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Technical Data Sheet
Revision 2, June 2026

3M™ Versaflo™ M-Series Faceshields and Helmets

Description



M-206/M-207



M-306/M-307



M-406/M-407

The 3M™ Versaflo™ M-Series Faceshields and Helmets combine respiratory protection with eye and face protection, and with some models, head and hearing protection. The Faceshields and Helmets are designed to be used with an approved 3M air delivery unit to form a respiratory protective device.

M-Series Faceshields and Helmets have a choice of fabrics to suit a wide range of industries and applications.

M-206/M-306 fitted with comfort faceseal. Used for example when spraying, chemical processing or in construction.

M-406 fitted with highly durable shroud for construction and heavy industry.

M-207/M-307/M-407 fitted with flame resistant faceseal/shroud for applications with hot particles.

Additional High Heat Accessories available for M-300 and M-400 Series Helmets comprising 3M™ Radiant Heat Covers M-973/ M-975, 3M™ Gold Over Visor M-967, 3M™ Over Visor Frame M-961 and 3M™ Breathing Tube Cover BT-927. See High Heat Accessories Technical Datasheet for more information.

M-200 and M-300 Headtops are approved with 3M™ PELTOR™ Optime I, II and III Helmet Mounted Earmuffs and 3M™ PELTOR™ X1P3, X2P3, X3P3, X4P3 and X5P3 Helmet Mounted Earmuffs . Note: Requires use of Z3AF/2 adaptor.

M:300 Only: 3M™ PELTOR™ Microphones MT7V/1 and MT53V/1 are available to integrate with the range of 3M™ PELTOR™ hearing protection. See microphone technical datasheet for more information.

Standards and Approvals

The M-Series headtops meet the performance requirements of the following European standards:

Eye and face protection to EN 166.

M-927 – Optical class 1, medium energy impact at extremes of temperature BT and liquid splash 3.

M-925 – Optical class 1, medium energy impact at extremes of temperature BT, liquid splash 3 and molten metal splash 9.

Bump cap protection (M-200 only) to EN 812 inc. 440V a.c.(electrical insulation).

Head protection (M-300 and M-400 Series only) to EN 397 LD, 440 v a.c. (Lateral deformation and electrical insulation).

Hearing protection: Refer to 3M™ PELTOR™ Technical Datasheets for more information.

Respiratory Protection to EN 12941 and EN 14594 (see Technical Specification section for more information).

The Certificate and Declaration of Conformity are available at the following website www.3M.com/Respiratory/certs and www.3M.com/Welding/certs

Applications

The M-Series headtops can be used with an air-filtering unit to form a powered air respirator system or with a regulator 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 and vapours
- Particles and gases combined

Typical industries include:

- Agriculture
- Chemical industry
- Construction and building renovation
- Demolition
- Food and beverage
- Medical and healthcare
- Metalworking
- Pharmaceutical manufacturing
- Pulp and paper processing
- Smelting and foundries
- Surface preparation, paint spraying and coating
- Woodworking

Materials

Common parts are listed in Figure 1.

Component	**Material**
Visor (M-925)	Polycarbonate
Visor (M-927)	Coated polycarbonate
Visor frame	Polycarbonate
Visor seal	EPDM/polypropylene
Deflector	Acetal
Ratchet	Nylon
Sweat pad	Cotton
Headband	Polyolefin
Headband strap	Nylon
Breathing tube BT-20S/L	Polyurethane with steel helix
Breathing tube BT-30	Polyurethane with acrylonitrile butadiene styrene helix

Component	Material
Breathing tube BT-40	Chloroprene
Breathing tube cover BT-922	Polyethylene
Breathing tube cover BT-926	Oxidised polyacrylonitrile

Figure 1

Materials	M-206	M-207	M-306	M-307	M-406	M-407
Faceseal	Polyurethane coated knitted nylon	Flame resistant polyester	Polyurethane coated knitted nylon	Flame resistant polyester	N/A	
Shroud	N/A				Nylon	Polyaramid
Inner shroud	N/A				Polyurethane coated knitted nylon	
Bump cap shell	Polyethylene		N/A			
Helmet shell	N/A		Polycarbonate /Polybutylene terephthalate blend			

Limitations

- 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)

Technical Specifications

System Classifications and Some Example Protection Factors

Note: Protection factors correct at time of printing. Refer to local regulation for current protection factors.

3M™ Versaflo™ M-Series with:	Standard[1]	Classification	NPF [2]	APF[3] (UK)	VGW[4] (Germany)	FPO[5] (Italy)
3M™ Versaflo™ Powered Air Turbo TR-302E+	EN 12941	TH3	500	40	100	200
3M™ Versaflo™ Powered Air Turbo TR-602E[6]						
3M™ Versaflo™ Powered Air Turbo TR-802E						
3M™ Powered Air Turbo PF-602E+[7]		TH2	50	20	20	20
3M™ Powered Air Turbo PF2-602E						
3M™ Powered Air Turbo PF2-602E-ASB						
3M™ Versaflo™ Supplied Air Regulator V-500E	EN 14594	3A/3B[8]	200	40	100	100

3M™ Versaflo™ M-Series with:	Standard[1]	Classification	NPF [2]	APF[3] (UK)	VGW[4] (Germany)	FPO[5] (Italy)
3M™ Versaflo™ Cooling/Heating Unit V-100E/V-200E	EN 14594	3A/3B[8]	200	40	100	100

[1]See Declaration of Conformity for full standard reference

[2]The Nominal Protection Factor (NPF) is a number determined by the relevant European Standards for a given class of respiratory protective device. This may not be the level of respiratory protection that can be realistically expected in the workplace by wearers. Many countries apply their own Protection Factors. Please refer to EN 529 and National workplace protection guidance for application of these numbers in your workplace. Employers may apply a value lower than the country's Protection Factor if deemed applicable. Please contact 3M for further information.

[3]APF (UK) = Assigned Protection Factor (For information on APFs, see HSE document HSG53)

[4]VGW (Germany) = Protection level according to DGUV-R 112-190

[5]FPO (Italy) = Protection level according to UNI 11719

[6]BT-30 is not approved for use with the 3M™ Versaflo™ M-400 Series and 3M™ Versaflo™ Powered Air Turbo TR-602E

[7]Systems comprising 3M™ Versaflo™ M-400 Series and 3M™ Powered Air Turbo PF-602E+ are only approved with DT-1135E and DT-1235E Particulate Filters

[8]M-series headtops meet class 3B and may be used with a 3M Compressed Air Supply Tube (CAST) up to 30m if the CAST meets the B classification. However, if the CAST meets the A classification, then this classification shall apply to the system and the CAST length must not exceed 10m. Contact 3M for more information.

Storage Conditions

-30°C to +50°C < 90 %RH

Operating Temperature

-10°C to +55°C

Shelf Life*

5 years after date of manufacture

*The shelf life as defined above remains an indicative and maximum data, subject to many external and non controllable factors.

Weight (without breathing tube)

M-206/M-207: 650g

M-306/M-307: 873g

M-406/M-407: 1196g

Spare Parts and Accessories

Part number	Description
M-116	Airflow deflector (M-200)
M-150	Head suspension (M-200)
M-154	Forehead seal (M-200)
M-316	Airflow deflector (M-300/M-400)

Part number	Description
M-350	Head suspension (M-300/M-400)
M-354	Forehead seal (M-300/M-400)
M-441	Jaw gasket
M-444	Replacement inner shroud
M-447	Flame resistant shroud
M-448	High durability shroud
M-919	Visor frame buttons
M-920	Visor frame
M-921	Visor gasket
M-925	Uncoated Visor
M-927	Coated Visor
M-928	Peel-off visor cover
M-933	Faceseal (Flame Resistant Plus)
M-935	Faceseal (Standard)
M-936	Faceseal (Comfort)
M-937	Faceseal (Flame Resistant)
M-953	Ratchet
M-956	Ratchet comfort pad
M-957	Comfort pad
M-959	Chinstrap
M-960	Pivot kit
M-972	Flame resistant headtop cover
M-976	Head, neck and shoulder cover
H510P3E 405-GU	3M™ Optime™ I Hearing Protector Attachment
H520P3E 410 GQ	3M™ Optime™ II Hearing Protector Attachment
H540P3E 413-SV	3M™ Optime™ III Hearing Protector Attachment
X1P3 / X1P3-OR	3M™ PELTOR™ Helmet Mounted Ear Muff (Green/Orange)
X2P3	3M™ PELTOR™ Helmet Mounted Ear Muff (Yellow)
X3P3	3M™ PELTOR™ Helmet Mounted Ear Muff (Red)
X4P3 / X4P3-OR	3M™ PELTOR™ Helmet Mounted Ear Muff (Bright Green/Orange)
X5P3	3M™ PELTOR™ Helmet Mounted Ear Muff (Black)
Z3AF/2	Adaptor for 3M™ PELTOR™ X-Series Range
MT53V/1	3M™ PELTOR™ Electret Microphone
MT7V/1	3M™ PELTOR™ Dynamic Microphone

Part number	Description
BT-20S/L	Lightweight breathing tube (Small/Medium or Medium/Long)
BT-30	Self-adjusting breathing tube
BT-40	Heavy duty breathing tube
M-973	Radiant heat cover for M-300
M-975	Radiant heat cover for M-400
M-961	Over visor frame
M-967	Gold over visor
BT-922	Disposable breathing tube cover
M-940	Mining lamp bracket kit
BT-927	Radiant heat breathing tube cover
BT-957	Storage plugs (for BT-20S/L, BT-30 and BT-40 breathing tubes)

Important Notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.

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