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.

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.

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.

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 spatter.

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.

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

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).

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.

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

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**
     - SG-50W
   - **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™ Adflo™ Turbo Assembly**
     - Includes blower unit, flow indicator, spark arrester, 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

4. Finally, choose a matching belt or backpack.
   - **3M™ Adflo™ Leather Belt**
     - 15-0099-16
   - **3M™ Adflo™ 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-2806

*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

<table>
<thead>
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<th>Part No.</th>
<th>Description</th>
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<tr>
<td>38-1101-30iSW</td>
<td>3M™ Adflo™ PAPR and Versaflo™ M-Series M-409SG Helmet Kit with Speedglas™ Welding Shield, Li Ion Battery, ADF 9100 XXi</td>
<td>70071730462</td>
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<tr>
<td>38-1101-00SW</td>
<td>3M™ Adflo™ PAPR and Versaflo™ M-Series M-409SG Helmet Kit with Speedglas™ Welding Shield, Li Ion Battery, (No ADF)</td>
<td>70071730488</td>
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### 3M™ Adflo™ Replacement Parts

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<td>35-5401-01</td>
<td>3M™ Adflo™ Turbo Assembly 35-5401-01, Lithium Ion Battery</td>
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<tr>
<td>15-1101-99</td>
<td>3M™ Adflo™ High Efficiency Starter Kit 1 EA/Case</td>
<td>70071268554</td>
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<td>15-0299-99X02</td>
<td>3M™ Adflo™ Powered Air Purifying Respirator (PAPR) High Efficiency Particulate Filter 2 EA/Case*</td>
<td>70071544616</td>
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<td>15-0099-99X06</td>
<td>3M™ Adflo™ Prefilter 6 EA/Case</td>
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<td>15-0009-99X02</td>
<td>3M™ Adflo™ Spark Arrestor 2 EA/Case</td>
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<td>35-0099-08</td>
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<td>35-1099-07</td>
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<td>SG-50W</td>
<td>3M™ Speedglas™ Sound-Dampening Breathing Tube</td>
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<td>15-0099-16</td>
<td>3M™ Adflo™ Leather Belt 1 EA/Case</td>
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<tr>
<td>BPK-01</td>
<td>3M™ Versaflo™ Back Pack</td>
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### 3M™ Adflo™ PAPR Accessories

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<tr>
<td>35-0099-08N6</td>
<td>3M™ Adflo™ Battery Charging Stand 6-position for Lithium Ion and NiMH batteries</td>
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<td>BPK-01</td>
<td>3M™ Versaflo™ Back Pack for Versaflo™ TR-600/800 PAPR</td>
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<td>SG-15</td>
<td>3M™ Speedglas™ Breathing Tube Cover</td>
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<tr>
<td>06-0700-83</td>
<td>3M™ Speedglas™ Full Hood, Black</td>
<td>70071606381</td>
<td>00051131496828</td>
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<td>15-0499-99X02</td>
<td>3M™ Adflo™ Replacement Cartridges, Organic Vapor/Acid Gas (OV/SD/CL/HC) 2 EA/Case*</td>
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<td>35-0699-99X01</td>
<td>3M™ Adflo™ PAPR Nuisance Odor Pad Assembly 35-0699-99X01</td>
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### 3M™ Speedglas™ Auto-Darkening Filters

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<td>3M™ Speedglas™ Auto Darkening Filter 9100XXi, Shades 5, 8-13</td>
<td>70071688546</td>
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<td>06-0000-20</td>
<td>3M™ Speedglas™ Auto Darkening Filter 9100X, Shades 5, 8-13</td>
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<td>06-0000-10</td>
<td>3M™ Speedglas™ Auto Darkening Filter 9100V, Shades 5, 8-13</td>
<td>70071510088</td>
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* denotes that bulk case quantities are available

Go to 3M.com/workersafety for ordering information for 3M Supplied Air components.
### 3M™ Versaflo™ Components

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<tr>
<td>M-407SG</td>
<td><strong>3M™ Versaflo™</strong> Respiratory M-Series Helmet Assembly with Shroud and Speedglas™ Welding Shield (No ADF)</td>
<td>70071697059</td>
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<tr>
<td>M-409SG</td>
<td><strong>3M™ Versaflo™</strong> Respiratory M-Series Helmet Assembly with Leather Shroud, Helmet Cover and Speedglas™ Welding Shield (No ADF)</td>
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<td>M-146SG</td>
<td><strong>3M™ Versaflo™</strong> M-Series Helmet Welding Knob and Pivot Kit</td>
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<td>M-449</td>
<td><strong>3M™ Versaflo™</strong> M-Series Leather Shroud</td>
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<td>M-978</td>
<td><strong>3M™ Versaflo™</strong> M-Series Helmet Cover</td>
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<td>M-153SG</td>
<td><strong>3M™ Versaflo™</strong> M-Series Helmet Assembly with Speedglas™ Welding Shield (No ADF Included)</td>
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<td>TR-6710N-5</td>
<td><strong>3M™ Versaflo™</strong> High Efficiency Filter</td>
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<td>TR-6710N-40</td>
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<td>TR-6820N</td>
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<td>TR-6510N</td>
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<td>TR-6360N</td>
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<td>TR-602N</td>
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<td>TR-630</td>
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<td>TR-632</td>
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<td>TR-626</td>
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<td>TR-653</td>
<td><strong>3M™ Versaflo™</strong> Cleaning &amp; Storage Kit</td>
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**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.

M-Series headtops are also compatible with supplied air and GVP PAPRs. Visit our 3M.com/workersafety for more information.

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

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