

TECHNICAL BULLETIN

#84 June 2, 1993

REGULATOR BODY, HIP PAC, P/N 910445 INSPECTION & MAINTENANCE PROCEDURES

This Technical Bulletin supplements inspection frequency as well as maintenance procedures listed in the Hip Pac/SAR Operation Manual, P/N 988197.

*******WARNING*******

The HIP-PAC regulator, P/N 910445, when used in hydrocarbon-contaminated atmospheres or cleaned with hydrocarbon-based fluids, may sustain stress-induced cracking, causing structural failure. Excessive, prolonged exposure to ultraviolet light may also cause such failures. This can result in loss of respiratory protection, leading to injury or death.

The following information must be provided to end users:

1. Copies of Hip Pac Operation Manual (P/N 988197) references for proper use, cleaning, periodic inspection, and maintenance. (See page 2 of this Technical Bulletin).
2. Do not clean the regulator body with solvents including, but not limited to: ketones, toluene, gasoline, kerosene, petroleum distillates, esters, chlorinated hydrocarbons, or acids.
3. The Hip Pac/SAR regulator must be stored in a clean, dry location away from exposure to direct sunlight.
4. When using a Hip Pac in a hydrocarbon-rich environment (i.e., workover rigs, cellar decks, drill floors), inspect the regulator body daily or at the start of each shift in a thorough manner for signs of cracking around or near the regulator inlet fitting. If cracking exists, no matter how slight, do not use the Hip Pac.
5. After use, thoroughly clean the exterior of the facepiece/regulator with a mild soapy solution (or detergent) and rinse with clean fresh water.

6. SURVIVAIR requires that users provide a minimum of Grade D air (CGA 7.1, latest edition) for the Hip Pac. Verify the air you are breathing is of Grade D quality and is filtered to remove hydrocarbon residue (Deposits of hydrocarbons inside the regulator body can contribute to structural degradation.)
7. With the exception of Loctite #425 Assure, do not use any anaerobic compounds or lubricating compounds such as "Vaseline" on the regulator plastic parts or the regulator body. These will cause structural failure of the plastic regulator.

INFORMATION FROM
HIP-PAC OPERATIONS MANUAL (P/N 988197)

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*****WARNING*****

• Your SURVIVAIR respirator has been constructed of materials selected after careful consideration for their performance, safety, and durability. However, all materials have exposure limitations to extremes of heat and cold or to the more than 15,000 chemicals in use today. No materials exist that can be used safely in all of these environments.

• Our engineers cannot predict what will happen to this equipment in every potential environment. Materials can be chemically attacked if exposed to the wrong environment and may exhibit excessive corrosion or other forms of damage. Permeation of gasses and liquids through the materials could be excessive. Extremes of temperature might cause thermal degradation. Each of these things, or a combination of them, could create conditions in which the SURVIVAIR equipment would be dangerous to use.

• Before allowing anyone to enter a hazardous environment while wearing SURVIVAIR equipment, you must conduct safe, scientific tests to determine if the environment could render the equipment unsafe. Results of this testing should be well documented. See the help of a certified safety professional or industrial hygienist. DO NOT USE this equipment if the user would be endangered in any way through environmentally induced degradation of the materials in the apparatus.

• All persons using this SURVIVAIR breathing apparatus must be made aware of its limitations. We cannot be responsible for any damage to property, personal injury, or death in which environmental exposure is a contributing factor.

• Do not wear this respirator if a satisfactory fit, as determined by a qualitative or quantitative fit test, cannot be obtained. See ANSI Z88.2 1980 and OSHA Standards for Asbestos and Lead. Beards and sideburns will prevent a good facepiece seal. Do not use this respirator unless you are clean shaven.

• This respirator must be used in conjunction with a written respirator program meeting the requirements of the OSHA standard for Respiratory Protection 29 CFR 1910.134, available from the U.S. Department of Labor, Occupational Safety and Health Administration. The program must include procedures for evaluating air contaminants and selecting appropriate respirators, procedures for proper use of respirators, procedures for testing the facepiece-to-face fit of respirators, procedures for cleaning, disinfecting, inspecting, maintaining, and storing respirators, procedures for determining if workers are physically and medically capable of wearing respirators, and procedures for training employees in the use of respirators and in recognizing the hazards associated with contaminants in the work place.

• This respirator does not protect exposed areas of the body. Some contaminants can be absorbed directly through the skin while others may irritate exposed areas.

• The HIP-PAC has a rated service time of 5 minutes. Under average conditions you will have up to 5 minutes in which to escape from a toxic environment. Stress and exertion may cause extra air consumption and reduce the service time. Know escape routes in advance and the time required to travel them.

• Compressors, storage cylinders, valves, regulators, fittings, and other hardware must be large enough to deliver all air required by users.

• FAILURE TO OBSERVE ALL WARNINGS MAY RESULT IN PERSONAL INJURY, SERIOUS ILLNESS, OR DEATH.

**PERMISSIBLE
COMBINATION FIVE-MINUTE
SELF-CONTAINED BREATHING
APPARATUS FOR ESCAPE AND
PRESSURE-DEMAND, TYPE C
SUPPLIED-AIR RESPIRATOR**



MINE SAFETY AND HEALTH ADMINISTRATION
NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH
APPROVAL NO – TC-13F-240
ISSUED TO SURVIVAIR® DIVISION,
COMASEC INC.
SANTA ANA, CALIFORNIA U.S.A.

LIMITATIONS

Approved for respiration protection during entry into and escape from oxygen-deficient atmospheres, gases, and vapors, when using the air-line supply. Approved for escape only, when using the self-contained air supply.

Approved only when the compressed air container is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for type 1, Grade D air, or equivalent specifications. The cylinder shall be marked "Fill With Compressed Air Only" and shall meet applicable DOT specifications.

When using this device at temperatures 0 to -30 F the 1st stage regulator must be wrench tightened on the cylinder valve, and anti-fog solution #9510-16 or #9510-15 must be used on the facepiece.

This approval applies only when the device is supplied with respirable breathing air through no more than three (3) lengths of hose within the following range limitations.

<u>Hose Length (Feet)</u>	<u>Pressure (Psig)</u>
25 – 300	75 – 125

Or from the self-contained air supply. If the supplied air fails, open the cylinder valve and proceed to fresh air immediately.

WARNING

- DEATH OR SERIOUS INJURY may result if instructions are not carefully followed.
- READ AND UNDERSTAND all instructions, limitations, and other warnings found on the apparatus and in the instructions manual.
- USE WITH ADEQUATE SKIN PROTECTION. This apparatus does not protect against gases and vapors that poison through the skin (for example, hydrocyanic-acid gas.)
- To be used at temperature between -30° F and 120° F.

In making renewals or repairs, parts identical with those furnished by the manufacturer under this approval shall be maintained. The respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration, and other applicable regulations.

MSHA-NIOSH APPROVAL ISSUED TO SURVIVAIR® DIVISION, COMASEC INC. 10/5/89

The approved assembly consists of the following SURVIVAIR® part numbers: 9881-57 Mask and Regulator Assy, 9884-60 Cylinder and Harness Assy, 9304-11 thru 9304-14 Hose Assemblies (Foster), 9304-41 thru 9304-44 Hose Assemblies (Schrader), 9304-61 thru 9304-64 Hose Assemblies (Hansen), 9308-61 thru 9308-64 Hose Assemblies, 9308-10 Coupler Kit (Foster), 9308-20 Coupler Kit (Schrader), 9308-30 Coupler Kit (Hansen). The following optional equipment is approved for use on this device: 9401-67 Neckstrap Assy, 9411-07 Spectacle Kit, 9413-30 Nose Cup Kit, 9804-30, 9804-32, 9804-34, 9804-36 Radio Interface Kits, 9510-15 & 9510-16 Anti-fog Solution, B1400-95 Lens Cover.

PART NO.

LOT NO.

10-89

9955-68 Rev.A