1 DESCRIPTION

The TransAire 5/10 Emergency Escape Respirators from MSA are self-contained devices for use by personnel who may need to escape from atmospheres that are made immediately dangerous to life and health (IDLH) by high concentrations of toxic gases or vapors, or by oxygen deficiency. The devices meet or exceed the relevant requirements as outlined in the NIOSH regulation 42 CFR Part 84, Subpart H.

The lightweight units can either be carried by the worker or mounted on a nearby wall. In the event of a spill or release of toxic material, the worker can quickly retract the protective cover, turn on the air cylinder valve, remove and don the hood, and leave the hazardous area.

During operation, the TransAire 5 and 10 Respirators supply a continuous flow of air to the hood at a rate of 40 LPM (+/- 4 LPM). The TransAire 5 unit has a rated service life of 5 minutes, and the TransAire 10 unit has a rated service life of 10 minutes.

2 REFERENCE DATA

OVERALL UNIT

Weight (less hard case)
- TransAire 5: 5 lbs.
- TransAire 10: 8 lbs.

Donning time
- The unit can be donned and flowing in under 10 seconds, after it is removed from the case or storage area.

Duration
- TransAire 5: 5 minutes
- TransAire 10: 10 minutes

INDIVIDUAL COMPONENTS

HOOD

Materials
- Urethane or Teflon materials available

Options
- Standard version with elastic neck seal (available in both Urethane and Teflon)

Operational temperature range
- 0° to 160° F

REGULATOR

Type
- Constant-flow regulator with no external adjustments

Materials
- Nickel-plated brass

Flow
- Nominal flow is 40 LPM +/- 4 LPM from service pressure to 500 psig.

Operational Temperature range
- 0° to 160° F
INDIVIDUAL COMPONENTS, continued

■ CYLINDER VALVE

Components
- Valve/regulator Threaded port for regulator
- Burst disc Hand wheel for opening/closing valve
- Port for gauge Threaded port for cylinder assembly w/undercut for O-ring

Material
Nickel-plated brass

Maximum working pressure
- 5-minute: 2216 psig breathing air (Grade D or better)
- 10-minute: 3000 psig breathing air (Grade D or better)

Impact resistance
Can withstand the force of a 4-lb. weight dropped from 2 ft.

■ CYLINDER

Materials
6061 T6 high-strength aluminum
(Yellow for 5-min, Gray for 10-min)

Maximum service pressure
- 2216 psig (Yellow)
- 3000 psig (Gray)

Minimum pressurized volume
- 5-minute: 8 cu. ft.
- 10-minute: 15 cu. ft.

■ GAUGE

Working pressure range
0 to 3000 psig

Materials
- Main body: Aluminum
- Fitting: Brass
- Guard: Rubber
- Lens: Clear polycarbonate

Accuracy
+/- 5% full scale at room temperature

Operational temperature range
0° to 160° F

■ CARRIER

The carrier is made of washable nylon cloth. It can be worn on the waist, neck or shoulder.

■ HARD WALL-MOUNTING/CARRYING CASE

The hard case stores one unit. Its lightweight construction can withstand a drop of 3 ft.on all sides and edges.

SERVICES

Complete repair and service capabilities are located in Pittsburgh, PA. Call 1-800-MSA-2222 for complete details.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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