USER'S MANUAL

SR2

SHERWOOD SCUBA

Part Numbers:

SRB2000 (SR2 A-Clamp - regulator set)
SRB2000D (SR2 300 bar ISO- regulator set)
SR2002 (SR2 Octo)
SRB1005 (SR2 1st Stage only)
SR9002N (SR2 2nd Stage only)

www.SherwoodScuba.com

Find out more

Contents:

Thank you for choosing the Sherwood SR2 Regulator.

To get the most satisfying use of this product, please take time to read this entire manual to understand the use and limitations of the SR2 before you attempt to use it. If you have any questions contact your Authorized Sherwood Scuba Dealer for immediate attention or you may contact us at

Link: SHERWOOD SCUBA

NOTE: This manual contain several links, if you are holding a printed copy of this manual, the best way to access the links is by downloading a copy of the manual in PDF from: SherwoodScuba.com. The links can be accessed digitally on the PDF.

This User's Manual contains signal words that are intended to designate levels of hazardous conditions. These signal words and their designations are as follows:

WARNING - Indicates a potentially hazardous condition or situation which, if not avoided, could result in death or serious injury.

CAUTION - Indicates a potentially hazardous condition or situation which, if not avoided, may result in minor or moderate injury.

NOTICE - Is used to address practices not related to personal injury.

Meet the uniquely designed Sherwood SR2

Externally, the Sherwood SR2 may look like any other 90° angled Flow-Through Piston regulator on the market, but internally the SR2 First Stage was designed with a dry sealed spring chamber to keep water and debris out of the interior of the First Stage.

This not only reduces interior corrosion of the First Stage; it also prevents ice formation in the spring chamber in cold water diving situations. Many regulators require an after-purchase modification to achieve these benefits. The Sherwood SR2 includes these high-performance advantages as standard feature.

The SR2 First Stage's Sealed Diaphragm is also capable to transfer the surrounding Environmental Water Pressure to an exclusive dry internal mechanism called the 3PL, making the SR2 1st Stage, the only Flow Trough Piston System on the market that is both, environmentally sealed & dry.

WARNING

Sherwood Scuba equipment is to be used only by individuals trained and certified by a national recognized scuba training agency. Assembling scuba equipment and/or diving without the necessary training in safety procedures or without observing practices outlined by your training agency for your level of certification is extremely hazardous and could result in serious injury or death. The contents of this manual are not a satisfactory substitute for certified scuba instruction.

WARNING

Specialty Diving: This Sherwood Scuba regulator is designed to perform under demanding conditions. However, before you attempt to participate in specialized diving activity you must receive appropriate training in that specialty. Failure to receive training and to master the skills required for these advanced activities could subject you to conditions that could result in death or serious injury. Some examples of advanced diving activities include, but are not limited to:

Deep Diving - Deeper than the generally recognized recreational diving limit at 40 meters (135 feet) of seawater.

Decompression Diving - At combined depth and duration exposures requiring mandatory decompression stops.

Cold Water Diving - Diving in water temperatures less than 10°C (50°F) may require special techniques to avoid conditions that could result in freezing conditions inside regulators and valves. Training should include problem avoidance techniques and emergency procedures for dealing with uncontrolled gas flow from the regulator or valve.

Cave or Wreck Diving - Diving in any situation that provides an overhead environment requires knowledge of the hazards associated with such a location and specialized configuration of you diving equipment including the proper set up of the alternate breathing supply. Failure to observe recommended practices could result in death or serious injury.

WARNING

Multiple Divers: For escape purposes; if a scuba system using this Sherwood regulator is configured to be used by more than one diver at the same time, then **it shall not be used at depths greater than 30 meters and in water temperature not below 10°C.** The use of an auxiliary emergency breathing system using the same 1st Stage in temperature less than 10°C is not a preferred configuration & the use of alternative fully independent systems is advised. Only SCUBA systems in compliance with (EU) 2016/425, (UK) 2016/425 as brought into UK law and amended and EN250:2014 can be used as an escape device by more than one user at the same time.

CAUTION

Chemicals and Lubricants. Do not use any lubricants on your regulator between service overhauls or inspections. No additional lubrication is required and the use of improper lubricant could introduce conditions adverse to respiratory health or increase the risk of fire hazard.

Disinfection. To minimize the risk of pathogen growth inside your regulator's 2nd Stage and mouthpiece areas is recommended to use a proper disinfection method after diving & before storing your regulator system.
In addition to fresh water rinse to minimize mineral build up also prepare a suitable disinfectant solution that can be a commercially available one such as Sterainios 2% (Glutaraldehyde). Submerge the 2nd stages in the solution for 3 - 5 minutes, remove from solution rinse off with abundant clean fresh water.

Additional information can be found here: 

If the recommended solution is not available in your location, prepare a mix of water & bleach at a 10% concentration but no less than 4%. Submerge the 2nd stage(s) independently from the rest of the regulator for 2 - 3 minutes. Rinse again with abundant fresh water to wash out the disinfectant residues. Be mindful that if you leave the regulator inside the disinfectant solution for long periods of time, or it is not rinsed properly the chemicals could affect the components of the regulator. The use of the recommended disinfection solutions will not have an adverse effect when used as indicated within this instructions.

INITIAL SET UP

Take time to register your ownership of your new SR2 regulator (click on the logo below)

SHERWOOD SCUBA®

Registration is necessary to participate in Sherwood's free service parts program and to receive product update notices. (Find more information regarding the free parts program in page #17 of this manual).

Your Authorized Sherwood Dealer is an excellent resource for setting up your regulator the first use such as the installation of important ancillary devices such as a Submersible Pressure Gauge or Dive Computer, Alternate Air Source & Buoyancy Compensator, as well as the initial system pressurization and any fine tune final details your regulator may need before diving with it for the first time.

The proper installation & testing of those additional components on your SR2 should be left to a qualified technician.

CAUTION

Before Each Dive

Inspect your regulator and all associated equipment for loose or missing parts or evidence of damage. Do not use the regulator until loose or damaged parts are repaired or properly adjusted.

Connect the regulator to a cylinder. Pressurize the system. Test the regulator by purging the 2nd Stage a few times & then breath through it while at the surface before entering the water. Operating the purge alone does not adequately check the regulator for proper operation. Check the entire system for signs of air leakage, inspect tank valve O-ring & correct or replace if necessary but if leakage persist contact your Sherwood service center.

After your SR2 & all associated equipment has been properly tested and you are sure there are no leaks perform simple test dive in shallow water in a controlled environment such as a pool to verify that the system performs normally and you are familiar with its operating characteristics. Such a test dive may expose potential problems before you arrive at your final dive destination and will assist on avoiding potentially disappointing or hazardous scenarios.

OPERATION

The regulator should be connected on the cylinder using a valve that complies with EN ISO 12209: 2013. ,

Following this standard, this Sherwood regulator has a connection that is either:

Yoke (A-Clamp) fitting with a working pressure of 232 bar,
300 bar ISO threaded fitting with a working pressure of 300 bar.

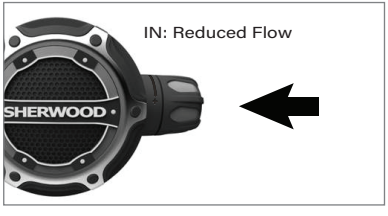
NOTE: Both configurations have been tested at a maximum pressure of 300 bar, (4350 psi)

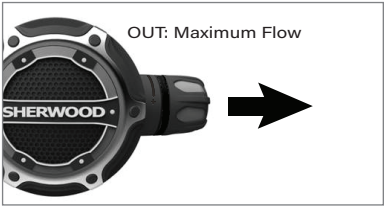

Sealed Environmental Diaphragm
Sherwood's Unique Dry Depth Compensation System (internal)
SR2 1st Stage SN# Location
(2) 7/16-20 UNF HP Ports
EN250A
Also available in 300 bar ISO Configuration
Both configurations tested at a maximum operating pressure of 300 bar (4350 psi).
(5) 3/8-24 UNF LP Ports on a Swivel Body

ADJUSTMENT DURING THE DIVE

The Sherwood SR2 has only one adjustment. Adjusting the 2nd Stage Knob affects both, the initial breathing effort and the Venturi assisting effect. The operation of the knob is the same as most regulators of this type. The easiest way to remember the operation is to think of a water faucet. You turn the faucet clockwise to reduce the flow and the opposite way to increase it.

Also, note that when the knob is rolled inwards, to reduce flow, we call it fully "IN" and when it is rolled outwards, to maximize flow, we call it fully "OUT".






Soft Comfortable Bite Mouthpiece
SR2 2st Stage SN# Location
Exhaust T - under mouthpiece
Back = Reduced
Flow (less sensitive)
Second Stage
Adjustment Knob
SHERWOOD
Forward = Maximum
Flow (more sensitive)
Hose Length PN# SHV7530:
81 cm (32") Primary - Black

When diving at the surface or when the regulator is out of the water, it is important to adjust the regulator sensitivity to the least sensitive position (rolled back, fully "IN") to stop the venturi assisting effect and minimize the possibility of uncontrolled free flow of air. While diving, it is recommended that the regulator be operated at the greatest sensitivity available without causing the regulator to free flow. Breathing with greater resistance will not conserve air and, in fact, may result in more breathing effort and increased air consumption.

AFTER THE DIVE

As soon as possible after any diving activity, it is recommended that the regulator be thoroughly rinsed in fresh water WHILE IT IS STILL PRESSURIZED. Rinsing while pressurized will prevent the introduction of contaminants into the sealing areas of the regulator through the 2nd stage and preserve reliability.

If it is not possible to rinse while pressurized, be certain to keep water and contaminants away from the regulator's first stage inlet. Dry the inlet area well and the inside of the dust cap, then, put the dust cap back on & secure it before a attempting to rinse the regulator. DO NOT operate the purge while rinsing.

Operating the purge, without pressure from the hose, opens the second stage valve and increases the risk of water & contaminants entering the second stage inner components.

If the regulator is additionally going to be used consistently for pool training, be mindful that all the chemicals in pool water are even more harsh than just ocean water. Be more thorough while rinsing, and consult with a Sherwood technician to find out if your regulator is going to require to be serviced more often.

STORAGE & TRANSPORT

Be certain the regulator is dry before storage to minimize opportunities for bacteria or fungal growth. Although the regulator will tolerate short periods of temperature extremes between -20°C & 70°C (-4° F & 160° F), it should be stored inside a regulator bag at room temperature between 15°C - 29°C (59°F -85°F) and away from direct sunlight (UV) exposure to maximize the life of the various components in the regulator.

Although your Sherwood regulator is made out of very high-quality components it is advised to transport your regulator using an appropriate padded carrying bag to prevent damages during transportation.

AUTHORIZED SERVICE

In order to maintain the product warranty and optimum performance, your Sherwood regulator must be inspected annually and receive service from an Authorized Sherwood Scuba Dealer every 24 months or 300 hours of use, whichever comes first. Service includes disassembly, cleaning, inspection, replacement of service kit parts, lubrication as necessary and adjustment for optimal performance.
If you need assistance in locating an Authorized Sherwood Scuba Dealer for service click on the logo below:

SHERWOOD SCUBA®

LIMITED LIFETIME WARRANTY

Sherwood Scuba warrants that the SR2 model regulator purchased from **Authorized Sherwood Dealers** shall be free of defects in workmanship and materials for the lifetime of the original purchaser.

Under this warranty Sherwood will either repair or replace, at its sole option, any original parts that fail to perform as intended. This warranty excludes products subject to abuse, neglect, alterations or improper unauthorized service. Warranty also excludes parts subject to wear such as hoses, mouthpieces, seals, and metal parts with mild corrosion from exposure to seawater.

Under this warranty plan, Sherwood will replace warranted parts but the labor to replace such parts is excluded and is the responsibility of the owner.

In order to use this warranty, you must provide proof of purchase from an **Authorized Sherwood Scuba Dealer.** Save your receipts as proof of purchase. If you are unsure as to whether a dealer is authorized, contact us at www.SherwoodScuba.com for verification.

WARNING - Aside of fresh water rinsing after every dive & the storage precautions discussed in this manual, this Sherwood Regulator does not have end-user serviceable components nor service protocols that are intended for the end-user to perform.

Under certain circumstances you may be eligible for free service parts. Consult your Authorized Sherwood Dealer to determine eligibility.

To qualify for the free service parts program, you must:

1. Purchase your SR2 from an Authorized Sherwood Scuba Dealer.
2. Register your SR2 via SherwoodScuba.com within 30 days following purchase, the registration must include your regulator's serial number linked to your name as the original purchaser.
3. Obtain an inspection of the SR2 regulator annually by an Authorized Sherwood Scuba service center and retain proof of inspection.
4. Obtain a complete service (complete product overhaul), by an Authorized Sherwood Scuba service center a year after inspection & at intervals not exceeding 24 months or 300 hours of use. Retain proof of complete product overhaul.
5. Present a copy of the original sales receipt and proof of annual inspection.

Note: Free parts program does not include the cost of labor to service or inspect.

Sherwood Scuba specifically disclaims liability for any consequential, special or indirect damages arising out of the use of your Sherwood Scuba regulator.

Warranty laws in your state or location may affect your rights and should be consulted if you believe the terms of the warranty do not apply to you.

CE & UKCA Certification

The Sherwood regulator described in this manual has received the CE or UKCA type-examination certificate according to European & UK regulations establishing the conditions of release into the market & the fundamental safety requirements for third category Personal Protective Equipment (PPE).

Certification tests have been conducted according to the core requirements for health and safety set by European regulation 2016/425 or UK regulation 2016/425 as brought into UK law and amended.

The CE, EN250 & UKCA marks on the product denote the compliance with the mentioned requirements. 0958 number next to the CE markings is the identification code for SGS Fimko Oy Takomotie 8 00380, HELSINKI, Uusimaa Finland. 0120 number next to the UKCA markings is the identification code for SGS UK Rossmore Business Park Ellesmere Port, South Wirral, Cheshire CH65 3EN United Kingdom, both EU & UK are bodies controlling product compliance with above mentioned EU & UK regulations, as per module D of the EU regulation 2016/425, or Module D of the UK Regulation 2016/425, and EN250:2014

EN 250:2014 - The requirements and tests defined by the EN 250:2014 aim to ensure a minimum safety level for the operation of open circuit underwater breathing equipment. EN250 norm defines the minimum technical standards of acceptance for recreational scuba diving regulators & the EN250:2014 is the latest revision of the EN250 norm. All Sherwood regulators have passed the certification test required by EN250:2014.

Additional information can be found by clicking on the links below:

https://www.sherwoodscuba.com/ModuleFile/SR2_EU_DoC.pdf?id=4492

https://www.sherwoodscuba.com/ModuleFile/SR2_UK_DoC220412.pdf?id=4424

Note: For better access to all the links provided within this manual go to SherwoodScuba.com & download a copy of the manual in PDF and acess the links digitaly.

Application & Limitations

The Sherwood regulator described in this manual is only intended for underwater diving & must be used in conjunction with a complete scuba system.

In compliance with Regulation 2016/425 & UK Regulation 2016/425 as brought into UK law and amended, Chapter IV, Article 18, Annex I & Annex II Clause 1.4 (h) this demand regulator is considered a Personal Protective Equipment Category III; (b) atmospheres with oxygen deficiency & (i) drowning. This Sherwood SR2 regulator is designed to provide the diver with a breathable gas mixture while in an underwater environment. The HP port on the 1st Stage of the SR2 allows the diver to install a pressure indicator that can warn the diver of an approaching failure of the breathable gaseous mixture..

In compliance with the EN250: 2014 standard, this diving regulator is expected to only be used with breathable compressed air. This breathable air must comply with the EN 12021: 2014 standard.

This demand diving regulator comprises a pressure reducer (commonly known as the first stage), with a pressure hose and a demand valve (commonly known as the second stage) with a mouthpiece.

In compliance with the EN250 standard, this regulator was tested at a water temperature 4°C & marked EN250 A.

This Sherwood regulator is intended for scuba diving in a subaquatic environment only & recreational purpose. This regulator is not intended for subaquatic jobs requiring specific protection for the breathing equipment. In particular, this equipment is not intended for diving in highly contaminated water & very poor visibility, (chemical products, water with large quantities of suspended solids or hazardous pathogens). Regardless of your underwater activity or the type of work intended, an air outage is a major risk to consider in autonomous diving. Your regulator must be connected to the appropriate & sufficient volume of breathable air for your planned dive.

This Sherwood Regulator is certified for a depth of 50 meters.

The Sherwood SR2 regulator described in this manual must be used in conjunction with the following items:

1. Cylinder(s) with valve(s) containing compressed air complying with EN 12021: 2014
2. Breathing gas pressure indicator
3. Facepiece: complete mouthpiece or half-mask for diving or complete mask;
4. Carrying system.

*The apparatus may also include the following sub-components:

5. Auxiliary breathing system
6. Manually operated buoyancy control system that may include releasable ballast.
7. Depth/time measuring device
8. Additional safety device(s)
9. Voice communication system

***NOTICE**, Items 5 to 9 could be considered additional items used with the intention to minimize risks.

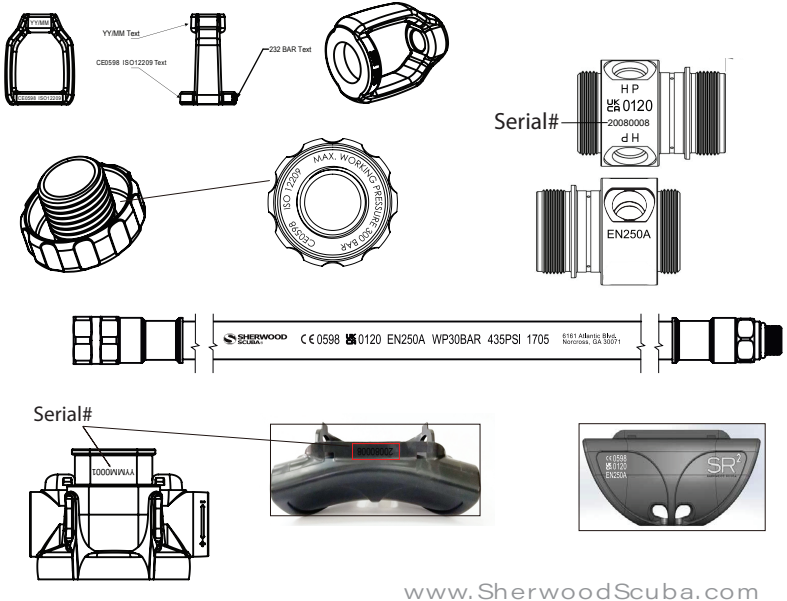
Obsolescence

Sherwood Scuba considers 2 criteria of obsolescence; A: Obsolescence of the replaceable components during a bi-annual overhaul (2 years after the original date of purchase from an authorized dealer), those components become obsolete every time the regulator goes in for service at any authorized dealer & B: Obsolescence of a regulator model after it is out of production. Sherwood Scuba commits to suport (with service kits, spare parts & technical support) each particuar regulator model for a perod of 10 years after the date a particular regulator model has no longer being produced.

Contact us at https://www.sherwoodscuba.com/contact-us/contact-info in case you have doubts or concerns regarding your product obsolescence.

Sherwood Scuba is the manufacturer of this regulator, 6161 Atlantic Boulevard, Norcross, GA 30071 - USA.
EU Distributor: Technical Diving Courses F.F. ULRIKSGADE 34 2100 COPENHAGEN, DENMARK
UK Distributor: Midland Diving Equipment 57 SPARKENHOE STREET LEICESTER, ENGLAND LE2 ODT

Location of the identifying markings on 1st Stages (A-Clamp & 300 bar ISO), hose & 2nd Stages



Purchase Date: _____

First Stage S/N: _____

Second Stage S/N: _____

SERVICE RECORDS

Dealer: _____ Date: _____

Address: _____

_____

Service Technician Signature: _____

Dealer: _____ Date: _____

Address: _____

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Service Technician Signature: _____

Dealer: _____ Date: _____

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