SCUBAPRO MK25 EVO/A700

SCUBAPRO MK25 EVO/A700 Diving Regulator System

User Manual

Introduction

The SCUBAPRO MK25 EVO/A700 Diving Regulator System is engineered for consistent and reliable performance in various diving conditions. This system features an air-balanced piston first stage and a robust second stage designed for effortless airflow and durability. The Extended Thermal Insulating System (XTIS) enhances cold-water resistance, making it suitable for diverse aquatic environments.
This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your SCUBAPRO MK25 EVO/A700 regulator system. Adherence to these instructions is crucial for safe and optimal performance.

Key Features

- Air-balanced piston first stage for consistent airflow.
- Extended Thermal Insulating System (XTIS) for enhanced cold-water resistance.
- Two opposing high-pressure ports and five low-pressure ports on a swivel turret for flexible hose routing.
- Diver-adjustable inhalation effort knob and coaxial VIVA switch on the second stage.
- INT connector for compatibility with international tank valves.
- External intermediate pressure adjustment for technician fine-tuning.
- Rugged full metal second stage case and valve housing for durability.
- Large diaphragm in a compact casing for increased breathing sensitivity.
- Air-balanced second stage valve for smooth inhalation at varying depths.
- Sectional exhaust tee and efficient purge for effortless exhalation.

Setup Instructions

Proper setup of your regulator system is critical for safety and performance. Always refer to a certified SCUBAPRO technician for initial assembly and any complex adjustments.

1. **First Stage Connection:** Ensure the first stage (MK25 EVO) is securely connected to the dive tank valve. For INT connectors, ensure the O-ring is in place and the yoke screw is tightened firmly by hand. Do not overtighten.

2. **Hose Attachment:** Connect the primary second stage (A700), alternate air source, pressure gauge, and BCD inflator hose to the appropriate low-pressure and high-pressure ports on the first stage.
    - Two opposing high-pressure ports allow flexible gauge positioning.
    - Four high-flow and one axial super-high-flow low-pressure ports are available on the swivel turret.
3. **Visual Inspection:** Before pressurizing the system, visually inspect all O-rings, hoses, and connections for any signs of damage or wear.
4. **Pressurization:** Slowly open the tank valve while observing the pressure gauge. Listen for any leaks. If leaks are detected, close the tank valve and re-check connections.
5. **Function Test:**
    - Breathe from the primary second stage to ensure smooth airflow.
    - Test the purge button on the second stage.
    - Check the BCD inflator for proper operation.
    - Verify the pressure gauge reads accurately.

Image: SCUBAPRO MK25 EVO First Stage Regulator. This image displays the SCUBAPRO MK25 EVO first stage regulator, highlighting its chrome-plated body and air-balanced piston mechanism, which ensures consistent and effortless airflow.

Image: SCUBAPRO A700 Second Stage Regulator. This image presents the SCUBAPRO A700 second stage regulator, emphasizing its robust full metal casing and valve housing, designed for durability and excellent cold-water performance.

Operating Instructions

The MK25 EVO/A700 system is designed for intuitive use. Familiarize yourself with its controls before diving.

1. **Pre-Dive Check:** Always perform a thorough pre-dive check, including:
    - Confirming tank pressure.
    - Testing primary and alternate air sources.
    - Checking BCD inflation/deflation.
    - Verifying all connections are secure.
2. **Inhalation Effort Adjustment:** The A700 second stage features a diver-adjustable inhalation effort knob. Turn clockwise to increase breathing resistance (useful to prevent free-flow on the surface or during entry) and counter-clockwise to decrease resistance for easier breathing underwater.
3. **VIVA Switch (Venturi Initiated Vacuum Assist):** The coaxial VIVA switch controls free flow. Set it to "MIN" or

"PRE-DIVE" on the surface to prevent free-flow. Set it to "MAX" or "DIVE" underwater for optimal breathing performance.

4. **Purge Button:** The large purge button on the A700 second stage allows for easy clearing of water from the regulator. Press firmly to activate.
5. **Cold Water Diving:** The Extended Thermal Insulating System (XTIS) provides anti-freeze protection. However, in extremely cold water, always breathe slowly and avoid rapid, deep breaths to minimize the risk of free-flow.

Maintenance

Regular maintenance is essential to ensure the longevity and safe operation of your SCUBAPRO regulator system.

- **Rinsing:** After each dive, thoroughly rinse the entire regulator system with fresh, clean water. Ensure the dust cap is securely in place on the first stage before rinsing to prevent water entry. Do not press the purge button while rinsing unless the first stage is pressurized and connected to a tank.
- **Drying:** Allow the regulator to air dry completely in a shaded, well-ventilated area, away from direct sunlight.
- **Storage:** Store the regulator in a cool, dry place, protected from extreme temperatures, chemicals, and direct sunlight. Avoid kinking hoses.
- **Professional Servicing:** Your SCUBAPRO regulator requires periodic professional servicing by an authorized SCUBAPRO technician. Refer to your warranty card or SCUBAPRO's official guidelines for recommended service intervals, typically annually or every 100 dives, whichever comes first. This includes inspection, cleaning, and replacement of internal components and O-rings.
- **Intermediate Pressure Adjustment:** The external intermediate pressure adjustment should only be performed by a qualified technician.

Troubleshooting

This section addresses common issues. For any persistent problems or issues affecting safety, discontinue use and consult an authorized SCUBAPRO technician.

Problem	Possible Cause	Solution
Free-flow from second stage	High tank pressure (on surface) VIVA switch set to "MAX" / "DIVE" on surface Impact or debris Internal component issue	Set VIVA switch to "MIN" / "PRE-DIVE". Adjust inhalation effort knob clockwise. Gently tap the second stage. If persistent, seek professional service.
Hard breathing / High resistance	Inhalation effort knob set too high (clockwise) VIVA switch set to "MIN" / "PRE-DIVE" underwater Low tank pressure Contamination or internal issue	Adjust inhalation effort knob counter-clockwise. Set VIVA switch to "MAX" / "DIVE". Check tank pressure. Seek professional service.
Air leak at first stage connection	Damaged or missing O-ring Loose connection	Replace O-ring. Ensure connection is secure. If persistent, seek professional service.

Specifications

Feature	Detail
Model Name	MK25 EVO/A700 Dive Regulator System
Part Number	12.770.040
First Stage Type	Air-balanced piston, chrome-plated brass
Second Stage Material	Full metal case and valve housing
Ports	2 High-Pressure, 5 Low-Pressure (swivel turret)
Connector Type	INT (International)
Thermal Protection	Extended Thermal Insulating System (XTIS)
Adjustments	Diver-adjustable inhalation effort, Coaxial VIVA switch
Item Weight	2 Pounds (approx.)
Dimensions (LxWxH)	14 x 12 x 8 inches (approx. item dimensions)
Included Components	MK25 EVO/A700 Regulator System, 4 MM ALLEN KEY, Manual

Warranty Information

The SCUBAPRO MK25 EVO/A700 Diving Regulator System comes with a limited warranty. For specific terms, conditions, and duration of the warranty, please refer to the warranty card included with your product or visit the official SCUBAPRO website. Keep your proof of purchase for warranty claims.

Support and Contact

For further assistance, technical support, or to locate an authorized service center, please contact SCUBAPRO directly or visit their official website.

SCUBAPRO Official Website: Visit the SCUBAPRO Store on Amazon

Always ensure that any servicing or repairs are carried out by certified SCUBAPRO technicians to maintain product integrity and warranty validity.