

TECHNICAL DATASHEET

M98 FULL FACE RESPIRATOR



DESCRIPTION

The Scott Safety M98 single filter full face respirator features a facepiece, wide T-bar sealing edge, transparent inner mask with two inhalation valves, 5-point adjustable and replaceable natural rubber head harness with quick release plastic buckles, speech diaphragm, panoramic visor and drinking port. The M98 is available in two sizes, Medium general size and Small.

The facepiece is made from specially engineered halo-butyl elastomer compound and features a 40mm thread filter connection. A drinking device is used for the intake of liquid from a special drinking bottle or standard PET bottle with thread diameter 28mm. Inner mask features a peripheral sealing edge to reduce dead space. Steering valve discs of the inner mask are positioned to avoid nostril contact even during powerful breathing. Valves are colour coded for easy maintenance at field conditions.


The M98 gas mask is easy to decontaminate. Maintenance and upgrading can be carried out without tools. The facepiece materials withstand several cleanings.

The exhalation valve is positioned downwards, which provides a “down-pouring” channel to enable proper saliva drain of the mask. The mask body features a fit chin cup, which ensures secure immovability. Due to the filter joint placed on the side it does not obstruct visibility.

The visor is made from polycarbonate and features excellent light transmission capability and encompasses no optical distortion. The inside surface of the visor is resistant to mist formation. The visor is positioned close to the eyes to improve down-front vision.

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TECHNICAL SPECIFICATIONS

013010 / 013030 / 013031	
	
Facepiece	Halo-butyl elastomer compound, including: Butyl IRR, EPDM & natural rubber (Procomp™)
Inner Mask	Liquid Silicone
Visor	Polycarbonate (PC) & optional PC HC (hard coated on both sides for scratch & solvent resistance)
Head Harness	Natural Rubber (NR) or Textile Harness
Valve Discs	Silicone
Visor Frame	Polyamide (PA)
Filter Connector	40mm Thread
Drinking Tube	Silicone (FDA approved)
Bottle	HDPE
Intake of Liquid	250ml/min
Storage Life	20 years

WEIGHT

Filter weight can vary.

COMBINATION	WEIGHT	WEIGHT WITH PF10 FILTER	WEIGHT WITH CF22 A2P3	WEIGHT WITH CF32 A2B2E2K2P3
M98 Medium	580g	680g	820g	965g
M98 Small	570g	670g	810g	955g

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PROCOMP MATERIAL PROPERTIES

COMBINATION	
Feature	M98 Procomp
Gas & Vapour impermeability	Excellent
Resistance to CBRN & riot control agents	Excellent
Mechanical durability	Good
Chemical Resistance	Excellent
Temperature Range	Excellent (-40... +100°C)
Steam Resistance	Good
Ozone Resistance	Excellent
Light Resistance	Good
Resistance to tear & wear	Good
Flame Resistance	Good

VISOR PROPERTIES

VISOR FEATURES	VISOR POLYCARBONATE (PC)	VISOR HARD COATED POLYCARBONATE (PC HC)
Impact Resistance	Excellent	Good
Scratch Resistance	Good	Excellent
Maximum Heat Resistance	140°C	140°C
Chemical Resistance (Hydrocarbons, weak acids, alcohols, grease, benzene)	Average	Good

APPROVAL INFORMATION

The Scott Safety M98 single full face respirator is certified to AS/NZS 1716:2012.

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PROTECTION FACTORS

According to AS/NZS 1715

COMBINATION	REQUIRED MIN PROTECTION FACTOR AS/NZS 1715*	MAXIMUM GAS/VAPOUR CONCENTRATION PRESENT IN THE AIR IN PPM (VOLUME)
Full Face Respirator with Particulate P3 Filter	Up to 100	
Full Face Respirator with Gas Filter Class 2	Up to 100	5000 ppm

* Refer AS/NZS 1715: Selection use and maintenance of respiratory protective equipment.

FILTERS

The Scott Safety Pro2000 filters (40mm thread) for the M98 single filter full face respirator are also certified to AS/NZS 1716. All Pro2000 filters are suitable for use with the M98. The following Pro2000 filters are recommended for protection against riot-control agents.

RECOMMENDED SCOTT SAFETY PRO2000 FILTERS FOR RIOT-CONTROL AGENTS		
CF22 A2P3 Protects against CBW and riot control agents (eg. tear gas, CN, CS) against organic gases and vapours, highly toxic and radioactive solid and liquid particles, bacteria and viruses.	CF22 A2B2E1P3 Protects against CBW and riot control agents (eg. tear gas, CN, CS) against organic, inorganic and acid gases and vapours, highly toxic and radioactive solid and liquid particles, bacteria and viruses	CF32 A2B2E2K2P3 Protects against CBW and riot control agents (eg. tear gas, CN, CS) against organic, inorganic acid gases and vapours, ammonia and organic ammonia derivatives, highly toxic and radioactive solid and liquid particles, bacteria and viruses

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
013010	M98 Full Face Respirator with Natural Rubber Head Harness (Medium)
013030	M98 Full Face Respirator with Textile Harness (Medium)
013031	M98 Full Face Respirator with Textile Webbing Head Harness (Small)

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MAINTENANCE/CLEANING

Maintenance: Use only original spare parts. After use, the respirator must be checked, cleaned and disinfected. Replace damaged parts.

* when needed

COMPONENT	WORK TO BE DONE	INTERVALS			
		Before Use	After Use	Annual	Every 6yrs
Mask Complete	Cleaning		•	•	
	Disinfection		•	•	
	Test for function & leak-tightness	•	• *	•	
	Pre-use check done by the user	•			
	Replacement visor, head harness, buckles, inner mask & other parts		• *		
Valve discs	Check		•	•	
	Replace		• *	•	•
	Check tightness of exhalation valve disc		•	•	
Inhalation valve	Check valve seat		•	•	•
Speech Diaphragm	Check		•	•	
	Replace				•
Drinking Device	Cleaning	•			

Cleaning: Use a lukewarm water and mild detergent (neutral pH 6-8). Do not use solvents (like turpentine, acetone), hot water or bleaching agents (like Perborate, Percarbonate). After cleaning, disinfect the inside/faceseal with a disinfection solution eg, Distel.

STORAGE

The M98 full face respirator should be protected from direct sunlight, grease and oil. The store should be dry and cool. The components should not be more than 5 years old.

Storage of respirator: -10°C...+50°C, and relative humidity (RH) under 75%.

Storage of respirator and filters: -10°C...+30°C, max RH 75%. After use, an opened filter must be sealed tightly if it is to be reused, but it must be replaced within 6 months at the latest.

Storage and maintenance of a filter: The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at even temperature, most appropriate at 0...+30°C and relative humidity below 75%. Sealed filters tolerate also conditions of -10...+50°C and below 95% RH. The storage period (month and year) for filters is marked on the filter tape. Do not try to regenerate the filters. Never clean the filters with compressed air or compressed water. After use, the filters are special refuse. Make sure that they are disposed of according to the filtered substance (gases or particles) in accordance with current waste treatment regulations.

DISPOSAL

As the respirator & filters are subject to dirt, dusts and liquids etc, they cannot be recycled. If the product is to be disposed of, it should be dismantled from the respirator and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.