



AIR LINK

REGULATOR / INFLATOR SYSTEM

OWNER'S GUIDE

THANK YOU FOR PURCHASING AN AIR LINK REGULATOR/INFLATOR SYSTEM !

With this system, you have -

- two methods to inflate the BC
- two methods to deflate the BC
- automatic venting of excess BC pressure
- an alternate air source regulator

Refer to the illustration on the back cover for identification of components.

Be sure to read and understand the instructions in this owner's guide describing how the Air Link system operates before attempting to dive with it.

LIMITED 2 YEAR WARRANTY

Refer to the Warranty Registration Card provided with the product by your Authorized AERIS Dealer.

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AERIS Air Link Owner's Guide

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San Leandro, CA USA

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COMPATIBILITY AND INSTALLATION

The Air Link low pressure inflator hose is compatible with all AERIS first stage regulators. It may not be compatible with other manufacturers' first stages (thread size = 3/8-24 UNF). Have your Air Link installed on your BC, and the low pressure inflator hose attached to your regulator first stage, by an Authorized AERIS Dealer.

Connect the quick disconnect (QD) end of the inflator hose to the Air Link using the QD coupling. To attach it, grasp the coupling on the end of the inflator hose between the palm of your hand and fingers, and pull back the coupling release with your thumb and forefinger. While holding back the coupling release, press it onto the quick release fitting on the Air Link, and let go of the coupling release while continuing to hold the hose onto the quick release fitting.

Ensure they are firmly attached prior to pressurizing the system.



NOTE: Refer to the illustration on the back cover for identification of components.

FEATURES

Operating Buttons

The three operating buttons, one located on each side of the mouthpiece and one above the mouthpiece, can be differentiated by look, position, and tactile feel. Become familiar with their use to minimize the possibility of confusion.


- Top - regulator purge button
- Left - power inflator button
- Right - manual inflator/deflator button

Corrugated Hoses/Pull Connector

Two corrugated hoses are joined by a Pull Connector. By pulling on the rounded Pull Connector you can operate the Rapid Exhaust Valve located in the upper (shoulder) unit while you are using the Air Link regulator (without having to remove the regulator from your mouth). The extended length of the hose assembly prevents any resistance during head movement.

Inflator Overpressure Relief Valve (OPV)


The integrated OPV, located in the upper (shoulder) unit, automatically vents excess pressure from the BC during ascent or if over pressurized with the power inflator. This component of the Air Link operates automatically so no instructions for its use are necessary.

 **WARNING: The OPV integrated in the upper (shoulder) unit is set to operate at a lower relief pressure than the OPV located on the back of the BC to prevent damage to the material of the BC air cell. It is imperative that only AERIS inflator assemblies be used with AERIS BCs.**

Quick Disconnect Cap (see illustration on page 15)


The rubber cap secured to the corrugated hose is provided to cover the quick release inlet fitting of the Air Link power inflator assembly. The cap must be installed any time the inflator hose is disconnected to prevent entry of contaminants.

INFLATOR OPERATION

 **WARNING:** If you ever hear air, or see bubbles, escaping from the area around any of the Air Link connectors, or if the BC fails to hold air, immediately terminate or postpone the dive until the BC and Air Link can be serviced by an Authorized AERIS Dealer. You must not dive with an Air Link or BC that exhibits any signs or symptoms of leakage.

BC Inflation using the Power Inflator

With your regulator connected to an appropriate cylinder, slowly open the cylinder valve to pressurize the regulator/inflator system. Press the power inflator button, located on the left side of the Air Link mouthpiece, until you hear air flowing into the BC. Minor compressions of the inflator button will initiate airflow into the BC and allow small adjustments in buoyancy.

 **WARNING:** If you depress the power inflator button fully, the BC will inflate rapidly. Be careful not to overinflate the BC during a dive causing an unwanted rapid rise toward the surface.

Test the power inflator and overpressure relief valve prior to each dive to ensure they are functioning properly.

- Depress the power inflator until the BC fills completely, forcing the OPV in the upper (shoulder) unit to open.
- You will hear the sound of air venting from valve, indicating that the valve is working properly.
- While the BC is still inflated, listen for any undesired air leakage around the Air Link.
- The BC should stay inflated until you deflate it manually.

BC Deflation using the Rapid Exhaust Valve

The Rapid Exhaust Valve is located inside the upper (shoulder) unit of the inflator assembly. It is connected to the lower (power) unit by two cables located inside the corrugated hose and coupled together inside the Pull Connector. The Rapid Exhaust Valve is operated by grasping the Pull Connector, or the lower (power) unit and pulling it down (away) from the upper (shoulder) unit. The cables pull the Rapid Exhaust Valve open, venting air from the BC through the vents of the upper unit.

The amount of air vented depends on how far open the exhaust valve is, the distance you pull the inner cable, and how long the valve is open.

- Short tugs vent small amounts of air for minor buoyancy changes.
- A long pull will vent the entire BC in a matter of seconds.
- Use of the Rapid Exhaust Valve eliminates water entry even if the exhaust valve remains open after all air is vented from the BC.

BC Inflation using the Manual Inflator/Deflator Button

The round button located on the right side of the mouthpiece is an inflate/deflate manual actuator that allows air flow in to, or out of, the BC. To inflate orally, place the mouthpiece in your mouth, and after you begin (and continue) to blow in press the button with your thumb. This procedure purges the mouthpiece cavity of water, resulting in less water entering the BC, potentially prolonging bladder life. Some air may continue to leak into the surrounding water when you are orally inflating the BC, even after you have released the inflate/deflate button. This is considered normal and will not impede the efficient oral inflation of the BC.

BC Deflation using the Manual Inflator/Deflator Button

To deflate the BC through the mouthpiece, hold the lower (power) unit higher than the top of the BC and depress the round button located on the right side of the mouthpiece to vent the air from the BC. To ensure complete deflation of the BC, the mouthpiece must be held higher than the top of the BC. While underwater, you will hear the air as it bubbles out through the mouthpiece. To prevent entry of water into the BC, be sure to release the button before all bubbles stop flowing. To help eliminate unwanted water entry, use the Rapid Exhaust Valve method of deflation.

REGULATOR OPERATION

In the event that it is necessary for you to share air with another diver, you should offer your primary second stage to the diver and you should use the Air Link regulator. Although the Air Link regulator will function properly with the purge button facing up or down, AERIS recommends an operational position with the purge button facing up, similar to other second stage positioning.

Operation of your Air Link regulator is similar to most other second stages. It provides air on demand with low inhalation resistance, and has a convenient purge button located on the top of the unit's housing and a comfortable mouthpiece.

As with most other second stages, purging the Air Link regulator of water can be accomplished in two ways. By pressing the purge button to initiate the flow of air and expulsion of water, or by exhaling a small puff of air into the mouthpiece to expel the water.

CARE AND MAINTENANCE

Your Air Link is a reliable piece of equipment that will continue to work like new for many years to come, if cared for properly. Follow the procedures below, and have the entire Air Link inspected and serviced annually by your local Authorized AERIS Dealer.

Disconnecting the Inflator Hose

- Close the tank and purge (vent) the regulator assembly 'completely' of all pressure by depressing a second stage purge button.
- Grasp the quick disconnect coupling on the Air Link (second stage) end of the inflator hose between the palm of your hand and fingers, pull back the coupling release with your thumb and forefinger, and pull it off the quick release fitting of the Air Link.
- Place the protective Cap on the fitting (see illustration on back) to prevent contaminants from entering the valve housing.

Post Dive Care

Any exposure to aquatic elements can produce contamination that could effect the proper function of your dive equipment. Post dive care is the single most important thing you can do to keep your Air Link in top condition.



WARNING: DO NOT attempt to remove (or install) the Air Link from (on) a BC. Improper installation may cause misoperation or BC failure underwater possibly resulting in serious injury or death. It will also void the warranty.

At the end of each day of diving:

- Flush the exterior of all components thoroughly with fresh water to remove dissolved salt and other contaminants.
- Flush the lower (power) assembly by running water into the mouthpiece and out the exhaust ports. DO NOT depress the purge button if the assembly is connected to the first stage regulator, doing so will allow water to flow into the sealed portion of the first stage.
- If possible, immerse the entire lower (power) assembly in a warm fresh water bath and soak for one hour, preferably while still connected to the first stage regulator and pressurized.
- Remove from the bath and rinse all components of the assembly with slow running fresh water. DO NOT use full water pressure.
- Sand that has collected behind the lower (power) unit cover (behind the purge button) can be rinsed out by flushing tap water through the opening in the cover. Do not pry or lift up on the purge button, or use high pressure water that could damage the internal diaphragm.
- If after thoroughly rinsing, sand or debris can still be heard rattling under the cover, take your BC/Air Link assembly into an Authorized AERIS Dealer for inspection and cleaning.



WARNING: DO NOT remove the purge cover yourself. Improper replacement of the cover could result in an unexpected undesirable shut off of air delivery while underwater.


- If possible, lay the complete assembly flat in a cool, dry place (**out of direct sunlight**) and allow the components to dry naturally.
- DO NOT inject or spray lubricants into or onto the Air Link. Doing so can attract contamination that could subsequently interfere with proper operation.

Transport and Storage

Transport your BC and Air Link assembly (preferably dry) in a padded carrying case or equipment bag separated from sharp items (i.e. dive knife, spear gun, etc.) that might damage or scratch the components. You should also protect the Air Link from damage from heavy objects (i.e., dive light, regulator assemblies, tanks, etc.).

Prior to storing your Air Link, ensure that it is clean and dry. If you were unable to clean it prior to transport, or if it became exposed to other equipment that was not clean prior to transport (such as a wet suit), clean it thoroughly and allow it to dry naturally.

Service

 **WARNING: DO NOT attempt to disassemble or repair any components of the Air Link, or to adjust the regulator. Doing so could cause misoperation while underwater resulting in serious injury or death. It will also void the warranty.**

Once each year, your complete BC/Air Link assembly should be inspected and serviced by an Authorized AERIS Dealer. More frequent service is recommended if you dive in severe conditions or more frequently than an average diver.

In the event that any component of your regulator assembly requires any form of repair or service, return it to your local Authorized AERIS Dealer for professional service by a trained technician authorized to perform AERIS factory authorized service.

Provide the Authorized AERIS Dealer with a copy of the original sales receipt and your copy of the warranty registration card. Costs of inspection and service are not covered by the limited warranty.

GUIDELINE FOR AERIS REGULATOR EQUIPMENT MINIMUM SERVICE INTERVALS

Due to variations of use and storage time that AERIS Regulator equipment may be subjected to, the Guidelines and defined Intervals given herein are subject to the discretion of the owner of the specific product. Inspection and/or service indicated must be performed only by an Authorized AERIS Dealer.

Personally owned equipment used for recreational diving activity:

- Equipment used 100 dives or less per year should be serviced at least once per year.
- Equipment used more than 100 dives per year should be serviced after 100 dives prior to further use.
- Equipment stored for more than 6 months should be inspected, and serviced as required, prior to use.

Equipment used for dive training and/or consumer rental activities:

- Equipment should be inspected prior to every use.
- Equipment should be serviced at least once every 6 months regardless of use.
- Equipment should be serviced after 100 dives prior to further use.
- Equipment stored for more than 3 months should be inspected, and serviced as required, prior to use.

Regardless of ownership or intended use:

- Equipment should be inspected and serviced if it displays any sign of leakage or malfunction.
- Equipment should be inspected and serviced if the first stage inlet filter shows any sign of residue or discoloration.
- Equipment should be inspected and serviced if it displays signs of improper performance or breathing effort.
- Equipment should be inspected and serviced as required if it displays signs of freeflowing.
- Equipment should be inspected and serviced if o-rings or hoses display any signs of deterioration.

STATEMENT FOR AERIS REGULATOR EQUIPMENT COLD WATER DIVING


All AERIS Regulator First Stages are classified as being suitable for use in waters having Temperatures of 50°F (10 °C) and higher.

Due to operational limits, use in waters having colder Temperatures requires AERIS Diaphragm style First Stages that are fitted with an Environmental Protection Kit to prevent the possible buildup of ice crystals in the Spring Cavity.

Due to the inherent design of AERIS Piston style First Stages, they cannot be specially prepared to accommodate the operational limits imposed by waters having Temperatures below of 50°F (10 °C). AERIS therefore recommends the use of Diaphragm style First Stages fitted with Environmental Protection Kits when diving in waters having lower Temperatures.

 **WARNING: Installation of an Environmental Protection Kit must be performed by the AERIS factory or an Authorized AERIS Dealer. Improper installation may cause First Stage failure while underwater resulting in serious injury or death.**

Specialized training and skills required for cold water diving will reduce effects that cold water Temperatures can impose upon the operation of AERIS Regulator Second Stage(s).

 **WARNING: Failure to obtain proper training in the specialized techniques required for diving in cold water environments and failure to apply such techniques to handle situations that could result in Regulator freezing will place you in risk of serious injury or death.**

**AIR LINK
RECORDS**

Serial no. _____

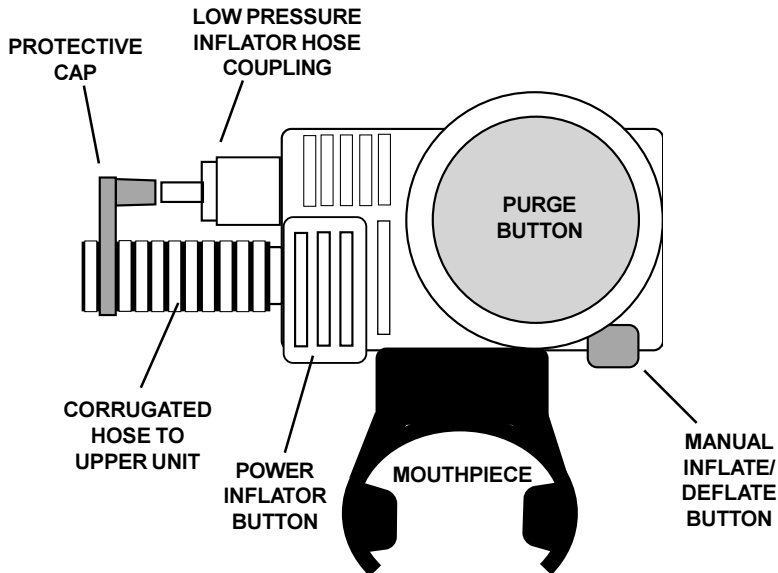
Date of purchase _____

AERIS dealer _____

Dealer phone no. _____

INSPECTIONS & SERVICE

Date	Service	Dealer Technician



COMPONENTS

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