

EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Cain Road
Bracknell
RG12 8HT
United Kingdom

Holds Certificate Number:

CE 797915

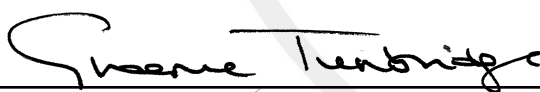
In respect of:

3M™ Versaflo™ V-100E Air Cooling Unit and V-200E Air Heating Unit Respirator Systems incorporating the following:

3M™ Versaflo™ S-133/S-333G, S-433/S-533, S-655/S-855E, S-657/S-757, S-665/S-865E, S-667/S-767, M-206/M-207, M-306/M-307 and M-406/M-407, 3M™ Speedglas™ Welding Helmet G5-01 and Welding Helmet G5-03 Pro Air to EN 14594:2018 Respiratory protective devices – Continuous flow compressed air line breathing apparatus.

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):


Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

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Effective Date: 2025-02-21

Expiry Date: 2028-11-14

Page: 1 of 11



EU Type Examination Certificate

No. CE 797915

Product Specification

Product type:	Continuous flow compressed air breathing apparatus incorporating a hood, faceshield or helmet. 3M™ Versaflo™ V-100E Air Cooling Unit and V-200E Air Heating Unit Respirator Systems incorporating the following:
Headtops:	3M™ Versaflo™ S-133/S-333G, S-433/S-533, S-655/S-855E, S-657/S-757, S-665/S-865E, S-667/S-767, M-206/M-207, M-306/M-307 and M-406/M-407, 3M™ Speedglas™ Welding Helmet G5-01 and Welding Helmet G5-03 Pro Air
Technical specification:	Harmonized European Standard: EN 14594:2018 Respiratory protective devices – Continuous flow compressed air line breathing apparatus
System components:	The major components of each system are a Headtop with a Breathing Tube, Waist Belt mounted Air Cooling Unit or Air Heating Unit and components for the feed of compressed air.
Breathing Tubes:	3M™ Versaflo™ headtops can be fitted with the BT-Series Breathing Tubes consisting of the BT-20S (lightweight, short / medium), BT-20L (lightweight, medium / long), BT-30 (self adjusting) or BT-40 (heavy duty rubber). The Breathing Tubes incorporate a quick release connector which allows easy connection/disconnection to the Headtops. 3M™ Speedglas™ welding helmets can be fitted with the 3M™ Breathing Tubes consisting of the 834016 (self-adjusting), 834017 (heavy duty rubber) and 834019 (self-adjusting). The Breathing Tubes incorporate a quick release connector which allows easy connection/disconnection to the welding helmets.

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Latest Issue: 2025-02-21

Effective Date: 2025-02-21

Expiry Date: 2028-11-14

Page: 2 of 11

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EU Type Examination Certificate

No. CE 797915

Product Specification (Continued)

Components common to all systems (cont):

Compressed Air Supply Tubes (CAST)

Description	Part Number	EN 14594 Classification with S-Series Headtops (S-133/S-333G, S-433/S-533)	EN 14594 Classification with S-Series Headtops (S-655/S-855E, S-657/S-757, S-665/S-865E, S-667/S-767)	EN 14594 Classification with M-Series Headtops	EN 14594 Classification with Welding Helmets
7.5m, coiled CAST	308-00-40P	3A	3A	3A	3A
10m, standard CAST	308-00-30P	3A	3B	3B	3B
30m, standard CAST	308-00-31P	N/A	3B	3B	3B
10m, antistatic, heat resistant CAST	308-00-72P	3A	3B	3B	3B

Note:

Class A systems must not exceed a CAST length of 10m. This includes the total length of connected CASTs.

Class B systems must not exceed a CAST length of 30m. This includes the total length of connected CASTs (i.e. 3 x 10m CASTs).

Compressed Air Couplings

Description	Part Number
Rectus 25 Plug	530-12-52P
Rectus 96KS Plug	530-12-53P
Rectus 95KS Socket and Plug	530-12-81P
Rectus 25 Socket and Plug	530-12-82P
Systems incorporating a V-100E Cooling Unit or V-200E Heating Unit	
Belts and Comfort Pads	
Description	Part Number
Comfort Pad	023-06-50P
Standard Belt	TR-325
Easy Clean Belt	TR-327

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Expiry Date: 2028-11-14

EU Type Examination Certificate

No. CE 797915

Headtops

Product name: **3M™ Versaflo™ M-206/M-207 Face shields**

Product type: The Versaflo M-206 and M-207 Headtops comprise of an Industrial Bump Cap type Face shield with a lift-up Visor/Face seal section incorporating either a clear coated or clear uncoated Visor. The models are identical except that as standard the M-206 and M-207 are fitted with Comfort and Flame-Resistant Face seals respectively. In use the Face seals are interchangeable.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001
Harmonized European Standard EN 812:2012

Non-respiratory protective characteristics of the 3M™ Versaflo™ M-206/M-207 Face shields

Product type: Visor / Surround

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

Visor / Surround	EN 166 Attribute	Marking Symbol
M-925 Visor (uncoated)	Optical class	1
	Protection against high speed particles, medium energy impact at extremes of temperature	BT
	Protection against molten metal and hot solids	9
M-927 Visor (coated)	Optical class	1
	Protection against high speed particles, medium energy impact at extremes of temperature	BT
M-920 Surround	Protection against high speed particles, medium energy impact at extremes of temperature.	BT
	Protection against droplets and splashes of liquids	3
	Protection against molten metal and hot solids	9

Technical specification: Harmonized European Standard: EN 812:2012 Industrial bump caps

Mandatory attributes plus following option:

Classification:	Option	Marking Symbol
	Electrical properties.	440 V (a.c.)

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Expiry Date: 2028-11-14

EU Type Examination Certificate

No. CE 797915

Headtops (Continued)

Product name: **3M™ Versaflo™ M-306/M-307 and M-406/M-407 Helmets**

Product type: The Versaflo M-306 and M-307 Headtops comprise of an Industrial Safety Helmet complete with a lift-up Visor/Face seal section incorporating either a clear coated or clear uncoated Visor and a Comfort or Flame-Resistant Face seal. The models are identical except that as standard the M-306 and M-307 are fitted with Comfort and Flame-Resistant Face seals respectively. In use the Face seals are interchangeable.

The Versaflo M-406 and M-407 Headtops comprise of an Industrial Safety Helmet complete with a lift-up Visor/Face seal section incorporating either a clear coated or clear uncoated Visor and a Comfort or Flame-Resistant Face seal. The models are identical except that as standard the M-406 and M-407 are fitted with Comfort and Flame-Resistant Face seals respectively. In use the Face seals are interchangeable.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001
Harmonized European Standard EN 397:2012+A1:2012

Non-respiratory protective characteristics of the 3M™ Versaflo™ M-306/M-307 and M-406/M-407 Helmets

Product type: Visor / Surround

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

Visor / Surround	EN 166 attribute	Marking Symbol
M-925 Visor (uncoated)	Optical class	1
	Protection against high speed particles, medium energy impact at extremes of temperature	BT
	Protection against molten metal and hot solids	9
M-927 Visor (coated)	Optical class	1
	Protection against high speed particles, medium energy impact at extremes of temperature	BT
M-920 Surround	Protection against high speed particles, medium energy impact at extremes of temperature.	BT
	Protection against droplets and splashes of liquids.	3
	Protection against molten metal and hot solids	9

Technical specification: Harmonized European Standard: EN 397:2012+A1:2012 Industrial safety helmets

Mandatory attributes plus following options:

Classification:	Option	Marking Symbol
	Lateral deformation	LD
	Electrical properties.	440 V (a.c.)

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Latest Issue: 2025-02-21

Expiry Date: 2028-11-14

EU Type Examination Certificate

No. CE 797915

Headtops (continued)

Product name: **3M™ Versaflo™ S-133 and S-333G**

Product type: Versaflo S-133 and S-333G Headtops are fabric Headcover/re-useable head suspension units incorporating a face seal and an integral clear Visor. The models share a common design but the fabric and Visor materials differ. The headtops are fitted with a visor manufactured from uncoated polycarbonate for S-133 and hard coated polycarbonate for S-333G. The Headtops are available in 2 sizes.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001

Size: S-133S, S-133L, S-333SG & S-333LG

Non-respiratory protective characteristics of S-133 and S-333G Headtops

Product type: Visor

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

EN 166 Attribute

Marking Symbol

Optical class
Protection against high speed particles, low energy impact
Protection against droplets and splashes of liquids

2
F
3

First Issued: 2023-11-15

Effective Date: 2025-02-21

Latest Issue: 2025-02-21

Expiry Date: 2028-11-14

Page: 6 of 11

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No. CE 797915

Headtops (continued)

Product name: **3M™ Versaflo™ S-433 and S-533**

Product type: The Versaflo S-433 and S-533 Headtops are fabric Headcover/re-useable head suspension units incorporating a face seal and an integral clear Visor. The models share a common design but the fabric and Visor materials differ. The headtops are fitted with a visor manufactured from uncoated polycarbonate for S-433 and hard coated polycarbonate for S-533. The Headtops are available in 2 sizes.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001

Size: S-433S, S-433L, S-533S & S-533L

Non-respiratory protective characteristics of S-433 and S-533 Headtops.

Product type: Visor

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

EN 166 Attribute

Optical class
Protection against high speed particles, Low energy impact
Protection against droplets and splashes of liquids

Marking Symbol

2
F
3

First Issued: 2023-11-15

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Effective Date: 2025-02-21

Expiry Date: 2028-11-14

Page: 7 of 11

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No. CE 797915

Headtops (continued)

Product name: **3M™ Versaflo™ S-655, S-665, S-855E and S-865E**

Product type:

The Versaflo S-655 and S-855E headtops are supplied to the user as a kit incorporating a hood (S-605 or S-805E). The hoods incorporate an inner neck collar, an integral clear visor and an outer shroud. The kit also includes a premium re-usable head suspension (S-950) that allows the end user to adjust the airflow distribution. An optional size reducing comfort pad can be fitted to meet the needs of a global user group.

The Versaflo S-665 and S-865E headtops can be achieved via conversion of S-655 and S-855E headtops respectively. This is completed by replacing the premium reusable head suspension (S-950) with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700). Alternatively, S-605 or S-805E hoods can be fitted directly with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700) to become S-665 and S-865E respectively

The models share a common design but the fabric and visor materials differ. The hoods are fitted with a visor manufactured from polycarbonate for S-605 and hard coated polycarbonate for S-805E.

The S-665 and S-865E headtops meet the mechanical requirements of EN 397:2012+A1:2012.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001

Non-respiratory protective characteristics of S-655, S-665, S-855E and S-865E Headtops.

Product type: Visor

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

EN 166 Attribute		Marking Symbol
Optical class		2
Protection against high-speed particles, low energy impact		F
Protection against droplets and splashes of liquids		3
First Issued: 2023-11-15	Effective Date: 2025-02-21	
Latest Issue: 2025-02-21	Expiry Date: 2028-11-14	

No. CE 797915

Headtops (continued)

Product name: **3M™ Versaflo™ S-657, S-667, S-757 and S-767**

Product type:

The Versaflo S-657 and S-757 headtops are supplied to the user as a kit incorporating a hood (S-607 or S-707). The hoods incorporate an inner shroud, an integral clear visor and an outer shroud. The kit also includes a premium re-usable head suspension (S-950) that allows the end user to adjust the airflow distribution. An optional size reducing comfort pad can be fitted to meet the needs of a global user group.

The Versaflo S-667 and S-767 headtops can be achieved via conversion of S-657 and S-757 headtops respectively. This is completed by replacing the premium re-usable head suspension (S-950) with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700). Alternatively, S-607 and S-707 hoods can be fitted directly with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700) to become S-667 and S-767 respectively.

The models share a common design but the fabric and visor materials differ. The hoods are fitted with a visor manufactured from polycarbonate for S-607 and coated polycarbonate for S-707.

The S-667 and S-767 headtops meet the mechanical requirements of EN 397:2012+A1:2012.

Technical specification: Harmonized European Standard EN 14594:2018
Harmonized European Standard EN 166:2001

Non-respiratory protective characteristics of S-657, S-667, S-757 and S-767 Headtops.

Product type: Visor

Technical specification: Harmonized European Standard: EN 166:2001 - Personal eye protection

EN 166 Attribute	Marking Symbol
Optical class	2
Protection against high-speed particles, low energy impact	F
Protection against droplets and splashes of liquids	3

First Issued: 2023-11-15	Effective Date: 2025-02-21
Latest Issue: 2025-02-21	Expiry Date: 2028-11-14

EU Type Examination Certificate

No. CE 797915

Product name: **3M™ Speedglas™ Welding Helmet G5-01 and Welding Helmet G5-03 Pro Air**

Eye and face protection classifications: Classification information not presented here as the 3M range of Automatic Darkening Welding Filters and Outer and Inner Protection Plates required for use with the systems to provide eye and face protection for welding and allied processes have been independently certified.
The Welding Shield has been independently certified.

Technical specification: Harmonized European Standard EN 14594:2018

Packaged variants:

In addition to the products referenced on this Certificate, the standard products may also be sold as market specific packaged variants. Such variants will be differentiated, and the Technical File(s) will be updated with the appropriate information.

Kits and packouts:

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product, but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

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Effective Date: 2025-02-21
Expiry Date: 2028-11-14

EU Type Examination Certificate

No. CE 797915

Certificate Administration Details:

Technical file reference:

System Component	Technical File
3M Versaflo V-100E Air Cooling and V-200E Air Heating units	TF0710
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Versaflo M-206/M-207, M-306/M-307 and M-406/M-407	TF0705
3M Versaflo S-133/S-333G, S-433/S-533, S-655/S-855E, S-665/S-865E and S-657/S-757, S-667/S-767	TF0706
3M Speedglas G5-01	TF0668
3M Speedglas G5-03 Pro Air	TF0702
3M 834016, 834017 and 834019 Breathing Tubes	TF0672

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
November 2023	First issue.	2797:23:30010704
June 2024	Addition of M-925 Visor	2797:24:30121450
July 2024	Addition of the 3M™ Speedglas™ welding helmet G5 series.	2797:24:30189393
October 2024	Addition of Class 3B for 30m CAST on S-855E system.	2797:24:30210916
February 2025	Addition of S-665, S-667, S-767 and S-865E headtops and classifications. Addition of Technical File References TF0137, TF0668, TF0702 and TF0672.	2797:25:30337621

Certificate validity.

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to so do could invalidate the Certificate in respect of production following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

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