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**SEAC Set It300**

# SEAC Set It300 Diving Regulator and Emergency Octopus User Manual

Model: Set It300 (300 DIN)

## 1. Introduction

Thank you for choosing the SEAC Set It300 Diving Regulator and Emergency Octopus. This comprehensive system is designed to provide reliable and safe breathing gas delivery for scuba diving. This manual contains important information regarding the proper use, maintenance, and care of your equipment. Please read it thoroughly before using the product.

The SEAC Set It300 combines a high-performance primary regulator with an integrated emergency octopus, ensuring a streamlined and efficient setup for divers. It features advanced engineering for optimal breathing comfort and safety.

## 2. Important Safety Warnings

**WARNING: Scuba diving is an activity with inherent risks. Improper use of diving equipment can lead to serious injury or death. This equipment should only be used by certified divers who have received proper training.**

- Always perform a pre-dive safety check on all your equipment before every dive.
- Ensure all connections are secure and free from leaks.
- Never attempt to service or repair the regulator yourself beyond basic user maintenance. Refer to an authorized SEAC technician for all repairs and annual servicing.
- Do not use the regulator if it shows any signs of damage or malfunction.
- Always breathe slowly and deeply when using the regulator.
- Familiarize yourself with the operation of both the primary regulator and the emergency octopus before diving.
- Ensure your air supply is sufficient for the planned dive.
- Rinse the regulator thoroughly with fresh water after each use.

## 3. Package Contents

Your SEAC Set It300 package should contain the following items:

- 1 x SEAC Set It300 Primary Diving Regulator (Second Stage with Hose)
- 1 x SEAC Set It300 Emergency Octopus (Second Stage with Hose)
- 1 x SEAC Set It300 First Stage Regulator (300 DIN connection)

*Note: Contents may vary slightly based on regional packaging.*

## 4. Components Overview

### 4.1. First Stage Regulator

The first stage connects directly to your scuba tank valve and reduces the high pressure from the tank to an intermediate pressure. The SEAC Set It300 first stage is a balanced diaphragm design, ensuring consistent performance regardless of tank pressure.

- **Connection:** 300 DIN (compatible with 300 bar DIN tank valves).
- **High-Pressure (HP) Ports:** 2 ports for connecting pressure gauges or dive computers.
- **Low-Pressure (LP) Ports:** 4 ports for connecting the primary second stage, octopus, BCD inflator, and dry suit inflator.



**Figure 4.1:** The SEAC Set It300 first stage regulator, showing its multiple high-pressure and low-pressure ports for various connections.

### 4.2. Second Stage Regulator (Primary)

The primary second stage delivers breathing gas to the diver at ambient pressure. It is designed for comfort and ease of breathing.

- **Immersion/Pre-immersion Lever:** Allows adjustment of breathing effort and Venturi effect to prevent free-flow on the surface and optimize performance underwater.
- **OWS System:** Features a soft polyurethane front shield and button that optimize water flow and activation, reducing breathing effort. The synergy between front and side openings prevents air leaks from frontal currents.
- **Exhaust Deflector:** Special geometry prevents water infiltration even in strong side currents and directs exhaled bubbles away from the diver's field of vision.
- **Hose Protector:** Carefully designed length and diameter to prevent kinking, with optimized ergonomic curvature.



**Figure 4.2:** Front view of the SEAC Set It300 primary second stage regulator, highlighting the exhaust deflector and mouthpiece.



**Figure 4.3:** Side view of the SEAC Set It300 primary second stage regulator, showing the adjustment lever.

### 4.3. Emergency Octopus (Alternate Air Source)

The emergency octopus is a secondary second stage regulator, typically yellow for high visibility, used as an alternate air source for a dive buddy in an out-of-air emergency. It shares similar internal mechanisms with the primary second stage but is often tuned for simpler operation.

*Note: The SEAC Set It300 octopus is designed to complement the primary regulator, offering reliable performance when needed.*



**Figure 4.4:** Close-up of the regulator mouthpiece and the pre-dive/dive adjustment lever.



**Figure 4.5:** View of the robust hose connection to the second stage regulator, designed to prevent kinking.

## 5. Setup and Assembly

Follow these steps to properly assemble your SEAC Set It300 regulator system to your scuba tank.

1. **Inspect Components:** Before assembly, visually inspect all components for any signs of damage, corrosion, or wear. Ensure O-rings are present and in good condition.
2. **Connect First Stage to Tank:**
    - Ensure the tank valve is clean and free of debris.
    - Align the DIN connector of the first stage with the tank valve opening.
    - Screw the first stage firmly into the tank valve by hand until snug. Do not overtighten with tools.
3. **Connect Hoses:**
    - Connect the primary second stage hose to an available LP port on the first stage.
    - Connect the octopus hose to another available LP port.
    - Connect your pressure gauge/console hose to an HP port.
    - Connect your BCD inflator hose to an LP port.
    - Ensure all hose connections are finger-tight and secure.
4. **Check for Leaks:**
    - Slowly open the tank valve fully.
    - Listen and feel for any air leaks around the first stage connection and all hose connections. A slight hiss from the second stages is normal until pressurized.
    - If a leak is detected, close the tank valve, depressurize the system, and re-check the connection or O-ring. Do not dive with a leaking regulator.
5. **Function Test:**
    - Breathe from the primary second stage to ensure smooth air delivery.
    - Breathe from the octopus to ensure smooth air delivery.
    - Check that the pressure gauge reads the correct tank pressure.
    - Inflate and deflate your BCD to ensure proper function.

## 6. Operating Instructions

### 6.1. Pre-Dive Checks

Always perform these checks before entering the water:

- Confirm tank pressure is adequate for the dive.
- Check for any leaks in the system.
- Test both primary and octopus regulators for proper air delivery.
- Ensure the primary regulator's immersion/pre-immersion lever is set to the "pre-immersion" or "surface" position to prevent free-flow before entering the water.
- Confirm BCD inflator/deflator functions correctly.

### 6.2. In-Water Operation

- Once submerged, set the primary regulator's immersion/pre-immersion lever to the "immersion" or "dive" position for optimal breathing performance.
- Breathe normally and comfortably. The regulator is designed to provide air with minimal effort.
- Regularly monitor your air supply via your pressure gauge.
- In an out-of-air emergency, deploy your octopus to your buddy or use it yourself if your primary fails.

### 6.3. Post-Dive Procedures

- After exiting the water, close the tank valve.
- Depressurize the system by pressing the purge button on both second stages until air stops flowing.
- Carefully unscrew the first stage from the tank valve.
- Immediately place the dust cap on the first stage inlet to prevent water and debris from entering.

## 7. Maintenance and Care

### 7.1. Rinsing After Each Dive

Proper rinsing is crucial for the longevity of your regulator:

1. Ensure the first stage dust cap is securely in place.
2. Rinse the entire regulator system thoroughly with fresh, clean water. Submerge the second stages and gently press the purge buttons a few times to flush out any salt or debris.
3. Do NOT press the purge button on the second stages while the first stage is NOT pressurized and submerged, as this can allow water to enter the first stage.
4. Rinse all hoses and connections.
5. After rinsing, shake off excess water and allow the regulator to air dry completely in a cool, shaded area, away from direct sunlight.

### 7.2. Storage

- Store your regulator in a clean, dry, and cool place, away from direct sunlight, extreme temperatures, and chemicals.
- Avoid kinking hoses during storage.
- It is recommended to store the regulator in a padded bag to protect it from impacts.

### 7.3. Periodic Inspection

Regularly inspect your regulator for:

- Cracks, cuts, or abrasions on hoses.
- Corrosion on metal parts.
- Damage to mouthpieces.
- Condition of O-rings (replace if cracked, dry, or flattened).

### 7.4. Professional Servicing

Your SEAC Set It300 regulator requires professional servicing by an authorized SEAC technician at least once every 12 months, or after 100 dives, whichever comes first. This ensures optimal performance, safety, and validates your warranty. Do not attempt to disassemble or service the internal components yourself.

## 8. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, or if solutions do not resolve the issue, contact an authorized SEAC service center.

| Problem | Possible Cause | Solution |
|---|---|---|
| **Regulator Free-Flows (continuous air delivery)** | • Second stage adjustment lever set incorrectly (too sensitive).<br>• Impact or debris in second stage.<br>• Cold water (ice formation).<br>• Internal component issue. | • Adjust the pre-immersion lever to reduce sensitivity.<br>• Purge the regulator several times. If debris is suspected, professional service is needed.<br>• Purge briefly, try to warm the second stage.<br>• Seek professional service. |
| **Hard Breathing / High Breathing Resistance** | • Second stage adjustment lever set incorrectly (too restrictive).<br>• Clogged filter or internal issue in first stage.<br>• Hose kinked. | • Adjust the immersion lever for easier breathing.<br>• Seek professional service.<br>• Straighten the hose. |
| **Air Leak from Connections** | • Loose connection.<br>• Damaged O-ring. | • Tighten connection (finger-tight only).<br>• Replace O-ring. If leak persists, seek professional service. |

## 9. Technical Specifications

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|---|---|
| **Model** | SEAC Set It300 |

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|---|---|
| **Product Number** | 0350107000005A |
| **First Stage Type** | Balanced Diaphragm |
| **First Stage Connection** | 300 DIN |
| **High-Pressure Ports** | 2 |
| **Low-Pressure Ports** | 4 |
| **Second Stage Features** | Adjustable Immersion/Pre-immersion Lever, OWS System, Ergonomic Exhaust Deflector |
| **Hose Type** | Braided (Primary), Rubber (Octopus - typical, not specified but common) |
| **Material** | Marine-grade metals, durable polymers |
| **Department** | Unisex Adult |

## 10. Warranty and Customer Support

SEAC products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official SEAC website. Keep your proof of purchase for warranty claims.

For technical support, service, or warranty inquiries, please contact your authorized SEAC dealer or visit the official SEAC website for contact information in your region. Regular professional servicing by an authorized SEAC technician is required to maintain your warranty.

**SEAC Official Website:** www.seacsub.com

## 11. Product Disposal

When your SEAC Set It300 regulator reaches the end of its service life, please dispose of it responsibly according to local environmental regulations. Do not dispose of electronic components (if any, e.g., integrated computers) with general household waste. Consult your local authorities for recycling options for diving equipment components.


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