



**DIVE
RITE®**

Equipment for Serious Divers®

**RG5300
XT Regulator
User Manual**

www.DiveRite.com

RG5300 XT Regulator User Manual June 4, 2013



Read this manual carefully before diving with the XT Regulator. You should fully understand how this regulator works and be proficient in its use prior to diving. We recommend that you keep this manual, including the CE Certification information below, stored with your regulator for the life of the product.



Assembly and disassembly of regulator system components, and any repairs to or internal maintenance of such components, should only be performed by a certified technician who is working under the supervision of an authorized Dive Rite dealer.



Before using your XT Regulator it is extremely important that you read and understand each warning, as well as warnings and cautions that appear throughout the manual. Failure to do so could result in damage to or loss of equipment, serious personal injury or death.



Before diving, you should have the proper training from a qualified instructor and obtain certification from a recognized training agency.



As part of your dive training, you should master all the basic skills of regulator use, including proper assembly and disassembly of complete scuba units (which include regulators, cylinders and harness), regulator second stage recovery and clearing, continuous breathing while on scuba and post dive regulator cleaning and storage.

CE Certification

The Dive Rite regulator described in this manual has been tested and certified by Registered Test Centre No. 1463 - Polski Rejestr Statkow. The test procedures were conducted according to the EN 250 standard, in conformity with the aforesaid directive, which sets out the conditions for marketing and essential safety requirements for CPPE Directive 89/686/EEC .

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SUPPORT

All Dive Rite products receive our commitment to excellence in customer service from your fellow divers. Contact us at **800-495-1046**, Monday through Friday, 9 AM-4 PM, Eastern Standard Time or email us at: **Support@DiveRite.com**

Congratulations on purchasing your XT Regulator.

The XT Regulator has been designed, manufactured and tested for the highest possible performance. With proper use and maintenance outlined in the manual it will provide you with many years of outstanding service.



Web Resources: As you read through the manual, watch for pointers and helpful tips from the Dive Rite Pros. To access our complete library, interactive Solution Finder and helpful videos at Dive Rite TV, go to www.DiveRite.com/DiveRiteTV



For product updates and new product release notifications, SIGN UP for the Dive Rite Newsletter and follow us on Facebook!

Product Description

The XT Regulator welcomes a new generation of regulator performance at Dive Rite. An elite performer, the XT's advanced, patented design earns top marks from Mike Ward of Dive Lab. With work of breathing at less than 1.0 J/i, the XT performs right alongside premier regulators on the market today.

XT1 First Stage Regulator

- Balanced first stage provides consistent gas flow regardless of depth and tank pressure
- Five low pressure ports and a swivel turret achieves optimal hose routing
- HP ports are angled 90-degrees from the DIN/Yoke fitting which gives the perfect angle for hose routing
- Environmentally sealed to protect against internal corrosion, contaminants and freeze
- Available as DIN or Yoke



XT2 Second Stage Regulator

- Pneumatically balanced design gives consistent gas pressure for easy inhalation
- Venturi assist directs airflow from the valve directly to the mouthpiece producing smooth inhalation.
- Easy grip dive/pre-dive switch avoids free flow at surface and is suitable with gloves
- Adjustable design helps diver fine tune cracking pressure so breathing resistance matches diver personal preference
- Deflection ring works to maximize performance while deterring free flow
- Orthodontic mouthpiece reduces jaw fatigue on long dives



WARNING

Using oxygen compatible materials and assembly processes that are today industry standard, the XT is suitable for oxygen enriched gas mixtures only if precautions are taken. Diver must use oxygen compatible materials, keep the regulator clean from contaminants during assembly and use and open the tank valve slowly.

Specifications

XT1 First Stage Regulator

- Balanced design
- Swivel turret
- Five LP ports (3/8-24 UN)
- Two HP ports each angled 90 degrees from fitting (7/16-20 UNF/ISO263)
- Environmentally sealed
- Intermediate pressure: 140 PSI
- Available as DIN or Yoke

XT2 Second Stage Regulator

- Pneumatically balanced design
- Internal parts are Teflon coated for cold-water use
- O-rings: oxygen compatible o-rings and lubricant
- Internal second stage valve: balanced downstream
- Second stage adjustment knob: Fine-tunes inhalation effort
- Available in right-hand, left-hand configuration and with yellow or green faceplate

The XT Regulator is Available as Follows:



XT1 First Stage Regulator (RG5100) - No hose. Choice of DIN (RG5100-DIN) or Yoke (RG5100-Yoke)



XT Second Stage Regulator (RG5200) - No hose. Choice of right-hand (RG5200-RIGHT), left-hand (RG5200-LEFT), yellow faceplate (RG5200 - YELLOW) or green faceplate (RG5200 - GREEN).



XT Regulator First and Second Stage (RG5300) with 28" LP hose



Advanced Open Water Regulator Set (PK5300-OW) - Includes: XT1 First Stage (1), XT2 Second Stage (2), 40" LP hose (1), 70-degree adapter (1), regulator necklace (1), 2" SPG with 24-inch HP hose (1), small swivel bolt snap and hose clip retainer.



Nomad Sidemount Regulator Set (PK5300) - Includes: XT1 First Stage (2), XT2 Second Stage right-hand (1), XT2 Second Stage left-hand (1), 60-inch LP hose (1), 22-inch LP hose (1), 70-degree adapter (2), Compact 6-inch SPG (2), regulator necklace, small swivel bolt snap and hose clip retainer.



STAGE Stage Regulator Set (PK5300) includes: XT1 First Stage (1), XT2 Second Stage (1), 40-inch LP hose, compact 6-inch SPG (1), small bolt snap and hose clip retainer.

Attaching High and Low Pressure Hoses

There are two high-pressure and five low-pressure ports on the first stage. The high-pressure port is for attaching a pressure gauge. The low-pressure ports give divers ultimate flexibility in streamlining and routing for the inflator hose and second stage regulator configurations.

WARNING

Do not try to connect a low-pressure hose to a high-pressure port or visa versa. Do not open a cylinder valve unless you are certain that all hoses are correctly attached.

NOTE: The turret-port base is slightly convex and slotted on each side to accommodate an 11/16 wrench for securing the turret while loosening the LP hose. This makes it easy to change the hose without concern of loosening the turret.

Attaching a Hose to a Second Stage:

Hose Removal/Installation requires the use of two 11/16 inch wrenches.

1. Check that the hose o-ring is in place.
2. Line up the hose connector with a port
3. Hand-tighten the hose to the regulator.
This prevents the adjustment tube from rotating.
4. Place an 11/16 thin wrench on the locking nut.
5. Place a second standard 11/16 inch wrench on the hose. Hold the thin wrench steady while loosening/tightening the hose fitting.
Do not over tighten.



Using the External Adjustment Knob

Turning the adjustment knob clockwise increases spring tension, making it more difficult for the valve to open. This helps to reduce the tendency to free-flow in strong currents.

Turning the knob counter-clockwise decreases spring tension, making the valve easier to open. This reduces breathing resistance, but can increase the tendency to free-flow.

You will want to try various settings of this knob during your first few dives to find the right position for you. The best practice is to set the regulator so that it breathes easily, short of free flowing.

WARNING

Adjusting the knob for the maximum breathing resistance does not reduce the amount of air you breathe from your cylinder. It may actually cause you to use more air because your diaphragm has to work harder to compensate for the resistance.

Using the Venturi Dive/Pre-Dive Switch

The dive/pre-dive switch controls a venturi flow valve located within the second stage of the regulator. When in the pre-dive position (pushed forward), this valve decreases

the likelihood of free-flow when not in use. The dive position (back, toward mouthpiece) decreases breathing effort and improves regulator performance.

To Set the Venturi Switch:

1. Set the switch to the dive position before each dive.
2. Set the switch to the pre-dive position when the regulator is not in use in or out of the water.

Care and Maintenance

Your regulator will provide you years of service with proper care and maintenance. This involves post-dive care and regular professional service.

NOTE: Stainless steel can develop rust even when properly cared for.

Post-dive care:

1. After use, replace the dust cover.
2. Thoroughly rinse the regulator in fresh water and allow it to dry before storing in a closed container. Do not hang or store the regulator in a manner that puts strain on the hoses.

Professional service:

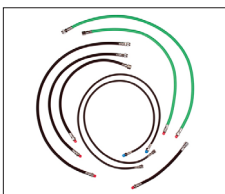
Over time, mineral deposits and salt build-up will accumulate on your regulator, which can adversely affect its performance. Professional cleaning and service is the only way to remove these deposits and return the regulator to its proper working order. Other regulator breakdowns can also occur whether the regulator is used or not, such as spring tension and o-ring breakdown. These too will affect the performance of the regulator.

To keep your regulator working at its best performance, you should have your regulator serviced at least once every two years or 100 dives by a Dive Rite authorized regulator technician or by one of the technicians at Dive Rite headquarters.

NOTE: Avoid excessive pool use. Excessive use in chlorinated water can lead to premature discoloration and shorten the products life.

Optional Accessories Available At Your Local Dive Rite Dealer

To get the most enjoyment out of your XT Regulator, you may wish to add the following accessories:



Airflex Braided Hoses



Tech SPG



Regulator Necklace



Lamartek, Inc. dba Dive Rite warrants this regulator against any and all defects in materials and workmanship throughout its useful life. This warranty does not apply to normal wear and tear, mouthpieces, hoses, o-rings, diaphragms, filters, valve seats, or any cosmetic damage and is extended only to its original owner.

- Although this warranty is not contingent upon any annual service, it is highly recommended that any and all regulators receive an annual safety inspection performed by factory-authorized personnel. Factory or authorized dealer servicing is required every 200 hours of dive time or every 2 years, whichever occurs first, to maintain the warranty.
- This warranty applies only to regulators purchased from authorized Dive Rite Dealers. Misuse, neglect, unauthorized service, as well as any modifications void this warranty.
- Dive Rite shall not be liable for incidental or consequential damages incurred through the use of this regulator. Some states in the U.S. and certain foreign countries do not allow exclusions or limitations of liability for incidental or consequential damages so this may not apply to you.
- This warranty gives you specific legal rights. You may have other rights which vary from state to state and country to country.
- To make a claim under this warranty, the owner must have registered his/her warranty using Dive Rite's website (www.DiveRite.com). All warranty repairs (international or domestic) must be accompanied by a copy of the purchase receipt. For warranty repairs (international or domestic) the product must be returned to the store where the item was purchased or directly to Dive Rite. A Return Authorization must be obtained by calling Dive Rite corporate offices (386-752-1087) to send items to Dive Rite. No warranty service will be performed for other than registered owners.

Activating and Utilizing Your Warranty

1. To activate your warranty, you must register your regulator within 30 days of purchase through our online product warranty registration. This is located within our website at www.DiveRite.com.
2. Proof of original ownership is provided by your purchase receipt and should be retained for your records.
3. To maintain your original-owner lifetime warranty, you must have your regulator serviced within the prescribed 200 hours of usage or two year time frame as outlined above. This service can be done at your local authorized Dive Rite Dealer or directly by Dive Rite.
4. If you intend to receive your service directly from Dive Rite, you must first obtain a Return Merchandise Authorization (RMA) number by calling Dive Rite at 386- 752-1087. Your RMA number is to be printed on the address label of your package.

REGULATOR SERVICE LOG



Date of Service	Dealer Name	Service Performed	Tech Initials



800-495-1046

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