Technical Datasheet

3M Versaflo™ S-Series Headcovers & Hoods

Description

The 3M Versaflo™ S-Series Headcovers and Hoods combine respiratory protection with head, or head, neck and shoulder coverage. Additionally, these headtops also provide eye and face protection. The headtops are designed to be used with an approved 3M air delivery unit to form a respiratory protective device.

- All S-Series headtops:
  - Meet the highest respiratory performance requirements when used with specific 3M air delivery units.
  - Have reduced curvature visors for reduced reflections and glare and excellent field of view.
  - Offer improved comfort, low air flow noise and reduced fogging.
  - Connect via the new, strengthened BT-Series breathing tubes.
- Integrated head suspension headcovers and hoods:
  - Ready to use out of the box.
  - Available in two adjustable sizes Small and Large to comfortably fit more users than previous models.
  - Exhalation panel vents the headtop.
- Premium reusable suspension hoods:
  - Adjustable head circumference and crown size straps to comfortably fit more users than previous models.
  - Optional size reducing comfort pad for improved fit.
  - External airflow adjustment control.

Approvals

The S-Series headtops, when used as part of an approved 3M Respiratory system have been shown to meet the Basic Safety Requirements under Article 10 and 11B of the European Directive 89/686/EEC and are CE marked.

These products were examined at the design stage by:
BSI Product Services, Maylands Avenue, Hemel Hempstead, Hertfordshire, HP2 4SQ, England (Notified Body number 0086).

Applications

The S-Series headtops can be used with an air-filtering unit to form a powered air respirator system or with air regulating valve to form a supplied air respirator system. According to the system chosen, protection is provided against:

- Particles e.g. fine dusts, mists and metal fume.
- Gases & vapours.
- Particles & gases combined.

Typical industries include:

- Medical and Healthcare
- Pharmaceutical Manufacturing
- Agriculture
- Food and Beverage
- Pulp and Paper Processing
- Surface Preparation and Coating
- Chemical Industry
- Woodworking

Standards

The S-Series headtops meet the performance requirements of Australian Standard AS/NZS1716:2003:

- when connected to the 3M™ Jupiter™ Air Filter Unit.
- when connected to the 3M™ Dustmaster™ Air Filter Unit.
- when connected to the 3M™ Air Regulating Valve or 3M™ Vortex™ Regulators.

Limitations

- Asbestos removal.
- In atmospheres containing less than 19,5 % oxygen.
- Confined spaces (lack of ventilation).
- When the risk is considered to be immediately dangerous for life or health (IDLH).
- If connected to Jupiter turbo unit, when the concentration of gas/vapour contaminant is above 10 times the Exposure Standard or when the concentration of particulate contaminant is above 50 times the Exposure Standard.
- If connected to Dustmaster air filter unit, when the concentration of particulate contaminant is above 50 times the Exposure Standard.
- When connected to a continuous flow airline system with an Air Regulating Valve or Vortex regulator, AS/NZS1715 states these systems have a Required Minimum Protection Factor of 100+ against all contaminants.

Materials

- Headtop fabric (see table below for information)
- Visor (S-133/433/655/657/757) - PETG (S-333G/533/855E) - Polycarbonate
- Visor peel-offs - Polyester
- Integrated suspension headcovers and hoods:
  - Head suspension - Polyethylene
  - Air inlet – Polypropylene
- Premium reusable suspension hoods:
  - Head suspension – Polyethylene
  - Air channels – Polypropylene
  - Air inlet – ABS
  - Visor attachment clips – Nylon
  - Airflow adjustment cover - Nylon
- Comfort pad – Nylon scrim upper / polyurethane foam
- Size reducing comfort pad – Nylon scrim upper / polyurethane foam / nylon scrim lower
- Breathing tube (BT-20S/L) – Polyurethane with steel helix
- Breathing tube cover (BT-922) - Polyethylene

Note: For disposal, plastic and fabric parts can be quickly removed and separated for segregated waste streams, where facilities are available.

Materials	S-133S/L & S-433S/L	S-333SG/LG & S-533S/L	S-655	S-657	S-757
Headtop Fabric	Spun bond polypropylene laminated to polypropylene film	Polyurethane coated knitted nylon	Spun bond polypropylene laminated to polypropylene film		Spun bond polypropylene laminated to both sides of polypropylene film Inner Shroud: Spun bond polypropylene
Exhalation panel fabric	Spun bond polypropylene		N/A		
Elastic / Collar material	Nylon/elastane face seal		Knitted cotton yarn/ elastic collar	Nylon/elastane elastic	

Technical specifications

Minimum Protection Factor:

- 10 for gas/vapour and 50 for particulates when connected to 3M™ Jupiter™ Air Filter Unit.
- 100+ when connected to 3M™ Air Regulating Valve or 3M™ Vortex Regulators.
- 50 for particulates when connected to 3M™ Dustmaster™ Air Filter Unit.

Storage conditions:	-30°C to +50°C
	< 90 %RH
Operating temperature:	-10°C to +55°C.

Weight (without breathing tube):

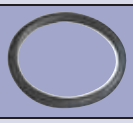
S-133S = 100 g	S-133L = 110 g
S-333SG = 125 g	S-333LG = 130 g
S-433S = 130 g	S-433L =135 g
S-533S = 170 g	S-533L = 185 g
S-655 = 310 g	S-657 = 310 g
S-757 = 315 g	

For more information on 3M products and services please call the 3M Health & Safety Helpline,

3M Australia 1800 024 464 techassist@mmm.com

3M New Zealand 0800 364 357

Minimum Manufacturer Design Flow (MMDF): 150 l/min

PART		DESCRIPTION
S-605		Replacement fabric for S-655
S-607		Replacement fabric for S-657
S-707		Replacement fabric for S-757
BT-20S/L		Breathing tube (Small/Medium or Medium/Long)
BT-922		Disposable breathing tube cover
S-955		Airflow adjustment cover
S-956		Airduct sealing ring
S-957S/L		Comfort pad – small/ large (For integrated head suspension headcovers and hoods)
S-953		Comfort pad (For premium head suspension hoods)
S-954		Size reducing comfort pad (For premium head suspension hoods)
S-920S/L		Visor peel-offs – small/large (For integrated head suspension headcovers and hoods)
S-922		Visor peel-offs (For premium head suspension hoods)
S-950		Premium head suspension

3M Occupational Health & Environmental Safety Division

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