

Scubapro MK19 Evo/A700



SCUBAPRO MK19 Evo/A700 Dive Regulator System User Manual

Model: MK19 Evo/A700 | Part Number: 12.719.010

1. INTRODUCTION

This manual provides essential instructions for the safe and proper use, setup, operation, and maintenance of your SCUBAPRO MK19 Evo/A700 Dive Regulator System. Please read this manual thoroughly before using the equipment. Proper understanding and adherence to these instructions are crucial for your safety and the longevity of your regulator system.

The SCUBAPRO MK19 Evo/A700 system combines the MK19 Evo first stage with the A700 second stage, designed for reliable performance in various diving conditions.

2. SAFETY INFORMATION

WARNING: Diving with compressed gas is inherently dangerous. Improper use of this equipment can lead to serious injury or death. This regulator system is intended for use by certified divers only. Always dive within the limits of your training and experience.

- Ensure you are properly trained and certified in scuba diving before using this equipment.
- Always perform pre-dive checks on all your equipment before each dive.
- Never attempt to service or repair the regulator yourself beyond the scope described in this manual. Refer to an authorized SCUBAPRO technician for all servicing.
- Regular professional maintenance is essential for the safe operation of your regulator.
- Familiarize yourself with all components and their functions before diving.

3. PRODUCT OVERVIEW AND FEATURES

The SCUBAPRO MK19 Evo/A700 Dive Regulator System consists of a first stage and a second stage, designed to deliver air efficiently and reliably underwater.



Figure 1: SCUBAPRO MK19 Evo first stage (left) and A700 second stage (right).

MK19 Evo First Stage Features:

- **Air-Balanced Diaphragm:** Delivers consistent airflow regardless of depth, tank pressure, or breathing rate.
- **Dry Ambient Pressure Chamber:** Equipped with a double spring for enhanced reliability and resistance to freezing.
- **Opposing High Pressure Ports:** Two ports allow flexible positioning of the first stage and optimal hose/transmitter layout.
- **Swivel Turret with LP Ports:** Features four High-Flow Low Pressure (LP) ports and one axial Super High-Flow LP port for diverse hose routing options, suitable for technical diving configurations.

A700 Second Stage Features:

- **Metal Casing Construction:** Utilizes a larger diaphragm within a compact casing, which contributes to breathing sensitivity.
- **Air-Balanced Valve:** Provides smooth inhalation effort across varying depths and supply pressures.
- **Adjustable Inhalation Effort Knob:** Allows for personalized comfort by adjusting breathing resistance.
- **Super-Flow Hose:** Features an oversized bore to facilitate increased air flow during inhalation.
- **Sectional Exhaust Tee and Purge:** Designed to assist in efficient exhalation and effective clearing of the second stage.

4. SETUP AND ASSEMBLY

Before assembly, ensure all components are clean and free from debris. Refer to Figure 2 for visual guidance on preparing for a dive.



Figure 2: A diver preparing equipment, illustrating the context of regulator setup.

1. Attach First Stage to Cylinder Valve:

- For Yoke (INT) connection: Ensure the O-ring on the cylinder valve is present and in good condition. Place the first stage yoke over the cylinder valve and tighten the screw hand-tight. Do not overtighten.
- For DIN connection: Screw the first stage directly into the cylinder valve until snug.

2. Connect Hoses:

- **Second Stage (A700):** Connect the Super-Flow hose to one of the LP ports on the swivel turret.
- **Pressure Gauge/Computer Transmitter:** Connect to one of the High Pressure (HP) ports. The two opposing HP ports allow for flexible gauge placement.
- **Alternate Air Source (Octopus):** Connect to another LP port.
- **BCD Inflator Hose:** Connect to an available LP port.

3. **Check Connections:** Ensure all hoses are securely fastened. Use the provided 4MM ALLEN KEY (Part No. 43.021.000) if any connections require tightening.

4. **Open Cylinder Valve:** Slowly open the cylinder valve fully. Listen for any leaks. If leaks are detected, close the valve and re-check connections.

5. OPERATING INSTRUCTIONS

5.1 Pre-Dive Checks

- Verify cylinder pressure on your gauge.
- Breathe from the second stage to ensure proper airflow.
- Press the purge button to check for free-flow and ensure it stops when released.
- Check all hose connections for leaks.
- Test your BCD inflator and alternate air source.

5.2 Adjusting Inhalation Effort (A700 Second Stage)

The A700 second stage features an adjustable inhalation effort knob. Turn the knob clockwise to increase

breathing resistance (making it harder to breathe) or counter-clockwise to decrease resistance (making it easier to breathe). Adjust to your preferred comfort level, typically set for minimal resistance during a dive.

5.3 Purge Button Function

The large purge button on the A700 second stage allows you to clear water from the regulator or to free-flow air for specific purposes (e.g., filling a lift bag). Press firmly to activate.

6. MAINTENANCE AND STORAGE

6.1 Post-Dive Care

1. After each dive, ensure the dust cap is securely placed on the first stage inlet.
2. Rinse the entire regulator system thoroughly with fresh, clean water. While rinsing the second stage, press the purge button intermittently to flush water through the system. Do not press the purge button if the first stage is not pressurized or if the dust cap is not in place, as this can allow water into the first stage.
3. Allow the regulator to air dry completely in a shaded, well-ventilated area, away from direct sunlight.

6.2 Storage

Store your regulator system in a cool, dry place, away from extreme temperatures, chemicals, and direct sunlight. Avoid kinking hoses during storage.

6.3 Professional Servicing

Your SCUBAPRO regulator requires periodic professional servicing by an authorized SCUBAPRO technician. Refer to the detailed service schedule provided with your regulator or consult an authorized dealer. Regular servicing ensures optimal performance and safety.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Regulator free-flows	Incorrect adjustment, debris, cold water, worn parts.	Adjust inhalation effort knob. Rinse thoroughly. If persistent, seek professional service.

Problem	Possible Cause	Solution
Hard breathing	Inhalation effort knob set too high, low tank pressure, internal issue.	Adjust inhalation effort knob counter-clockwise. Check tank pressure. If persistent, seek professional service.
Air leak from connections	Loose connection, damaged O-ring.	Tighten connection. Inspect and replace O-rings if damaged.
Water in second stage	Improper purge, mouthpiece seal issue.	Purge forcefully. Check mouthpiece for proper fit. If persistent, seek professional service.

8. SPECIFICATIONS

Feature	Detail
Model Name	MK19 Evo/A700 Dive Regulator System
Part Number	12.719.010
Brand	Scubapro
First Stage Type	Air-balanced diaphragm, dry ambient pressure chamber
Second Stage Type	Air-balanced valve, metal casing, adjustable inhalation effort
High Pressure Ports	2 (opposing)
Low Pressure Ports	4 High-Flow, 1 axial Super High-Flow (on swivel turret)
Package Dimensions (L x W x H)	10.08 x 7.64 x 4.25 inches
Package Weight	1.83 Kilograms

Feature	Detail
Included Components	MK19 EVO/A700 Regulator, 01.094.119 FLOCK PAD, 43.021.000 4MM ALLEN KEY, 45.101.180 MANUAL

9. WARRANTY AND SUPPORT


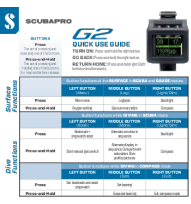

9.1 Limited Warranty

This SCUBAPRO product is covered by a limited warranty. For full details regarding warranty terms, conditions, and duration, please refer to the warranty documentation included with your purchase or contact an authorized SCUBAPRO dealer. The warranty typically covers manufacturing defects under normal use and proper maintenance.

9.2 Customer Support

For technical assistance, service inquiries, or to locate an authorized SCUBAPRO dealer, please visit the official SCUBAPRO website or contact their customer service department. Always ensure that any servicing or repairs are performed by certified SCUBAPRO technicians using genuine parts. You can find more information and support at the [SCUBAPRO Store on Amazon](#).

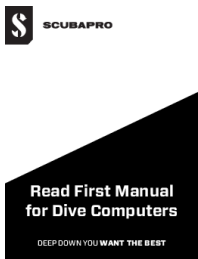
Related Documents - MK19 Evo/A700

	<p>SCUBAPRO MK 25-MK 20 First Stages Troubleshooting Guide</p> <p>A comprehensive troubleshooting guide for SCUBAPRO MK 25 and MK 20 scuba diving first stage regulators. Learn how to diagnose and fix common issues such as audible leaks, high or low intermediate pressure (IP), and IP creep.</p>
	<p>SCUBAPRO G2 Dive Computer Quick Use Guide</p> <p>A comprehensive quick use guide for the SCUBAPRO G2 dive computer, detailing button functions, menu navigation, dive screen customization, battery management, transmitter pairing, and heart rate monitor integration. Essential information for divers using the G2.</p>
	<p>SCUBAPRO Dive Computer: Essential Safety Guidelines</p> <p>A comprehensive guide to the safe operation of SCUBAPRO dive computers, covering essential safety precautions, dive planning, and emergency procedures for recreational divers.</p>



[SCUBAPRO LUNA 2.0 Dive Computer User Manual: Features and Operation](#)

This user manual provides essential information for the SCUBAPRO LUNA 2.0 dive computer, covering its features, dive modes (Scuba, Apnea, Gauge), settings, dive planning, safety protocols, and maintenance.



[SCUBAPRO Dive Computer: Essential Safety and Usage Guide](#)

A vital guide for SCUBAPRO dive computer users, covering critical safety precautions, operational guidelines, warnings, and best practices for scuba diving. Essential reading before your first dive.



[SCUBAPRO Air Integrated Dive Computer: Essential Safety & Usage Guide](#)

Essential safety guidelines and operating instructions for SCUBAPRO Air Integrated Dive Computers. Learn about safe diving practices, computer usage, and important warnings before your dive.