

SAVIOUR[®]
Performing PPE



SAVIOUR SELF-CONTAINED- BREATHING APPARATUS(SCBA) CLASS 2

Model No.: RSSAV-SCBA

R2/311225

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Safety**
Complete Safety Solutions

Saviour Self-Contained Breathing Apparatus (SCBA) Class 2

A Self-Contained Breathing Apparatus (SCBA) is a portable, life-support device providing clean, pressurized air from its own tank, allowing users to breathe safely in immediately dangerous environments like fires, toxic spills, or oxygen-deficient confined spaces, commonly used by firefighters, rescue workers, and industrial personnel. It consists of a facepiece, a high-pressure air cylinder, a regulator to control airflow, a body harness, and gauges, with exhaled air vented to environment(open-circuit).



TECHNICAL SPECIFICATION	DESIGN & CONSTRUCTION REQUIREMENTS
Class 2 Breathing Apparatus <ul style="list-style-type: none">Self-contained open-circuit breathing apparatus intended for firefighting applications.Differentiated from Class 1 (industrial use) by additional requirements like flame/radiant heat resistance.	General Design <ul style="list-style-type: none">Robust construction to withstand rough usage.No protrusions or sharp edges that could catch or injure the wearer.Components readily separable for cleaning/inspection.Total mass ready for use (with fully charged cylinders and full-face mask) not exceed 18 kg.
PRESSURE & VALVE REQUIREMENTS	Materials
Cylinder Outlet & Pressure Control <ul style="list-style-type: none">Outlet valves are designed to prevent accidental closure or wrong pressure connections (e.g., apparatus with lower rated pressure not be connected to higher pressure source).Valve operation requires minimum two turns of hand wheel or lockable open position.	<ul style="list-style-type: none">Materials have adequate mechanical strength and resist deterioration due to heat and handling.Exposed parts not be made of metals that can cause sparks (e.g., magnesium/titanium/aluminium alloys with high spark propensity).

CLASS-2 SPECIFIC PERFORMANCE CRITERIA

Heat & Flame Resistance

- Apparatus exposed to radiant heat at 8 kW/m² for 5 min at 105 L/min flow continue to meet breathing resistance requirements through the test period (although deformation is allowed).
- After radiant heat exposure, breathing performance meet required limits.

Flame Engulfment

- Class 2 apparatus are subjected to flame engulfment tests.
- No after-flame continue for more than 5s.
- All components securing the apparatus or cylinder(s) not separate in a manner that jeopardizes wearer safety.

ENVIRONMENTAL & DURABILITY TESTS

Water Immersion

- Apparatus continue functioning satisfactorily after immersion in water.
- Performance assessed before and after immersion with breathing resistance tests.

Leak Tightness & Hose Resistance

- Assemblies passed leak tests at prescribed low and high pressures.
- Breathing hoses demonstrate resistance to collapse under specified conditions.

BREATHING PERFORMANCE SPECIFICATIONS

Breathing Resistance

Apparatus with positive pressure:

- Positive pressure maintained in mask cavity adjacent to face seal.
- Exhalation resistance limits vary based on flow conditions.

WARNING DEVICES & INDICATORS

Pressure Indicator

- Have blow-out protection and non-splintering window.
- Tactile or electronic indicators show pressure.
- Warning device operate at a cylinder pressure of 55 bar \pm 5 bar.
- Audible warning \geq 90 dB(A) at the ear proximity and continue at least 15 s at 90 dB for continuous tone (longer for intermittent).

Warning Devices

- Pneumatic or electronic warning devices function in 0 °C to 10 °C at 90 % RH.
- Average air loss from warning signal not exceed 5 L/min.

TEMPERATURE & ENVIRONMENTAL CONDITIONING

- Pre-conditioning cycles at high (70 \pm 3 °C dry/wet) and low (-30 \pm 3 °C) temperatures are prescribed before several tests.
- Breathing performance meet requirements after conditioning

KEY FEATURES

- With positive pressure face mask.
- Secondary attachment for two user
- Operating temperature range -30°C to 60°C
- With pressure reducer relief valve for wearer safety
- With automatically activated audible warning device.
- Digital pressure gauge with motion sense alarm
- Push to talk(PTT) for communication
- Available with glow light for enhanced visibility
- Quick detachable facemask using QRC
- Flame proof back plate with padding and harness and hose
- Heat resistance face mask
- Suitable for industrial firefighting
- Water proof and heat proof electronic warning device.

APPLICATIONS

- Chemical and petrochemical industries
- Emergency response and rescue
- Hazardous material handling
- Industrial fire fighting
- Mining

MARKING & DOCUMENTATION

Manufacturer supply:

- Manufacturer name
- Model/serial number
- Face mask size(s)
- Operating instructions and maintenance instructions
- Month/Year of manufacturing
- License and certification

CERTIFICATION

- IS 10245:2023 Part 2 Class 2
- IS 14166:2024
- PESO-Approved cylinder
- PESO-Approved valves
- Conforms EN 137

IS 10245 Part 2:2023



CM/L:7200167211

IS 14116:2024



CM/L:7300127004