

# SAFETY and FIRE EQUIPMENT – Military Style (SAR/SCBA) PASP & RASP SYSTEM & COMPONENTS

This **Supplied Air System (SAR) / Self Contained Breathing Apparatus (SCBA)** has been designed primarily to support planned, Gas-Free Engineering Personnel (GFEP) with shipboard inspections. It can be used to inspect fuel, ballast, sewage tanks, and other dry voids. This equipment can also be used in spaces that are suspected of containing flammable, explosive, or toxic atmospheres. This SAR/SCBA can be used for clean-up, rescue, and damage control work in non-IDLH environments as well. It is for respiratory use only. This SAR/SCBA cannot be used nor was it designed to be a fire-fighting breathing apparatus. In addition, it cannot be used as a diving apparatus for investigating flooded or submerged spaces. Because the equipment was designed for planned GFE operations, it is not suitable for Rapid Response Operations.

**Primary Air Supply Pack (PASP)** is a lightweight assembly with one HP air cylinder and a control panel assembly (CPA) contained within an aluminum case. The air cylinder contains 87 standard cubic feet (scf) of air at 4,500 pounds per square inch, gauge (psig). (Cylinders marked "LUXFER X X 97 (or later year date)" are the same model as previously required, but are shorter in length and require a cylinder pad to allow the securing of the cylinder in the case.) The cylinder has an aluminum liner with a fiberglass and epoxy-wrapped exterior. The cylinder valve is an integral assembly consisting of a valve pressure indicator, rupture disk, and CGA-347 air hose connection. Two HP air hoses with hand-operated couplings connect the PASP or RASP cylinder(s) to the CPA. The hoses can be vented for safe connection and disconnection of air cylinders. Two RASP cylinders serve as an additional air source for the PASP. The HP air hose(s) connect RASP cylinder(s) to the PASP. Airflow is controlled by the operator who places charged cylinders on-line as the ones in service are depleted. The PASP CPA houses valves, fittings, and indicators. A three-way ball valve selects either a PASP or RASP cylinder to be on-line with the CPA. Each cylinder can support one SCBA user up to 55 minutes. Air pressure is monitored by two gauges and by an audible alarm. Each gauge has an isolation valve for gauge calibration and isolation, should the gauge fail. A regulator reduces the HP air to 60-80 psig (nominal) for delivery to the air distribution system. The manifold has four quick disconnects (QDs) to allow up to four SCBA users to simultaneously connect to the PASP. A manifold bleed valve provides a means to depressurize the system.

**Reserve Air Supply Pack (RASP)** is a lightweight assembly with two HP air cylinders housed in an aluminum case. The cylinders are removable and identical to the PASP cylinders. When placed on-line, air flows from the RASP cylinder through a hose that connects to the three-way ball valve on the PASP CPA. Before performing maintenance on SAR/ SCBA, ensure that air supply has been shut OFF and all pressure has been vented (bled) from system. Accidental exposure to escaping HP air could cause injury or death to maintenance personnel.

**Quarterly Maintenance** - Includes general cleaning and inspection of the PASP, RASP, and SCBA units. Inspections are performed to identify any damage which could affect operation of the equipment. System tightness tests are performed on the PASP & RASP units, in addition the SCBA units are leak tested. The equipment must also be operated at least once every quarter. The operational test must include all the PASP and SCBA units.

**Annual Maintenance** - Includes inspecting all HP and LP air hoses and fittings, as well as the SAR unit. In addition, the PASP regulator should be tested and adjusted annually. PosiCheck testing on the Premaire Cadet 15M (SAR) mask is recommended:

**#SAR-SERV-1 \$125.00 EA**  
PosiCheck (Certification and Compliance labels)

**Three-Year Maintenance** - Fiber wrapped air cylinders must be hydrostatically tested every three years. This includes both PASP/RASP air cylinders and the SCBA air cylinders. The HP and LP pressure gauges located on the PASP CPA must be calibrated:

**#SAR-SERV-3 \$168.50 EA**  
SAR unit PosiCheck, SAR Cylinders Hydrotested & Filled (Certification and Compliance labels)  
**#PASP-SERV \$119.00 EA**  
LP & HP PASP Gauge Calibration, PASP Cylinder Hydrotest & Fill (Certification and Compliance labels)

For Hydrotesting the RASP cylinders - Use Part Number **YCYL-TEST- HYD-2** listed on Page 41

**Six-Year Maintenance** - Breathing apparatus must be overhauled and PosiChecked at least once every six years (by an MSA C.A.R.E. Facility). Stooddy Industrial & Welding Supply, Inc. is an authorized MSA C.A.R.E. service facility:

**#SAR-SERV-6 \$749.00 EA**  
SAR Unit 6-Year Service and Certification; Includes Hydrotest & Fill of SAR Cylinders, 1<sup>st</sup> Stage Regulator Evaluation. Replacement of 2nd Stage Regulator. Replacement & PosiCheck of Ultravue Mask (Medium Size), Inspection of HP/ LP Hose. LP Alarm Whistle Test, Verify S/N's. Certification and Compliance Labels on Cylinders and Regulators. MSA CARE, Military Federal Type I.A.W. SS600-AN-MMA-010 other parts are available at an additional cost.

**#PASP-SERV \$119.00 EA**  
LP & HP PASP Gauge Calibration, PASP Cylinder Hydrotest & Fill (Certification and Compliance labels)  
For Hydrotesting RASP cylinders - Use Part Number **YCYL-TEST- HYD-2** listed on Page 41

**Fifteen-Year Requirement** - All fiber wrapped air cylinders issued with this system have a maximum service life of fifteen years (from the date of manufacture):

For Disposing of obsolete cylinders - Use Part Number **DISPOSE-2** listed on Page 41

I.A.W. SS600-AN-MMA-010

## CAUTION

Ensure that O-rings are checked for unacceptable deformation, cuts or nicks, embrittlement, or excessive stretch. Defective O-rings must be replaced. Lightly lubricate reusable or replacement PASP O-rings with silicone compound (MIL-S- 8660) **8oz Tube**

**#PST525-8**

**\$19.99 Ea**

