

Technical Datasheet

SCBA Self-Contained Breathing Apparatus

Class 1 - Venus SCBA 108

Emergency rescue/response device

IS 10245 (Part 2)



CM/L-0002809666

ISI Approved

SCBA 108-7AC Item # 110350801

Incl. Back plate V08 design, V-777,
Analogue Gauge, CC Cylinder with Gauge

SCBA 108-6AC Item # 110350701

Incl. Back plate V08 design, V-666,
Analogue Gauge, CC Cylinder without
Gauge

SCBA 108-6AC Item # 110355901

Class 1, Incl. Back plate V08 design, V-666,
Analogue Gauge, CC Cylinder with Rotrex Gauge

- Carbon composite light weight Cylinder 6.8 L, 300 bar, Work Life:45 min.
- Pressure reducer valve & cylinder PESO approved
- Set weight (with CC filled cylinder) approx. 10.5 kg.

SCBA 108-6AS Item # 110356001

Class 1, Incl. Back plate V08 design, V-666,
Analogue Gauge, Steel Cylinder

- Steel Cylinder 6.00 L, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder PESO approved Set weight (filled steel cylinder) approx. 17 kg.10.5 kg.



Features of the Venus Class 1 SCBA:

1. **Variants and Work Life:** Available in lightweight composite cylinders (6.8 L/7.7 L) and steel cylinders (6.0 L) with or without an analogue gauge, supporting up to 45 minutes of work life at 300 bars.
2. **Pressure Regulation and Demand Valve:** Features PESO-approved pressure reducer valves for reliable air regulation. Demand Valve: Allows 360° rotation, providing large airflow for comfortable and unrestricted breathing.
3. **Weight and Ergonomic Design:** Lightweight models weigh ~10.5 kg, while steel variants weigh ~17 kg, complemented by an ergonomic backplate for comfort and balance.
4. **Face Mask V-666:** Made from neoprene rubber, with an anti-fog, heat-resistant polycarbonate visor tested up to 900°C and compliant with multi-flame burner test standards.
5. **Harness Durability:** Constructed with Polyester-FR material and Aramid/CFR, featuring reflective fabric for visibility and stainless steel buckles for durability.
6. **Analogue Gauge:** Designed to be explosion-proof, dust-proof, and waterproof, with a fluorescent display for visibility in low-light conditions.

Benefits:

1. **Variants and Work Life:** Offers flexibility to suit diverse operational needs while ensuring ample air supply for extended safety.
2. **Pressure Regulation and Demand Valve:** Ensures consistent air delivery and ease of movement in critical situations.
3. **Weight and Ergonomic Design:** Reduces user fatigue during extended use, enhancing operational efficiency.
4. **Face Mask V-666:** Provides clear vision and robust protection in high-heat and hazardous environments.
5. **Harness Durability:** Offers enhanced strength, safety, and comfort during intense operations.
6. **Analogue Gauge:** Reliable monitoring of air pressure for timely decision-making in emergencies.

Cautions & Limitations

1. **Fit:** Ensure proper fit to prevent leaks.
2. **Training:** Users must be trained.
3. **Inspection:** Regularly check for damage and pressure.
4. **Temperature:** Avoid extreme temperatures.
5. **Storage:** Keep in a cool, dry place.
6. **Handling:** Avoid dropping or impacting the cylinder.

SCBA Class 1 Quick Guide

1. **Preparation:**
 - a. Inspect SCBA for damage, ensure the cylinder is fully charged, and confirm all components function properly.
2. **Donning:**
 - a. Wear the harness, tighten straps, secure the waist belt, and connect the cylinder valve to the regulator.
3. **Fitting:**
 - a. Position the face-piece snugly on your face, tighten head straps evenly, and check for leaks.
4. **Activation:**
 - a. Open the cylinder valve, check the pressure gauge, and ensure no air leaks.
5. **Usage:**
 - a. Inhale to start airflow, monitor the pressure gauge, and adjust airflow as needed.
6. **Low-Air Warning:**
 - a. Exit promptly when the low-pressure whistle sounds.
7. **Exit:**
 - a. Leave the hazardous area before air is depleted or upon task completion.
8. **Doffing:**
 - a. Close the valve, remove the face-piece, loosen straps, and remove the harness.
9. **Maintenance:**
 - a. Inspect, clean, dry, and store SCBA properly; recharge the cylinder for future use.

Applications of SCBA Class 1

1. **Fire-fighting:**
 - Used in fire rescue operations to provide breathable air in smoke-filled environments.
2. **Hazardous Material Handling:**
 - Protects against toxic gases, vapors, and airborne chemicals in industrial settings.
3. **Confined Space Entry:**
 - Essential for operations in oxygen-deficient or contaminated spaces like tanks, tunnels, and sewers.
4. **Emergency Rescue:**
 - Supports rescue teams during natural disasters, explosions, or hazardous spills.
5. **Mining and Construction:**
 - Ensures safety in environments with dust, gas leaks, or poor ventilation.
6. **Chemical and Petrochemical Industries:**
 - Provides respiratory protection during maintenance, accidents, or chemical handling.

SCBA Class 1 is critical for environments where clean air is necessary for survival and safety.