

70 **SHERWOOD**
YRS **SCUBA** 1955-2025

SR3

**SECOND STAGE
REGULATOR**

OWNER'S MANUAL



COPYRIGHT SHERWOOD SCUBA
V1.10.2024
SherwoodScuba.com

70 **SHERWOOD** *yrs* **SCUBA** 1955-2025



SR³

REGULATOR SET - 70TH ANNIVERSARY EDITION

The SR³ provides superior breathing performance, in which only a few regulators in the world achieve. Less than 0.65 joules/liter of WOB at 50 msw(165fsw) & 625. l/m RMV. The SR³ is the **ONLY** Flow Through Piston Regulator that is both environmentally sealed and Internally Dry while still providing a Depth Compensation mechanism. Which is no easy task to accomplish. Sherwood's **Three Pin Link (3PL)** transfers the environmental pressure to the piston and provides consistent flow at any depth.

SR³ 2ND STAGE

- Special Edition Platinum finish to celebrate Sherwood's 70th year in the diving industry
- Braided LP hose
- **Seat Saving Floating Crown (SSFC)** - Extended HP seat life while not in use
- One touch performance adjustment
- Pneumatically balanced 2nd stage

SR³ 1ST STAGE

- Special Edition Platinum finish to celebrate Sherwood's 70th year in the diving industry
- Improved performance

PART NUMBERS

SRB4000 (SR³ 70TH ANNIVERSARY)

SRB4000D (SR³ 70TH ANNIVERSARY - DIN)

SR2005 (SR³ OCTO)

Average WOB less than 0.65 J/L

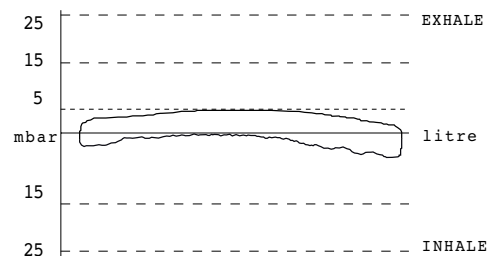
RMV = 62.5 l/min.

Depth = 50 m

Service pressure = 50 bar

*WOB = Work Of Breathing

*RMV = Respiratory Minute Value



The Sherwood Scuba SR³ dry first stage and high performance 2nd stage have been laboratory tested in temperatures of 39°F (4°C). Please use Ice Diving techniques when diving in colder waters.

TABLE OF CONTENTS

1.0 INTRODUCTION	5
1.1 WARNINGS, CAUTION & NOTES	5
1.2 TRAINING REQUIREMENTS	6
1.3 SPECIALTY DIVING SCENARIOS	6
1.4 CHEMICALS, LUBRICANTS & DISINFECTION	7
2.0 INITIAL SET UP	7
3.0 OPERATION	8
4.0 SR³ 1ST STAGE COMPONENTS	8
5.0 SR³ 2ND STAGE ADJUSTMENTS	9
5.1 ADJUSTMENT DURING THE DIVE	9
6.0 AFTER DIVE, STORAGE & SERVICE	10
6.1 AFTER THE DIVE	10
6.2 STORAGE & TRANSPORT	10
6.3 AUTHORIZED SERVICE	10
7.0 LIMITED LIFETIME WARRANTY	11
8.0 APPLICATION & LIMITATIONS	12
8.1 OBSOLESCENCE	13
8.2 COPYRIGHT	13
9.0 SCUBA SYSTEM COMPONENTS	14
10.0 SERVICE RECORDS	15

1.0 INTRODUCTION

Thank you for choosing the Sherwood SR³ 70th Anniversary Edition 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 SR³ 70th Anniversary Edition Regulator 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 [Sherwood Scuba](http://SherwoodScuba.com).

Meet the uniquely designed Sherwood SR³.

Externally, the Sherwood SR³ may look like any other 90° angled Flow-Through Piston regulator on the market, but internally the SR³ 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 SR³ includes these high-performance advantages as standard feature.

The SR³ 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 SR³ 1st Stage, the only Flow Trough Piston System on the market that is both, environmentally sealed & dry.

1.1 WARNINGS, CAUTION & NOTES (DEFINITIONS)

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:



A **WARNING** indicates a potentially hazardous condition or situation which, if not avoided, could result in death or serious injury.



A **CAUTION** indicates a potentially hazardous condition or situation which, if not avoided, may result in minor or moderate injury.



A **NOTE** is used to address practices not related to personal injury.

1.0 INTRODUCTION

1.2 TRAINING REQUIREMENTS



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.

1.3 SPECIALTY DIVING SCENARIOS



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 your 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.

1.0 INTRODUCTION

1.4 CHEMICALS, LUBRICANTS & DISINFECTION



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.



CAUTION : 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.

[Click here](#) for additional information.

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.

2.0 INITIAL SET UP

[Click here](#) to register your ownership of your new SR³ regulator.

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 #11 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 SR³ should be left to a qualified technician.

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 SR³ & 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.

3.0 OPERATION

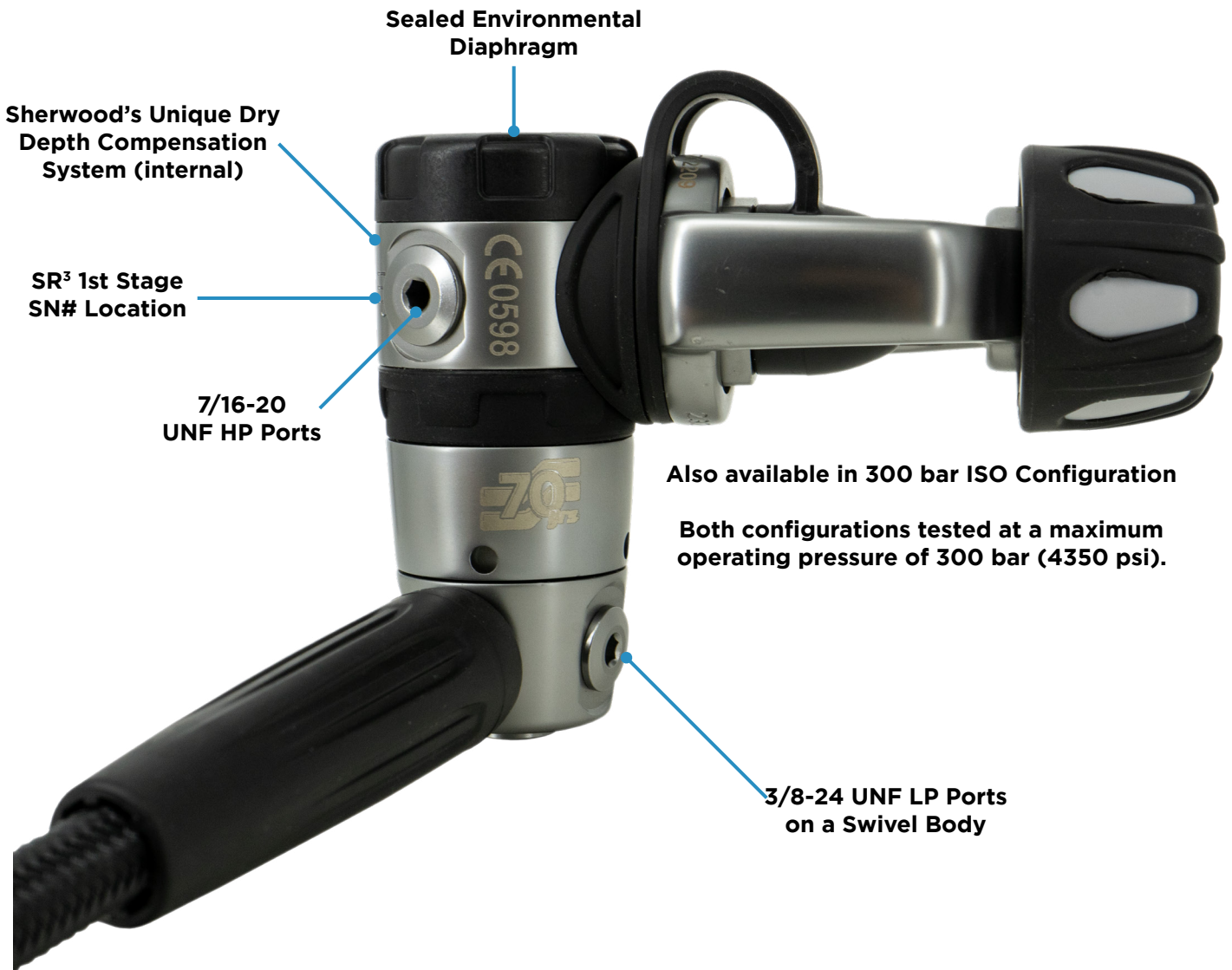
The regulator should be connected on the cylinder using a valve that complies with EN ISO 12209: 2013.

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).

4.0 SR³ 1ST STAGE COMPONENTS



5.0 SR³ 2ND STAGE ADJUSTMENTS

5.1 ADJUSTMENT DURING THE DIVE

The Sherwood SR³ 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".

IN : Reduced Flow



OUT : Maximum Flow



6.0 AFTER DIVE, STORAGE & SERVICE

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.

6.1 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 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.

6.2 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.

6.3 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. [Click here](#) for assistance in locating an Authorized Sherwood Scuba Dealer.

7.0 LIMITED LIFETIME WARRANTY

Sherwood Scuba warrants that the SR³ 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.



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 SR³ from an Authorized Sherwood Scuba Dealer.
2. Register your SR³ 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 SR³ 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.

8.0 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 SR³ 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 SR³ 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 SR³ 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.

8.0 APPLICATION & LIMITATIONS

8.1 OBSOLESCENCE

Sherwood Scuba considers 2 criteria of obsolescence:

1. 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.
2. Obsolescence of a regulator model after it is out of production. Sherwood Scuba commits to support (with service kits, spare parts & technical support) each particular regulator model for a period of 10 years after the date a particular regulator model has no longer being produced.

[Click here](#) to contact us if you have doubts or concerns regarding your product obsolescence.

8.2 COPYRIGHT

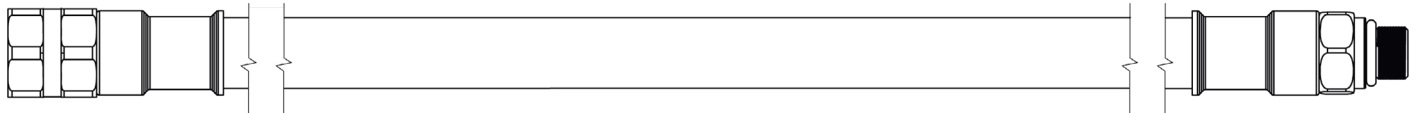
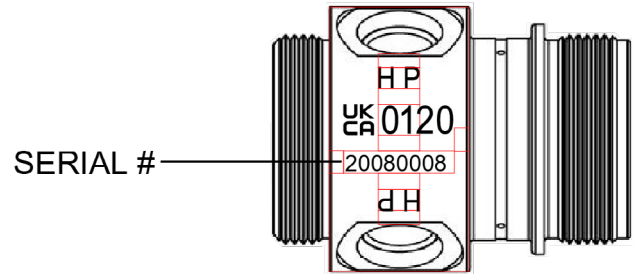
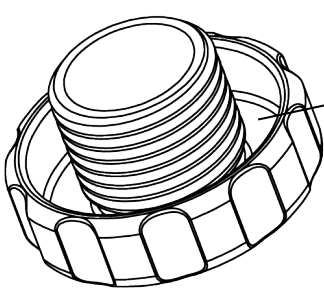
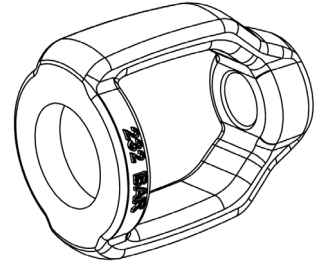
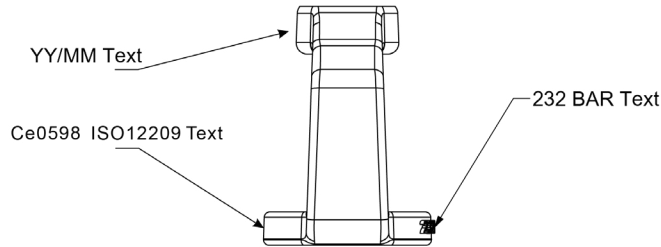
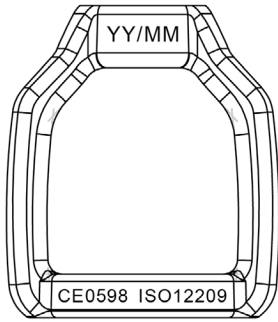
This user's manual is protected by the copyright law of March 11, 1957 regarding artistic & literary property. This manual may not be reproduced, copied, photocopied, or altered by any means; digital or analogue, in whole or in part, without prior consent in writing from Sherwood Scuba.

Sherwood Scuba is the manufacturer of this regulator, 6161 Atlantic Boulevard, Norcross, GA 30071 - USA.

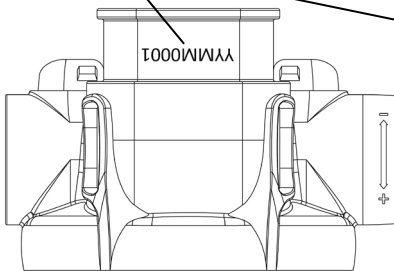
EU Distributor: Technical Diving Courses F.F. ULRIKSGADE 34 2100 COPENHAGEN, DENMARK

UK Distributor: Midland Diving Equipment 57 SPARKENHOE STREET LEICESTER, ENGLAND LE2 ODT

9.0 SCUBA SYSTEM COMPONENTS



SERIAL #



SR³ REGULATOR

10.0 SERVICE RECORDS

1ST STAGE SERIAL NUMBER : _____

2ND STAGE SERIAL NUMBER : _____

DATE OF PURCHASE : _____

BELOW TO BE FILLED IN BY AN AUTHORIZED SHERWOOD SCUBA DEALER :

DATE	DEALER/TECHNICIAN	ADDRESS	SIGNATURE

[CLICK HERE TO DIGITALLY ENTER SERVICE RECORDS](#)

COPYRIGHT SHERWOOD SCUBA
V2.4.09.17.2024
SherwoodScuba.com