

3M™ Speedglas™ Welding Safety
Product Catalogue 2016

NEW 3M™ ADFLO™
HEAVY DUTY SERIES

 **Speedglas™**



Step Up

to

Speedglas

3M Science.
Applied to Life.™

Empowering information

Welcome to our comprehensive guide to eye, face, head, hearing and respiratory protection for welders.

In this guide we have compiled our welding helmets, respirator systems, accessories, spare parts and technical data into one handbook for your easy reference.

We are proud to empower welders to select the optimised combination of 3M personal protective equipment for their improved safety, comfort and long-term health.

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New Products:



◀ 3M™ Speedglas™ Quick Release Rail System (QR)

No more welding without head protection. And no more wearing a welding helmet when you don't need it. Read more on **page 14**.



▶ 3M™ Speedglas™ Welding Lens 9100XXi

New welding lens changes the way welders see. The lens allows the welder to recognise more colour and contrast in every weld. Plus a new silver front with external controls allows easy access to grinding and memory modes. Read more on **page 6**.

 **Speedglas™**



More than 35 years ago, we went to the shipyards of Sweden to study the welder's working situation. We watched skilled craftsmen blindly striking arcs as they continually nodded their helmets down. Since then, the 3M™ Speedglas™ brand has been committed to developing welding helmets that will forever change the world of the welder. From the first groundbreaking auto-darkening welding helmet in 1981 to our current state-of-the-art welding safety products, we continue to revolutionise your world.

Inspired by welders

We have a passion for welding and we know the challenges of your profession. We share the pride and focus you put into your work to address the ergonomic and safety issues facing you every day. Your thoughts and opinions are what inspire our continuous search for innovation. Influenced by your reality, we shape the future of welding so you can get on with the job of shaping ours.



**NEW 3M™ ADFLO™
HEAVY DUTY SERIES**

◀ **3M™ Adflo™ Powered Air Respirator**

The new award winning Adflo PAPR is now 15% lighter and features Rapid Charge (RC). The system recharges from 0-80% in approximately one hour. Further details on [page 16](#).



Step up to Speedglas 9100

- Made in Sweden with every lens checked by hand
- Market leading optical quality with the largest viewing area available*
- Advanced TST (TIG Sensor Technology) down to an industry leading 1 Amp
- Superior comfort, balance and stability
- Compliant with all relevant Australian & New Zealand Standards
- Increased coverage and protection
- Flip-up functionality with clear protective visors
- Powered or supplied air respirator welding helmet options
- Safety helmet and integrated hearing protection options

*The Speedglas Welding Lens 9100XXi combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available at the time of printing.

3M™ Speedglas™ Welding Helmet Series 9100

Ultimate
Performance

3M™ Speedglas™ Welding Helmet Series 9100 – our top-of-the-line safety platform for professional welders

In the product development process for our 4th generation of 3M™ Speedglas™ Welding Helmets, we systematically studied welders to identify global customer needs of a welding helmet. The result was

a long list of welding helmet concerns important to the welder, where the three highest ranked became key factors applied in each model within the 3M™ Speedglas™ Welding Helmet Series 9100.



High-performing products for high-performing people

The 3M™ Speedglas™ Welding Helmet Series 9100 includes six welding helmet models offering many options, including flip-up grinding visors, safety helmets, and respirator systems. If you haven't experienced these innovations in welding protection, call AWS on +61 (0) 2 9439 0111 for a hands-on demonstration.





Watch the 9100XXi video series at
www.speedglas.com.au

An entire suite of improvements – putting the “i” in 9100XXi.



Introducing the new 3M™ Speedglas™ Welding Helmet Series 9100XXi. The Speedglas 9100XXi offers True-View combined with the largest viewing area on the market* that includes SideWindow peripheral vision.

Thanks to improved optics, True-View allows you to more readily recognise colours and contours. Literally see the difference when you focus on your welding set-up, welding technique, precision grinding, and inspection of just-completed welds.

A new motion-sensor instantly turns the welding lens ON and with the advanced Set-and-Forget feature you never need to touch the internal control panel again.

Experience the power of 9100XXi, capable of detecting an arc down to an industry leading 1 amp.

True-View: Clearly more Colourful!

The difference is easy to see. Yes, in light state it is still shade 3! But what you see through the lens appears lighter, more detailed and colourful. In fact, the improved welding lens optics can make your entire viewing experience feel more natural. When combined with the Speedglas peripheral SideWindows you experience a view like no other...



“The view seems lighter and less green – I can see colours far better! Even in the dark state, I see contours better.”

Veteran Welder

*The Speedglas welding lens 9100XXi when combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available on the Australian & New Zealand market at the time of printing.



Introducing Set-and-Forget

Push the external button* for 2-3 seconds to load one of your two available preset welding modes. Once set, the memory mode retains its own individual setting for dark shade, light-to-dark switching sensitivity, and dark-to-light delay. Once both are set, by just pushing and holding the external button for 2-3 seconds, you can switch between your two preset modes. For example, you can switch between low-amp TIG and high-amp MIG welding settings at the press of a button.

One-Touch to Grind

Your helmet is ON, your shield is down...and with a quick push of an external button*, you are locked into shade 3, ready to grind. Another push and you're ready to weld again. You don't even have to take off a glove!

Grab-and-Go with Auto-ON

Every time you pick up the welding helmet, the 9100XXi welding lens immediately turns ON to your latest welding setting. And it automatically turns itself OFF after a period of non-movement.



*The external button is not available on the 3M™ Speedglas™ Welding Helmet 9100 FX and 3M™ Speedglas™ Welding Helmet 9100 MP. To grind on these systems you simply lift the flip-up mechanism. The memory mode is not accessible on these platforms.

3M™ Speedglas™ Welding Helmet Series 9100

Excellent optics, bigger views

The 3M™ Speedglas™ Welding Helmet Series 9100 continues our tradition of outstanding optical quality, including uniform shading and minimal distortion across the entire lens viewing area. By selecting just the right setting for each task, you reduce eye strain and improve the quality of every weld.

- Seven dark shades, including 9–13 (variable), 5 for gas welding/cutting, and 8 for micro-plasma or low-amp TIG.
- Outstanding low-amp TIG performance, even on settings as low as 1 amp.
- Any shade can be “locked-in.” For example, you can lock-in the light state shade 3 for grinding.



Magnification made easy. The magnifying lens holder is built into the welding lens, making lens installation easier and more secure.

Increase your viewing area to 73x107mm + SideWindows.

Seven user selectable dark shades for most types of arc welding.

Backed by a three year warranty*.

Replaceable outside and inside cover lenses are easily locked into place.

The delay function allows you to set the dark-to-light switching time.

Conforms to Australian & New Zealand Standard for Eye Protection AS/NZS1338.1.

You can adjust the sensitivity of the arc detection for unsurpassed switching reliability.

*3M and Australian Welding Supplies Pty Ltd (AWS) warrants that the Auto-Darkening Welding Lens (ADL) will be free of defects in workmanship and materials for a period of three (3) years from date of purchase. The warranty excludes failure resulting from improper use or modification of the ADL and factors beyond the control of AWS. Except where prohibited by law, AWS and 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted. In the case of a warranty claim, a copy of the receipt with date of purchase, along with a description of the fault must be enclosed. This warranty is provided in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be acceptable quality and the failure does not amount to a major failure.

3M™ Speedglas™ Welding Helmet Series 9100

The head harness that shapes to your head

3M™ Speedglas™ Welding Helmet Series 9100 features a highly adjustable, comfortable head harness. The outside of the human head is lined with nerve-endings, arteries, and acupressure points; applying pressure to some of these areas actually makes a person feel fatigued. The head harness

specifically avoids these vulnerable areas. It provides multiple adjustment combinations so you can “tailor” the helmet to fit your personal preferences and comfort setting. Less pressure - and a perfectly-adjusted, personal fit - means more comfort, all day long.

Fits head sizes 500 to 640 mm.

Smooth ratchet for precise tightening.

Swivelling, self-adjusting back strap accommodates a cap worn backwards.



Two adjustable crown straps distribute weight for better stability and balance.

Self-adjusting “twin pads” contour to your head.

Snag-resistant knobs for adjusting the helmet’s pivot resistance (right) and parked position (left) - even while wearing gloves.

You can adjust the helmet’s angle while wearing the helmet on your head.

More comfortable when raised

In the raised position, the Speedglas 9100 series helmet’s “high point” is comparatively lower than other head harness solutions which means that it is closer to the head delivering superior balance. Improvements in balance means that the head harness does not need to be tightened as much and the helmet feels lighter.

Parked position

The smooth up-and-down pivot action can be “locked” in the up position - a light pull lowers the helmet back down again.



3M™ Speedglas™ Welding Helmet 9100XXi

Ultimate Performance

With the new 9100XXi features including True-View, Set-and-Forget, Grab-and-Go and One-Touch, the Speedglas 9100 Welding Helmet is in a class of its own.



reddot design award
best of the best 2009



product design award

2009



High comfort head harness with two crown straps for optimum balance.



Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

3M™ Speedglas™ Welding Lens 9100XXi with True-View for crisp colour and contrast.

SideWindows: Shade 5 windows widen your field of vision to give you the largest viewing area on the market*.

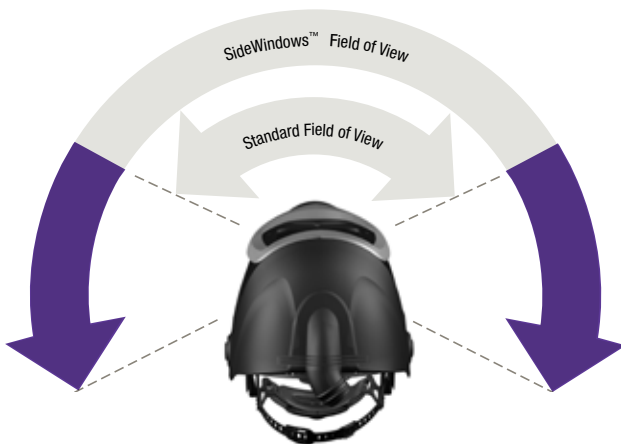
Lens reacts down to an industry leading 1 amp.

Heat reflecting silver front with external button for grind and welding memory settings.

Auto-On and equipped with the all-important centre sensor for TIG welding.

Extended-length, flame-resistant head, neck and ear protection available as accessories.

Increased coverage for ears and neck.



No more tunnel vision: previously hidden peripheral hazards are now visible through two, shade 5 side lenses with conventional shade 13 UV protection.

Magnifying lens holder: provides precise lens placement.

Exhaust vents: direct your exhaled air out of the helmet, reducing the likelihood of a foggy welding lens.



*The Speedglas welding lens 9100XXi when combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available on the Australian & New Zealand market at the time of printing.

3M™ Speedglas™ Welding Helmet 9100XXi Air

Respiratory Protection

All of the benefits of the Speedglas welding helmet 9100XXi can now be used in combination with the 3M™ Adflo™ powered air respirator or 3M™ Versaflo™ supplied air regulator V-500E.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

3M™ Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.

Heat reflecting silver front with external button for grind and welding memory settings.

The all-new face seal follows the contours of both the helmet and your face.

The airduct is an integral part of the helmet, providing a refreshing flow of air across the entire breathing zone of the helmet.



High comfort head harness with two crown straps for optimum balance.

SideWindows: Shade 5 windows widen your field of vision to give you the largest viewing area on the market*.

An innovative quick-release attachment enables one-handed breathing tube connection and release.



Airflow: The middle channel keeps the welding lens fog-free, while two side channels provide smoothly delivered air to your nose and mouth.



Extended protection: A flame-resistant headcover (used in this application) and ear/neck protection are available as accessories to all Speedglas 9100 series welding helmets.

3M™ Speedglas™ Welding Helmet 9100XXi FX



Flip-up Helmet Functionality

Introducing the Speedglas welding helmet 9100 FX, a flip-up combination of an auto-darkening welding helmet and a protective visor. Not only is the viewing area larger

compared to previous models, we totally redesigned the geometry of the helmet for a wider field of view in all directions.

3M™ Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.



High comfort head harness with two crown straps for optimum balance.

Smooth flip-up function with curved 170x100 mm clear grinding visor.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



Lens reacts down to an industry leading 1 amp.

The entire helmet can also be 'locked' in the perfectly balanced, up, parked position.

SideWindows: Shade 5 windows widen your field of vision to give you the largest viewing area on the market*.

Exhaust vents to assist in removing exhaled air.



The award winning 9100 FX flip-up welding helmet is perfectly balanced both in ergonomics and functionality. The balanced combination of welding helmet and grinding visor that sits perfectly balanced for a comfortable all-day wear.



A spark and spatter-resistant head cover is included as standard in all 9100 FX & FX Air series welding helmets. An optional extended-length head cover and ear/neck protection are available as accessories.

*The Speedglas welding lens 9100XXi when combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available on the Australian & New Zealand market at the time of printing.

3M™ Speedglas™ Welding Helmet 9100XXi FX Air

Flip-up Helmet with Respiratory Protection

All of the benefits of the Speedglas welding helmet 9100 FX can now be used in combination with the 3M™ Adflo™ powered air respirator or 3M™ Versaflo™ supplied

air regulator V-500E. Workers can have integrated face, eye and respiratory protection - whether they are grinding, welding, or simply walking through a work zone.

3M™ Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.



High comfort head harness with two crown straps for optimum balance.

Smooth flip-up function with curved 170x100 mm clear grinding visor.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



Lens reacts down to an industry leading 1 amp.

The breathing tube is attached to the head harness instead of the helmet for improved comfort and balance.

SideWindows: Shade 5 windows widen your field of vision to give you the largest viewing area on the market*.

An innovative quick-release attachment enables one-handed breathing tube connection and release.



To achieve a higher level of respiratory protection, air is supplied directly to the breathing zone. A diffuser broadens and reduces the speed of the airflow for your maximum comfort.



A quick lift of the silver front and you get a clear, big, 170 x 100 mm view — perfect for precision grinding in low light conditions, while maintaining your respiratory protection.

3M™ Speedglas™ Welding Helmet 9100XXi QR

NEW

Quick Release: Flexible & Comfortable

Now you never need to remove your safety helmet as you attach and detach the welding helmet! If you prefer to keep the welding helmet attached, it is quickly parked in the raised position.

This parked position creates a low centre of gravity, reducing the forces on your neck while allowing you to move around more easily thanks to the low profile.

Even with a gloved hand, you can easily attach or remove the 3M™ Speedglas™ Welding Helmet 9100-QR.

The Quick Release (QR) Rail allows you to attach the Speedglas auto-darkening welding helmet 9100-QR to many of the industry's safety helmets.



Designed from inception to accommodate 3M™ Peltor™ Earmuffs (Class 5).



3M™ Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.

Lens reacts down to an industry leading 1 amp.

SideWindows: Shade 5 windows widen your field of vision to give you the largest viewing area on the market*.

Exhaled air is channelled out via side exhaust vents.



Simply squeeze to attach or remove the welding helmet. You never need to remove your safety helmet.



To view videos and learn more about Speedglas Quick Release welding helmets, visit:

www.speedglas.com.au

or scan this QR-code:



*The Speedglas welding lens 9100XXi when combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available on the Australian & New Zealand market at the time of printing.

3M™ Speedglas™ Welding Helmet 9100XXi MP Air

Multi-Protection: Head, Eye, Face, Respiratory and Hearing

Introducing the Speedglas welding helmet 9100 MP Air, a flip-up combination of an auto-darkening welding helmet, a protective visor and a safety helmet.

The Speedglas welding helmet 9100 MP Air can be used in combination with the 3M™ Adflo™ powered air respirator or the 3M™ Versaflo™ supplied air regulator V-500E.



The world's leading brand in personal protective equipment for welders - 3M Speedglas - teams up with 3M Peltor to deliver AS/NZS1270 compliant hearing protection.





New Upgrades

The upgraded Adflo™ powered air respirator has been reduced in weight by over 15%. The new Adflo lithium-ion batteries (standard & heavy duty) charge from 0 to 80% of their full capacity in approximately one hour.

NEW

Now with one hour rapid charge.

NEW

40% lighter standard and heavy duty battery.

NEW

Over 15% lighter Adflo powered air respirator system.

NEW

Self-adjusting quick release swivel (QRS) breathing tube for one handed connection and release.

NEW

Matte black finish on the Adflo filter cover for increased durability.

NEW

New 3M™ Adflo™ heavy duty (HD) Series now available.

3M™ Speedglas™ Powered & Supplied Air

“Trusted by
Welders”

NEW

Cooler, cleaner and more comfortable welding

Built Specifically for Welders

Since its launch, 3M™ Adflo™ powered air respirator has become one of the most popular powered air respirators in the world. With its smart, compact design, the award-winning Adflo respirator is specifically designed to meet your welding needs.

Protection and Comfort

By using the Adflo respirator, you get both increased protection and comfort all day long. Continuous airflow provides filtered air that takes much of the heat and sweat out of welding.

An Adaptable System that Saves Money

With the right type of filter, the Adflo respirator effectively protects against both particles and gases. Because you can selectively replace either the particle or the gas filter as needed, you don't need to change both filters at the same time.

Full Mobility

The slim profile is perfect for use in tight spaces. Its ergonomics are based on the welder's need for lightweight, adaptable and easy-to-use respiratory protection.



Constant Flow of Clean Air

The airflow is always a constant nominal rate of 170 litres per minute, regardless of the battery's charge or the particle loading of the filter. For hot, humid jobs, you can increase the airflow to 200 litres per minute by simply pushing the ON button a second time.

Because You Only Have One Set of Lungs

The Adflo respirator complies with Australian and New Zealand standard AS/NZS1716 for powered air respirators and offers a Required Minimum Protection Factor (RMPPF) of 50 for mechanically and thermally generated particles.

NEW 3M™ ADFLO™ HEAVY DUTY (HD) SERIES NOW AVAILABLE



The new 3M™ Adflo™ HD Series features the new super lightweight Heavy Duty battery which can extend battery operating time to 12 hours. This can give the welder an extra 4 hours over the standard systems. The HD series also features new One Hour Rapid Charge (0 to 80% charge in an hour).

Technical Data	3M™ Adflo™ PAPP
Approvals Respiratory Protection	Conforms to AS/NZS1716
Required Minimum Protection Factor (RMPPF)**	50
Airflow Standard Airflow Plus	170 litres/minute 200 litres/minute
Weight Respirator	960 grams
Battery: Charging time Operating hours	Li-ion with rapid charge (0-80% in an hour*) 4.5 hours (standard), 5.5 hours (heavy duty) 8 hours (standard), 12 hours (heavy duty)
Noise level dB	Max 75 dB
Belt	Leather 75-115cm

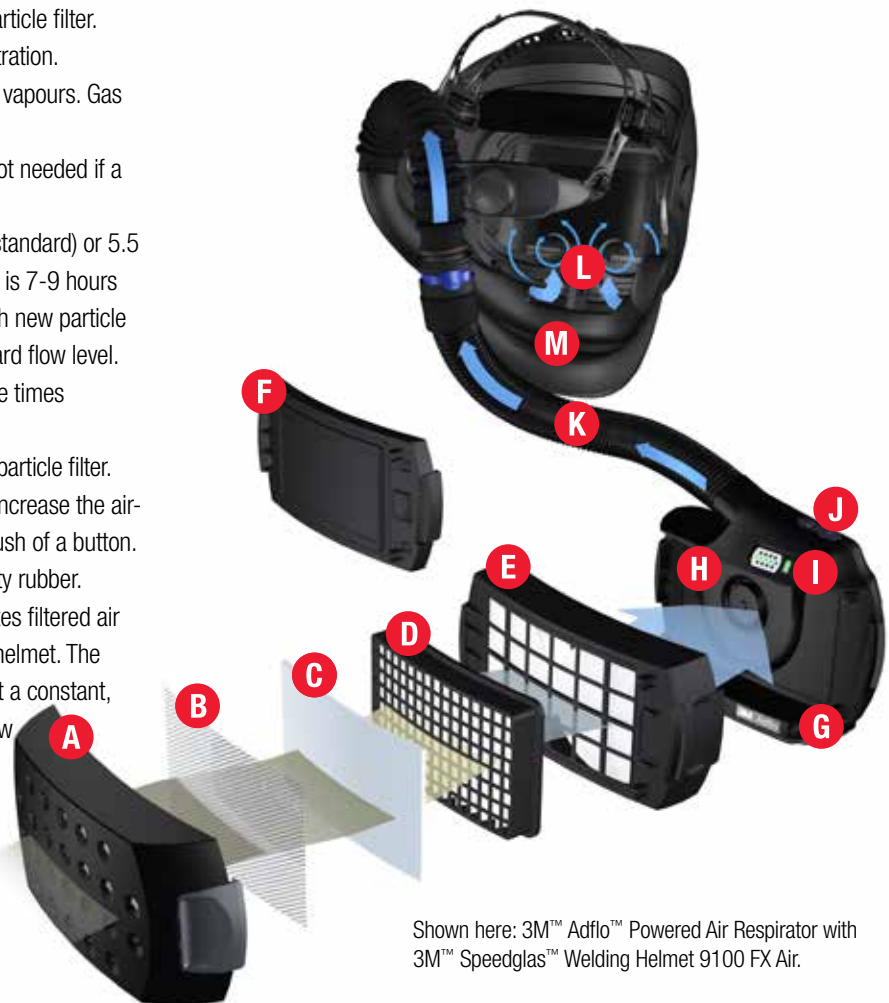
Gas and odour filters available as an optional extra.

* Standard battery will be 80% charged (6.4 hours run time) in approximately one hour.

Heavy duty battery will be 80% charged (9.6 hours run time) in approximately one hour.

** For mechanically and thermally generated particles.

- A Filter cover:** holds the spark arrestor and filters.
- B Spark arrestor.**
- C Prefilter:** increases the service life of the particle filter.
- D Particle filter:** high efficiency particulate filtration.
- E Gas filter:** (A1) captures organic gases and vapours. Gas filters sold separately.
- F Odour filter:** removes unpleasant smells (not needed if a gas filter is installed); sold separately.
- G Li-ion battery:** fully charges in 4.5 hours (standard) or 5.5 hours (Heavy Duty). Expected operating time is 7-9 hours (standard) and 11-13 hours (heavy duty) with new particle filter, new fully-charged battery and a standard flow level.
- H Brushless motor:** with an average life three times longer than conventional motors.
- I Filter Indicator:** indicates the status of the particle filter.
- J Airflow Plus:** for hot, humid jobs, you can increase the air flow from 170 l/min to 200 l/min with the push of a button.
- K Breathing tube:** self-adjusting or heavy duty rubber.
- L Exclusive airflow pattern:** evenly distributes filtered air throughout the entire breathing zone of the helmet. The intelligent turbo unit keeps the airflow rate at a constant, preset level. A diffuser spreads out the airflow pattern for your maximum comfort.
- M Soft, flexible face seal (removed here for clarity):** creates a positive pressure environment within the helmet, keeping the surrounding pollutants at bay.



Shown here: 3M™ Adflo™ Powered Air Respirator with 3M™ Speedglas™ Welding Helmet 9100 FX Air.



3M™ Versaflo™ Supplied Air Regulator V-500E

Your Welding Environment

The Versaflo™ supplied air regulator V-500E is a lightweight, belt-mounted regulator that allows you to adjust the airflow from 170 litres per minute to 305 litres per minute. The high, constant flow rate makes the V-500E regulator ideal for hot and strenuous welding conditions when used with the 3M™ Speedglas™ welding helmet 9100 Air, 3M™ Speedglas™ welding helmet 9100 FX Air and 3M™ Speedglas™ welding helmet 9100 MP Air.

Connects to Breathable Air Hoses

The belt-mounted regulator connects to an approved breathable air hose with a new quick-release connection. The airline supply must be air of breathable quality meeting the performance standards of AS/NZS1716. Oil, mist, water vapour or non-toxic, unpleasant odours can be removed with a breathing air filtration system.

Respirator Standards

The Versaflo regulator V-500E complies to Australian and New Zealand standard AS/NZS1716 for supplied air respirators and delivers a Required Minimum Protection Factor (RMPF) of 100+.



Innovative & Quiet

The Versaflo regulator V-500E features an integrated low flow warning whistle and a silencer that reduces the regulator's noise level to less than 65 dBA - the equivalent of a typical conversation. The regulator unit can be positioned on the belt to accommodate right and left handed users and a swivelling bayonet connector allows the breathing tube to move freely to the most comfortable position.



Lightweight with high flow rates.

Technical Data	3M™ Versaflo™ SAR V-500E
Approvals Respiratory Protection	Conforms to AS/NZS1716
Required Minimum Protection Factor (RMPF)	100+
Airflow Nominal Pressure Range Maximum Pressure	170-305 litres/minute 3.5-8 bar 10 bar
Weight	514 grams
Noise Level dB	Max 65 dB
Feeder Hose	Conforming to AS/NZS1716
Inlet and auxiliary port	1/4 inch BSP thread
Carbon filter available to remove odours.	

Part Numbers - Welding Helmets



Use the product selector mobile app to select a helmet best suited to your specific needs.



3M™ Speedglas™ Welding Helmet 9100XXi

Eye Protection - AS/NZS1338.1, Face Protection - AS/NZS1337.1 (High Impact),

Part no:

501826 Speedglas™ welding helmet 9100XXi

NEW

501826R Speedglas™ welding helmet 9100XXi with welding respirator starter kit (page 41)



3M™ Speedglas™ Welding Helmet 9100XXi Air with Respiratory Protection

Eye Protection - AS/NZS1338.1, Face Protection - AS/NZS1337.1 (High Impact),
Respiratory Protection - AS/NZS1716

Part no:

507726 with 3M™ Adflo™ powered air respirator

NEW

507726HD with 3M™ Adflo™ powered air respirator with heavy duty battery

508826 with 3M™ Versaflo™ supplied air regulator V-500E



PREMIUM SPEEDGLAS BAG INCLUDED!



3M™ Speedglas™ Flip-Up Welding Helmet 9100XXi FX

Eye Protection - AS/NZS1338.1, Face Protection - AS/NZS1337.1 (High Impact),
Optional Head Protection AS/NZS1801

Part no:

541826 Speedglas™ welding helmet 9100XXi FX

543826 Speedglas™ welding helmet 9100XXi FX with safety helmet



3M™ Speedglas™ Flip-Up Welding Helmet 9100XXi FX Air with Respiratory Protection

Eye Protection - AS/NZS1338.1, Face Protection - AS/NZS1337.1 (High Impact),
Respiratory Protection - AS/NZS1716

Part no:

547726 with 3M™ Adflo™ powered air respirator

NEW

547726HD with 3M™ Adflo™ powered air respirator with heavy duty battery

548826 with 3M™ Versaflo™ supplied air regulator V-500E



PREMIUM SPEEDGLAS BAG INCLUDED!

Part Numbers - Welding Helmets



3M™ Speedglas™ Welding Helmet 9100XXi QR

Eye Protection - AS/NZS1338.1, Head Protection AS/NZS1801, Optional Hearing Protection - AS/NZS1270

Part no:

503626 Speedglas™ welding helmet 9100XXi QR with safety helmet

502626 Speedglas™ welding helmet 9100XXi QR exc safety helmet

995X4P3GE Optional 3M™ Peltor™ earmuffs (SLC80 27dB Class 5)



3M™ Speedglas™ Flip-Up Welding & Safety Helmet 9100XXi MP Air with Respiratory Protection

Eye Protection - AS/NZS1338.1, Face Protection - AS/NZS1337.1 (High Impact), Respiratory Protection - AS/NZS1716, Head Protection AS/NZS1801, Optional Hearing Protection - AS/NZS1270

Part no:

577726 with 3M™ Adflo™ powered air respirator

NEW

577726HD with 3M™ Adflo™ powered air respirator with heavy duty battery

578826 with 3M™ Versaflo™ supplied air regulator V-500E

197011 Optional 3M™ Peltor™ earmuffs (SLC80 25dB Class 4)



PREMIUM SPEEDGLAS BAG INCLUDED!

Technical Data - Welding Lens 9100XXi



Technical data 3M™ Speedglas™ Welding Lens 9100XXi

Viewing area	73 x 107 mm	Dark states	Shades 5, 8, 9–13
Battery life time	1800 hours	Fail-safe shade	Shade 5
Battery type	2 x CR2032 (Lithium 3V)	UV/IR Protection	Shade 13 protection in all states.
Classification	1 / 1 / 1	Delay (dark-to-light)	Adjustable from 40 to 800 ms
Light state	Shade 3	Grinding state*	Shade 3

*Grinding state not available in 9100 FX & MP platforms. To grind on these systems, simply lift the flip-up mechanism.

Part Numbers - Upgrade Kits

3M™ Speedglas™ Welding Lens 9100XXi Upgrade Kits



For existing 3M™ Speedglas™ 9100 welding helmet customers looking to upgrade to the Speedglas 9100XXi welding lens.

Part no:

50 01 26 Speedglas 9100XXi lens and silver cover upgrade kit**

50 00 26 Speedglas 9100XXi lens only

**500126 upgrade kit only compatible with non flip-up platforms. Not suitable for 9100 FX, 9100 FX Air or 9100 MP.

3M™ Speedglas™ Welding Helmet 9100XXi Adflo PAPER Upgrade Kits



For existing 3M™ Adflo™ PAPER customers looking to upgrade their headtop. Kit comes complete with the Speedglas™ 9100XXi lens, breathing tube, carry bag and the headtop of your choosing -

Part no:

50 90 26 Speedglas 9100XXi Air upgrade kit

54 90 26 Speedglas 9100XXi FX Air upgrade kit

57 90 26 Speedglas 9100XXi MP Air upgrade kit



**PREMIUM SPEEDGLAS
BAG INCLUDED!**

3M™ Adflo™ PAPER Upgrade Kits

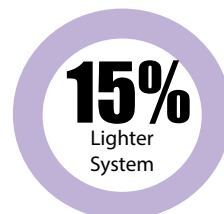
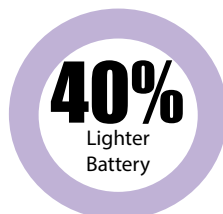
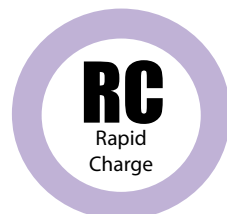


For existing 3M™ Adflo™ PAPER customers looking to upgrade to Rapid Charge and a 40% lighter battery. Kit comes complete with the new Adflo lithium-ion battery and rapid charger.

Part no:

83 76 30C Standard lithium-ion battery with rapid charger

83 76 31C Heavy duty lithium-ion battery with rapid charger





The Swedish All-Rounder

- Made in Sweden with every lens checked by hand
- Quality Speedglas graphics with industry leading styles
- Advanced TST (TIG Sensor Technology)
- Super lightweight for all day comfort and narrow profile for tight spaces
- Compliant with all relevant Australian & New Zealand Standards
- Safety helmet and integrated hearing protection options
- Three year warranty on welding lens

3M™ Speedglas™ Graphic Welding Helmet Series 100

“Image is

Everything”

3M™ Speedglas™ Welding Helmet Series 100

Upgraded Features

Speedglas welding helmet series 100 is equipped with industry leading features to bring you high-end performance at a low-end price.

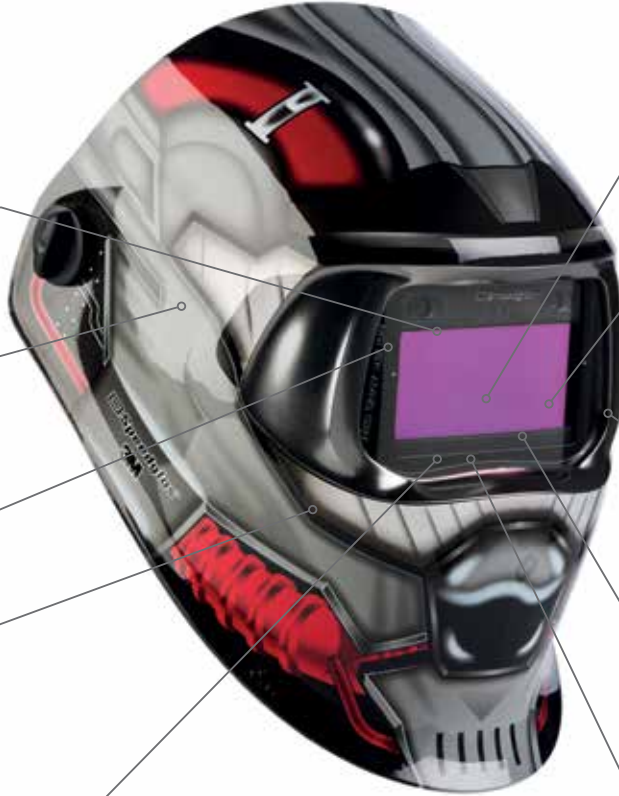
Appropriate for most arc welding processes, including Stick, MIG and TIG welding.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Dark shade can be increased to 13 or 14 using upgrade plates.

Quality Speedglas graphics.

Made in Sweden backed by a three year warranty.



New Upgrades

NEW

Now with advanced TST (TIG Sensor Technology).

NEW

Shade 3 sensitivity setting for grinding.

NEW

Improved head harness with smooth ratchet mechanism for precise tightening and comfort.

NEW

Built-in holder for magnifying lenses. Attaching the lens is easier and the fit is more accurate.

NEW

New delay function allows you to set the dark-to-light opening time.



New Ratchet Head Harness

The new Speedglas welding helmet series 100 head harness provides comfort and adaptability. Featuring a smooth ratchet mechanism and multiple adjustment points, the head harness provides a customised fit.



Powerful New Welding Lens

Speedglas welding lens 100V is equipped with five adjustable dark shades: 8-12, a light shade of 3, three sensitivity settings, two delay settings and a new grind mode. Versatility at your fingertips.

3M™ Speedglas™ Welding Helmet Series 100

Graphic Series

Speedglas welding helmet series 100 delivers legendary Speedglas optical clarity and protection with distinctive graphic designs. Make an impact - choose from the graphics below.



Ninja
751120



Trojan Warrior
751620



Aces High
751720



Xterminator
752220



Razor Dragon
752420



Ice Hot
752520



Raging Skull
752620



Combat
752720



NEW
Quick Release (QR)
753620

New Head Protection Option

With the rail installed, you can easily detach the welding helmet so your safety helmet stays in place for non-welding tasks. The Quick Release (QR) Rail attaches to many of the industry's safety helmets.

100S-11 Single Shade 11

Black only - 751111

The Speedglas welding helmet series 100 also features a single shade 11 black welding helmet.



Technical Specification	3M™ Speedglas™ Welding Lens 100V
Approvals Eye protection Face protection Optional Head protection	Conforms to AS/NZS1338.1 AS/NZS1337 AS/NZS1801
Rated for	Stick, MIG, TIG >10 amps and grinding
Switching time, light-dark	0.1 ms @ 23°C
Switching time, dark-light	40 - 250 ms
UV / IR protection	Shade 12 (permanent)
Viewing area	44 x 93 mm
Light state	Shade 3
Dark state	Shade 8-12 (variable)
Battery lifetime	1500 hours



3M™ Versaflo™ High Impact Headtop, M-Series

“The Power to Protect
Your World”

3M™ Versaflo™ High Impact Headtop, M-Series

With Respiratory Protection

The Versaflo M-Series headtops are lightweight, compact and well-balanced and offer integrated eye, face and respiratory protection with optional head and hearing protection.

The M-Series helmet can be used in combination with the 3M™ Adflo™ Powered Air Respirator or the 3M™ Supplied Air Regulator V-500E.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



Designed from inception to accept 3M™ Peltor™ H31 Earmuffs.

Coated visor provides added chemical and scratch resistance.

New visor design combines excellent peripheral and downward vision with premium optical quality.

The safety helmet is made from heat resistant polycarbonate and conforms to Australian and New Zealand standard AS/NZS1801 for head protection.

Fully adjustable head harness that includes straps for an optimal fit and improved weight distribution.

Features a flame resistant polyester faceseal for applications with hot particles.



Available as a respiratory protection faceshield with high impact visor or alternately, respiratory protection faceshield with high impact visor and Type 1 industrial safety helmet.

Part Numbers - Face Shields, Respiratory



3M™ Versaflo™ Shield M-107 with Respiratory Protection

Face Protection - AS/NZS1337.1 (High Impact), Respiratory Protection - AS/NZS1716,
Optional Hearing Protection - AS/NZS1270

Part no:

890107 with 3M™ Adflo™ powered air respirator

NEW 890107HD with 3M™ Adflo™ powered air respirator with heavy duty battery

197011 Optional 3M™ Peltor™ earmuffs (SLC80 21dB Class 3)



3M™ Versaflo™ Shield & Safety Helmet M-307 with Respiratory Protection

Face Protection - AS/NZS1337.1 (High Impact), Respiratory Protection - AS/NZS1716,
Head Protection AS/NZS1801, Optional Hearing Protection - AS/NZS1270

Part no:

890307 with 3M™ Adflo™ powered air respirator

NEW 890307HD with 3M™ Adflo™ powered air respirator with heavy duty battery

197011 Optional 3M™ Peltor™ earmuffs (SLC80 21dB Class 3)



**PREMIUM SPEEDGLAS
BAG INCLUDED!**



3M™ Versaflo™ Flip-Up Shield & Safety Helmet M-407 with Respiratory Protection

Face Protection - AS/NZS1337.1 (High Impact), Respiratory Protection - AS/NZS1716,
Head Protection AS/NZS1801



























































Part no:

890407 with 3M™ Adflo™ powered air respirator

NEW 890407HD with 3M™ Adflo™ powered air respirator with heavy duty battery



3M™ Speedglas™ Products – sorted by feature

	3M™ Speedglas™ Welding Helmet 9100					 Optional				
	3M™ Speedglas™ Welding Helmet 9100 Air					 Optional				
	3M™ Speedglas™ Welding Helmet 9100 FX				 Optional	 Optional				
	3M™ Speedglas™ Welding Helmet 9100 FX Air									
	3M™ Speedglas™ Welding Helmet 9100 QR					 Optional				
	3M™ Speedglas™ Welding Helmet 9100 MP Air					 Optional				
	3M™ Speedglas™ Welding Helmet 100									
	3M™ Speedglas™ Welding Helmet 100 QR					 Optional				
	3M™ Versaflo™ Face Shields M-Series				 Optional	 Optional				

- 
Eye & Face protection
- 
Side windows
- 
Hearing protection*
- 
Exhaust vents
- 
Respiratory system
- 
Passive option
- 
Head protection
- 
Auto-on
- 
Flip-up
- 
Graphics option

* 3M™ Peltor™ Hearing Protection available as accessories.

3M™ Speedglas™ Welding Helmets

- Best**
- Better**
- Good**
- Not Recommended**



	3M™ Speedglas™ Welding Helmet 100		3M™ Speedglas™ Welding Helmet 100 QR	3M™ Speedglas™ Welding Helmet 9100	3M™ Speedglas™ Welding Helmet 9100 FX
Welding Lens Options	100S Lens	100V Lens	100V Lens	9100XXi Lens	9100XXi Lens
MMAW (Electrode)					
MIG/MAG					
TIG (>10A)					
TIG (1A-10A)					
Plasma (welding and cutting)					
Hidden Arc					
Tack welding					
Grinding (welding lens)					
Grinding (clear visor)					
Viewing area (welding lens)	44 x 93 mm			73 x 107 mm	73 x 107 mm
Battery lifetime	1 500 hours			1 800 hours	1 800 hours
Classification	1 / 2 / 2			1 / 1 / 1 (with True View)	1 / 1 / 1 (with True View)
Dark state	Shade 11	Shade 8–12		Shade 5, 8, 9–13	Shade 5, 8, 9–13
Light state	Shade 3			Shade 3	Shade 3
UV Protection	Shade 12 (permanent)			Shade 13 (permanent)	Shade 13 (permanent)
Switching time, light-dark	0.1 ms (+23° C)			0.1 ms (+23° C)	0.1 ms (+23° C)
Delay (switching time, dark-light)	200 ms	40–250 ms		40–800 ms	40–800 ms
SideWindows	No			Yes	Yes
Exhaust vents	No			Yes	Yes
Standards Compliance					
Eye protection	AS/NZS1338.1		AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1
Face protection	AS/NZS1337			AS/NZS1337.1	AS/NZS1337.1
Head protection			AS/NZS1801		Optional: AS/NZS1801
Respiratory protection					
Optional Hearing protection			AS/NZS1270		
Required Minimum Protection Factor (RMPF)**					
Powered air respiratory protection - Adflo					
Supplied air respiratory protection - V-500E					
Air Flow					
Powered air respiratory protection - Adflo					
Supplied air respiratory protection - V-500E					

* Auto-darkening welding lenses have a classification system in European Standard EN379: optical class / diffusion of light / variation on luminous transmittance. Classifications range from 1 to 3, with 1 being the best.

** For mechanically and thermally generated particles.



3M™ Speedglas™ Welding Helmet 9100 QR	3M™ Speedglas™ Welding Helmet 9100 Air	3M™ Speedglas™ Welding Helmet 9100 FX Air	3M™ Speedglas™ Welding Helmet 9100 MP Air	3M™ Versaflo™ Headtop M-107, M-307, M-407
9100XXi Lens	9100XXi Lens	9100XXi Lens	9100XXi Lens	NA
				NA
				NA
				NA
				NA
				NA
				NA
				NA
				NA
				NA
73 x 107 mm	73 x 107 mm	73 x 107 mm	73 x 107 mm	NA
1 800 hours	1 800 hours	1 800 hours	1 800 hours	NA
1 / 1 / 1 (with True View)	1 / 1 / 1 (with True View)	1 / 1 / 1 (with True View)	1 / 1 / 1 (with True View)	NA
Shade 5, 8, 9–13	Shade 5, 8, 9–13	Shade 5, 8, 9–13	Shade 5, 8, 9–13	NA
Shade 3	Shade 3	Shade 3	Shade 3	NA
Shade 13 (permanent)	Shade 13 (permanent)	Shade 13 (permanent)	Shade 13 (permanent)	NA
0.1 ms (+23° C)	0.1 ms (+23° C)	0.1 ms (+23° C)	0.1 ms (+23° C)	NA
40–800 ms	40–800 ms	40–800 ms	40–800 ms	NA
Yes	Yes	Yes	Yes	NA
Yes	No	No	No	NA
AS/NZS1338.1 AS/NZS1801 AS/NZS1270	AS/NZS1338.1 AS/NZS1337.1 AS/NZS1716	AS/NZS1338.1 AS/NZS1337.1 AS/NZS1716	AS/NZS1338.1 AS/NZS1337.1 AS/NZS1801 AS/NZS1716 AS/NZS1270	AS/NZS1337.1 AS/NZS1801 (EXC M-107) AS/NZS1716 AS/NZS1270 (EXC M-407)
	50 100+	50 100+	50 100+	50 100+
	170 & 200 l/min 170 - 305 l/min	170 & 200 l/min 170 - 305 l/min	170 & 200 l/min 170 - 305 l/min	170 & 200 l/min 170 - 305 l/min

How an Auto-Darkening Lens (ADL) Works



Before:

With the helmet in the safe down position, you have a clear view through the welding lens. Both of your hands are free and the electrode can be precisely positioned.



During:

Within 0.1 milliseconds of the arc strike, the lens has switched to the dark state.



After:

The lens automatically returns to the clear state after welding is complete, allowing your immediate and safe inspection of the weld pool, as well as preparation for the next weld.

Eye protection that increases your performance

The key to remember with 3M™ Speedglas™ Auto Darkening Welding Lenses (or ADLs) is consistency. They enable constant, comfortable vision. They provide constant protection from ultraviolet and infrared (UV/IR) radiation. And they consistently auto-switch from clear to dark, and back again, in just the way you want.

Awkward made easier

Speedglas ADLs also eliminate the neck-strain of “helmet flipping”, while greatly increasing the accuracy of electrode placement. This, in turn, reduces the need for grinding and rework. In addition, you can get into tight, cramped spaces with your eye and face protection already in place. The lenses constant, clear view make even extremely awkward welds a lot easier.

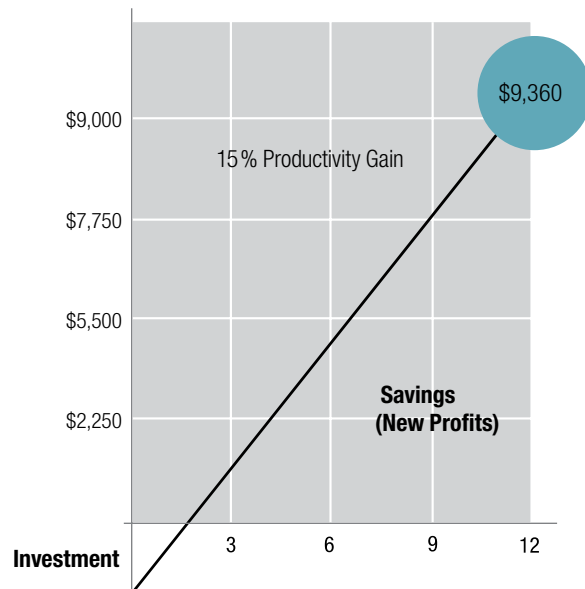
How fast does a 3M™ Speedglas™ Welding Helmet pay for itself?

If profitability is defined in terms of protection, one day is enough. But while “protection” sometimes can be difficult to measure, efficiency and weld quality are much easier to gauge. You can increase efficiency substantially when using Speedglas ADLs. Not only can you work faster when you can always see, but you move more efficiently, placing electrodes more precisely.

Most “bad weld starts” can be eliminated. Fewer bad welds mean less grinding and higher overall quality levels.

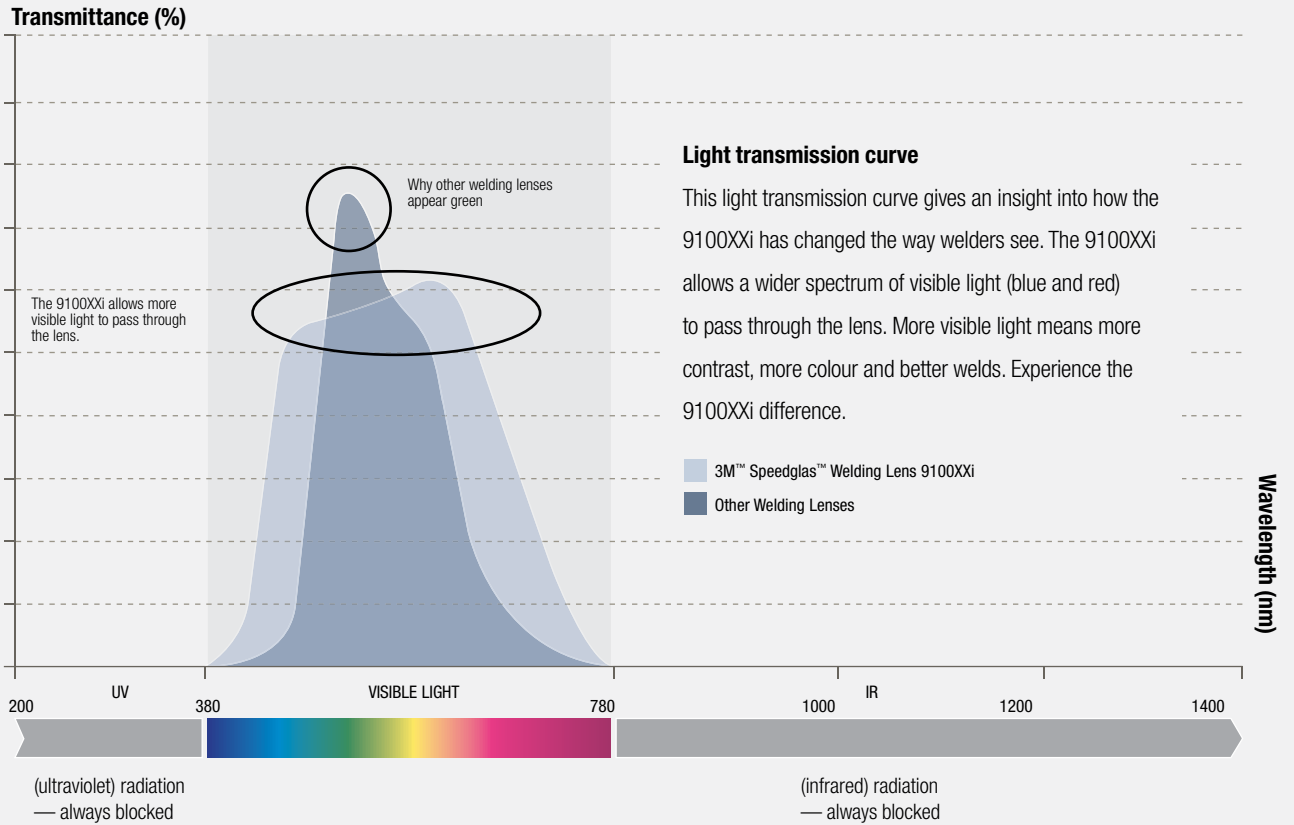
For example:

Productivity gains are, of course, dependent on the application. If you do a lot of tack welds, you will have much greater productivity gains than a welder doing long seam welds. With that said, this example uses a conservative 15% gain in productivity. If a welder’s salary is \$30 per hour, the 3M™ Speedglas™ Welding Helmet 9100XXi FX Air with 3M™ Adflo™ Powered Air Respirator has the capacity to pay for itself in less than three months. In one year, the productivity gain may be potentially as high as \$9,360 in savings.



Harmful & Visible Light

Speedglas ADLs protect the welder from harmful ultra violet (UV) and Infrared (IR) radiation. This protection remains constant, whether the welding lens is on, off, dark or light. The only light that passes through the ADL is visible light that can be softened through variable shade selection.



Shade selection is based on visible light - the brighter the light created from the weld, the darker the shade required. Below is a table with suggested shade selections across a wide range of applications and amperage levels.

Welding process	Current in amperes A																					
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600	
MMAW (covered electrodes)	8				9		10		11		12		13		14							
MAG	8							9	10		11			12			13					
TIG				8		9		10		11			12		13							
MIG								9	10		11			12		13	14					
MIG with light alloys								10			11	12	13	14								
Air-arc gouging	10											11	12	13	14	15						
Plasma jet cutting								9	10	11	12			13								
Microplasma arc welding	4	5	6	7	8	9	10		11		12											

This table features the recommended dark shades for various working applications. According to the conditions of use, the dark shade below/above the listed dark shade can be used based on personal preference.

Frequently Asked Questions about Welding Fumes

1) Which respirator do I need when welding stainless steel?

When welding stainless steel with MIG or MMAW, the welding fumes often contain particles of chromium and nickel, of which chromium is the more toxic. A powered air respirator with particle filter offers you excellent protection in this application. TIG welding does not usually emit much welding fume but creates large quantities of ozone gas: read more under point 6. Plasma cutting and plasma welding give rise to high temperatures, which can emit damaging oxides of nitrogen: read more under point 7.

2) Do I really need respiratory protection when welding ordinary steel?

Although welding fumes from steel is not one of the more hazardous types, it is far from good for your health. Among other things, it contains particles of iron oxide, which can cause siderosis (chronic inflammation of the lungs). When welding with MIG/MAG or stick, there are heavy fume emissions, meaning that both a respirator and good ventilation in the workplace are necessary. When welding steel, a powered air respirator with particle filter is recommended.

3) What sort of respirator is needed when welding surface-treated material?

When welding surface-treated material, a number of hazardous pollutants can be released. When welding galvanised steel, zinc oxide particles are released. These can cause zinc ague, also known as fume fever. If you weld painted material you should be especially careful, as many paints can give off very hazardous air pollutants. When welding galvanised steel or material painted with lead primer, it is recommended that you use a powered air respirator with a particle filter and an odour filter to minimise unpleasant smells. If the material is painted with two component paint or insulated with polyurethane, you should always contact an appropriately qualified safety professional, such as an Occupational Hygienist for respiratory protection advice. There is a large risk that you will be exposed to isocyanates, which are very hazardous to inhale and difficult to detect. In these cases it is recommended that a supplied air respirator is used.

4) What respiratory protection do I need in restricted areas?

If you are welding in restricted or semi-ventilated areas —



where there is a potential for build up of higher levels of contaminant and/or a reduction in oxygen levels — a supplied air respirator is suggested, regardless of welding method. With a supplied air respirator, providing breathable quality air, you can be confident of getting sufficient oxygen, as well as high levels of protection against gas and particulate contaminants. Powered or supplied air respirators are never to be used in atmospheres immediately dangerous to life or health (IDLH). Always ask an appropriately qualified safety professional, such as an Occupational Hygienist for respiratory protection advice if you are unsure.

5) Do shielding gases and alloyed electrodes affect my working environment?

When welding with MIG and TIG, the gases argon and helium are used as shielding gases. Neither argon nor helium is considered hazardous, but they can displace oxygen in unventilated areas. In such cases, a supplied air respirator is required. When welding with MAG, carbon dioxide, or a mixture of carbon dioxide and a gas, is used as a shielding gas. Since parts of the shielding gas can be converted into carbon monoxide when the gas reaches the air, large quantities of carbon monoxide can form around the welding arc. Carbon monoxide cannot be filtered away. If the ventilation is bad, the oxygen level must be monitored and a supplied air respirator used. Alloyed electrodes are common when welding with MAG. The alloys often contain manganese or silicates. This means that large quantities of manganese oxide and silicates are diffused into the surrounding air when you are welding. A powered air respirator with particle filter usually offers sufficient protection against alloy particles.

6) When does ozone form?

When welding aluminium not only are particles of aluminium oxide produced but ozone gas is formed by the action of the UV radiation from the arc breaking down molecular oxygen. Ozone is also produced when welding stainless steel with TIG. Eventually ozone will be converted back to oxygen, a process that speeds up when the ozone comes into contact with solid surfaces. Ozone will react back to normal O₂ over time but is an irritant gas when inhaled. At low ozone concentrations the use of a powered air respirator with particulate filter reduces the amount of ozone reaching the welder. This is achieved by the fact that the particle filter (because of its large surface area) and the breathing tube to the welding helmet help to catalyse the conversion of ozone back to normal oxygen. At higher concentrations the inclusion of a gas filter would add an additional large surface of carbon granules on which a further reduction of ozone takes place.




7) What are nitrogen gases?

Nitrogen dioxide and nitric oxide are examples of nitrogen gases that are formed when you weld with high amperage and high temperatures. Nitrous gases are formed by a reaction in the air between nitrogen and oxygen and are hazardous to inhale in high concentrations, e.g. when welding in confined, poorly ventilated areas. It is recommended that a supplied air respirator is used in such cases.










































































































A General Guide to Respiratory Protection

3M™ Speedglas™ offers a wide range of personal respiratory protection, providing unequalled comfort and protection in the toughest conditions.

-  Powered air respirator with particle filter
-  Powered air respirator with A1 gas filter
-  Supplied air regulator

How to use this guide:

Identify the material to be welded and the welding process to be used. The concentration levels of the pollutants are affected by the ventilation conditions in the workplace. Choose the appropriate description of the working environment to determine a suitable type of respiratory protection.*

Material to be welded	Welding method	Ventilation conditions of your working environment			
		Good environment, with forced ventilation	Limited ventilation	Restricted space - <small>Note: Not suitable for Confined Spaces as defined by AS2865.</small>	Classified as IDLH
Aluminium	MIG 		 /  + 		Powered and supplied air respirators must never be used in atmospheres Immediately Dangerous to Life or Health (IDLH). Always consult your Safety Engineer or Occupational Hygienist.
	TIG 		 /  + 		
	STICK WELDING 		 /  + 		
Stainless steel	MIG 		 /  + 		
	TIG 		 /  + 		
	STICK WELDING 		 /  + 		
	PLASMA (Welding and Cutting)		 +  / 		
Steel not coated or painted	MIG/MAG 				
	STICK WELDING 				
	PLASMA (Welding and Cutting)		 / 		
Steel painted (lead based paints)	MIG/MAG 				
	STICK WELDING 				
	PLASMA (Welding and Cutting)		 / 		
Steel galvanised	MIG/MAG 				
	STICK WELDING 				
	PLASMA (Welding and Cutting)		 / 		
Steel coated with 2-component paints or insulated with 2-part polyurethanes (risk of isocyanates)	MIG/MAG 				
	STICK WELDING 				
	PLASMA (Welding and Cutting)				
Material cleaned with trichloroethylene	MIG 				
	TIG 				
	STICK WELDING 				
	PLASMA (Welding and Cutting)				

* 3M accepts no liability for the incorrect choice of respiratory protective equipment. This chart is only an outline. It is designed to help focus on the most appropriate respirators in the 3M range for particular applications. It should not be used as the only means of selecting a respirator. Details regarding performance and limitations are set out on the respirator packaging and user instructions.

Respiratory Filter Guide

Code Type of filter

E	Acid gases.
A	Organic gases, boiling point >65 °C.
AX	Organic gases, boiling point <65 °C.
P	Particle filter.
B	Inorganic gases.

Remarks

H =	The chemical can be absorbed through the skin.
K =	The chemical can be cancer-inducing.
S =	The chemical can be a sensitiser.

- Argon and helium are inert gases which are not generally absorbed by canister type filters. These gases are not in themselves hazardous but can displace oxygen from the air when present in confined spaces.
- Ozone is not readily filtered by absorption type filters. However, ozone reverts back to normal oxygen upon contact with solid surfaces. The use of a Speedglas Welding Helmet or Protective Visor with the Adflo Respirator (particle filtration) will reduce ozone exposure. (For further information please contact AWS)
- Chemical constituents of a welding fume with very low Occupational Exposure Limits can pose special hazards and are sometimes best protected against by using a Supplied Air Regulator System. Always ask an appropriately qualified safety professional, such as an Occupational Hygienist for respiratory protection advice if you are unsure.

Occupational Exposure Limits (OELs) are given in each individual country's national safety requirements.

Suggested Filter Type				
Chemical	Particle	Gas	Supplied Air	Remarks
Aluminium	P			
Argon			Supplied Air	1
Beryllium	P		Supplied Air	K, S 3
Bromine		B		
Cadmium	P			K
Carbon Dioxide			Supplied Air	
Carbon Monoxide			Supplied Air	
Chlorine		B		H
Chlorine Dioxide		B		
Chromium Hexavalent	P			K
Chromium Trivalent	P			
Copper	P			
Fluorides	P			
Fluorine			Supplied Air	
Helium			Supplied Air	1
Isocyanates			Supplied Air	S
Hydrogen Chloride		B	Supplied Air	3
Hydrogen Cyanide		B	Supplied Air	H3
Hydrogen Fluoride		B	Supplied Air	3
Hydrogen Sulphide		B		
Iron Oxide	P			
Lead	P			
Magnesium	P			
Manganese	P			
Nickel	P			S
Nitrogen Dioxide			Supplied Air	
Nitric Oxide			Supplied Air	
Ozone	P	A		2
Phosgene			Supplied Air	3
Phosphine			Supplied Air	
Silicon Dioxide	P			
Sulphur Dioxide		E		
Trichloroethylene		A		K
Vanadium Oxide	P			
White Spirit		A		
Zinc	P			
Zinc Chloride	P			
Zinc Oxide	P			

Care and Maintenance

Every day welding sparks, heat, fumes, and normal wear-and-tear grind away at your protective equipment. Therefore, we designed all 3M™ Speedglas™ Personal Protective Equipment with ease of maintenance in mind. All replacement parts can be installed by hand, without tools. For maximum safety and comfort, make it a regular habit to check and change the following items at the intervals recommended below.



Visit us at www.speedglas.com.au for care & maintenance videos

Product	Typically replaced	Notes
Outside cover lens	Once-twice a week	Replace anytime the lens becomes deeply scratched or too dirty to clean with a soft cloth.
Inside cover lens	Once a month	Regularly clean with a soft cloth and replace if any scratches occur.
Visor plate	Every two weeks	Replace more often if visibility is reduced.
Sweatband	Once a month	Replace more often if sweatband becomes unhygienic.
Prefilter	Once-twice a week	Regular replacement of the prefilter extends the life of the particle filter, saving money while also increasing the battery run-time.
Particle filter	At least every month	For Adflo, replace when particle filter indicator becomes red. Otherwise, replace whenever the battery operating time becomes too short, or when "fully loaded" filter triggers low airflow alarm.
Gas filter	As needed	Immediately replace the gas filter any time you can smell odours while wearing the respirator.
Odour filter	Any time you smell unpleasant odours	Immediately replace the odour filter any time you can smell odours while wearing the respirator.
Spark arrestor	As needed	Replace if deformed and no longer fitting well.
Breathing tube	If damaged, deformed or leaking any air	To extend the life of the breathing tube, use a tube cover or a heavy-duty rubber breathing tube.
Face seal	At least every 2 months	Replace earlier in really dirty environments or whenever the seal becomes unhygienic.

Important information. Note that higher-than-normal levels of pollutants, heat, and sparks will require more frequent replacement of components. Chart assumes minimum 4 hours usage per day. Ordering information for each series of welding helmet can be found in the Parts Directory.

Featured accessories – additional protection

Every welder is different, and each day your tasks can change. As the owner of a 3M™ Speedglas™ Welding Helmet, you have a variety of accessories available to maximize your protection and comfort. Each welding helmet model can offer additional coverage products made in flame-retardant textiles for protection against molten metal, sparks and flames. More details can be found for each welding helmet model in this parts directory.

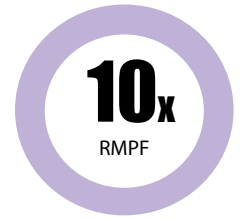


3M™ Speedglas™ Welding Helmet	Head protection	Neck protection	Hood	Welding cap
3M™ Speedglas™ Welding Helmet Series 100/9000	Part No 16 40 09	Part No 16 90 01	Part No 16 91 00	Part No 95 44 11
3M™ Speedglas™ Welding Helmet SL	N/A			
3M™ Speedglas™ Welding Helmets 9100/9100 Air	Part No 16 90 05	Part No 16 90 10		
3M™ Speedglas™ Welding Helmets 9100FX / 9100FX Air	Part No 16 90 07 (large) Part No 16 90 06 (small)			
3M™ Speedglas™ Welding Helmet 9100 MP	Part No 16 90 13 Safety helmet cover (reflective)	Part No 16 90 01		

Join **Team Speedglas** at www.speedglas.com.au to learn more about new product features, as well as performance and maintenance tips for your 3M™ Speedglas™ Welding Helmet.



3M™ Welding Personal Safety Equipment



3M™ Disposable Welding Respiratory Protection

Disposable respirators are ideal for use under a welding helmet. They provide lightweight and comfortable respiratory protection. Disposable respirators provide a Required Minimum Protection Factor (RMPF) of 10.

This means that with the correct fit, the air you breathe will be at least ten times cleaner than the air you'd otherwise be breathing.



Premium Welding Comfort

This respirator sets the benchmark in disposable respirators for welder comfort. The valve reduces heat and moisture build up which provides a cool and more comfortable wear.

Part no:
9959322 Box of 10 x 3M™ particulate respirators 9322 (P2)

P2 is the rating given to a respirator that meets AS/NZ1716 for filtering mechanically and thermally generated particles, eg., those from welding fume.



Welding Odour Relief

Activated carbon layer provides welders protection against nuisance* levels of organic vapours and odours.

Part no:
9959542A Box of 25 x 3M™ particulate respirators 9542A (P2)

P2 is the rating given to a respirator that meets AS/NZ1716 for filtering mechanically and thermally generated particles, eg., those from welding fume.

*Nuisance levels are those levels below the Safe Work Australia Exposure Standards.

Disposable Welding Hearing Protection

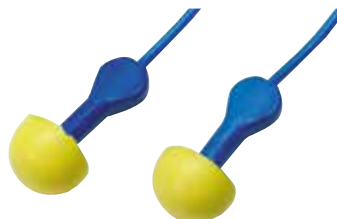


Part no:
9953121201
Regular uncorded,
poly bag, 200 pairs/box

SLC80 23dB (Class 4)

With its slow recovery foam, preferred cylindrical shape and proven in-ear comfort the 3M™ E-A-R™ Classic™ Earplug revolutionised hearing protection and comfort.

Push-to-fit for Welders' Hands



Part no:
9953212115
Express earplug corded,
pillow pack, 100 pairs/box

SLC80 19dB (Class 3)

The unique pod design of 3M™ E-A-R™ Express™ Earplugs allows the foam to compress easily so the earplug slides gently into the ear. A flexible stem makes this plug perfect for gloved hands.

3M™ Welding Personal Safety Equipment



3M™ Reusable Welding Respiratory Protection

The reusable respirators below are ideal for use under the 3M™ Speedglas™ Welding Helmet Series 9100. They can provide protection against gases, vapours and particulates. These reusable respirators provide a Required Minimum

Protection Factor (RMPF) of 10. This simply means the air you breathe will be at least ten times cleaner than the air you'd otherwise be breathing.



Premium Welding Comfort

Soft silicone face seal for welder comfort and durability. Exhalation valve reduces breathing resistance and helps minimise heat build-up in the respirator. Filters not included.

- Part no:
9957501 Small 3M™ half face respirator 7500 Series
9957502 Medium 3M™ half face respirator 7500 Series
9957503 Large 3M™ half face respirator 7500 Series
9952128 Pair of metal fume filters 2128



Welding Respirator Starter Kit

Includes a medium 3M™ Half Face Respirator 7500 (as above), a pair of particle and metal fume filters, four 3M™ respirator cleaning wipes, a pair of 3M™ welder's earplugs, a respiratory protection guide and a handy storage container for dirty environments.

- Part no:
9957528 3M™ welding respirator kit 7528 (GP2)

GP2 protects against mechanically and thermally generated particles and nuisance level organic vapours.

Washable & Reusable for Dirty Environments



- Part no:
9953404004 UltraFit earplug corded, poly bag, 100 pairs/box
SLC80 18dB (Class 3)

Super comfortable 3M™ E-A-R™ UltraFit™ Earplugs can be cleaned with soap and water to be used again and again. Since there is no need to roll them down, they are perfect for clean and comfortable noise reduction.

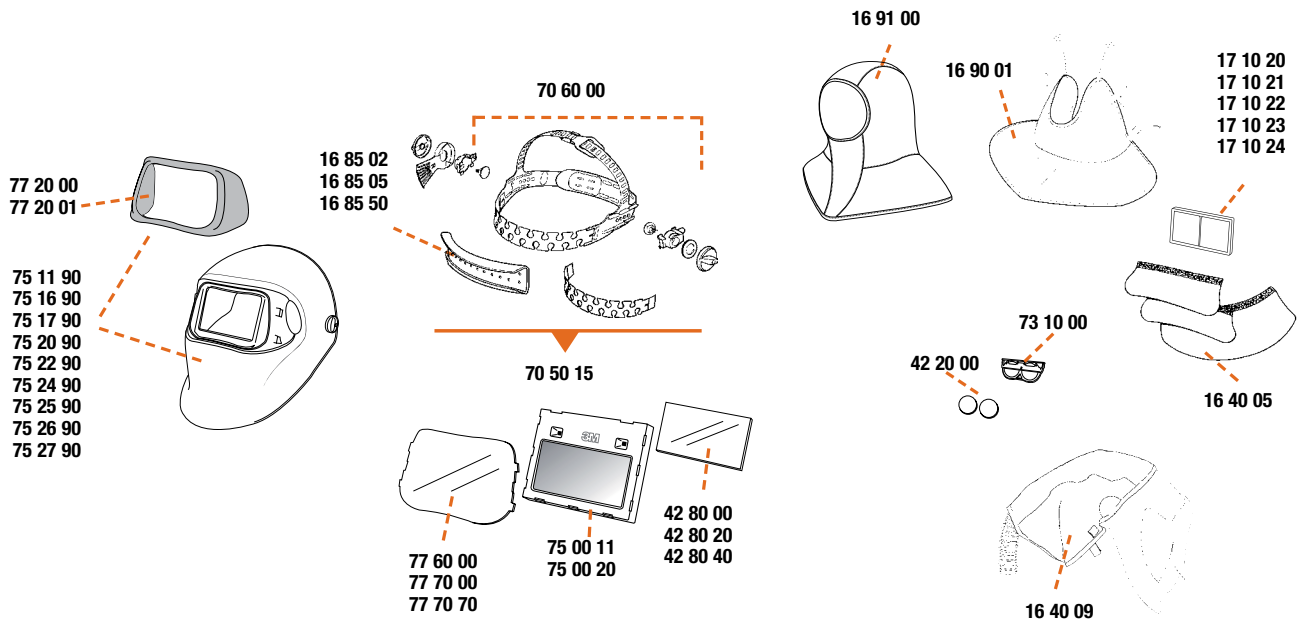
Earmuffs that Fit Under a Welding Helmet



- Part no:
197012 3M™ Welding earmuffs
SLC80 22dB (Class 4)

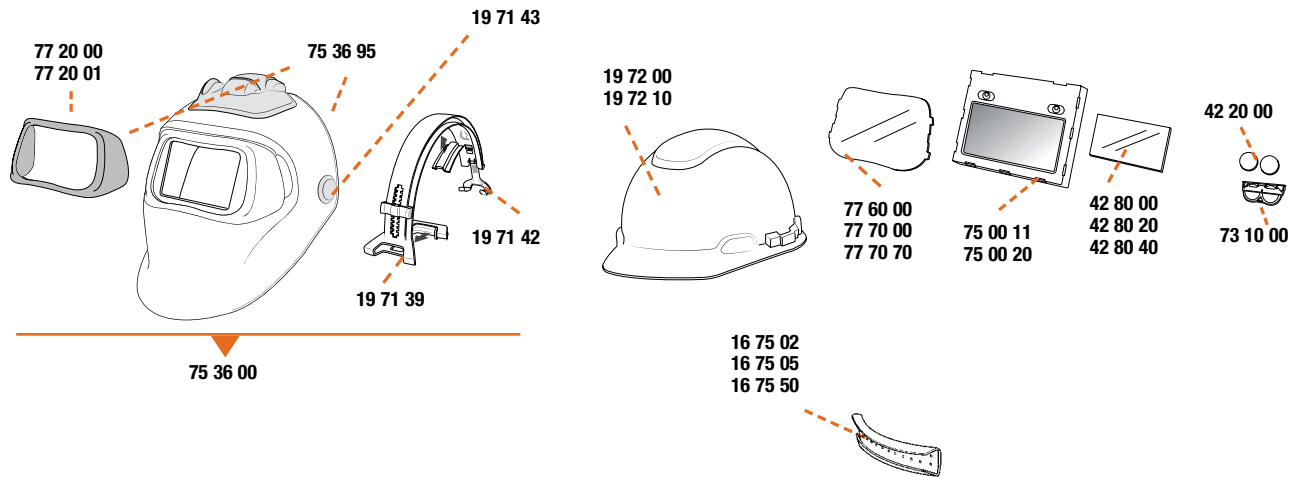
The 3M™ Peltor™ H505B Welding Helmet Earmuff features a low-profile design that fits comfortably under most welding helmets, as well as a semi-soft cup surface that minimises scratch sound transmission.

3M™ Speedglas™ Welding Helmet 100



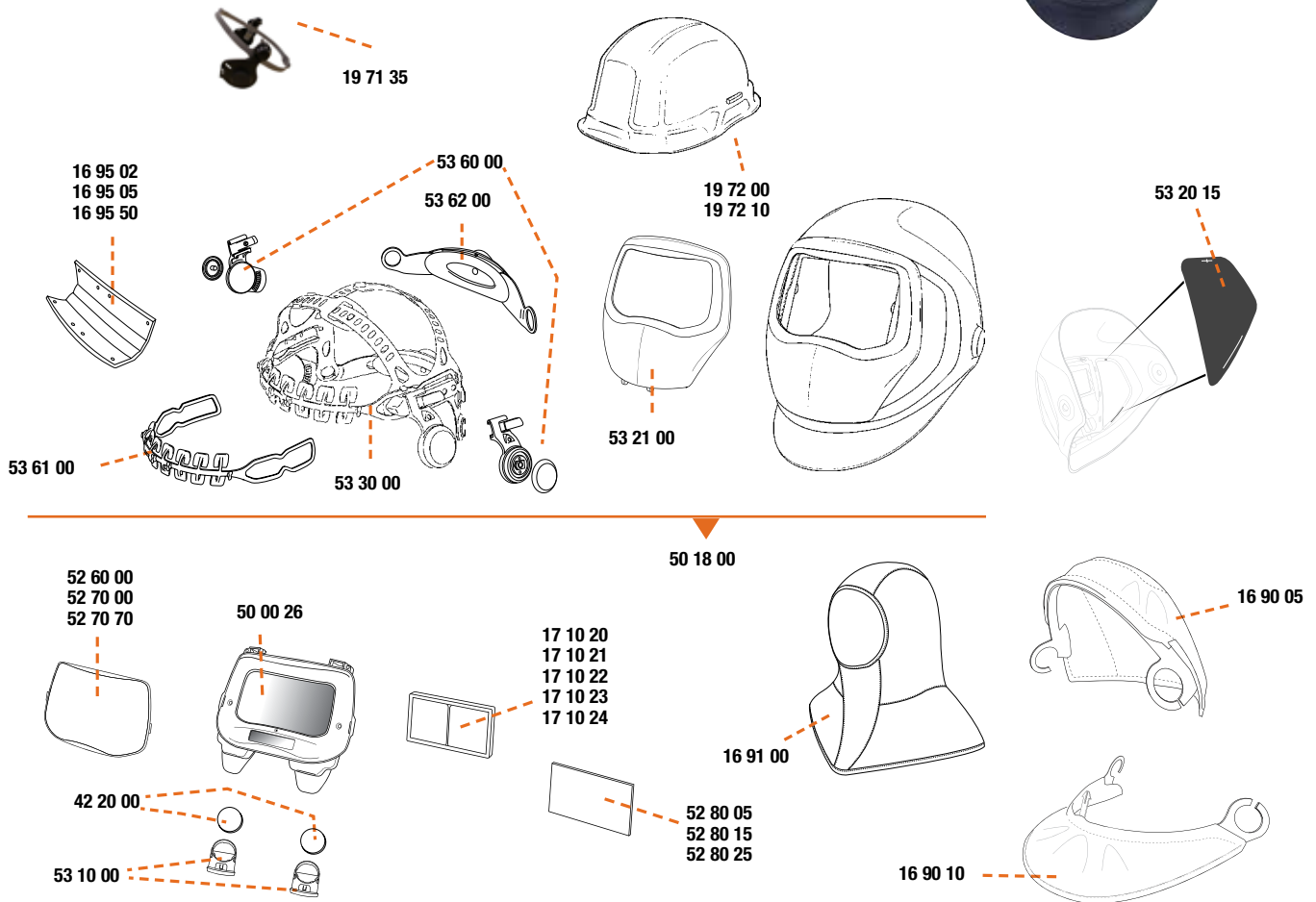
Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
164009	HEAD PROTECTION TECAWELD 100 & 9000
168502	SWEATBAND 100 & 9100 MP PK=2
168505	SWEATBAND 100 & 9100 MP PK=5
168550	SWEATBAND 100 & 9100 MP PK=50
169001	THROAT PROTECTION TECAWELD 100 & 9100 MP
169100	HEAD CAPE TECAWELD
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
422000	BATTERY LITHIUM 9100 100 & 9000 PK=2
428000	COVER LENS INNER 100 & 9002V PK=5
428020	COVER LENS INNER SH 1 100 & 9002V PK=5
428040	COVER LENS INNER SH 2 100 & 9002V PK=5
705015	HEAD HARNESS 100 & 9000
706000	HEAD HARNESS ATTACHMENTS 100 & SL
731000	HOLDER BATTERY 100 & SL
750011	LENS WELDING SHADE 11 100S SPEEDGLAS
750020	LENS WELDING 100V SPEEDGLAS
751190	SHELL BLACK EXC LENS/HARNESS 100
751690	SHELL TROJAN WARRIOR 11 EXC LENS/HARNESS 100
751790	SHELL ACES HIGH EXC LENS/HARNESS 100
752090	SHELL WILD N PINK EXC LENS/HARNESS 100
752290	SHELL XTERMINATOR EXC LENS/HARNESS 100
752490	SHELL RAZOR DRAGON EXC LENS/HARNESS 100
752590	SHELL ICE HOT EXC LENS/HARNESS 100
752690	SHELL RAGING SKULL EXC LENS/HARNESS 100
752790	SHELL COMBAT EXC LENS & HARNESS 100
772000	COVER FRONT SILVER 100
772001	COVER FRONT BLACK 100
776000	COVER LENS OUTER STD 100 PK=10
777000	COVER LENS OUTER HC 100 PK=10
777070	COVER LENS OUTER HT 100 PK=10

3M™ Speedglas™ Welding Helmet 100 QR



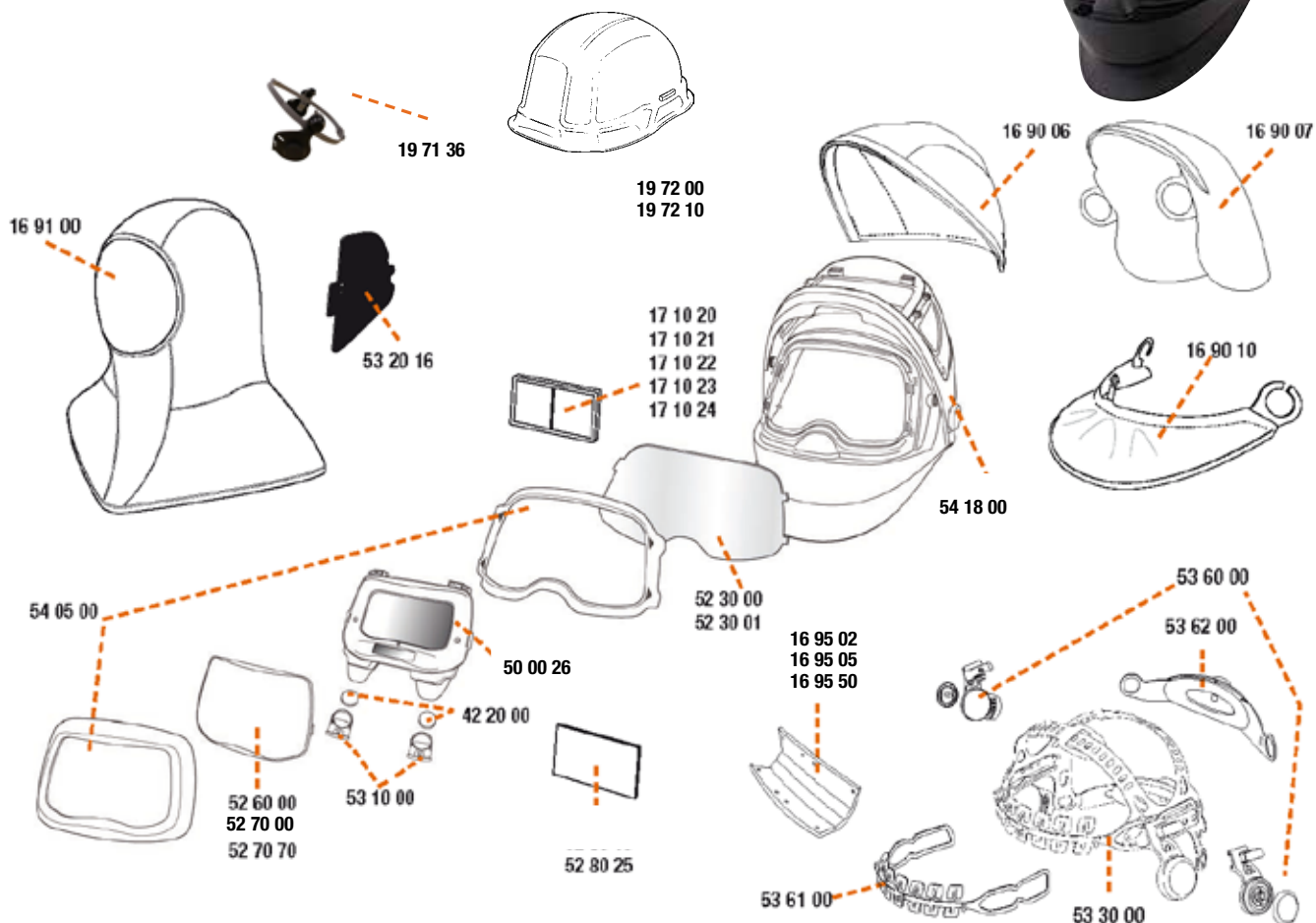
Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
197139	RAIL QR
197142	PADS RUBBER QR
197143	PIVOT COVER PLATE QR
197200	HARD HAT WHITE WITH RATCHET HARNESS
197210	RATCHET HARNESS FOR HARD HAT
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
428000	LENS COVER INNER 100 & 9002V PK=5
428020	LENS COVER INNER SHADE 1 100 PK=5
428040	LENS COVER INNER SHADE 2 100 PK=5
731000	HOLDER BATTERY 100 & SL
750011	LENS WELDING SHADE 11 100S SPEEDGLAS
750020	LENS WELDING 100V SPEEDGLAS
772000	COVER FRONT SILVER 100
772001	COVER FRONT BLACK 100
776000	LENS COVER OUTER STD 100 PK=10
777000	LENS COVER OUTER HC 100 PK=10
777070	LENS COVER OUTER HT 100 PK=10
753600	HELMET WELDING EXC LENS & HARD HAT 100 QR
753695	HELMET WELDING EXC LENS, HARD HAT & RAIL 100 QR

3M™ Speedglas™ Welding Helmet 9100



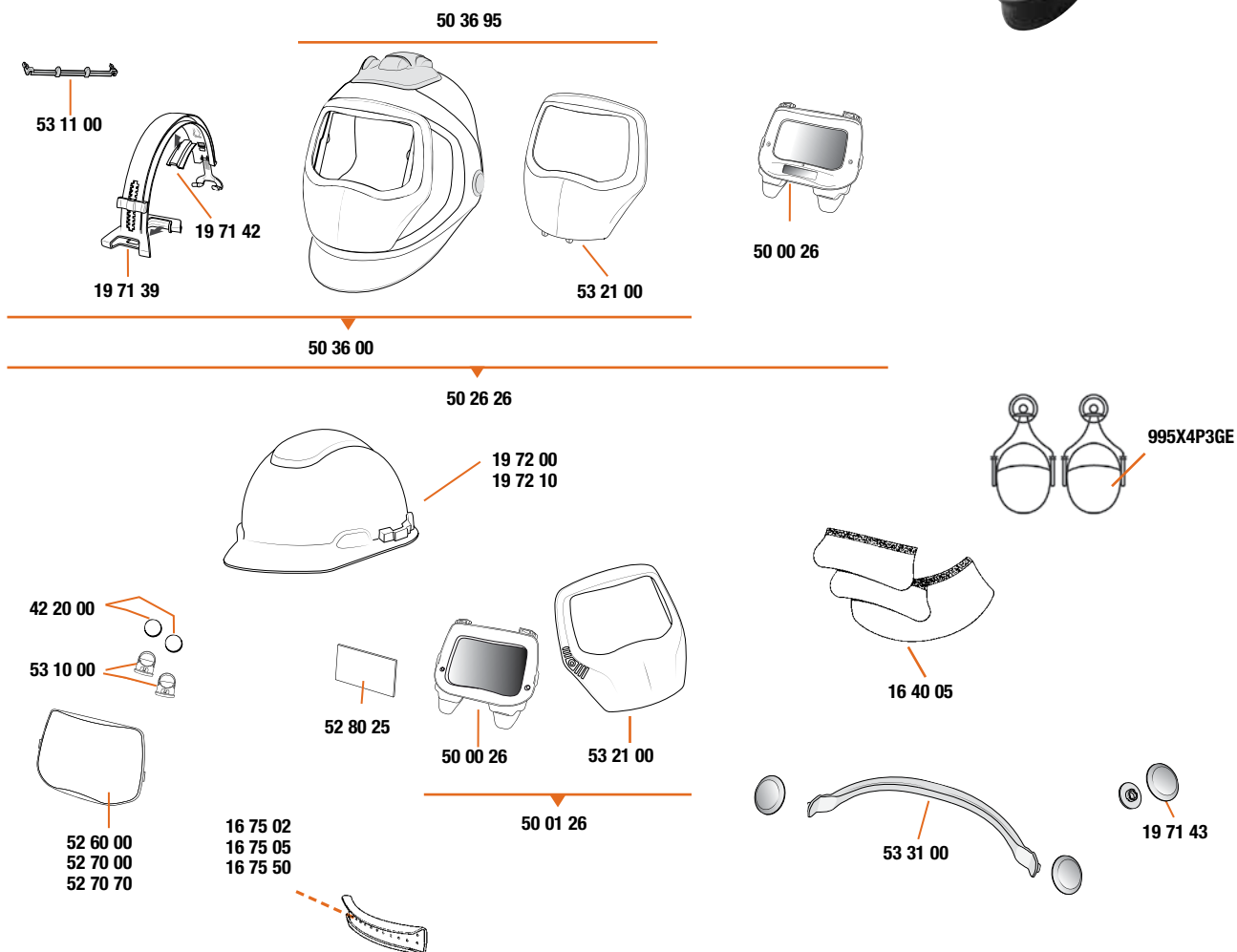
Part	Description
169005	HEAD PROTECTION 9100
169010	THROAT PROTECTION 9100
169100	HEAD CAPE TECAWELD
169502	SWEATBAND 9100 & 9100 FX PK=2
169505	SWEATBAND 9100 & 9100 FX PK=5
169550	SWEATBAND 9100 & 9100 FX PK=50
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
197135	ATTACHMENT HARD HAT SPEEDYLOOP 9100
197200	HARD HAT WHITE WITH RATCHET HARNESS 9100
197210	RATCHET HARNESS FOR HARD HAT 9100
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
501800	HELMET WELDING 9100 EXC LENS
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528005	LENS COVER INNER 9100V PK=5
528015	LENS COVER INNER 9100X PK=5
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
532100	FRONT SILVER 9100XXi
532015	COVER PLATES SW 9100 PK=2
533000	HEAD HARNESS 9100
536000	HEAD HARNESS PIVOT MECHANISM 9100
536100	HEAD HARNESS FRONT PART 9100
536200	HEAD HARNESS BACK PART 9100

3M™ Speedglas™ Flip-Up Welding Helmet 9100 FX



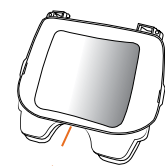
Part	Description
169006	HEAD COVER SMALL 9100 FX
169007	HEAD COVER LARGE 9100 FX
169010	THROAT PROTECTION 9100
169100	HEAD CAPE TECAWELD
169502	SWEATBAND 9100 & 9100 FX PK=2
169505	SWEATBAND 9100 & 9100 FX PK=5
169550	SWEATBAND 9100 & 9100 FX PK=50
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
197136	ATTACHMENT HARD HAT SPEEDYLOOP 9100 FX
197200	HARD HAT WHITE WITH RATCHET HARNESS 9100
197210	RATCHET HARNESS FOR HARD HAT 9100
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
523000	VISOR PLATE 9100 FX PK=5
523001	VISOR PLATE ANTI-FOG 9100 FX PK=5
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
532016	SIDEWINDOWS COVER PLATE 9100 FX PK=2
533000	HEAD HARNESS 9100
536000	HEAD HARNESS PIVOT MECHANISM 9100
536100	HEAD HARNESS FRONT PART 9100
536200	HEAD HARNESS BACK PART 9100
540500	FRONT COVER KIT 9100 FX
541800	HELMET WELDING EXC LENS 9100 FX

3M™ Speedglas™ Welding Helmet 9100 QR

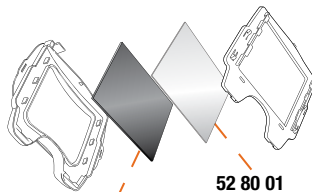


Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
197139	RAIL QR
197142	PADS RUBBER QR
197143	PIVOT COVER PLATE QR
197200	HARD HAT WHITE WITH RATCHET HARNESS 9100
197210	RATCHET HARNESS FOR HARD HAT 9100
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
500126	LENS WELDING 9100XXi & FRONT KIT SPEEDGLAS
502626	HELMET WELDING 9100XXi QR SPEEDGLAS EXC HARD HAT
503600	HELMET WELDING EXC LENS & HARD HAT 9100 QR
503695	HELMET WELDING EXC LENS, HARD HAT & RAIL 9100 QR
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
531100	BAR DISTANCE QR
532100	FRONT SILVER 9100XXi
533100	BAR EAR MUFF 9100 QR
995X4P3GE	EARMUFFS QR

3M™ Speedglas™ Passive Helmet Series 9100

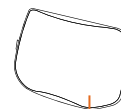


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11 00 11
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11 00 13



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52 70 00
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50 18 01



54 18 01



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54 38 01



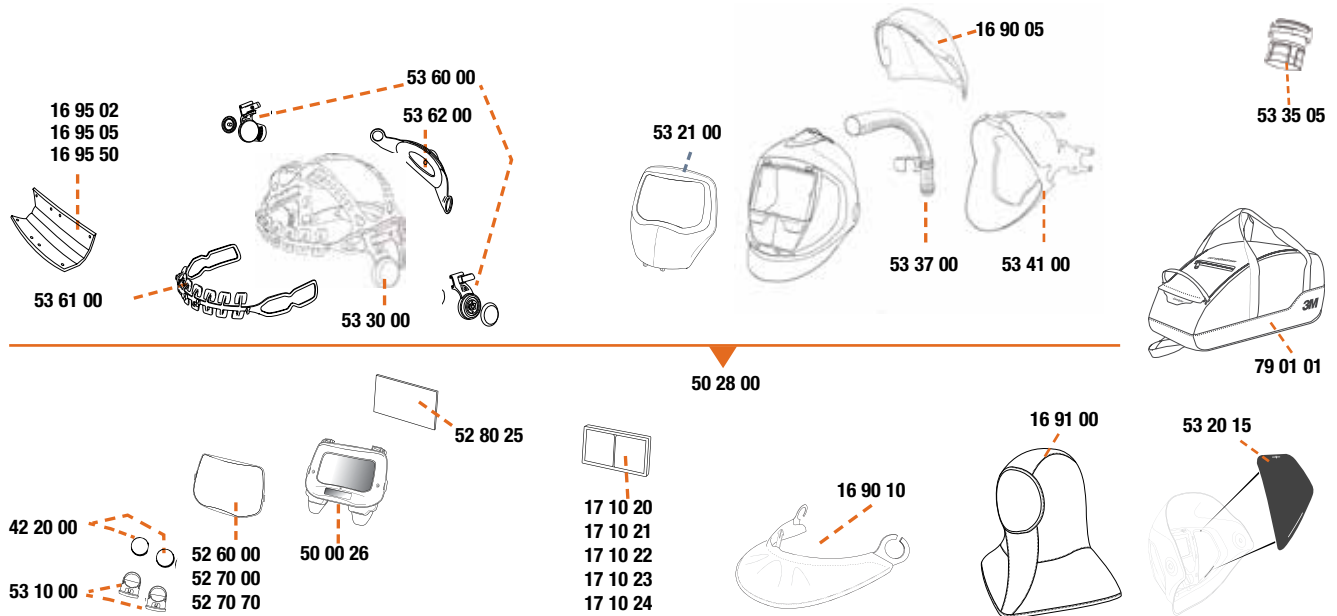
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57 77 01
57 88 01

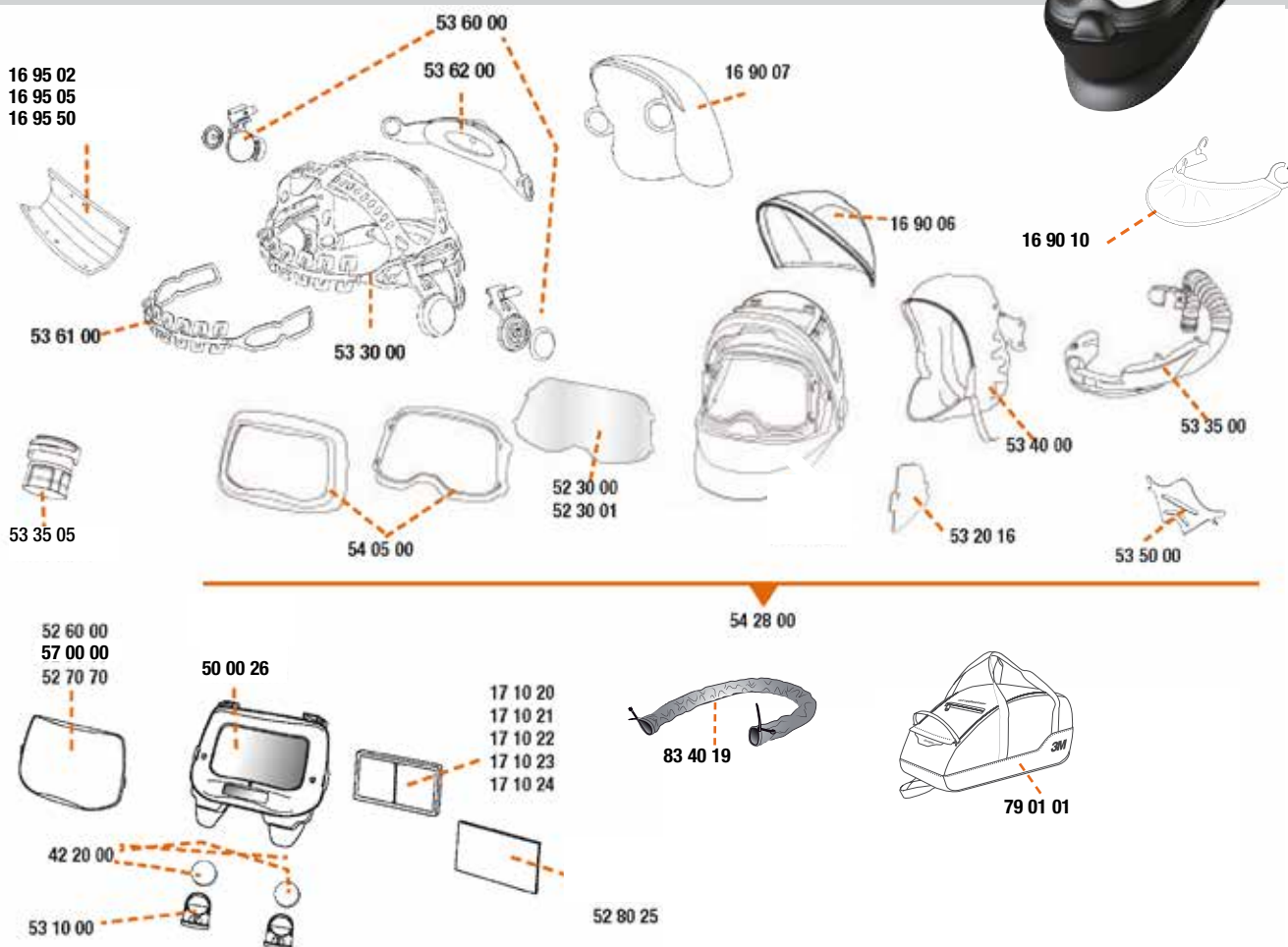
Part	Description
110010	LENS WELDING SHADE 10 9100 CONSTANT
110011	LENS WELDING SHADE 11 9100 CONSTANT
110012	LENS WELDING SHADE 12 9100 CONSTANT
110013	LENS WELDING SHADE 13 9100 CONSTANT
500001	CASSETTE SHADE 11 9100 CONSTANT
501801	HELMET WELDING 9100P PASSIVE
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528001	LENS COVER INNER 9100P 90X110X1MM PK=5
541801	HELMET WELDING 9100P FX
503601	HELMET WELDING & HARD HAT 9100P QR SPEEDGLAS
543801	HELMET WELDING WITH HARD HAT 9100P FX PASSIVE
547701	RESPIRATOR ADFLO 9100P FX AIR LI-ION PASSIVE
548801	RESPIRATOR V-500E 9100P FX AIR PASSIVE
577701	RESPIRATOR ADFLO 9100P MP AIR LI-ION PASSIVE
578801	RESPIRATOR V-500E 9100P MP AIR PASSIVE

3M™ Speedglas™ Welding Helmet 9100 Air



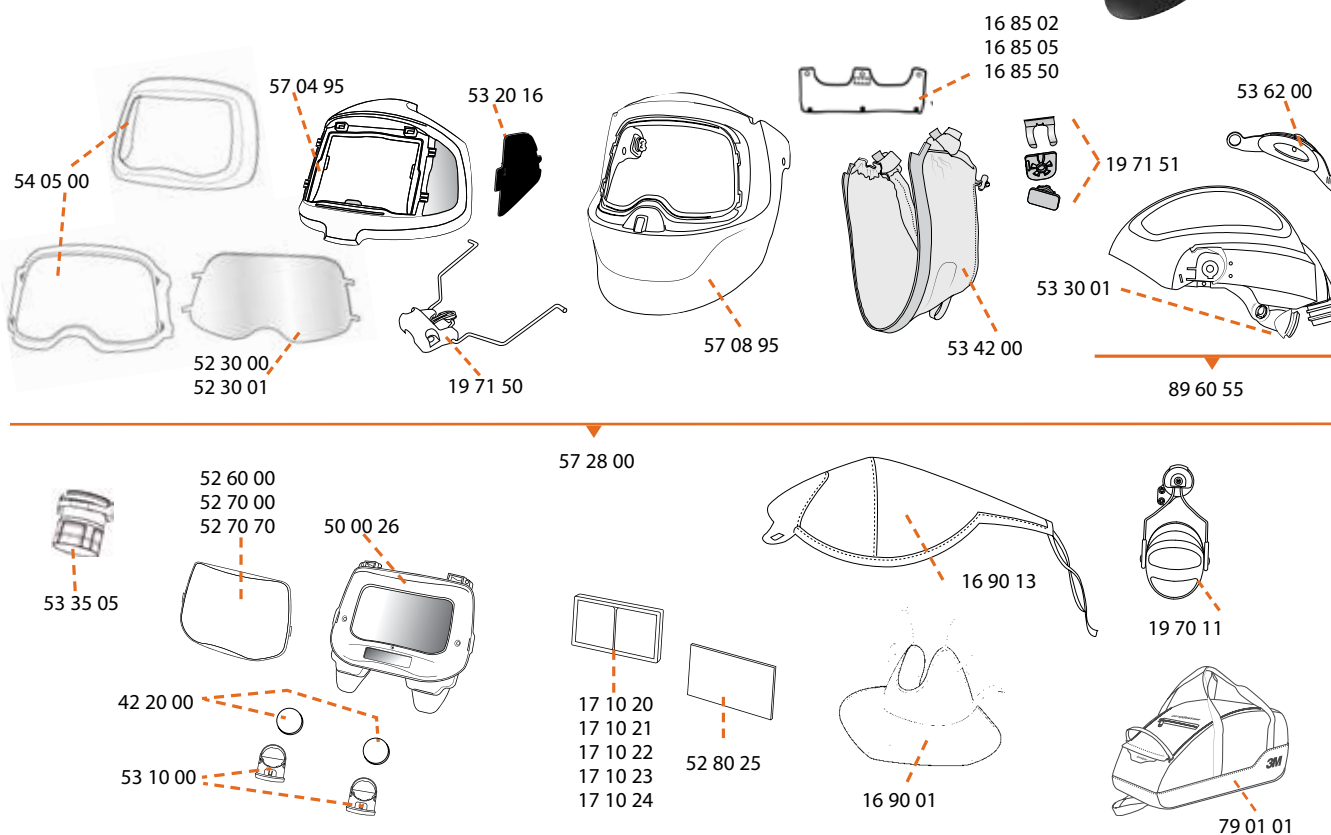
Part	Description
169005	HEAD PROTECTION 9100
169010	THROAT PROTECTION 9100
169100	HEAD CAPE TECAWELD
169502	SWEATBAND 9100 & 9100 FX PK=2
169505	SWEATBAND 9100 & 9100 FX PK=5
169550	SWEATBAND 9100 & 9100 FX PK=50
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
502800	HELMET WELDING 9100 AIR EXC LENS
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
532100	COVER FRONT SILVER 9100XXi
532015	COVER PLATES SW 9100 PK=2
533000	HEAD HARNESS 9100
533505	ADAPTOR ADFLO BREATHING TUBE 9100 FX AIR
533700	AIR DUCT BACK PART 9100 AIR
534100	FACE SEAL 9100 AIR
536000	HEAD HARNESS PIVOT MECHANISM 9100
536100	HEAD HARNESS FRONT PART 9100
536200	HEAD HARNESS BACK PART 9100
790101	CARRY BAG SPEEDGLAS

3M™ Speedglas™ Flip-Up Welding Helmet 9100 FX Air



Part	Description
169006	HEAD COVER SMALL 9100 FX
169007	HEAD COVER LARGE 9100 FX
169010	THROAT PROTECTION 9100
169502	SWEATBAND 9100 & 9100 FX PK=2
169505	SWEATBAND 9100 & 9100 FX PK=5
169550	SWEATBAND 9100 & 9100 FX PK=50
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
523000	VISOR PLATE 9100 FX PK=5
523001	VISOR PLATE ANTI-FOG 9100 FX PK=5
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
532016	SIDEWINDOWS COVER PLATE 9100 FX PK=2
533000	HEAD HARNESS 9100
533500	AIR DUCT ASSEMBLY 9100 FX AIR
533505	ADAPTOR ADFLO BREATHING TUBE 9100 FX AIR
534000	FACE SEAL 9100 FX AIR
535000	AIR DEFLECTOR 9100 FX AIR
536000	HEAD HARNESS PIVOT MECHANISM 9100
536100	HEAD HARNESS FRONT PART 9100
536200	HEAD HARNESS BACK PART 9100
540500	FRONT COVER KIT 9100 FX
542800	HELMET WELDING 9100 FX AIR EXC LENS
790101	CARRY BAG SPEEDGLAS
834019	TUBE BREATHING COVER FLAME RESISTANT HELMET 9100 FX ADFLO

3M™ Speedglas™ Welding & Safety Helmet 9100 MP Air



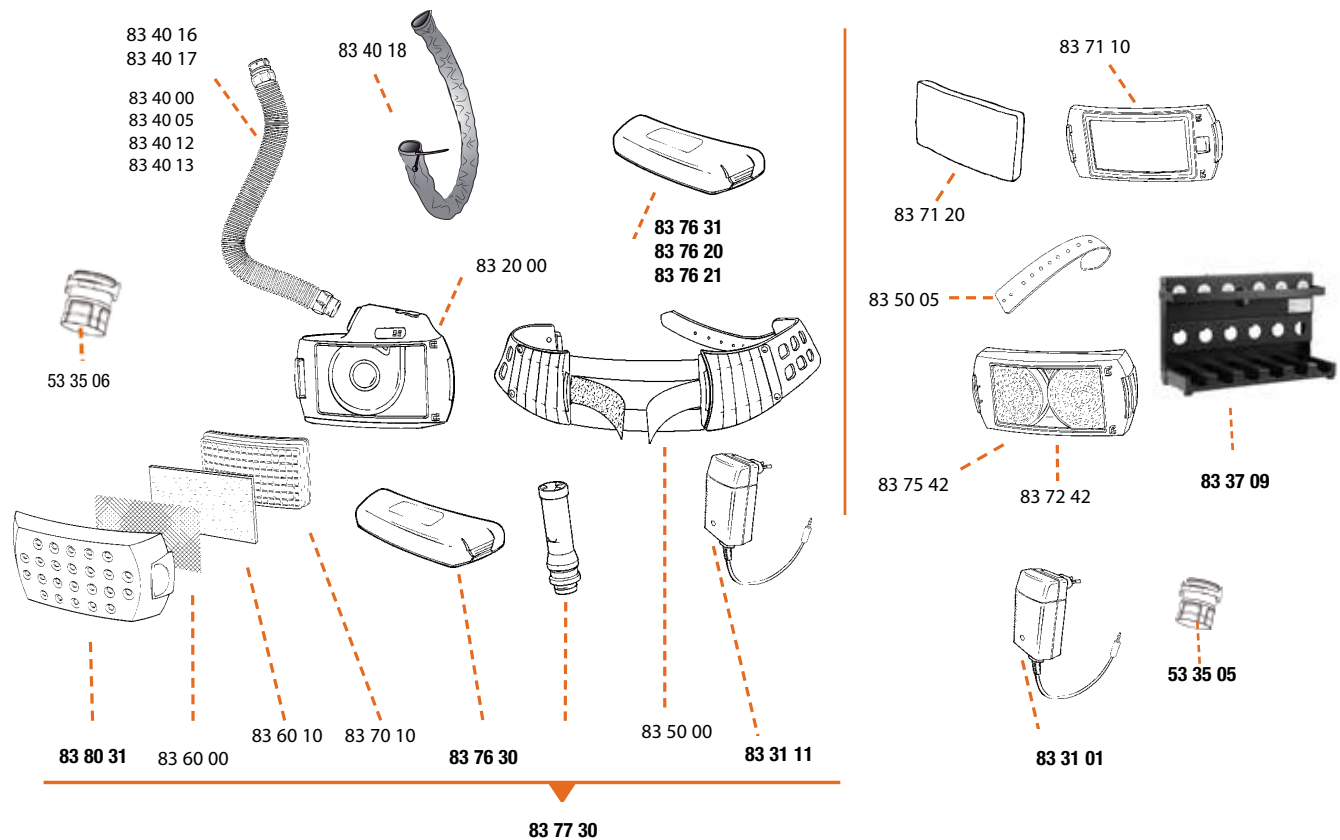
Part	Description
168502	SWEATBAND 100 & 9100 MP PK=2
168505	SWEATBAND 100 & 9100 MP PK=5
168550	SWEATBAND 100 & 9100 MP PK=50
169001	THROAT PROTECTION TECAWELD 100 & 9100 MP
169013	SAFETY HELMET COVER 9100 MP
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
197011	EARMUFFS WITH HELMET ATTACHMENT 9100 MP
197150	FLIP UP MECHANISM 9100 MP
197151	PIVOT KIT 9100 MP
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
500026	LENS WELDING 9100XXi SPEEDGLAS
523000	VISOR PLATE 9100 FX PK=5
523001	VISOR PLATE ANTI-FOG 9100 FX PK=5
526000	LENS COVER OUTER STD 9100 PK=10
527000	COVER LENS OUTER HC 9100 PK=10
527070	LENS COVER OUTER HT 9100 PK=10
528025	LENS COVER INNER 9100XX PK=5
531000	HOLDER BATTERY 9100
532016	SIDEWINDOWS COVER PLATE 9100 FX PK=2
533001	HEAD HARNESS 9100 MP
533505	ADAPTOR ADFLO BREATHING TUBE 9100 FX AIR
534200	FACE SEAL 9100 MP
536200	HEAD HARNESS BACK PART 9100
540500	FRONT COVER KIT 9100 FX
570495	SHELL OUTER 9100 MP
570895	SHELL INNER 9100 MP
572800	HELMET WELDING WITH HARD HAT 9100 MP
790101	CARRY BAG SPEEDGLAS
896055	HARD HAT 9100 MP

3M™ Versaflo™ Headtops M-Series



Part	Description
168502	SWEATBAND 100 & 9100 MP PK=2
168505	SWEATBAND 100 & 9100 MP PK=5
168550	SWEATBAND 100 & 9100 MP PK=50
197011	EARMUFFS WITH HELMET ATTACHMENT 9100 MP
533001	HEAD HARNESS 9100 MP
533505	ADAPTOR ADFLO BREATHING TUBE 9100 FX AIR
536200	RATCHET FACE SHIELD
834016	TUBE BREATHING SELF ADJUSTING QRS ADFLO
834017	TUBE BREATHING HEAVY DUTY RUBBER QRS ADFLO
834018	TUBE BREATHING COVER FLAME RESISTANT ADFLO
895107	FACE SHIELD WITH FR FACE SEAL
895307	HARD HAT FACE SHIELD WITH FR FACE SEAL
895407	HARD HAT FACE SHIELD WITH FR SHROUD
895116	AIRFLOW DEFLECTOR 895107
895150	HEAD SUSPENSION 895107
895154	FOREHEAD SEAL 895107
895316	AIRFLOW DEFLECTOR 895307
895354	FOREHEAD SEAL 895307
895919	VISOR FRAME BUTTONS FACE SHIELD PK=10
895920	VISOR FRAME FACE SHIELD
895921	VISOR GASKET FACE SHIELD PK=5
895927	VISOR COATED FACE SHIELD PK=5
895928	PEEL-OFF VISOR COVER FACE SHIELD PK=40
895937	FLAME RESISTANT FACE SEAL FACE SHIELD PK=5
895956	RATCHET COMFORT PAD FACE SHIELD PK=10
895958	CHIN STRAP FACE SHIELD
895960	PIVOT KIT FACE SHIELD
895972	FLAME RESISTANT HEADTOP COVER FACE SHIELD
895976	HEAD, NECK & SHOULDER COVER FACE SHIELD

3M™ Adflo™ Powered Air Respirator System



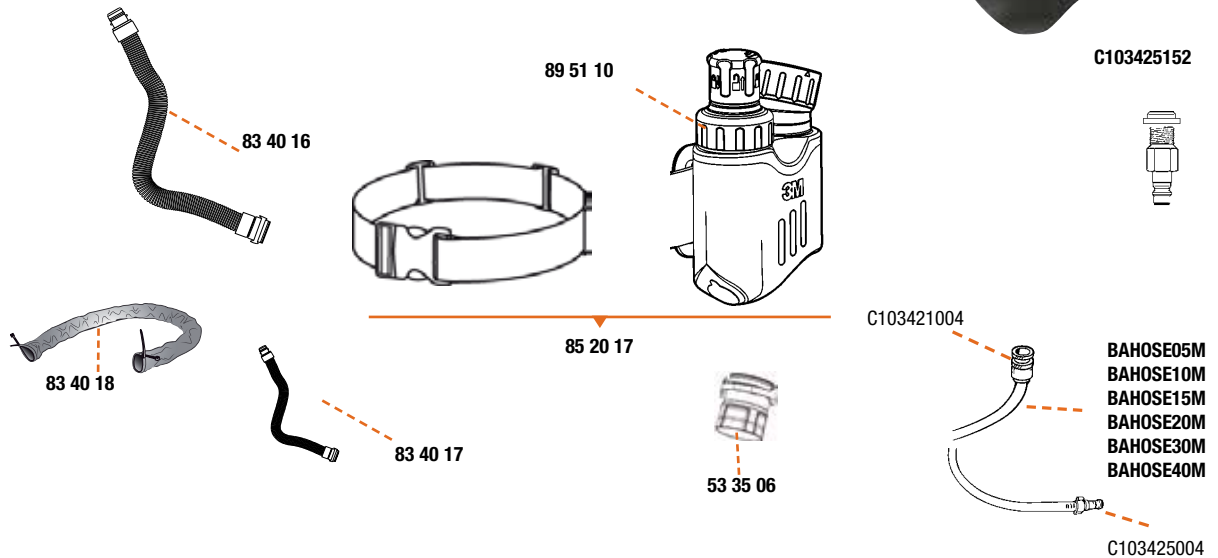
Part	Description
533505	ADAPTOR ADFLO BREATHING TUBE 9100 FX AIR
533506	ADAPTOR QRS BREATHING TUBE TO 9000
832000	PAPR MOTOR WITH HOUSING ADFLO
833101	CHARGER BATTERY NIMH ADFLO (NOT SUITABLE FOR NEW LI-ION ADFLO SYSTEMS)
833111	CHARGER BATTERY LI-ION ADFLO
833709	BATTERY 6 MULTI-STATION ADFLO
834000*	TUBE BREATHING 0.95M ADFLO
834005*	TUBE BREATHING RUBBER 0.95M ADFLO
834012*	TUBE BREATHING 1.9M ADFLO
834013*	TUBE BREATHING 2.85M ADFLO
834016	TUBE BREATHING SELF ADJUSTING QRS ADFLO
834017	TUBE BREATHING HEAVY DUTY RUBBER QRS ADFLO
834018	TUBE BREATHING COVER FLAME RESISTANT ADFLO
835000	BELT ADFLO
835005	BELT EXTENSION ADFLO
836000	SPARK ARRESTOR ADFLO
836010	PRE-FILTER ADFLO PK=5
837010	FILTER PARTICLE PSL ADFLO
837110	FILTER ODOUR ADFLO
837120	FILTER ODOUR REPLACEMENT PAD ADFLO
837242	FILTER NUIS LEVEL ORGANIC VAPOUR/ACID GAS ADFLO
837542	FILTER GAS A1 ADFLO
837620	BATTERY STANDARD NIMH ADFLO
837621	BATTERY HEAVY DUTY NIMH ADFLO
837630	BATTERY STANDARD LI-ION ADFLO
837631	BATTERY HEAVY DUTY LI-ION ADFLO
837730	RESPIRATOR STANDARD LI-ION ADFLO
837731	RESPIRATOR HEAVY DUTY LI-ION ADFLO
838031	FILTER COVER LI-ION ADFLO

* Hoses are equipped with a 9000 series headtop connection. If intended for use with a 9100 headtop then the 533505 adaptor is required or simply order hoses with a QRS 9100 headtop connection (834016, 834017).

3M™ Supplied Air Regulator



C103425152



Part	Description
533506	ADAPTOR QRS BREATHING TUBE TO 9000
834016	TUBE BREATHING SELF ADJUSTING QRS ADFLO
834017	TUBE BREATHING HEAVY DUTY RUBBER QRS ADFLO
834018	TUBE BREATHING COVER FLAME RESISTANT ADFLO
852017	REGULATOR V-500E WITH BELT
895110	CARBON FILTER & TWO O RINGS SAR
BAHOSE05M	HOSE BREATHING AIR 5M WITH CEJN FITTINGS
BAHOSE10M	HOSE BREATHING AIR 10M WITH CEJN FITTINGS
BAHOSE15M	HOSE BREATHING AIR 15M WITH CEJN FITTINGS
BAHOSE20M	HOSE BREATHING AIR 20M WITH CEJN FITTINGS
BAHOSE30M	HOSE BREATHING AIR 30M WITH CEJN FITTINGS
BAHOSE40M	HOSE BREATHING AIR 40M WITH CEJN FITTINGS
C103421004	COUPLING HOSE CONNECTION 10MM (3/8)
C103425004	NIPPLE HOSE CONNECTION 10MM (3/8)
C103425152	NIPPLE MALE THREAD R 1/4 (852155)

3M™ Personal Air Conditioner

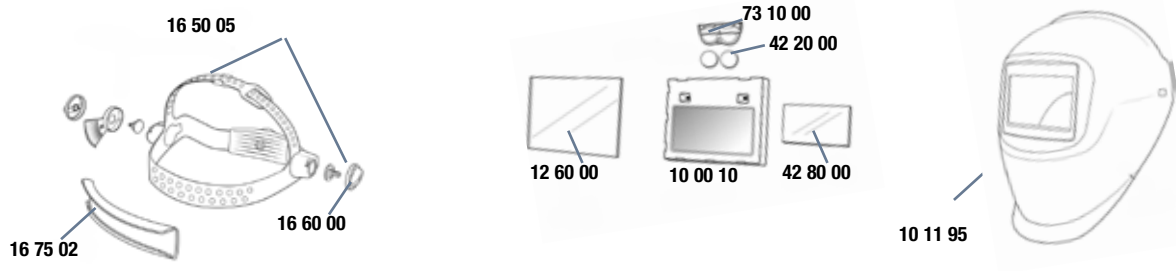


Part	Description
AWS4590	VORTEX COOLER INC MUFFLER EXC HOSE

3M™ 10V Welding Helmet

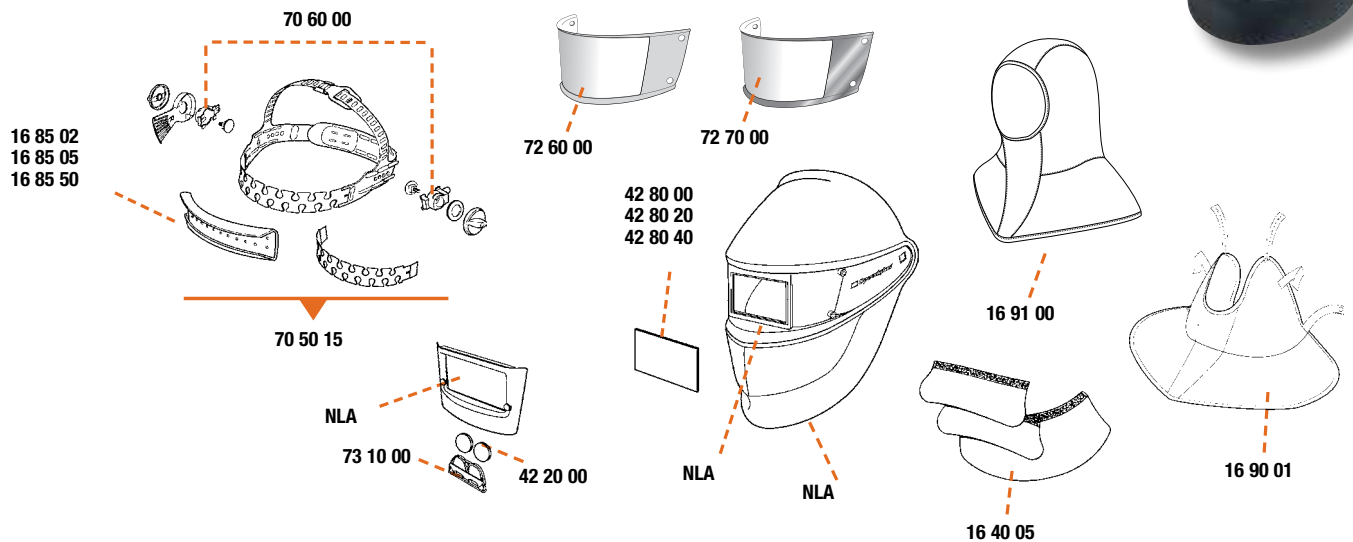


10 11 10



Part	Description
100010	LENS WELDING VARIABLE 10V
101110	HELMET WELDING 10V
101195	SHELL WELDING EXC LENS & HARNESS 10
126000	LENS COVER OUTER 10 90X110X1MM PK=2
165005	HEAD HARNESS 10
166000	ATTACHMENTS HEAD HARNESS 10
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
428000	LENS COVER INNER 100 & 9002V PK=5
731000	HOLDER BATTERY 100 & 10V

3M™ Speedglas™ Super Light Welding Helmet SL



Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
168502	SWEATBAND 100 & 9100 MP PK=2
168505	SWEATBAND 100 & 9100 MP PK=5
168550	SWEATBAND 100 & 9100 MP PK=50
169001	THROAT PROTECTION TECAWELD 100 & 9100 MP
169100	HEAD CAPE TECAWELD
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
428000	LENS COVER INNER 100 & 9002V PK=5
428020	LENS COVER INNER SHADE 1 100 PK=5
428040	LENS COVER INNER SHADE 2 100 PK=5
705015	HEAD HARNESS 100 & 9000
706000	HEAD HARNESS ATTACHMENTS 100 & SL
726000	LENS COVER OUTER STD FROSTED SL PK=5
727000	LENS COVER OUTER HC SILVER SL PK=5
731000	HOLDER BATTERY 100 & SL

3M™ Speedglas™ Protection & Accessories



95 44 10



95 44 11



19 70 12



79 01 01



95 40 00



95 40 10



95 40 20



95 41 01, 95 41 02, 95 41 03



16 90 05

16 90 10



16 90 06
16 90 07

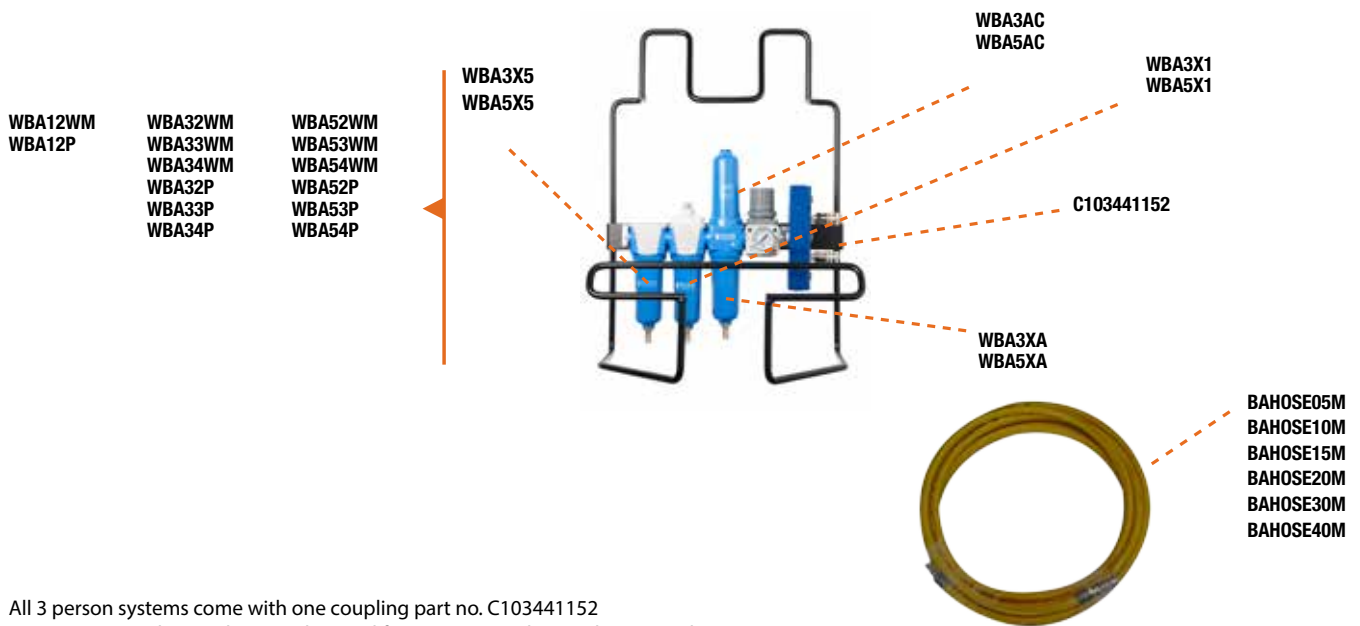
16 90 10



16 91 00

Part	Description
169005	HEAD PROTECTION 9100
169006	HEAD COVER SMALL 9100 FX
169007	HEAD COVER LARGE 9100 FX
169010	THROAT PROTECTION 9100
169100	HEAD CAPE TECAWELD
197012	EARMUFFS WELDING BLACK NECKBAND
790101	CARRY BAG SPEEDGLAS
954000	SPEEDGLAS SPORTS BAG
954010	SPEEDGLAS BACK PACK
954020	SPEEDGLAS HELMET DRAWSTRING BAG
954101,*102,*103	SPEEDGLAS HOODIE (M - 954101, L - 954102, XL - 954103)
954410	SPEEDGLAS WELDERS CAP
954411	SPEEDGLAS BANDANA WELDERS CAP

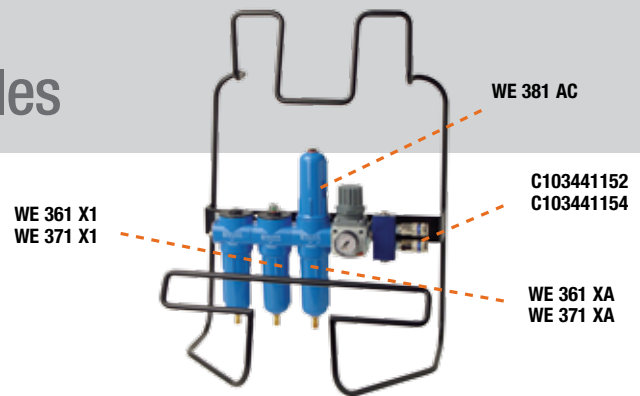
Breathable Air Filtration Systems



All 3 person systems come with one coupling part no. C103441152
 For 2 persons order another coupling and for 3 persons order another 2 couplings
 All 5 person systems come with two couplings part no. C103441152
 For 3 persons order another coupling, 4 persons order another 2 couplings & 5 persons order another 3 couplings

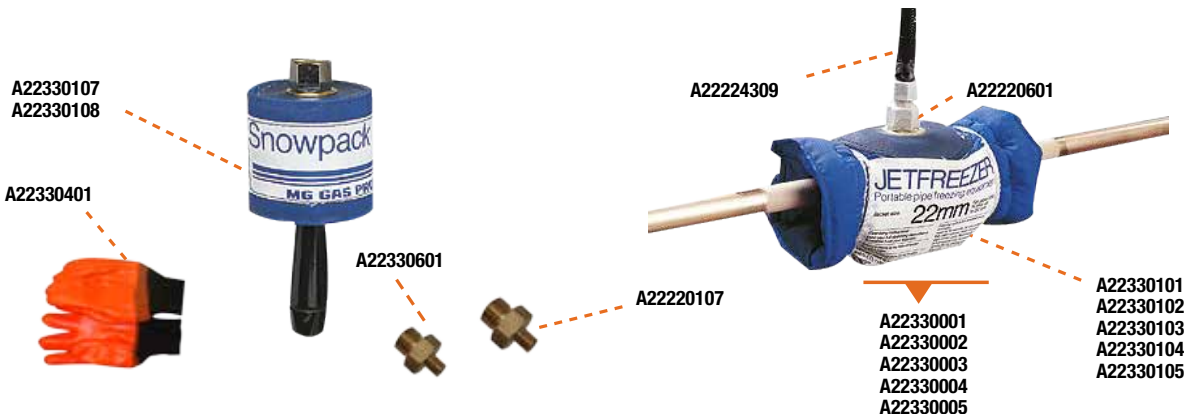
Part	Description
C103441152	COUPLING MALE THREAD R 1/4 BAS
WBA12WM	BA SYSTEM 1 PERSON 2 STAGE WALL MOUNT
WBA12P	BA SYSTEM 1 PERSON 2 STAGE PORTABLE
WBA32WM	BA SYSTEM 3 PERSON 2 STAGE WALL MOUNT
WBA33WM	BA SYSTEM 3 PERSON 3 STAGE WALL MOUNT
WBA34WM	BA SYSTEM 3 PERSON 4 STAGE WALL MOUNT
WBA32P	BA SYSTEM 3 PERSON 2 STAGE PORTABLE
WBA33P	BA SYSTEM 3 PERSON 3 STAGE PORTABLE
WBA34P	BA SYSTEM 3 PERSON 4 STAGE PORTABLE
WBA52WM	BA SYSTEM 5 PERSON 2 STAGE WALL MOUNT
WBA53WM	BA SYSTEM 5 PERSON 3 STAGE WALL MOUNT
WBA54WM	BA SYSTEM 5 PERSON 4 STAGE WALL MOUNT
WBA52P	BA SYSTEM 5 PERSON 2 STAGE PORTABLE
WBA53P	BA SYSTEM 5 PERSON 3 STAGE PORTABLE
WBA54P	BA SYSTEM 5 PERSON 4 STAGE PORTABLE
WBA3AC	BA ELEMENT ACTIVATED CARBON (UPPER) 1&3 PERSON
WBA3XA	BA ELEMENT 0.01 MICRON FOR (LOWER) 1&3 PERSON
WBA3X1	BA ELEMENT 1 MICRON PRE FILTER 3 PERSON
WBA3X5	BA ELEMENT 5 MICRON/WATER SEPARATOR 3 PERSON
WBA5AC	BA ELEMENT ACTIVATED CARBON (UPPER) 5 PERSON
WBA5XA	BA ELEMENT 0.01 MICRON (LOWER) 5 PERSON
WBA5X1	BA ELEMENT 1 MICRON PRE FILTER 5 PERSON
WBA5X5	BA ELEMENT 5 MICRON/WATER SEPARATOR 5 PERSON
BAHOSE05M	HOSE BREATHING AIR 5M WITH CEJN FITTINGS
BAHOSE10M	HOSE BREATHING AIR 10M WITH CEJN FITTINGS
BAHOSE15M	HOSE BREATHING AIR 15M WITH CEJN FITTINGS
BAHOSE20M	HOSE BREATHING AIR 20M WITH CEJN FITTINGS
BAHOSE30M	HOSE BREATHING AIR 30M WITH CEJN FITTINGS
BAHOSE40M	HOSE BREATHING AIR 40M WITH CEJN FITTINGS
54882634P	RESPIRATOR V-500E 9100XXi FX AIR SPEEDGLAS & FILTRATION SYSTEM
549026C34P	UPGRADE KIT 9100XXi FX AIR SPEEDGLAS WITH COOLER & FILTRATION SYSTEM

Pre 2011 Breathable Air Consumables



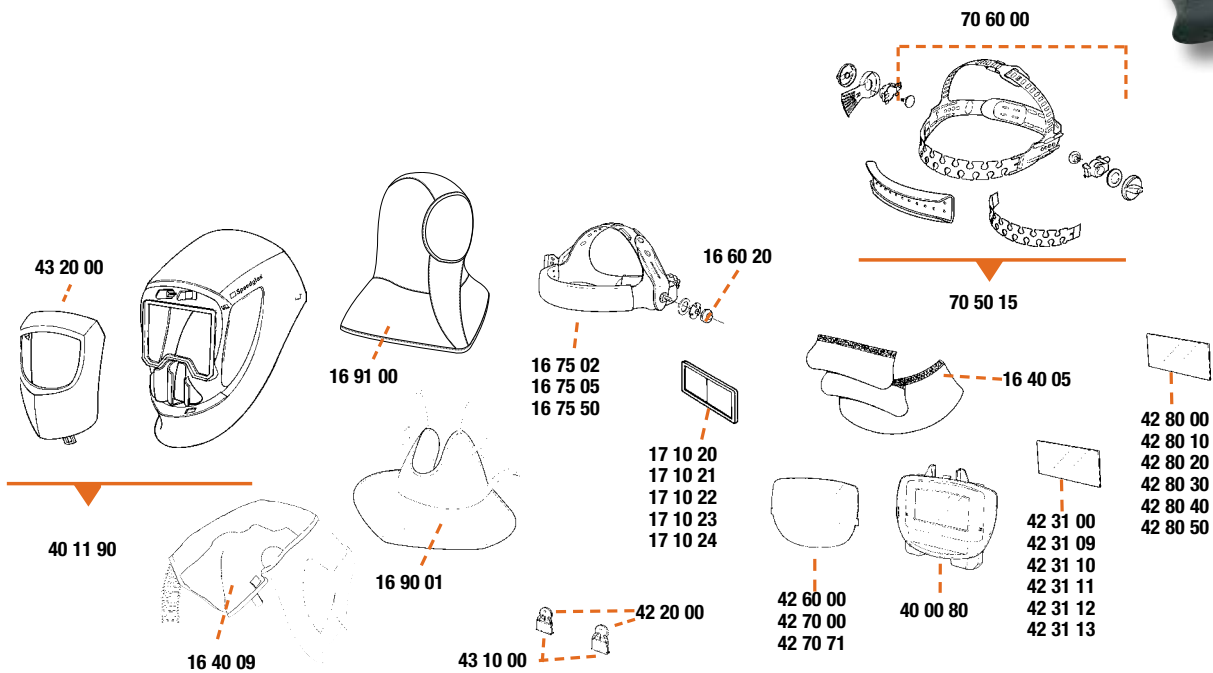
Part	Description
C103441152	COUPLING MALE THREAD R 1/4 BAS
C103441154	COUPLING MALE THREAD R 3/8 BAS
WE361X1	PRE-FILTER 1 MICRON 1-2 MAN BAS
WE361XA	HIGH EFFICIENCY FILTER 0.01 1-2 MAN BAS
WE371X1	PRE-FILTER 1 MICRON 3-4 MAN BAS
WE371XA	HIGH EFFICIENCY FILTER 0.01 3-4 MAN BAS
WE381AC	CARBON FILTER TO SUIT ALL BAS
WD006AC	CARBON FILTER TO SUIT DH K006AC
WD009X1	PRE-FILTER 1 MICRON TO SUIT DH K009AO
WD009XA	FILTER 0.1 MICRON TO SUIT DH K009AA

Liquid CO₂ Portable Pipe Freezing Equipment



Part	Description
A22220107	ADAPTOR HOSE COUPLING JETFREZZER
A22220601	WASHER 1/4 JETFREZZER
A22224309	HOSE 2.4M 1/4 BSP JETFREZZER
A22330001	KIT PIPE FREEZING 22MM JETFREZZER
A22330002	KIT PIPE FREEZING 42MM JETFREZZER
A22330003	KIT PIPE FREEZING 80MM JETFREZZER
A22330004	KIT PIPE FREEZING 100MM JETFREZZER
A22330005	KIT PIPE FREEZING 15MM JETFREZZER
A22330101	JACKET PIPE FREEZING 22MM JETFREZZER
A22330102	JACKET PIPE FREEZING 42MM JETFREZZER
A22330103	JACKET PIPE FREEZING 80MM JETFREZZER
A22330104	JACKET PIPE FREEZING 100MM JETFREZZER
A22330105	JACKET PIPE FREEZING 15MM JETFREZZER
A22330107	DRY ICE MAKER 30GMS SNOWPACK
A22330108	DRY ICE MAKER 500GMS SNOWPACK
A22330401	GLOVES JETFREZZER
A22330601	TEE PIECE JETFREZZER

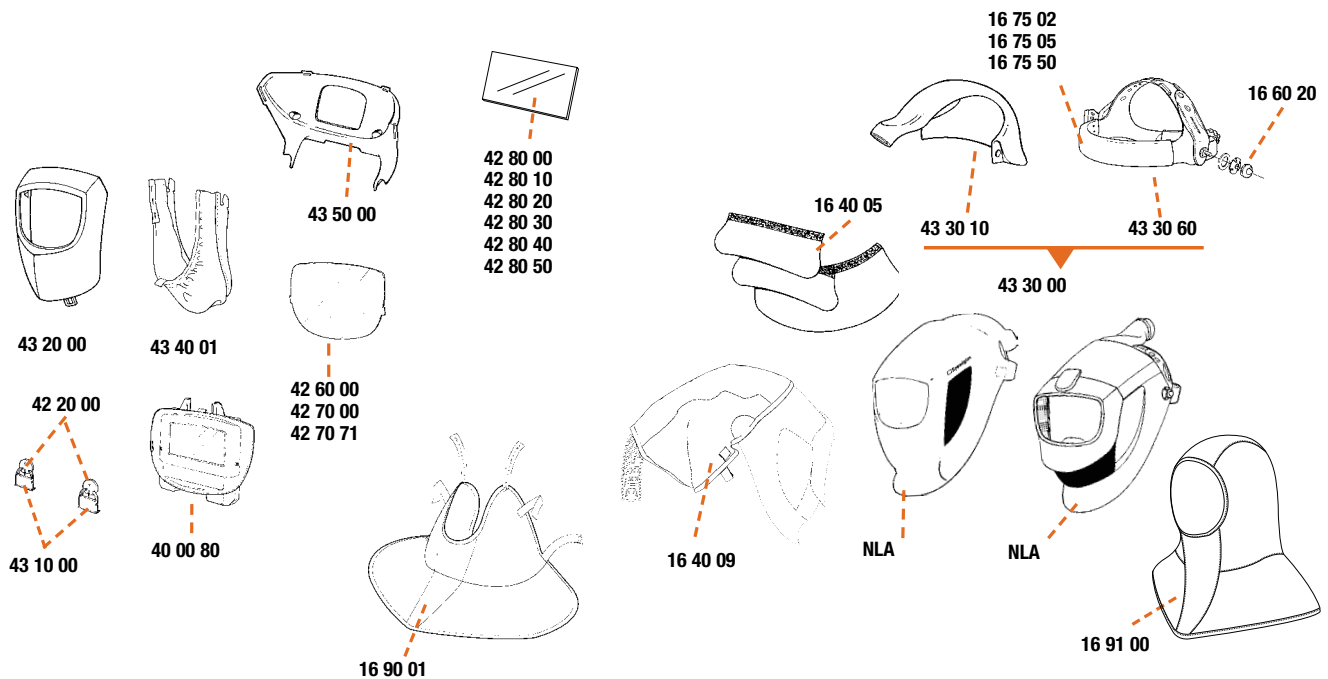
3M™ Speedglas™ Welding Helmet 9000



Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
164009	HEAD PROTECTION TECAWELD 100 & 9000
166020	ATTACHMENTS HEAD HARNESS 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
169001	THROAT PROTECTION TECAWELD 100 & 9100 MP
169100	HEAD CAPE TECAWELD
171020	LENS MAGNIFYING 1.0X 9100 100 & 9000
171021	LENS MAGNIFYING 1.5X 9100 100 & 9000
171022	LENS MAGNIFYING 2.0X 9100 100 & 9000
171023	LENS MAGNIFYING 2.5X 9100 100 & 9000
171024	LENS MAGNIFYING 3.0X 9100 100 & 9000
400080	LENS WELDING 9002X SPEEDGLAS
401190	SHELL EXC HARNESS 9000
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
423100	LENS COVER INNER 60X110MM 9000 CONSTANT PK=5
423109	LENS WELDING FILTER SHADE 9 PASSIVE 9000
423110	LENS WELDING FILTER SHADE 10 PASSIVE 9000
423111	LENS WELDING FILTER SHADE 11 PASSIVE 9000
423112	LENS WELDING FILTER SHADE 12 PASSIVE 9000
423113	LENS WELDING FILTER SHADE 13 PASSIVE 9000
426000 (420150)	LENS COVER OUTER STD 140C 9000 PK=10
427000 (420100)	LENS COVER OUTER HC 145C 9000 PK=10
427071 (420171)	LENS COVER OUTER HT 205C 9000 PK=10
428000 (420200)	LENS COVER INNER 100 & 9002V PK=5
428010 (420210)	LENS COVER INNER 9002X PK=5
428020	LENS COVER INNER SHADE 1 100 PK=5
428030	LENS COVER INNER SHADE 1 9002X PK=5
428040	LENS COVER INNER SHADE 2 100 PK=5
428050	LENS COVER INNER SHADE 2 9002X PK=5
431000	HOLDER BATTERY 9000 PK=2
432000	COVER FRONT SILVER 9000
705015	HEAD HARNESS 100 & 9000
706000	HEAD HARNESS ATTACHMENTS 100 & SL

The parts listed above belong to a product that has been superseded. For information on the new product/s visit www.speedglas.com.au

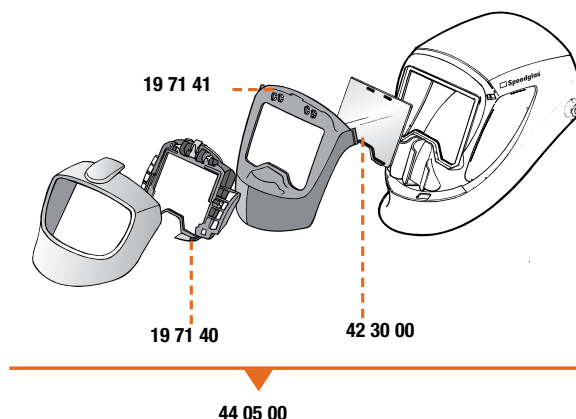
3M™ Speedglas™ Welding Helmet 9000 Series for Respiratory Protection



Part	Description
164005	EAR/THROAT PROTECTION LEATHER 100 & 9000
164009	HEAD PROTECTION TECAWELD 100 & 9000
166020	ATTACHMENTS HEAD HARNESS 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
169001	THROAT PROTECTION TECAWELD 100 & 9100 MP
169100	HEAD CAPE TECAWELD
400080	LENS WELDING 9002X SPEEDGLAS
422000	BATTERY LITHIUM 9100, 100 & 9000 PK=2
426000 (420150)	LENS COVER OUTER STD 140C 9000 PK=10
427000 (420100)	LENS COVER OUTER HC 145C 9000 PK=10
427071 (420171)	LENS COVER OUTER HT 205C 9000 PK=10
428000 (420200)	LENS COVER INNER 100 & 9002V PK=5
428010 (420210)	LENS COVER INNER 9002X PK=5
428020	LENS COVER INNER SHADE 1 100 PK=5
428030	LENS COVER INNER SHADE 1 9002X PK=5
428040	LENS COVER INNER SHADE 2 100 PK=5
428050	LENS COVER INNER SHADE 2 9002X PK=5
431000	HOLDER BATTERY 9000 PK=2
432000	COVER FRONT SILVER 9000
433000	HEAD HARNESS & AIR DUCT 9000 ADFLO/FAC
433010	AIR DUCT 9000 ADFLO/FAC
433060	HEAD HARNESS EXC AIR DUCT 9000 ADFLO/FAC
434001	FACE SEAL FOR WELDING HELMET 9000 ADFLO/FAC
435000	AIR SPREADER 9000 ADFLO/FAC

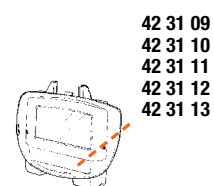
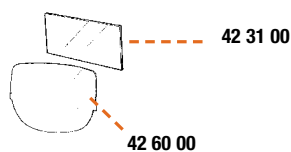
The parts listed above belong to a product that has been superseded. For information on the new product/s visit www.speedglas.com.au

3M™ Speedglas™ Conversion Kit FlexView 9000



Part	Description
197140	HOLDER LENS WELDING 9000 FLEXVIEW
197141	WEDGES LOCKING 9000 FLEXVIEW PK=20
423000 (420302)	LENS COVER 1.5MM 9000 FLEXVIEW PK=10
440500	CONVERSION KIT 9000 FLEXVIEW

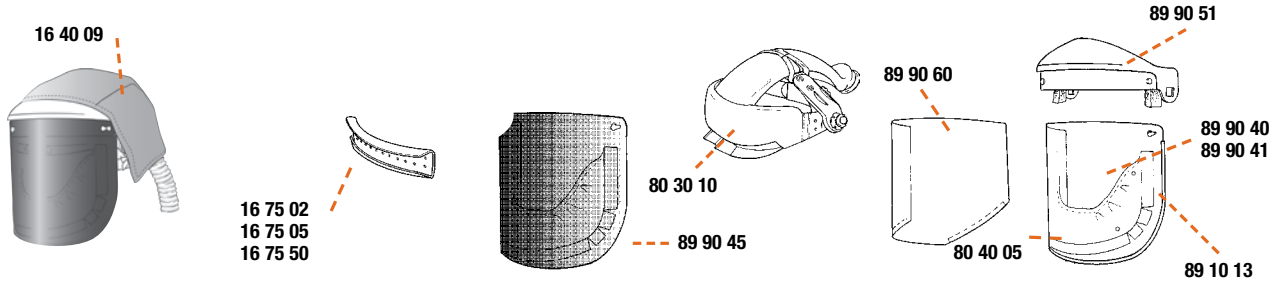
3M™ Speedglas™ Constant Welding Helmet 9000



Part	Description
423100	LENS COVER INNER 60X110MM 9000 CONSTANT PK=5
423109	LENS WELDING FILTER SHADE 9 PASSIVE 9000
423110	LENS WELDING FILTER SHADE 10 PASSIVE 9000
423111	LENS WELDING FILTER SHADE 11 PASSIVE 9000
423112	LENS WELDING FILTER SHADE 12 PASSIVE 9000
423113	LENS WELDING FILTER SHADE 13 PASSIVE 9000
426000	LENS COVER OUTER STD 140C 9000 PK=10

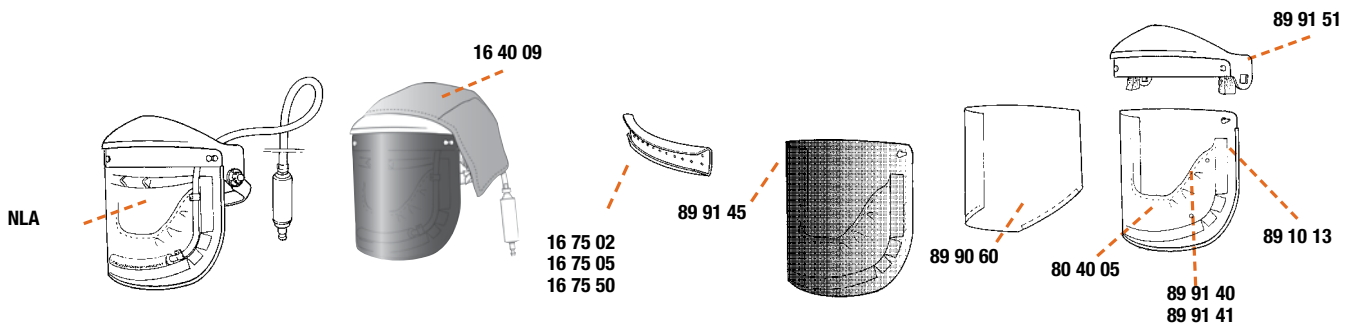
The parts listed above belong to a product that has been superseded. For information on the new product/s visit www.speedglas.com.au

3M™ Visor for Adflo™ Powered Air Respirator



Part	Description
164009	HEAD PROTECTION TECAWELD 100 & 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
803010	HEAD HARNESS INC AIR DUCT VISOR
804005	FACE SEAL FOR VISOR CLEAR
891013	VELCRO PK=2
899040	VISOR FRONT CLEAR POLYCARBONATE ADFLO
899041	VISOR FRONT CLEAR ACETATE ADFLO
899045	VISOR FRONT SHADE 5 POLYCARBONATE ADFLO
899051	VISOR BROW PROTECTION ADFLO
899060	VISOR PROTECTION FILM ADFLO/FAC PK5

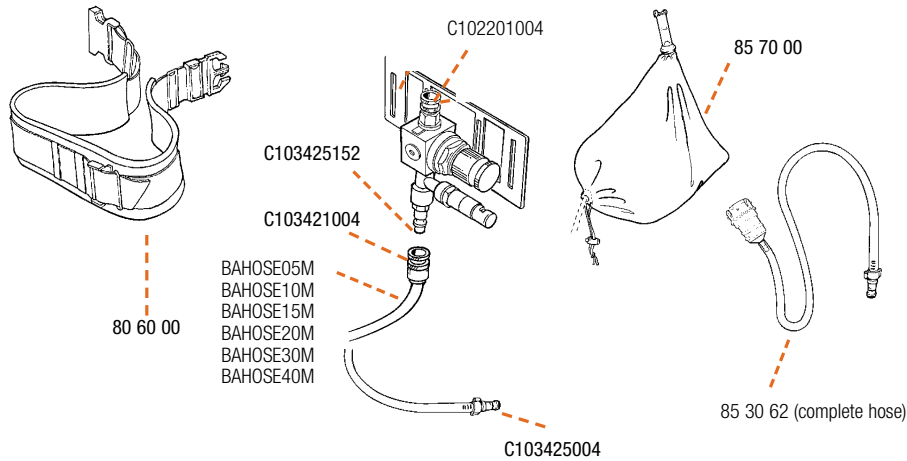
3M™ Visor for Fresh-air™ C Supplied Air Regulator



Part	Description
164009	HEAD PROTECTION TECAWELD 100 & 9000
167502	SWEATBAND TOWELLING 100 & 9000 PK=2
167505	SWEATBAND TOWELLING 100 & 9000 PK=5
167550	SWEATBAND TOWELLING 100 & 9000 PK=50
804005	FACE SEAL FOR VISOR CLEAR
891013	VELCRO PK=2
899060	VISOR PROTECTION FILM ADFLO/FAC PK5
899140	VISOR FRONT CLEAR POLYCARBONATE FAC
899141	VISOR FRONT CLEAR ACETATE FAC
899145	VISOR FRONT SHADE 5 POLYCARBONATE FAC
899151	VISOR BROW PROTECTION FAC

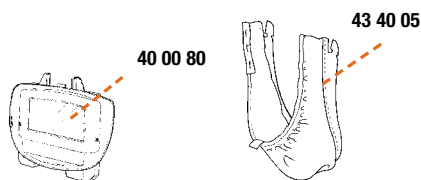
The parts listed above belong to a product that has been superseded. For information on the new product/s visit www.speedglas.com.au

3M™ Fresh-air™ C Supplied Air Regulator



Part	Description
806000	BELT COMFORT F-AC
853062	HOSE AIR FOR 9000 WELDING SHIELD FAC
857000	BAG TEST AIRFLOW FAC
BAHOSE05M	HOSE BREATHING AIR 5M WITH CEJN FITTINGS
BAHOSE10M	HOSE BREATHING AIR 10M WITH CEJN FITTINGS
BAHOSE15M	HOSE BREATHING AIR 15M WITH CEJN FITTINGS
BAHOSE20M	HOSE BREATHING AIR 20M WITH CEJN FITTINGS
BAHOSE30M	HOSE BREATHING AIR 30M WITH CEJN FITTINGS
BAHOSE40M	HOSE BREATHING AIR 40M WITH CEJN FITTINGS
C102201004	COUPLING FOR 3/8 HOSE NBR (852158)
C103421004	COUPLING HOSE CONNECTION 10MM (3/8)
C103425004	NIPPLE HOSE CONNECTION 10MM (3/8)
C103425152	NIPPLE MALE THREAD R 1/4 (852155)

3M™ Speedglas™ 9000 Safety Helmet for Respiratory Protection



Part	Description
400080	LENS WELDING 9002X SPEEDGLAS
434005	FACE SEAL FOR HARD HAT 9000 ADFLO/FAC
440500	CONVERSION KIT 9000 FLEXVIEW

The parts listed above belong to a product that has been superseded. For information on the new product/s visit www.speedglas.com.au

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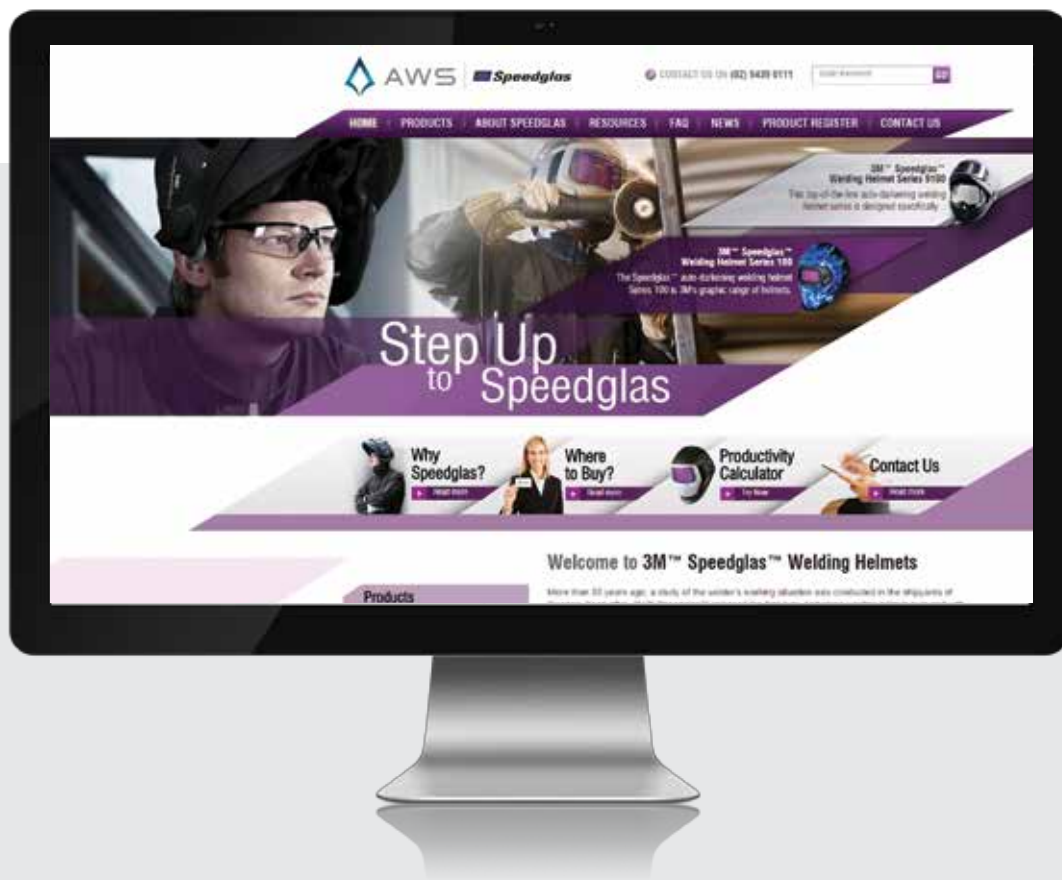
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