. If leakage still occur; please contact your dealer or SI TECH.

## *Maintenance and Storage*

- Rinse the drysuit and Inflator Valve with fresh water after every dive. After rinsing, attach the hose and purge air through the valve until clean and dry. If the action of the inflate button becomes stiff, spray a suitable silicone based spray into the quick connector socket and work the push button.



## ***Warnings***

- DC Current is dangerous and could be lethal. Regarding battery packs, wires, connectors, garments or other parts of the electrical system or parts connected to electrical system; please contact the manufacturer for installation/technical guidance and safety instructions or other necessary information.
- If there are any signs of leakage or other malfunction; the system should be shut off.
- Never use any gas mixture that contains an elevated partial pressure of oxygen as a suit inflate gas. Proper instruction of the use of Argon as a suit gas is highly recommended.
- Use a manufacturer approved disconnect system for all electrical connections.



## *Recommendations*

- Before donning your drysuit – check that the valves are properly fitted.
- SI TECH AB recommends you to limit drysuit compartments that can trap and contain gases which could cause buoyancy control problems. This means that the BCD should normally not be used for buoyancy control during the dive.
- A tightly fitting suit, belt or other equipment may restrict the flow of gas within the suit causing reduced deflation capacity of the Exhaust Valve. A non-restrictive-fit is desirable, but the suit must not be too large, especially not over the shoulder area .
- Be sure that the neck seal is properly trimmed and folded for comfortable fit. A neck seal that is too tight can restrict the flow of blood to and from the brain. A neck seal that is too loose will allow gas to leak out and cause a reduction of pressure within the suit that will have a negative effect on the Exhaust Valve's capacity to provide automatic buoyancy control. Remember to squeeze the drysuit before entering the water feet first. If not, you may risk the neck seal turning inside out.
- Differing compositions and physical properties of various drysuit undergarments affect the flow of gas through to the exhaust valve.
- While diving, avoid inflating when your feet are above your head.
- Using yourself and your drysuit as a lift bag will put your life in danger. For the same reason, never attach a lift bag to your Drysuit or BCD Hose.
- If you are unfamiliar to diving with a drysuit tell your dive buddy and/or your dive master. Allow yourself time to get familiar with the characteristics of your drysuit.
- Diving can be a potentially dangerous activity. Stressed divers can make decisions that may prove fatal. Dive within your physical, mental and experience limitations. Get to know your equipment and practice in a comfortable environment. Your personal fitness, experience, knowledge and judgment are factors that will be crucial for your ability to handle a crisis situation. Give up diving for the day if you are not feeling well or if you do not feel comfortable with the dive situation, your own ability or equipment. Always perform a pre-dive check on all your diving equipment and correct any malfunctions before diving.

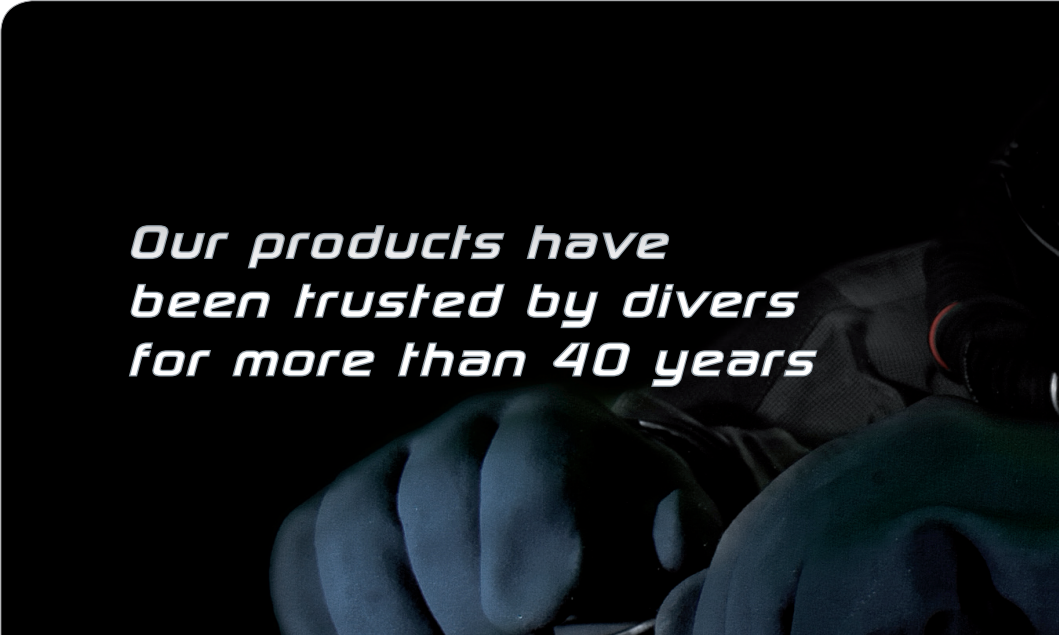
**All diving is done at your own risk.**



## *Spare Parts*

Item no.	Item
23263	Allen key 2,5 mm
21813	Screw (for bottom lid)





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

*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.*



## *Core Market Areas*



