

# SCBA Self Contained Breathing Apparatus

Emergency rescue / respond device

Backplate, Pressure Gauge, Full face mask & Cylinder

IS 10245 ( Part 2 )



CM/L-0002809666

## Venus SCBA 215-7ACX Item # 13433 / 215-6AS Item # 13434

(Type 2, high mobility backplate V15 design, V-777 / V-666 FFM, Analogue gauge, CC Cylinder with case / Steel cylinder)

### Venus SCBA 215-7ACX

- Face mask V-777
- V-777 provides wide field vision with Kevlar textile head net harness
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 3 requirements of multi flame burner & radiant test.
- Carbon composite light weight Cylinder 6.8 l, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder with PESO approved
- Set weight (filled CC cylinder) approx. 10.5 kg.
- ABS carrying case comes for storage of set

### Height Adjustable Backplate design which is robust & easy to use

- Polyamide material for good Low / high temperature, chemical resistance, Flame / radiant heat resistance
- Ergonomically designed to suit shape of human back
- Height adjustable clip to suit profile of different users
- High mobility 3 axis rotating fixture which is designed to disperse the weight of the cylinder efficiently
- Pressure reducer valve is fixed on the backplate by wire dowels.

### Analogue gauge

- Anti-collision, explosion proof & water-proof design
- Fluorescent display for reading in darkness
- Rubber cover provided dustproof, Water proof.

### Y Hose Quick release coupling (QRC) connection

- Provides auxiliary air to two users in life saving situations.

### Demand Valve

- Connection to breathing apparatus is capable of 360 degree rotation
- Easy access button to increase the flow air
- Ensure large flow and safe air supply by using manual for air flux button
- Flame retardant casing made using high strength engineered plastics

### Y Hose Quick release coupling (QRC) connection

- Provides auxiliary air to two users in life saving situations.

### Face mask V-666

- Neoprene Rubber harness tested upto 900° C.
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 2 requirements of multi flame burner test.

### Venus SCBA 108-6AC

- 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.

### Venus SCBA 108-6AS

- 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.

### Demand Valve

- Connection to breathing apparatus is capable of 360 degree rotation
- Easy access button to increase the flow air
- Compact and robust design with excellent pneumatic performance.
- Ensure large flow and safe air supply by using manual for air flux button
- Flame retardant casing made using high strength engineered plastics

### Venus SCBA 215-6AS

- Face mask V-666
- Neoprene Rubber harness tested upto 900° C.
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 2 requirements of multi flame burner test.
- Steel Cylinder 6.2 l, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder PESO approved
- Set weight (filled CC cylinder) approx. 17.5 kg.

### Nomex Harness for increased rigidity

- Nomex material with Flame / radiant heat retardant capability.
- Anti-skidding, anti-tearing & comfortable to be worn for long periods.
- Reflective fabric sewn on harness for good visibility
- Buckles are made of heavy duty 304 Stainless steel



## Venus SCBA 108-6AC & Venus SCBA 108-6AS

Item # 13435

Item # 13436

(Type1, Backplate V08 design, V-666 FFM, Analogue gauge, CC cylinder or Steel Cylinder)

### Polyester FR Harness increased durability

- Aramid / CFR waist belt & shoulder straps move independently of each other for mobility & comfort to the user
- Reflective fabric sewn on harness for good visibility
- Buckles are made of heavy duty 304 Stainless steel

### Lightweight Back-plate

- Produced from Nylon material ergonomically designed to suit the shape of human back

### Analogue gauge

- Anti-collision, explosion proof & water-proof design
- Fluorescent display for reading in darkness
- Rubber cover provided dustproof, Water proof.

### Spares for SCBA

- Item # 73254 - V-667 full face Mask
- Item # 73188 - Demand Valve
- Item # 73196 - Cylinder CCOE 6.8 L.
- Item # 73197 - Cylinder Steel 6.0 L.
- Item # 73199 - SCBA Back plate with V-777
- Item # 73203 - SCBA Back plate with V-666



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### ***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.



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