

## SCUBAPRO S600

# Scubapro S600 Second Stage Regulator User Manual

Model: S600

## 1. INTRODUCTION

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This manual provides essential instructions for the proper use, setup, maintenance, and care of your Scubapro S600 Second Stage Regulator. Please read this manual thoroughly before using the equipment to ensure safe and optimal performance. The Scubapro S600 is designed to deliver air efficiently and reliably, enhancing your diving experience.

## 2. SAFETY INFORMATION

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**Diving is an inherently risky activity.** Improper use or maintenance of diving equipment can lead to serious injury or death. Always adhere to the following safety guidelines:

- **Professional Training:** This regulator must only be used by certified divers who have received proper training in scuba diving and regulator operation.
- **Pre-Dive Checks:** Always perform a thorough pre-dive inspection of your regulator and all diving equipment before each dive.
- **Maintenance:** Regular professional servicing is crucial. Follow the manufacturer's recommended service intervals.
- **Emergency Procedures:** Be familiar with emergency procedures for regulator malfunction.
- **Environmental Factors:** Be aware of environmental conditions that may affect regulator performance, such as extreme cold water.
- **Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

## 3. PRODUCT OVERVIEW

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The Scubapro S600 Second Stage Regulator is engineered for reliable and comfortable breathing underwater. Its design focuses on delivering ample yet controllable quantities of air with minimal effort.



*Figure 3.1: Scubapro S600 Second Stage Regulator. This image shows the main body of the regulator, including the mouthpiece and hose connection point.*

### Key Features:

- **Air Balanced Valve:** Ensures consistent airflow regardless of tank pressure.
- **Diver-Adjustable Inhalation Effort:** Allows divers to customize breathing resistance.
- **Diver-Adjustable Venturi-Initiated Vacuum Assist (VIVA):** Prevents free-flow on the surface and provides effortless breathing underwater.
- **Super-flow Hose:** Designed for maximum air delivery.
- **High Comfort Orthodontic Mouthpiece:** Reduces jaw fatigue during long dives.
- **Full Metal Valve Housing:** Enhances durability and thermal exchange.

## 4. SETUP

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Proper setup is critical for safe diving. Follow these steps to connect your S600 Second Stage Regulator:

1. **Inspect Components:** Before assembly, inspect the second stage, hose, and O-rings for any signs of damage, cracks, or wear. Ensure the mouthpiece is securely attached.
2. **Connect to First Stage:** Carefully screw the super-flow hose of the S600 Second Stage onto the

appropriate low-pressure port of your first stage regulator. Hand-tighten firmly. *Do not overtighten.*

3. **Check for Leaks:** Once connected, slowly open the tank valve and listen for any air leaks. If a leak is detected, close the tank valve, re-check the connection, and ensure O-rings are properly seated and undamaged.
4. **Function Test:** With the tank valve open, inhale from the second stage to ensure smooth airflow. Adjust the inhalation effort knob (if applicable) to your preferred setting. Test the VIVA switch to ensure it functions correctly, preventing free-flow when set to MIN and assisting breathing when set to MAX.
5. **Secure Regulator:** Ensure the second stage hose is routed correctly and secured to your BCD or other equipment to prevent snagging.

## 5. OPERATING

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Using your Scubapro S600 Second Stage Regulator effectively involves understanding its adjustments and proper breathing techniques.

### 5.1. Breathing Underwater

- **Natural Breathing:** The S600 is designed to mimic natural breathing. Breathe slowly and deeply, avoiding rapid or shallow breaths.
- **Mouthpiece Position:** Ensure the mouthpiece is comfortably and securely in your mouth, with your lips sealed around it to prevent water entry.

### 5.2. Adjustments

- **Inhalation Effort Knob:** This knob allows you to fine-tune the breathing resistance. Turn it clockwise to increase resistance (harder to breathe) or counter-clockwise to decrease resistance (easier to breathe). Adjust to a comfortable level before or during the dive.
- **VIVA (Venturi-Initiated Vacuum Assist) Switch:**
  - **MIN (Pre-Dive/Surface):** Set to MIN (or 'Dive/Pre-Dive' depending on model marking) when on the surface or before entering the water. This setting helps prevent free-flow.
  - **MAX (Underwater):** Set to MAX (or 'Dive') once underwater. This position utilizes the Venturi effect to assist exhalation and reduce breathing effort.

### 5.3. Post-Dive

- **Depressurize:** After the dive, close the tank valve before purging the regulator to release residual pressure.
- **Disconnect:** Carefully disconnect the second stage hose from the first stage.

## 6. MAINTENANCE

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Proper maintenance extends the life of your regulator and ensures its reliability. Always rinse your regulator thoroughly after each use.

1. **Freshwater Rinse:** Immediately after each dive, rinse the entire second stage thoroughly with fresh, clean water. Ensure the dust cap is securely on the first stage if it's still attached, or disconnect the second stage and rinse it separately. *Do not press the purge button while rinsing unless the regulator is pressurized, as this can allow water into the internal components.*
2. **Soak (Optional):** For a more thorough cleaning, you may soak the second stage in warm (not hot) fresh water for 15-30 minutes.
3. **Dry:** Allow the regulator to air dry completely in a shaded, well-ventilated area. Avoid direct sunlight or heat sources.
4. **Storage:** Store your regulator in a cool, dry place, away from direct sunlight, chemicals, and extreme

temperatures. Avoid kinking hoses.

5. **Professional Servicing:** Your Scubapro S600 Regulator requires periodic professional servicing by an authorized Scubapro technician. Refer to your Scubapro dealer for recommended service intervals, typically annually or every 100 dives, whichever comes first.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your S600 Second Stage Regulator. For problems not listed here, or if solutions do not resolve the issue, contact an authorized Scubapro service center.

Problem	Possible Cause	Solution
<b>Free-flow (continuous air release)</b>	VIVA switch set to MAX on surface. Inhalation effort too low. Debris in valve. Damaged diaphragm or seat.	Set VIVA to MIN. Increase inhalation effort (clockwise). Purge regulator vigorously. <i>Seek professional service.</i>
<b>Hard breathing / High resistance</b>	Inhalation effort too high. VIVA switch set to MIN underwater. Clogged filter or hose. First stage issue.	Decrease inhalation effort (counter-clockwise). Set VIVA to MAX underwater. <i>Seek professional service.</i> <i>Seek professional service.</i>
<b>Water leaking into mouthpiece</b>	Loose mouthpiece. Damaged mouthpiece. Cracked housing.	Re-seat or replace mouthpiece. Replace mouthpiece. <i>Seek professional service.</i>

## 8. SPECIFICATIONS

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Detailed technical specifications for the Scubapro S600 Second Stage Regulator:

- **Valve Type:** Air balanced valve
- **Inhalation Effort:** Diver-adjustable
- **Venturi Assist:** Diver-adjustable VIVA (Venturi-Initiated Vacuum Assist)
- **Hose Type:** Super-flow hose
- **Mouthpiece:** High comfort orthodontic mouthpiece
- **Valve Housing:** Full metal
- **Weight:** Approximately 193g / 6.8oz  
*Note: Product description states 6.8oz, while general specifications list 16oz. The 6.8oz value is more typical for a second stage only.*
- **Air Flow at 200 bar:** 1850 l/min (66 SCFM)
- **Maximum Low Pressure:** 14 bar / 203 psi
- **Material:** Metal components
- **Model Number:** 11.603.000
- **ASIN:** B005ON4XW4

## 9. WARRANTY INFORMATION

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Scubapro products are known for their quality and durability. For specific warranty terms and conditions applicable to your S600 Second Stage Regulator, please refer to the official Scubapro warranty documentation provided with your purchase or visit the official Scubapro website. Warranty coverage typically requires proof of purchase and adherence to recommended service schedules by authorized technicians.

## 10. SUPPORT

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For technical assistance, spare parts, or professional servicing, please contact your authorized Scubapro dealer. You can find a list of authorized dealers on the official Scubapro website. When contacting support, please have your product model (S600) and serial number (if applicable) ready.

**Online Resources:** For additional information, FAQs, and product updates, visit the official Scubapro website.