



Science.  
Applied to Life.™

**3M™ Versaflo™ M-Series Helmet Assembly  
with 3M™ Speedglas™ Welding Shield**

# Comfort. Without compromise.

Weld and grind all day long in comfort – and with confidence! Head, eye, face and APF 1000 respiratory protection in a rugged, lightweight 3M powered and supplied air system.

**#3MScienceofSafety**

# Integrated protection against tough workplace hazards

We've matched up our advanced PAPR and welder protection technology to bring you a complete PPE system in a lightweight, compact design with ergonomic, adjustable head suspension. It's comfortable to wear with a wider field of vision.

## Customizable, to fit your needs

The M-series head top is compatible with a number of 3M's most innovative respiratory and welding protection solutions – including our Adflo and Versaflo TR-600, GVP Powered Air Purifying Respirators, and Supplied Air Systems

APF 1000 protection for challenging environments





If you dress for work in a helmet, face shield and respirator – instead of a suit and tie – you know that comfort and safety are crucial to your ability to do great work.

That's why we continually seek input from welders all over the world to learn how we can design products that can help make tough jobs more comfortable and more productive.

### The new standard of comfort

We're pleased to announce our latest PPE breakthrough, designed exclusively for welders who also do grinding. It combines our most advanced 3M™ Versaflo and Adflo™ Powered Air-Purifying Respirators with state-of-the-art 3M™ Speedglas™ Natural Color technology to deliver a new level of visibility. Best of all, we've made it 10% lighter than our L-905SG helmet and more comfortable, so you can focus on your work, instead of your gear.

**3M™ Versaflo™ M-Series Helmet Assembly with Speedglas™ Welding Shield** consists of a variety of components that work together as an integrated system to help protect you against fumes, smoke, sparks and other hazards encountered in heavy duty welding environments.

### Keep your head in the game

The system is based on our lighter weight Versaflo M-series head top, which features a six-point suspension for excellent comfort and weight distribution – and a larger field of view through a clear, liftable visor. It also includes protection from OSHA permissible exposure limit (PEL) hazards for manganese, hexavalent chromium, lead and beryllium. The system is componentized; therefore current users of our M-series head tops can add functionality to allow the head top to be used for both grinding and welding.

### Versatility to meet most of the demanding requirements of your workplace – and budget

The M-series headtop with Speedglas welding shield is compatible with a number of 3M's most innovative respiratory and welding protection solutions – including our Adflo and Versaflo TR-600 Powered Air Purifying Respirators, 3M™ Supplied Air Systems, shrouds, helmet covers and more. The system can also be fitted to accommodate our advanced Speedglas Auto Darkening Filter Kit 9100XXi, featuring improved optics that give welders more contrast and natural-looking color, in both dark and light states.



### See the difference!

Improved optics in the new 3M™ Speedglas™ Welding Filter 9100XXi provide more contrast and natural-looking color, as shown by these photos.



3M™ Speedglas™ Welding Filter 9100XXi. Shade 3.



3M™ Speedglas™ Welding Filter 9100XX. Shade 3.



Competitor Welding Filter. Shade 3.

This advanced system is popular for applications including:

- MIG, TIG and GMAW welding
- Arc gouging
- Plasma cutting
- Grinding
- Abrasive cutting

# The best of both worlds

If you do both welding and grinding, now there's another integrated 3M PPE system designed especially for you.



## Stay in touch

Visors on Versaflo M-Series Helmet Assemblies can be lifted in non-hazardous areas to help facilitate communications

### Auto-Darkening Filter

Helps protect from welding arc and impact, and offers larger viewing area compared to L-905SG. Meets ANSI Z87.2010/2015

### Flame resistant helmet cover

Spark and spatter retardant.

### Take cover

More durable leather shroud to help protect from spark and splatter.



### M-409SG 3M™ Versaflo™ Respiratory M-Series Helmet Assembly

With Heavy-Duty Leather Shroud, flame resistant helmet cover, and Speedglas™ Welding Shield (No ADF included).

### Take a load off

10% weight reduction compared to L-905SG. Helmet meets ANSI Z89.1 Type I, Class G limited head protection.

### Weld, grind and more. With confidence.

Head top can be used for most applications including arc gouging, plasma cutting, grinding, MIG, TIG, and GMAW welding.



### Flame resistant shroud for protection

Spark and splatter retardant shroud.

### M-407SG 3M™ Versaflo™ Respiratory M-Series Helmet Assembly

With flame resistant shroud and Speedglas™ Welding Shield (No ADF included).

### 3M™ Adflo™ PAPR and Versaflo™ M-409SG Helmet Assembly with 3M™ Speedglas™ Welding Shield

Kit 38-1101-30iSW includes:

- Versaflo™ M-409SG Helmet Assembly with Speedglas™ Welding Shield including leather shroud and helmet cover
- 3M™ Speedglas™ 9100 XXI auto darkening filter
- 3M™ Adflo™ Powered Air Purifying Respirator
- 3M™ Adflo™ Lithium Ion Battery
- 3M™ Adflo™ PAPR Battery Smart Charger
- 3M™ Speedglas™ Sound-Dampening Breathing Tube
- 3M™ Adflo™ Leather Belt
- 3M™ Adflo™ High Efficiency Particulate Filter
- 3M™ Adflo™ Prefilter
- 3M™ Adflo™ Spark Arrestor



### Expand your view

Shade five side windows help you see what else is around you.

### Reduce your exposure

APF of 1000.

### See what you've been missing

Improved optics in the 3M™ Speedglas™ 9100XXi Auto-Darkening Filter offers more realistic color, contrast and detail.

### Take a deep breath

The 3M™ Adflo™ PAPR has a high efficiency particulate filter that can be "stacked" onto an optional Nuisance Odor filter or OV/AG cartridge. Audible and visual alarms signal low airflow and low battery charge.

# Selection Guide

Here's what you need for a 3M™ Adflo™ or 3M™ Versaflo™ System.

1

First, choose your helmet.



**M-409SG**

3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Leather Shroud, Helmet Cover and Speedglas™ Welding Shield (No ADF included). M-409SG



**M-407SG**

3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Shroud and Speedglas™ Welding Shield (No ADF included). M-407SG

2

Next, choose your auto-darkening filter.



**3M™ Speedglas™ 9100XXi Auto Darkening Filter**

06-0000-30i



**3M™ Speedglas™ 9100X Auto Darkening Filter**

06-0000-20



**3M™ Speedglas™ 9100V Auto Darkening Filter**

06-0000-10

3

Now, choose your breathing tube and air purifying respirator.



**3M™ Speedglas™ Sound-Dampening Breathing Tube\* SG-50W**



**3M™ Adflo™ Turbo Assembly**

Includes blower unit, flow indicator, spark arrestor, prefilter, HE particulate filter, filter cover, lithium ion battery, and smart charger. (Headgear, belt and breathing tube not included).

35-3499-01



**3M™ Versaflo™ Heavy Duty Rubber Breathing Tube BT-40**



**3M™ Versaflo™ Powered Air Purifying Respirator Unit**

The TR-602N is a 3M Versaflo TR-600 series Powered Air Purifying Respirator motor/blower only. It does not include a filter, belt, battery, or charger. See ordering information to choose the components that will work for you. TR-602N

4

Finally, choose a matching belt or backpack.



**3M™ Adflo™ Leather Belt**

15-0099-16



**3M™ Versaflo™ Back Pack\*\***

BPK-01



**3M™ Versaflo™ Back Pack Adaptor\*\***

TR-655



**3M™ Versaflo™ High Durability Belt**

TR-626

\* The 3M Speedglas Breathing Tube SG-50W is required when used with 3M Adflo PAPR with M-407SG or M-409SG headtops.

\*\*Back Pack can be used for both Adflo and Versaflo systems; however, Back Pack Adapter is suggested to be used for Versaflo PAPR.



# Selection Guide

Here's what you need for the 3M™ Supplied Air System.

1

First, choose your helmet.



**M-409SG**

3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Leather Shroud, Helmet Cover and Speedglas™ Welding Shield (No ADF included). M-409SG



**M-407SG**

3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Shroud and Speedglas™ Welding Shield (No ADF included). M-407SG

2

Next, choose your auto-darkening filter.



**3M™ Speedglas™ 9100XXI Auto Darkening Filter**

06-0000-30i



**3M™ Speedglas™ 9100X Auto Darkening Filter**

06-0000-20



**3M™ Speedglas™ 9100V Auto Darkening Filter**

06-0000-10

3

Now, choose your breathing tube.



**3M™ Versaflo™ Heavy Duty Rubber Breathing Tube** BT-40



**3M™ Breathing Tube Adapter** V-199

4

Select an Air Control Device.



**3M™ Versaflo™ Supplied Air Vortex Cooling Assembly**

V-100



**3M™ Versaflo™ Supplied Air Vortex Heating Assembly**

V-200



**3M™ Versaflo™ Air Regulating Valve Assembly**

V-300



**3M™ Versaflo™ Premium Holder for V-100 and V-200 (Optional)**

V-112

5

Select a Supplied Air Hose.



**3M™ Supplied Air Respirator 3/8" High Pressure Hose**  
Available in 25, 50 and 100 ft. lengths

W-9435



**3M™ Supplied Air Respirator 3/8" High Pressure Hose**  
Available in 25, 50 and 100 ft. lengths

W-2929

6

Finally, choose an Air Purification Panel.



**3M™ Portable Compressed Air Filter and Regulator Panel, 50 cfm, 4 outlets, with CO Filtration and Monitor\***

256-02-00



**3M™ Portable Compressed Air Filter and Regulator Panel, 100 cfm, 8 outlets, with CO Monitor\***

256-02-01



**3M™ Compressed Air Filter and Regulator Panel, 50 cfm, 3-5 outlets, without CO Monitor\***

W-2806



**3M™ Retrofit Carbon Monoxide Monitor Kit\***

W-2808

\*The use of a calibration kit is also required, see part numbers 529-04-48 (large) or 529-04-49 (small).

## 3M™ Adflo™ and 3M™ Speedglas™ Components

### 3M™ Adflo™ Welding Kits

Part No.	Description	Stock ID	UPC#
38-1101-30iSW	3M™ Adflo™ PAPR and Versaflo™ M-Series M-409SG Helmet Kit with Speedglas™ Welding Shield, Li Ion Battery, ADF 9100 XXI	70071730462	00051131277083
38-1101-00SW	3M™ Adflo™ PAPR and Versaflo™ M-Series M-409SG Helmet Kit with Speedglas™ Welding Shield, Li Ion Battery, (No ADF)	70071730488	00051131277120

### 3M™ Adflo™ Replacement Parts

Part No.	Description	Stock ID	UPC
35-5401-01	3M™ Adflo™ Turbo Assembly 35-5401-01, Lithium Ion Battery	70071623402	00051141561479
15-1101-99	3M™ Adflo™ High Efficiency Starter Kit 1 EA/Case	70071268554	00051131371477
15-0299-99X02	3M™ Adflo™ Powered Air Purifying Respirator (PAPR) High Efficiency Particulate Filter 2 EA/Case*	70071544616	00051131371453
15-0099-99X06	3M™ Adflo™ Prefilter 6 EA/Case*	70071268489	50051131371441
15-0009-99X02	3M™ Adflo™ Spark Arrestor 2 EA/Case	70071268471	50051131371427
35-0099-08	3M™ Adflo™ PAPR Battery Smart Charger for Lithium Ion Battery	70071651973	00051141560816
35-1099-07	3M™ Adflo™ Powered Air Purifying Respiratory (PAPR) Battery, Lithium Ion	70071651981	00051141560823
SG-50W	3M™ Speedglas™ Sound-Dampening Breathing Tube	70071608155	00051131498990
15-0099-16	3M™ Adflo™ Leather Belt 1 EA/Case	70071268455	00051131925946
BPK-01	3M™ Versaflo™ Back Pack	70071563533	00051131173583

### 3M™ Adflo™ PAPR Accessories

Part No.	Description	Stock ID	UPC
35-0099-08N6	3M™ Adflo™ Battery Charging Stand 6-position for Lithium Ion and NIMH batteries	70071670072	00051141563121
BPK-01	3M™ Versaflo™ Back Pack for Versaflo™ TR-600/800 PAPR	70071563533	00051131173583
SG-15	3M™ Speedglas™ Breathing Tube Cover	70071607975	00051131498709
06-0700-83	3M™ Speedglas™ Full Hood, Black	70071606381	00051131496828
15-0499-99x02	3M™ Adflo™ Replacement Cartridges, Organic Vapor/Acid Gas (OV/SD/CL/HC) 2 EA/Case*	70071608171	50051131499015
35-0699-99X01	3M™ Adflo™ PAPR Nuisance Odor Pad Assembly 35-0699-99X01	70071652005	00051141560847

### 3M™ Speedglas™ Auto-Darkening Filters

Part No.	Description	Stock ID	UPC
06-0000-30i	3M™ Speedglas™ Auto Darkening Filter 9100XXi, Shades 5, 8-13	70071688546	00051141564739
06-0000-20	3M™ Speedglas™ Auto Darkening Filter 9100X, Shades 5, 8-13	70071510104	00051135893517
06-0000-10	3M™ Speedglas™ Auto Darkening Filter 9100V, Shades 5, 8-13	70071510088	00051135893494

\* denotes that bulk case quantities are available

## 3M™ Versaflo™ Components

	Part No.	Description	Stock ID	UPC
Helmet Assembly & Replacement Parts	M-407SG	3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Shroud and Speedglas™ Welding Shield (No ADF)	70071697059	00076308942816
	M-409SG	3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Leather Shroud, Helmet Cover and Speedglas™ Welding Shield (No ADF)	70071697067	00076308942823
	M-146SG	3M™ Versaflo™ M-Series Helmet Welding Knob and Pivot Kit	70071697018	00076308942779
	M-449	3M™ Versaflo™ M-Series Leather Shroud	70071697026	00076308942786
	M-978	3M™ Versaflo™ M-Series Helmet Cover	70071697034	00076308942793
	M-153SG	3M™ Versaflo™ M-Series Helmet Assembly with Speedglas™ Welding Shield (No ADF Included)	70071697042	00076308942809
Filters/Cartridges	TR-6710N-5	3M™ Versaflo™ High Efficiency Filter	70071618279	50051131373575
	TR-6710N-40	3M™ Versaflo™ High Efficiency Filter	70071618287	50051131373582
	TR-6820N	3M™ Versaflo™ HEPA and Nuisance OV/AG Filter	70071618295	50051131373605
	TR-6510N	3M™ Versaflo™ Organic Vapor/HEPA Cartridge	70071618303	50051131373612
	TR-6530N	3M™ Versaflo™ Organic Vapor/Acid Gas/HEPA Cartridge	70071618311	50051131373629
	TR-6320N	3M™ Versaflo™ Acid Gas/HEPA Cartridge	70071618329	50051131373636
	TR-6360N	3M™ Versaflo™ Ammonia/Methylamine/HEPA Cartridge	70071618337	50051131373643
	TR-6350N	3M™ Versaflo™ Formaldehyde/HEPA Cartridge	70071618345	50051131373650
	TR-6590N	3M™ Versaflo™ Multi-Gas/HE Cartridge	70071618352	50051131373667
BT & PAPP	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube	70071563756	00051131173804
	TR-602N	3M™ Versaflo™ Powered Air Purifying Respirator Unit	70071618089	00051131373389
Batteries & Chargers	TR-630	3M™ Versaflo™ Standard Battery	70071618170	00051131373471
	TR-632	3M™ Versaflo™ High Capacity Battery	70071618188	00051131373488
	TR-641N	3M™ Versaflo™ Single Station Battery Charger Kit	70071618204	00051131373501
	TR-644N	3M™ Versaflo™ 4-Station Battery Charger Kit	70071618212	00051131373518
Belts	TR-626	3M™ Versaflo™ High Durability Belt	70071618139	00051131373433
	BPK-01	3M™ Versaflo™ Backpack	70071563533	00051131173583
	TR-655	3M™ Versaflo™ Back Pack Adaptor	70071651692	00051131373853
3M™ Versaflo™ Accessories	TR-6600	3M™ Versaflo™ Prefilter	70071618246	50051131373544
	TR-662	3M™ Versaflo™ Spark Arrestor	70071618253	00051131373556
	TR-653	3M™ Versaflo™ Cleaning & Storage Kit	70071618428	00051131373730

### WARNING

These respirators help reduce exposures to certain airborne particulates. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in injury, illness or death. For proper use, see package instructions, supervisor, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.



#### Personal Safety Division

3M Welding

Building 235-2W-70

St. Paul, MN 55144-1000

Technical Assistance 1-800-243-4630

Customer Service 1-800-328-1667

Web 3m.com/Speedglas

3M PSD products are for occupational use only

**M-Series headtops are also compatible with supplied air and GVP PAPRs.**

**Visit our [3M.com/workersafety](http://3M.com/workersafety) for more information.**

**Learn more: [3M.com/Speedglas](http://3M.com/Speedglas)**

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