



REGULATOR

EQUIPMENT

OWNER'S GUIDE

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AERIS Regulator Equipment Owner's Guide

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TRADEMARK NOTICE

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PATENT NOTICE

U.S. Patents have been issued to protect the following design features: Orthodontic Mouthpiece (U.S. Patent No. 4,466,434) and Second Stage Regulator Depth Compensating Adjustment Mechanism (U.S. Patent No. 5,660,502).

LIMITED TWO-YEAR WARRANTY

For details, refer to the Product Registration Card provided by your Authorized AERIS Dealer. For additional information, visit the AERIS web site at -

<http://www.diveaeris.com>

CONTENTS

NOTICES AND WARRANTY	2
WARNINGS	4
INTRODUCTION	5
REGULATOR FIRST STAGES	6
Attachment of Hoses	6
Removal of Hoses	8
HP Quick Disconnect	9
Regulator Attachment to a Tank	10
Environmental Protection Kit	14
REGULATOR SECOND STAGES	15
Features and Operation	15
Non-Adjustable	16
Adjustable	16
Swivel Octopus	19
CARE AND MAINTENANCE	20
ADDITIONAL SPECIFICATIONS	22
GUIDELINE FOR MINIMUM SERVICE INTERVALS	23
GUIDELINE FOR COLD WATER DIVING	24
RECORDS	25
INSPECTIONS AND SERVICE	27

Pay special attention to items marked with this Warning Symbol.



 **WARNINGS:**

- This regulator product is intended for use by recreational divers who have successfully completed a nationally recognized course in scuba diving.
- It must not be used by untrained persons who may not have knowledge of the potential risks and hazards of scuba diving.
- It is NOT intended for use by military and commercial divers.
- This regulator must be used together with an instrument that measures and indicates the user's breathing gas supply pressure.
- As with all underwater life support equipment, improper use or misuse of this product can cause serious injury or death.
- Read and understand this owner's guide completely before diving with this regulator.
- If you do not fully understand how to use this regulator, or if you have any questions, you should seek instruction in its use from your Authorized AERIS Dealer before you utilize this product.
- Prior to each dive inspect and test this regulator for proper operation. If any part does not function properly, DO NOT USE!

AERIS promotes responsible diving practices and does not advocate diving beyond the limits recommended for recreational diving. AERIS regulator equipment is designed to offer continued safe and reliable performance in the event the need arises and the recreational diving limits are exceeded. AERIS regulators are only CE certified to a maximum operating depth of 50 M (165 FT).

INTRODUCTION

THANK YOU for choosing a Regulator product from AERIS!

Features and operation of the various models of AERIS Regulator First and Second Stages currently available are described in this Owner's Guide, and/or any Addendum or Supplement provided with it.

By following the instructions in this Guide, you will understand how your Regulator product works, how to make best use of its features, and how to maintain it for long term use.

Some information presented may not be applicable to the specific model of Regulator or accessory that you purchased.

Do not dive with the Regulator until you read and understand all information provided with it.



NOTE: When this Regulator equipment is used in Europe, the Air supply must meet the requirements of EN12021.



WARNING: SCUBA complying with EN 250 is not intended for more than one user to breath from at a time.



WARNING: If SCUBA is configured and used by more than one diver at the same time, then cold water and breathing performance may not fulfil the requirements of EN 250.

REGULATOR FIRST STAGES



WARNING: Failure to prepare your First Stage properly for use in harsh environmental conditions, such as being subjected to sediment or the possible buildup of ice, or salt crystals, may result in serious injury or death.

Operation of your First Stage is not visible when using a regulator system. The First Stage converts the cylinder's high pressure air to an intermediate pressure of approximately 140 psi that can be handled by the regulator Second Stage to deliver a smooth flow of air upon demand (i.e., when you inhale). Intermediate pressure air is also available for inflation of a BC or dry suit.



WARNING: Under no circumstances should adjustment of an AERIS First Stage Regulator be performed by anyone other than an Authorized AERIS Dealer. Doing so may cause failure underwater, resulting in serious injury or death.

ATTACHMENT OF HOSES

Low pressure (LP) and high pressure (HP) port thread sizes are different, making incorrect installation of hoses unlikely. However, to avoid damage or personal injury that may occur due to incorrect installation, AERIS strongly recommends having installation performed professionally by an Authorized AERIS Dealer. If this is not possible, proceed as follows.

Type of Hose Being Connected:

- Determine whether the Hose that you are installing requires connection to an HP port (for a pressure gauge or air integrated computer), or to an LP port (for an octopus second stage, or a BC or dry suit inflator).
- Be sure that you only place high pressure accessory Hoses in ports specifically marked with the letters 'HP', or '4500 psi / 300 BAR'.

Installing Hoses:

After having determined the type of Hose and preferred orientation -

- Remove the Port Plugs from those Ports to be used by turning them counter clockwise with a 5/32" hex key. Save the Port Plugs for possible future use.
- Lightly lubricate the Hose-end threads and O-ring with silicone lubricant.
- Thread the Hose clockwise into the Port until secure, then tighten it with an open end wrench of the appropriate size to a torque of 40 in-lbs.
 - Second Stage - 9/16" wrench
 - LP Inflator - 9/16" (or 1/2") wrench
 - HP Gauge or Integrated Computer - 5/8" wrench
- After all Hoses are connected, test the complete Regulator Assembly by attaching it to an appropriate tank, pressurizing the system, and carefully listening for leakage of air.

REMOVAL OF HOSES



WARNING: At least one Second Stage must be connected to the First Stage to facilitate purging of air from the First Stage.

To remove a Hose from the First Stage -

- Loosen and remove the Hose by turning it in the counter clockwise direction with an open end wrench of the appropriate size.
- Lightly lubricate the threads and O-ring of the Port Plug.
- Thread the Port Plug clockwise into the Port and tighten to a torque of 40 in-lbs using a 5/32" hex key.
- Test the assembly by attaching it to an appropriate tank, pressurizing the system, and listening for leakage.

HP QUICK DISCONNECT

The High Pressure Quick Disconnect is designed to offer additional protection for your Instrument Console. It allows you to quickly and easily remove the HP Hose and Instrument Console from the Regulator First Stage without any tools. It should be oriented so it is best protected from collisions with objects while underwater.



WARNING: Proper installation of the HP Quick Disconnect is essential for it to function properly. It must be installed only by an Authorized AERIS Dealer.

Connecting Your Console with a HP Quick Disconnect:

- Ensure that the Regulator System is purged of all air.
- Push the hose portion of the Quick Disconnect firmly into the first stage portion.
- While holding the two portions together with one hand, turn the Locking Ring of the first stage portion clockwise (as viewed from the First Stage) until it stops (hand tight). DO NOT overtighten or use tools.

Disconnecting Your Console with a HP Quick Disconnect:

- Ensure that the Regulator System is purged of all air.
- While holding the hose portion of the Quick Disconnect with one hand, turn the Locking Ring of the first stage portion counter clockwise (as viewed from the First Stage).
- Using care not to bend the parts, pull the two portions of the Quick Disconnect straight apart to remove the HP hose and Instrument Console.



NOTE: Once the HP Quick Disconnect has been disconnected, the Regulator System can again be pressurized.

REGULATOR ATTACHMENT TO A TANK



WARNING: Maximum working pressure for an AERIS Yoke style Connector is 3500 PSI / 232 BAR and for a DIN style Connector is 4500 PSI / 300 BAR

Yoke Style Connector

Before attaching the Regulator to the Tank:

- Slowly open then close the Tank Valve for a second to allow a momentary flow of air to blow any moisture or contaminants from the air opening in the Tank Valve.
- Examine the sealing O-ring located on the Tank Valve to ensure that it is not cut, frayed, or deteriorated. Replace the O-ring if it is damaged.

To attach the Regulator to the Tank:

- Remove the Dust Cap from the Regulator Yoke by turning the Yoke Knob in a counter clockwise direction.
- Place the Yoke Connector over the Tank Valve, positioned with the seating surface against the valve O-ring.
- Turn the Yoke Knob clockwise until secure.
- Slowly open the Tank Valve (with the Pressure Gauge facing away from you).
- Momentarily purge the Second Stage, then listen to ensure that no air is leaking from the Regulator/Tank connection.
- If any leakage is observed, repeat the attachment procedure and inspect the sealing O-ring. If air still leaks, DO NOT USE! Take the Regulator and Tank to an Authorized AERIS Dealer for inspection and service.

If you wish to use your regulator on a DIN tank, have your Authorized AERIS Dealer convert the First Stage with an AERIS DIN Conversion Kit following the procedures given for the specific Regulator First Stage in the AERIS Product Service Guide.

To remove the Regulator from the Tank:

- Close the Tank Valve and purge all air from the Regulator System by depressing the Purge Button of the Second Stage Regulator. Ensure that all pressure has been purged.
- Turn the Yoke Knob counter clockwise to loosen it and lift the First Stage off the Tank Valve.
- Prevent water from entering the First Stage. **DO NOT blow air near a First Stage that does not have the Dust Cap in place.**
- Dry the Dust Cap, position it within the Yoke, and tighten it by turning the Yoke Knob clockwise until it is secure.

DIN Style Connector

Before attaching the Regulator to the Tank:

- Slowly open then close the Tank Valve for a second to allow a momentary flow of air to blow any moisture or contaminants from the air opening in the Tank Valve.
- Examine the Threads in the Valve to ensure they are clean and free of burrs or defects that could damage the Threads of your Regulator DIN Fitting.

To attach the Regulator to the Tank:

- Remove the Dust Cap from the Threads of the Regulator DIN Connector and examine the Threads and sealing O-ring. Replace the O-ring if it is damaged.
- Using care not to cross the threads, thread the DIN Connector clockwise into the cavity of the Tank Valve until it is secure.

- Slowly open the Tank Valve (with the Pressure Gauge facing away from you) and listen to ensure that no air is leaking from the Regulator/Tank connection.
- If any leakage is observed, repeat the attachment procedure and inspect the sealing O-ring. If air still leaks, **DO NOT USE!** Take the Regulator and Tank to an Authorized AERIS Dealer for inspection and service.

If you wish to use your Regulator on a standard Tank, have your Authorized AERIS Dealer convert the First Stage with an AERIS USA Yoke Conversion Kit following the procedures given for the specific Regulator First Stage in the current AERIS Product Service Guide; or install an AERIS DIN to USA Converter Yoke.

To remove the Regulator from the Tank:

- Close the Tank Valve and purge all air from the Regulator System by depressing the Purge Button of the Second Stage Regulator.
- Turn the DIN Connector Wheel counter clockwise out of the cavity in the Tank Valve.
- Prevent water from entering the First Stage. **DO NOT blow air near a First Stage that does not have the Dust Cap in place.**
- Place the Dust Cap on the threads of the Regulator DIN Connector.

DIN TO USA CONVERTER YOKE



WARNING: The DIN to USA Converter is specifically designed for use with AERIS brand First Stages. Although it may fit other brand First Stages, it was not designed to do so or tested for use with other brands. Under no circumstances should the AERIS DIN to USA Converter be used with any other First Stage than an AERIS model.

To install the DIN to USA Converter:

- Remove the Dust Cap from the Threads of the Regulator DIN Connector and examine the Threads and sealing O-ring. Replace the O-ring if it is damaged.
- Using care not to cross the threads, thread the DIN to USA Converter clockwise onto the First Stage DIN Connector until it is secure. DO NOT use tools to tighten!

Before attaching the Regulator to the Tank:

- Slowly open then close the Tank Valve momentarily to allow a brief flow of air to blow any moisture or contaminants from the opening in the Tank Valve.
- Examine the Threads in the Valve to ensure they are clean and free of burrs or defects that could damage the Threads of your Regulator DIN Fitting.

To attach the Regulator to the Tank:

- Remove the Dust Cap from the Yoke by turning the Yoke Knob in a counter clockwise direction.
- Place the Yoke Connector over the Tank Valve, positioned with the seating surface against the O-ring.
- Turn the Yoke Knob clockwise until secure.
- Slowly open the Tank Valve (with the Pressure Gauge facing away from you) and listen to ensure that no air is leaking from the Regulator/Tank connection.
- If any leakage is observed, repeat the attachment procedure and inspect the sealing O-ring. If air still leaks, DO NOT USE! Take the Regulator and Tank to an Authorized AERIS Dealer for inspection and service.

To remove the DIN to USA Converter:

- While holding the DIN Connector firmly, turn the DIN to USA Converter counter clockwise off the Threads of the First Stage DIN Connector. DO NOT use tools to remove.
- Place the Dust Cap on the Threads of the Regulator DIN Connector.

ENVIRONMENTAL PROTECTION KIT (if not pre installed)

By function of design, the inner components of AERIS Diaphragm type Regulator First Stages are isolated from the ambient environment. However, the outer side of the Diaphragm and the Diaphragm Spring, located inside the cavity at the hex opening end, will be subjected to environmental conditions.

AERIS recommends installation of an Environmental Kit on Diaphragm type First Stages subjected to environmental conditions in which debris, sediment, ice, or salt crystals might form in the Spring Cavity. The Kit is a unique dry seal system that uses no messy grease or chemicals.



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

Refer to Guidelines for Cold Water Diving on page 24.

REGULATOR SECOND STAGES



WARNING: Even if your First Stage is properly prepared for use in harsh environmental conditions, only proper training will protect your Second Stage from the effects of the environment.

FEATURES AND OPERATION

The Second Stage of the regulator assembly receives air at an intermediate pressure of approximately 140 psi from the First Stage and delivers it to you at ambient pressure during inhalation. When you stop inhaling, it then shuts off the flow of air and provides a path to exhale the air.

All Second Stage Regulators have a level of sensitivity that can result in excess air being expelled when the Second Stage is not in your mouth while in the water. When this occurs, it is usually during entry or when on the surface.

This condition, referred to as Free Flow, can usually be stopped by turning the Second Stage so the Mouthpiece is pointing down and the Purge Button is pointing up.

Recommended is to carry an Octopus with the Mouthpiece facing down when not in use, or to use a Mouthpiece Plug or Cover to prevent Free Flow in the event that it is bumped.

During normal use underwater, a small amount of water collects inside the Body of a standard regulator in a natural reservoir near the bottom. This is normal for most Second Stages, and the water is held away from your mouth naturally and will go unnoticed unless you become inverted

or do subaquatic somersaults at which time you may experience temporary 'wet breathing'. Water can be purged from the small internal air space of most Second Stages by exhaling a small puff of air into the Mouthpiece, or by blocking the Mouthpiece with your tongue and pressing the front mounted Purge Button to initiate a brief flow of air.

Non-Adjustable Second Stage (Primary and Octopus)

These models are downstream demand valve Second Stage Regulators that are lighter and smaller than most other Primary Second Stages. They provide air as you demand it with low inhalation resistance. Breathing effort is factory set to the average performance level required by most divers.

They are configured with front mounted Purge Buttons and orthodontically designed Mouthpieces. They can be used as Primary Second Stages or as an Octopus.



NOTE: If these Second Stages are shipped from the factory specifically as an Octopus, the inhalation effort is set slightly higher to reduce sensitivity.

Adjustable Second Stage (Primary and Octopus)

Pre-Dive/Dive Switch:

A Pre-Dive / Dive Switch is located on the upper/side portion of the body.

- Placing the switch in the right (-) position (Pre Dive) reduces, or eliminates, the possibility of high volume Free Flow when the Mouthpiece is not in your mouth.
- Placing the Switch in the left (+) position (Dive) provides optimum performance during a dive.

Adjustment Knob (on side):

A breathing effort Adjustment Knob on the side of the Body enables you to adapt breathing performance to different diving conditions.

- By turning the Adjustment Knob 'clockwise', breathing resistance (effort) is increased. This is done to prevent undesirable loss of air (Free Flowing) that often occurs when a high performance Regulator Second Stage is connected as an Octopus second stage, or when the primary Second Stage is not in the diver's mouth, such as when surface snorkeling.
- Turning the Adjustment Knob 'counter clockwise' decreases breathing resistance and reduces work of breathing. Adjustment should be used to improve performance, it should not be used as a method to use less air.
- During periods of heavy exertion underwater, and to compensate for the effects of depth, it is advantageous to have a Regulator that can provide minimal inhalation resistance and optimal performance when desired.

Guidelines for Adjustments (Knob on side):



NOTE: Rotation of the Adjustment Knob does not rotate the Poppet Seat against the Sealing Orifice inside the Housing.

Normal Pre Dive Setting -

- To set the Second Stage to an average breathing resistance, 1 to 1½ column inches of water (common factory setting), attach the First Stage to an appropriate Cylinder and open the Valve to pressurize the Regulator.
- Rotate the Adjustment Knob 'counter clockwise' until leakage is heard, then rotate the Knob clockwise ½ to 1 turn.

High Flow Setting -

- When diving deep, facing a long swim up current, or during other periods of heavy exertion, it is desirable to make the Regulator breathe as easy as possible. This setting should be used only when necessary to avoid loss of air that may occur due to the extra sensitivity at this setting.
- To adjust for minimum breathing resistance, rotate the Adjustment Knob 'counter clockwise' until a slight flow of air begins, then rotate the Knob 'clockwise' until the flow stops.
- Frequently monitor your air supply when the Second Stage is adjusted for maximum flow.

Preventing Air Loss -

- To prevent Free Flow when the Second Stage is out of your mouth, or when connected as an Octopus, rotate the Adjustment Knob 'clockwise' several turns. At the surface, place the Pre Dive / Dive switch in the right (-) position (Pre Dive) to reduce, or eliminate, Free Flow.
- Remember, increasing inhalation resistance can prevent undesirable loss of air. It will not conserve air while you are breathing from the Second Stage.

Storage Setting -

- At the conclusion of a day of diving, or when storing the Regulator for any length of time, rotate the Adjustment Knob 'counter clockwise' until it stops. This relieves excess Spring Pressure from the Poppet Seat increasing its service life.
- Immediately prior to the next dive, reset the adjustment to the normal Pre Dive setting by turning the Adjustment Knob 'clockwise' $\frac{1}{2}$ to 1 turn.

GYRO Octopus

The AERIS Gyro Octopus features two conveniently angled Exhaust Ports that direct the flow of exhausted air away from your field of vision. The smooth action 180 degree Swivel reduces jaw fatigue and provides for the convenience of underarm operation and ambidextrous operation.

How you use the Gyro Octopus depends upon your preferred arrangement of equipment and your style of diving (i.e., whether you plan to offer it to a buddy as an alternate air source or use it yourself, offering your buddy your Primary Second Stage).

The Gyro Octopus is EC Type approved for use in waters having Temperatures equal to or greater than 10 degrees C*.

*The operational Temperature limit stated above is given as a CE (European) requirement. AERIS Regulator Equipment has been tested and is operational at temperatures well below that limit.

EC Type examination performed by -
SGS United Kingdom Ltd., Camberley, Surrey.
Notified Body No. 0120

CARE AND MAINTENANCE

POST DIVE CARE

As soon as possible at the end of each day of diving:

- Install the First Stage Dust Cap and tighten the Yoke Knob (or install the DIN Dust Cap).
- If possible, immerse the entire Regulator Assembly in a warm fresh water bath and soak for one hour, preferably while pressurized. DO NOT depress the Second Stage Purge Button while the Regulator is soaking. Doing so will allow water to flow into the sealed portion of the First Stage.
- Remove from the bath and rinse all components of the assembly with slow running fresh water. DO NOT use full water pressure.
- Flush the ambient openings of the First Stage and the exterior of all components thoroughly to remove dissolved salt and other contaminants.
- If the First Stage is configured with a rubber-like Boot, direct rinse water through the flow-through slots.
- Flush the Second Stage by running water into the Mouthpiece and out the Exhaust Ports. DO NOT depress the Purge Button while rinsing., doing so will allow water to enter the First Stage.
- 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 First and Second Stages. Doing so can attract contamination that may subsequently interfere with proper operation.

TRANSPORT and STORAGE

If possible, transport your Regulator Assembly (preferably dry) in a padded carrying case or equipment bag separated from sharp items that might damage or scratch the components. You should also protect the Second Stages from damage from heavy objects.

Prior to storing your Regulator:

- If you were unable to clean the Regulator prior to transport, or if it became exposed to other equipment that was not thoroughly cleaned prior to transport (such as a BC or wet suit), clean it thoroughly and allow it to dry naturally as previously described.
- Ensure that the complete Regulator Assembly is clean and dry.

REPAIRS and SERVICE



WARNING: DO NOT attempt to disassemble or repair the First or Second Stages, or to adjust the First Stage. Doing so could cause malfunction while underwater resulting in serious injury or death. It will also void the Regulator's limited warranty.

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 by AERIS to perform factory prescribed service.

Once each year your complete Regulator 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 (see Guidelines on page 23).

Annual Service consists of Inspection, complete Disassembly, thorough Cleaning and Evaluation of reusable parts, replacement of non-reusable parts, complete Reassembly, Adjustment, and Testing

Costs for routine Inspection and Annual Service are understood to be a normal part of operation, and are not covered by the Regulator's limited Warranty.



NOTE: If Warranty Service is requested, present the appropriate documents (i.e., warranty card, receipts, and service records) to the Authorized AERIS Dealer when the Regulator is delivered for service.

ADDITIONAL SPECIFICATIONS FOR CONNECTING COMPONENTS TO AERIS REGULATOR FIRST STAGES

Second Stage (Primary or Octopus):

- Nominal Source Pressure = 140 PSI (9.5 BAR) \pm 5 PSI (.5 BAR)
- Maximum Source Pressure = 155 PSI (11 BAR)
- Thread Size = 3/8 - 24 UNF
- Inhalation Effort = 1.1 to 1.3 ciw (cubic inches of water)
- Exhalation Effort = 1.1 ciw
- Flow Rate = 30+ scfm (standard cubic feet per minute)
- Work of Breathing is equal to or better than US Navy and CEN

Pressure Gauge or Pressure Transmitter:

- Maximum Source Pressure = 5000 PSI (350 BAR)
- Thread Size = 7/16 - 20 UNF

GUIDELINE FOR 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 free-flowing.

Equipment should be inspected and serviced if o-rings or hoses display any signs of deterioration.

GUIDELINES FOR 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 to be properly fitted with an Environmental Protection Kit (if not pre-installed) 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.

RECORDS

First Stage Model

First Stage Serial#

Second Stage Model

Second Stage Serial#

Octopus Model

Octopus Serial#

Date of Purchase

AERIS Dealer

Dealer Phone No.

NOTES

**EC Type examination conducted by:
SGS United Kingdom Ltd
Weston - super - Mare
BS22 6WA, UK
Notified Body No. 0120
EN 250:2000**

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