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SCUBAPRO MK25 EVO/S600 Din

SCUBAPRO MK25 EVO/S600 Scuba Regulator System User Manual

Model: MK25 EVO/S600 Din | Part Number: 12.971.070

1. PRODUCT OVERVIEW

The SCUBAPRO MK25 EVO/S600 is a high-performance scuba regulator system designed for reliable air delivery during diving. It consists of a first stage (MK25 EVO) and a second stage (S600), engineered to provide consistent and effortless airflow under varying conditions.

Key features include:

- **Air-Balanced Flow-Through Piston:** Ensures constant and effortless airflow, unaffected by depth, tank pressure, or breathing rate.
- **Extended Thermal Insulating System (XTIS):** Thermally insulates mechanical elements to increase cold-water resistance and delay ice formation.
- **Versatile Port Configuration:** Two opposing high-pressure ports and four high-flow, one axial super-high-flow low-pressure ports on a swivel turret for optimal hose routing.
- **Diver-Adjustable Controls:** Includes an inhalation effort knob and a VIVA (Venturi Initiated Vacuum Assist) switch on the S600 second stage to control free flow.



Figure 1.1: The complete SCUBAPRO MK25 EVO/S600 Scuba Regulator System. This image displays the first stage, second stage, and associated hoses, ready for connection to a scuba tank.

2. SETUP AND ASSEMBLY

Proper setup of your regulator system is crucial for safe diving. Always perform these steps in a clean environment.

2.1 First Stage Connection (MK25 EVO)

1. **Inspect the O-ring:** Before each use, visually inspect the O-ring on the first stage DIN connector for any signs of damage, cracks, or debris. Replace if necessary.
2. **Connect to Tank Valve:** Align the DIN connector of the MK25 EVO first stage with the tank valve. Screw the first stage firmly into the tank valve by hand until snug. Do not overtighten with tools.
3. **Orient Hoses:** Position the first stage so that the high-pressure and low-pressure hoses are routed correctly and comfortably for your diving configuration. The swivel turret allows for flexible hose routing.



Figure 2.1: Close-up view of the SCUBAPRO MK25 EVO first stage. This image highlights the DIN connector and the various high-pressure and low-pressure ports for hose attachment.

2.2 Second Stage Connection (S600)

- Ensure the S600 second stage is securely connected to the low-pressure hose from the first stage.
- Confirm that the mouthpiece is clean and free of obstructions.



Figure 2.2: Close-up view of the SCUBAPRO S600 second stage. This image shows the main housing, purge button, and the diver-adjustable controls for inhalation effort and VIVA.

2.3 Pre-Dive Checks

- **Air Supply:** Slowly open the tank valve and check your submersible pressure gauge (SPG) for adequate air pressure.
- **Leak Check:** Listen for any air leaks from the first stage, second stage, or hose connections.
- **Purge Button:** Press the purge button on the S600 second stage to ensure air flows freely.
- **Breathing Test:** Take a few breaths from the second stage to confirm smooth and easy inhalation and exhalation.
- **Adjustments:** Familiarize yourself with the inhalation effort knob and VIVA switch on the S600.

3. OPERATING INSTRUCTIONS

The SCUBAPRO MK25 EVO/S600 is designed for intuitive operation. Understanding its controls will enhance your diving experience.

3.1 In-Water Use

- **Breathing:** Breathe slowly and deeply through the S600 second stage. The air-balanced design provides consistent air delivery.

- **Inhalation Effort Adjustment:** The knob on the side of the S600 allows you to fine-tune the inhalation effort. Turn clockwise for increased effort (useful in strong currents to prevent free flow) and counter-clockwise for decreased effort (easier breathing).
- **VIVA Switch:** The VIVA switch (Venturi Initiated Vacuum Assist) controls the Venturi effect, which aids in breathing.
 - Set to **MIN** (or Dive position) to prevent free flow when the regulator is not in your mouth or at the surface.
 - Set to **MAX** (or Pre-Dive position) for maximum breathing assistance during a dive.
- **Purge Button:** Press the large purge button on the front of the S600 to clear water from the second stage.



RECREATIONAL DIVING CLASSIC

Figure 3.1: A diver utilizing the SCUBAPRO S600 second stage underwater. This illustrates the regulator in its intended operational environment.

4. MAINTENANCE AND CARE

Proper maintenance extends the life of your regulator and ensures its reliability.

4.1 Post-Dive Care

1. **Rinsing:** Immediately after each dive, rinse the entire regulator system thoroughly with fresh, clean water. Ensure the first stage dust cap is securely in place before rinsing to prevent water from entering the first

stage. Do not press the purge button while rinsing unless the first stage is pressurized.

2. **Drying:** Allow the regulator to air dry completely in a shaded, well-ventilated area. Avoid direct sunlight or excessive heat.
3. **Storage:** Store the regulator in a clean, dry place, away from direct sunlight, chemicals, and extreme temperatures. Avoid kinking hoses.

4.2 Periodic Servicing

- Your SCUBAPRO regulator requires periodic professional servicing by an authorized SCUBAPRO technician.
- It is recommended to have your regulator serviced annually or after every 100 dives, whichever comes first.
- Regular servicing ensures optimal performance, safety, and compliance with warranty terms.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your regulator. For problems not listed here, consult an authorized SCUBAPRO service center.

Problem	Possible Cause	Solution
Free Flowing Regulator	<ul style="list-style-type: none">• VIVA switch set to MAX at surface or out of mouth.• Inhalation effort knob set too low.• Debris in second stage.• Internal component issue.	<ul style="list-style-type: none">• Set VIVA switch to MIN (Dive).• Turn inhalation effort knob clockwise to increase resistance.• Purge regulator vigorously.• Seek professional service.
Hard Breathing	<ul style="list-style-type: none">• Inhalation effort knob set too high.• Low tank pressure.• Clogged filter or hose.• Internal component issue.	<ul style="list-style-type: none">• Turn inhalation effort knob counter-clockwise to decrease resistance.• Check SPG; switch to reserve air or end dive.• Seek professional service.
Air Leak	<ul style="list-style-type: none">• Damaged O-ring on first stage.• Loose hose connection.• Internal component issue.	<ul style="list-style-type: none">• Inspect and replace O-ring.• Tighten hose connections.• Seek professional service immediately.

6. SPECIFICATIONS

Detailed technical specifications for the SCUBAPRO MK25 EVO/S600 regulator system.

Feature	Detail
Brand	SCUBAPRO
Model Name	MK25 EVO/S600 Din
Part Number	12.971.070

Feature	Detail
First Stage Type	Air-balanced flow-through piston
Thermal Insulation	Extended Thermal Insulating System (XTIS)
High-Pressure Ports	2 (opposing)
Low-Pressure Ports	4 high-flow, 1 axial super-high-flow (on swivel turret)
Second Stage Controls	Diver-adjustable inhalation effort knob, VIVA switch
Construction Type	Metal and Technopolymer
Material	Metal
Item Weight	3.1 Pounds (approx.)
Item Dimensions (L x W x H)	8.7 x 8.8 x 3.9 inches (approx.)

7. WARRANTY INFORMATION

SCUBAPRO provides a limited warranty for the MK25 EVO/S600 regulator system. The specific terms and conditions of this warranty are detailed in the official warranty documentation provided with your product at the time of purchase.

To ensure your warranty remains valid, it is essential to:

- Register your product with SCUBAPRO as instructed.
- Adhere to all recommended maintenance and servicing schedules by authorized SCUBAPRO technicians.
- Use the product only for its intended purpose and in accordance with this manual.

For complete warranty details, please refer to the warranty card or contact SCUBAPRO customer support.

8. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to locate an authorized service center, please contact SCUBAPRO customer support or visit their official website.

- **Official Website:** www.scubapro.com
- **Authorized Dealers:** For service and parts, always use authorized SCUBAPRO dealers and technicians.