



**SURVIVAIR®**



**TECHNICAL BULLETIN**

# TECHNICAL BULLETIN #125

**SUBJECT:** Cylinder Filling Procedure

**DATE:** April 29, 2005

**PRODUCTS AFFECTED:** All Survivair® Respirators Using Compressed Air Cylinders

This Technical Bulletin provides an update to Technical Bulletin 103 regarding the use, care and maintenance of Survivair Respirators, Inc. compressed air cylinders. Due to changes in the hydrostatic test cycle for carbon fiber, fully wrapped cylinders, please review and note the following information in your policies and procedures. Updated information on the “**Survivair Compressed Air Cylinder Safety Precautions**” sheet, part number 995296, is as follows:

## Section II

### **B. Composite Cylinders**

1. Fiberglass and Kevlar®, hoop-wrapped or fully wrapped cylinders.  
Ensure that no more than three years have elapsed since the last hydrostatic test has been performed, and that the cylinder is less than 15 years old. Inspect the cylinder for dents, gouges, or cuts which have penetrated and caused separation or unraveling of the composite overwrap. Watch for evidence of exposure to high temperature such as darkened or blistered paint, charred overwrap or decals, melted or distorted gauge lenses, etc.
2. Carbon fiber fully wrapped cylinders.  
Ensure that no more than five<sup>1</sup> years have elapsed since the last hydrostatic test has been performed, and that the cylinder is less than 15 years old. Inspect the cylinder for dents, gouges, or cuts which have penetrated and caused separation or unraveling of the composite overwrap. Watch for evidence of exposure to high temperature such as darkened or blistered paint, charred overwrap or decals, melted or distorted gauge lenses, etc.

### **C. Cylinder Valve**

1. The cylinder valve should be examined for obvious external damage such as deformed handwheel, inaccurate or inoperative pressure indicator, damaged threads on the outlet connection, or other evidence of impact or exposure to extreme heat. If internal contamination is suspected, remove the cylinder valve and inspect the interior of the cylinder.

2. The cylinder valve overhaul cycle is as follows. For steel, all aluminum, or fully wrapped carbon fiber cylinders, overhaul the valve at every hydrostatic retest (5-year cycle). For fiberglass and Kevlar<sup>®</sup>, hoop-wrapped or fully wrapped cylinders, overhaul the valve at every other hydrostatic retest (6-year cycle).

<sup>1</sup> DOT (Department Of Transportation) approval of the five-year hydrostatic test cycle can be found at the following web sites:

For Luxfer cylinders the DOT exemption can be found at:

<http://hazmat.dot.gov/exempapp/exemptions/docs/10000/E10915.pdf>

For Structural Composites Inc. cylinders the DOT exemption can be found at:

<http://hazmat.dot.gov/exempapp/exemptions/docs/10000/E10945.pdf>

If you have questions, or if you would like further information, contact the Technical Services Department at Survivair Respirators, Inc. (telephone: 800-394-0410; e-mail: [scba@survivair.com](mailto:scba@survivair.com)).

F/N: tb125