



3M™ Speedglas™  
and Adflo™ Systems

THE COMPLETE CATALOG



 **Speedglas™**

 **Adflo™**

**3M Welding**

**3M**

## 3M Welding Products

What's New! . . . . .	3
Introduction to Auto-Darkening Welding Filters . . . . .	6
3M™ Speedglas™ Helmet 9000 . . . . .	8
Speedglas™ SideWindows Helmets . . . . .	10
Speedglas™ Utility Filter and Helmet . . . . .	12
Speedglas™ Filter and Helmet 9000F . . . . .	14
Speedglas™ Filter and Helmet 9000XF . . . . .	16
Speedglas™ Filter and Helmet 9002V . . . . .	18
Speedglas™ Filter and Helmet 9002X . . . . .	20
Speedglas™ FlexView Helmet System . . . . .	22
Speedglas™ ProTop Hard Hat System . . . . .	24
Speedglas™ with Adflo™ System . . . . .	26
Speedglas™ FlexView with Adflo™ System . . . . .	30
ClearVisor with Adflo™ System . . . . .	32
3M™ Fresh-air II Supplied-Air System with 3M™ Speedglas™ Helmet 9000 HWR . . . . .	34
Portable Compressed Air Filter and Regulator Panels . . . . .	36
Compressed Air Filter and Regulator Panels . . . . .	38
Replacement Parts for Speedglas™ Helmets Utility and 9000 Series . . . . .	40
Replacement Parts for Speedglas™ FlexView and ProTop Systems . . . . .	42
Replacement Parts for Speedglas™ 9000 HWR Helmets with Adflo™ System . . . . .	44
Replacement Parts for ClearVisor with Adflo™ System . . . . .	46
Replacement Parts for 3M™ Fresh-air II Supplied Air (SA) Systems 9000 . . . . .	48
Warranty and Customer Support . . . . .	50
Team Torch . . . . .	52
Filter Selector Tables . . . . .	54-55

### **WARNING**

These welding safety products must be used only by qualified persons trained in their use and maintenance and only in strict accordance with and adherence to the detailed instructions and precautionary statements provided in the instruction manual which accompanies each product. **Failure to comply with these instructions could result in sickness, serious bodily injury or loss of life.**

For proper use of these products read user instructions and warnings on the package. Any questions concerning proper use should be directed to your supervisor, on-site training specialist, industrial hygienist or 3M Occupational Health and Environmental Safety Division (OH&ESD) Technical Service in the U.S.A. at 1-800-243-4630. In Canada, call 1-800-267-4414.

# 3M™ Speedglas™ with Adflo™ System



The ergonomically designed Powered Air-Purifying Respirator (PAPR) for welders.



New “stackable” configuration allows welders to quickly add a vapor cartridge to the high efficiency particle filter. See page 26.

*Now Available:*



**3M™ ClearVisor  
with  
Adflo™ System**

# Introduction to Auto-Darkening Welding Filters (ADF's)



Independent arc-detectors instantly sense the welding arc, immediately triggering the Speedglas filter to change from the light state to the dark state.

## Safety Products That Help Increase Your Performance

Now welders can see their work, at comfortable light levels, with constant eye and face protection. Speedglas filters turn dark the moment an arc is struck and transparent again when welding stops—all the time with full UV/IR protection.

Auto-darkening eliminates the neck-strain of “helmet nodding” while helping increase the accuracy of electrode placement.

This, in turn, reduces the need for grinding and rework. In addition, welders can get into tight, cramped spaces with full protection and have a clear view, making extremely awkward welds a lot easier.

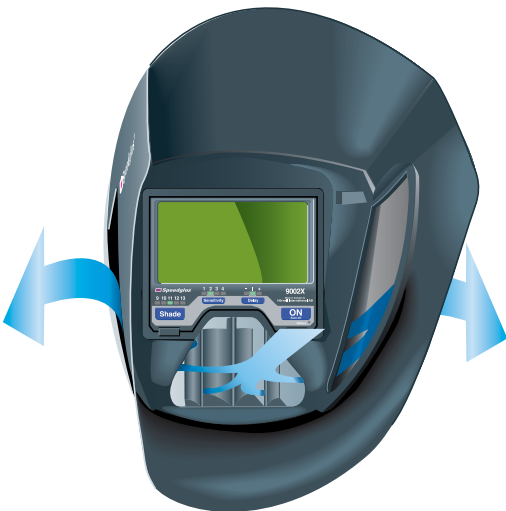
# A Welding Helmet that Breathes!



**Speedglas™**

The revolutionary 3M™ Speedglas™ Helmet 9000 features patented aerodynamic exhaust vents that help to remove exhaled air.

Welders experience lower humidity, less heat, and reduced “stuffiness.” The welder’s natural breathing action directs the exhaust airflow; no moving parts are involved. Fresh, incoming air is not drawn through the special vents; instead, it chooses the path of least resistance—the area around the welder’s neck, which is typically further away from the smoke plume.



Exhaled air is directed through the four aerodynamic vents. It then exhausts through two thin openings created between the double-shell construction of the heat-reflecting silver front panel and the black helmet.

# Peripheral Vision for Welders



**Speedglas™**

## **3M™ SideWindows Helmets Improve Visibility, Safety and Comfort**

3M™ Speedglas™ SideWindows Helmets allow for peripheral vision. The two shade 5 side filters increase the peripheral viewing area by over 100%.

SideWindows filters allow welders to see potentially-hazardous peripheral objects, such as protruding beams, vehicles, and other welders, with the helmet down.

SideWindows also permit welders to easily move around their work area with constant protection from UV/IR radiation.

The two side filters are designed solely for peripheral vision; the welder continues to view his own arc through the center (auto-darkening) filter.

# An Entry-Level Auto-Darkening Filter and Helmet: Utility



 **Speedglas™**

## **3M™ Speedglas™ Utility Filter and Helmet**

Our most affordable auto-darkening filter! The Speedglas Utility is especially designed for MIG (GMAW) and stick (SMAW) welding only.

The Speedglas Utility is perfect for the serious part-time welder, as well as for maintenance welding on farm equipment, automobiles, and any other MIG or stick project. Two filter models: dark shade 10 or 11.

It's the affordable auto-darkening filter and helmet.

# A Filter for Multiple Arc Welding Processes: 9000F



 **Speedglas™**

## **3M™ Speedglas™ Filter 9000F and Helmet**

Do stick, MIG, and most TIG welding processes with one filter!

The 9000F (“F” for “Fixed” dark shade) provides improved performance, greater ease-of-use, and remarkable optical clarity. Available in three factory-set dark shades: 10, 11 or 12.

Plus, all Speedglas helmets 9000 have four exhaust vents for reduced stuffiness (see page 8).





# An X-tra Large Filter: 9000XF



 **Speedglas™**

## **3M™ Speedglas Filter 9000XF and Helmet**

For welders that want a really big view...  
the 9000XF (“X-tra Large, Fixed Dark Shade”).

It’s larger than most auto-darkening filters, with  
outstanding optical clarity and very low angle  
dependency.

The 9000XF can also be used on all stick and  
MIG and most TIG processes. Available in three  
factory-set dark shades: 10, 11 or 12.



# “V” for Variable Dark Shades: 9002V



 **Speedglas™**

## **3M™ Speedglas™ Filter 9002V and Helmet**

For welders handling a variety of amperages and different arc welding processes, we introduce the 9002V . . . the most versatile auto-darkening filter ever! Choose from 61 control combinations to achieve the most efficiency and comfort, no matter what you are welding.

***Greater sensitivity!*** The 9002's newly-developed detectors increase sensitivity to provide reliable switching for a wide range of welding methods, even extremely stable arcs like those from TIG inverters at low amp settings.

***Greater comfort!*** The 9002 introduces a new Delay function that lets you decide how quickly the filter changes from dark-to-light.

***Adjust with gloves on!*** The 9002's new membrane-covered control buttons let you change settings or turn on/off with your gloves on. The buttons are faster than analog knobs, and the membrane seals the filter from dirt.

# The Top-Of-The-Line 3M™ Speedglas™ Filter 9002X



 **Speedglas™**

## **3M™ Speedglas™ Filter 9002X and Helmet**

An X-tra large viewing area is combined with advanced electronics to deliver the most versatile auto-darkening filter ever!

For welders handling a variety of amperages and different arc welding processes, this is the best!

The 9002X has a big 4.09" x 2.13" viewing area, with clear, sharp optics and consistent shading across the entire viewing area.

A solar panel on the front of the filter cassette helps to power the unit, extending battery life to approximately 3000 hours.

**Greater sensitivity!** The 9002's newly-developed detectors increase sensitivity to provide reliable switching for a wide range of welding methods, even extremely stable arcs like those from TIG inverters at low amp settings.

**Greater comfort!** The 9002 introduces a new Delay function that lets you decide how quickly the filter changes from dark-to-light.

**Adjust with gloves on!** The 9002's new membrane-covered control buttons let you change settings or turn on/off with your gloves on. The buttons are faster than analog knobs, and the membrane seals the filter from dirt.

# Ideal for Weld Preparation/Grinding: FlexView



 **Speedglas™**

## **3M™ Speedglas™ FlexView System**

The new FlexView has a big, 4.75" x 3.6" (120mm x 90 mm) clear polycarbonate faceshield that's ideal for precision weld preparation under a variety of light conditions.

The user simply lifts up the spring-mounted filter assembly for weld prep. The spring holds the auto-darkening filter securely on top of the helmet, giving the welder a big, clear view behind the FlexView faceshield.

The faceshield allows for precision grinding and cleaning, the careful alignment of electrodes and the inspection of newly-completed welds...all with constant eye and face protection, even in the darkest workshop.

The faceshield meets the ANSI Z87.1-2003 industrial eye and face protection standard, which does not recommend "...filter or tinted filters that restrict light transmittance..." when chipping or grinding (American National Standard Institute Z87.1 Selection Chart, Impact Protectors).\*

\*Impact resistant, primary eye protection, spectacles or goggles that meet current ANSI specifications, must be worn at all times when using any welding helmet.

# A Balanced Hard Hat Designed for Welders: ProTop

 **Speedglas™**



## **3M™ Speedglas™ ProTop System**

The new ProTop combination hard hat, welding helmet, and auto-darkening filter system is especially designed for welders working in areas with overhead hazards.

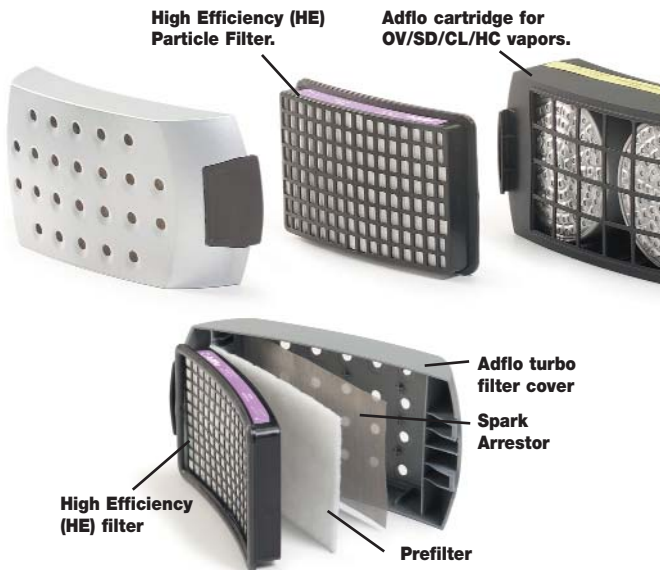
The key to the Speedglas ProTop system is the exclusive pivot mechanism that connects the welding helmet to the hard hat. Traditional welding hard hats create a very high center-of-gravity when the welding helmet is raised; as a result, the user feels off-balance, and the leveraged weight may put additional strain on neck muscles. On the other hand, the ProTop pivot mechanism has two sets of axes: one to lift the welding helmet away from the welder's face, and another axis to "nest" the welding helmet down low over the hard hat, in a balanced, secure position.

In addition to having a much more comfortable (lower) center-of-gravity, the nested welding helmet is much less likely to bump into obstacles as the welder moves around the work area.

# A Highly Advanced Powered Air Purifying Respirator (PAPR)



# Two Respirators In One



## 3M™ Speedglas™ 9000 HWR with Adflo™ System Auto-Darkening Filters (ADF's) with Respiratory Protection

We've reinvented the powered air-purifying respirator (PAPR) for welders. The result is 3M™ Speedglas™ with Adflo™ System: a lightweight, compact, all-in-one system. Its exclusive "stackable" configuration means that the Adflo cartridge can be "stacked" onto the high efficiency (HE) particle filter for additional protection against organic, sulfur dioxide, chlorine, and hydrogen chloride vapors.

In effect, it's two systems in one, allowing increased user flexibility to adapt to changing welding applications. And you can selectively replace either the particle filter or the Adflo OV/SD/CL/HC cartridge as needed: you don't have to change both filters at the same time!

The Adflo system has no external batteries, no battery cables, and no sharp corners. Its slim profile is designed to go into tight spaces. And it's designed to be ergonomically compatible for welders.



**Adflo™**

# Eye, Face and Respiratory Protection for Weld Prep/Grinding



## **3M™ Speedglas™ FlexView with Adflo™ System**

The new FlexView system combines full eye and face protection (for both welding and low light weld preparation) with a slim, lightweight, powered air purifying respirator. For chipping, grinding, or preparation, the user simply lifts up the spring-mounted Speedglas filter assembly. The spring holds the auto-darkening filter securely on top of the helmet, giving the welder a big clear view through the clear polycarbonate faceshield.

The faceshield allows for precision grinding and cleaning, the careful alignment of electrodes and the inspection of newly-completed welds...all with constant eye and face protection, even in dark conditions.

The faceshield meets the ANSI Z87.1-2003 industrial eye and face protection standard, which does not recommend "...filter or tinted filters that restrict light transmittance..." when chipping or grinding (American National Standard Z87.1-2003).\*

**\*Important Note:** Impact resistant, primary eye protection, spectacles or goggles that meet current ANSI specifications, must be worn at all times when using any welding helmet.



# Eye, Face and Respiratory Protection



## 3M™ ClearVisor with Adflo™ System

The new ClearVisor with Adflo system combines eye and face protection (ANSI Z87.1-2003) with a slim, lightweight, powered air-purifying respirator (PAPR).



The polycarbonate ClearVisor faceshield has exceptional clarity and a wide viewing area. The ClearVisor meets the high impact test requirements of ANSI Z87.1-2003.



The system can be used in a variety of industrial settings, including woodworking, metal grinding, injection molding, petrochemical, pharmaceutical, pulp and paper processing, sanding and refinishing, foundries, grain and flour processing, and other dusty environments.



# Supplied Air Protection



## 3M™ Fresh-air II Supplied Air System with 3M™ Speedglas™ Helmet 9000 HWR

The NIOSH-approved supplied air (SA) 9000 system provides respiratory protection from airborne particulates and gases. The lightweight, belt-mounted valves permit the welder to adjust the temperature of the air entering the headpiece  $\pm 45^\circ$ , making it ideal for very hot or strenuous jobs.



**NOTE:** Final determination of respirator applicability and filter selection must be made by an on-site safety specialist or industrial hygienist.

# 3M™ Portable Compressed Air Filter and Regulator Panel 256-02-00



The 3M™ Portable Compressed Air Filter and Regulator Panel 256-02-00 can filter and regulate air delivered to your supplied air respirator. This system can help to remove limited amounts of carbon monoxide (CO) from the incoming air as well.

## **This system offers a number of unique benefits to you.**

- Compatible with 3M's full line of supplied air respirators
- Four-stage filtration
- Can monitor for carbon monoxide in incoming air
- Patented "low-temperature catalyst" converts dangerous CO to CO<sub>2</sub>
- Portability
  - Comes in a durable carrying case
  - This unit can be easily moved to different areas of the plant
  - It can be permanently mounted to the wall if desired
- Intrinsically safe system<sup>1</sup>

<sup>1</sup>The carbon monoxide monitor in the 3M portable compressed air filter and regulator panels is CSA Certified Intrinsically Safe for Class 1, Div. 1, Groups A, B, C and D Hazardous Locations when utilizing the two 9 volt batteries to power the monitor. If the monitor is powered by the optional 120 VAC adapter, the Intrinsically Safe Certification is voided. The Intrinsically Safe Certification is also voided when the remote alarm is used.

# 3M™ Compressed Air Filter and Regulator Panel W-2806



This panel is designed to filter and regulate air being delivered to the supplied air respirator. It has a maximum capacity of 50 cfm at 105 psig. This is an economical system that provides single step filtration. It is designed to be permanently mounted to the wall. It provides a maximum of 50 cfm to 3-5 outlets.

**NOTE:** This unit will NOT remove carbon monoxide (CO) from compressed air source.

# Replacement Parts for 3M™ Speedglas™ Helmets and Filters Utility and 9000 Series

## Complete Helmets and Filters

04-0012-(shade 10, 11 or 12)	Complete Speedglas filter and helmet 9000F
04-0012-(shade 10, 11 or 12)X	Complete Speedglas filter and helmet 9000XF
04-0012-31	Complete Speedglas filter and helmet 9002V
04-0012-21	Complete Speedglas filter and helmet 9002X

**For any of the above part numbers, add “H” for hard hat and/or “SW” for SideWindows option**

04-0014-(shade 10 or 11)U	Complete Speedglas Utility filter and helmet
---------------------------	--

## Filters

04-0000-(shade 10, 11 or 12)	Speedglas filter only 9000F
04-0000-(shade 10, 11 or 12)X	Speedglas filter only 9000XF
04-0000-31	Speedglas filter only 9002V
04-0000-21	Speedglas filter only 9002X

## Filter Replacement Parts

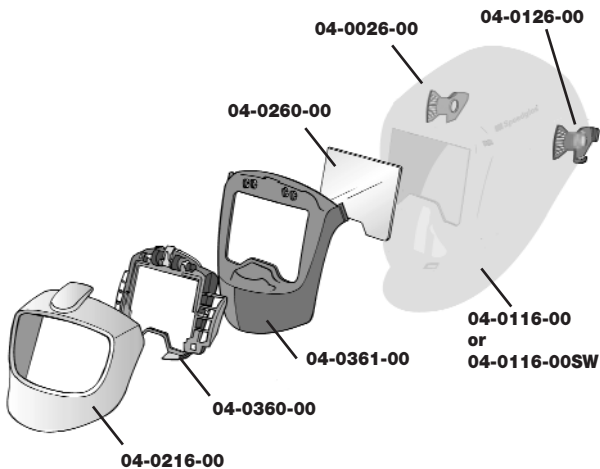
04-0270-00	Outside protection plate standard-package of 10
04-0270-10X100	Outside protection plate standard-package of 100
04-0290-00	Speedglas 9000 Series F and V inside protection plate (5 Pack)
04-0280-00	Speedglas 9000 Series XF and X inside protection plate (5 Pack)
04-0480-00	9000XF and 9002X accessory kit (10 outside, 5 inside plates and 2 batteries)
04-0490-00	Utility, 9000F and 9002V accessory kit (10 outside, 5 inside plates and 2 batteries)
04-0320-00	Battery-package of 2
04-0380-00	Battery holders (blue)-package of 2
04-0390-00	Battery holders (black)-package of 2

## Filter Accessories

04-0290-01	Inside protection plate, passive filter #1, for Utility and 9000F models-package of 5*
04-0290-02	Inside protection plate, passive filter #2, for Utility and 9000F models-package of 5*
04-0280-01	Inside protection plate, passive filter #1, for 9000XF-package of 5*
04-0280-02	Inside protection plate, passive filter #2, for 9000XF-package of 5*
04-0270-03	Outside protection plate HD (heavy duty)-package of 5
04-0270-04	Outside protection plate high heat-package of 5

**\*Total shade level must not exceed shade #13. Do not use shaded inside protection plates for either 9002V or 9002X filters.**

# Replacement Parts for 3M™ Speedglas™ FlexView System\*



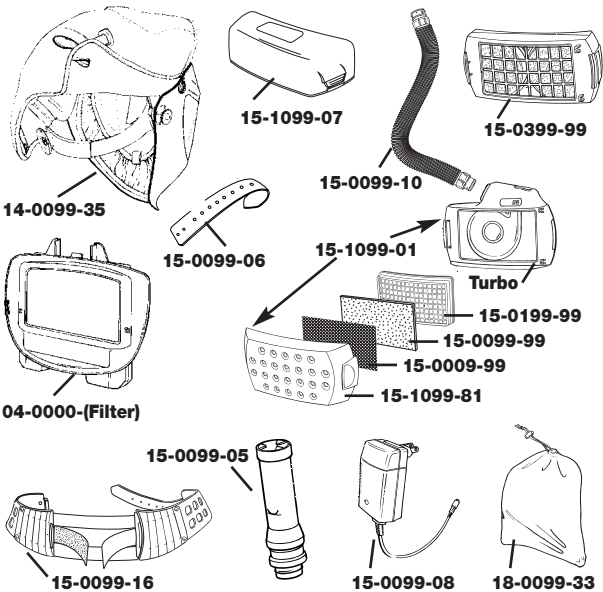
04-0016-(filter options) Complete Speedglas FlexView system  
 04-0016-00 Complete Speedglas FlexView system with no filter

**Add "SW" for SideWindows option.**

04-0116-00 Speedglas FlexView shell only  
 04-0116-00SW Speedglas FlexView shell only  
 with SideWindows option  
 04-0126-00 Speedglas FlexView helmet/headband  
 "S" stop left-package of 10  
 04-0216-00 Speedglas FlexView silver front panel only  
 04-0360-00 Speedglas FlexView welding filter holder  
 04-0361-00 Speedglas FlexView middle helmet panel  
 04-0260-00 Speedglas FlexView faceshield-package of 10

\*Parts on this page are unique to the FlexView system. See page 40 for additional standard parts which are also used in the FlexView system.

# Replacement Parts For 3M™ Speedglas™ 9000 HWR Helmets with Adflo™ System



## Replacement Filters and Cartridges

- 15-0099-99X06 6-pack Adflo prefilter
- 15-0099-99X12 12-pack Adflo prefilter
- 15-0199-99X02 2-pack Adflo HE particle filter
- 15-0199-99X06 6-pack Adflo HE particle filter
- 15-0199-99X36 36-pack Adflo HE particle filter
- 15-0399-99X02 2-pack Adflo OV/SD/CL/HC cartridge
- 15-0399-99X06 6-pack Adflo OV/SD/CL/HC cartridge
- 15-0009-99X02 2-pack Adflo spark arrestor

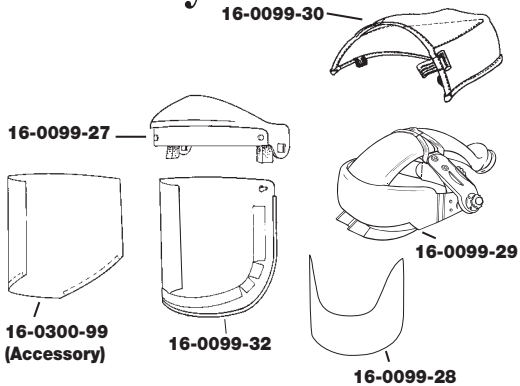
## 3M™ Adflo™ Turbo System Replacement Parts

- 15-1099-01 Adflo turbo assembly and filter cover without filter or cartridge or battery
- 15-1099-81 Adflo turbo filter cover
- 15-5401-01 Adflo turbo, complete with breathing tube assembly, flow indicator, belt, spark arrestor, Adflo turbo filter cover, prefilter, HE particle filter, battery and smart charger.

## Miscellaneous Replacement Parts and Accessories

- 15-0099-05 Flow indicator
- 15-1099-07 Adflo battery pack
- 15-0099-08 Adflo battery smart charger
- 15-0099-10 Adflo breathing tube assembly (rubber)
- 15-0099-16 Adflo leather belt
- 15-0099-06 Adflo leather belt front piece replacement
- 18-0099-33 Carry bag

# Replacement Parts for 3M™ ClearVisor with Adflo™ System



## Complete Systems

- 16-1101-40 ClearVisor with Adflo HE particle filter system  
 16-3301-40 ClearVisor with Adflo HE filter +  
 OV/SD/CL/HC cartridge system

## Replacement Parts

- 16-0099-30 Head cover  
 16-0099-35 ClearVisor faceshield headband  
 assembly complete  
 16-0099-29 ClearVisor faceshield headband assembly  
 with air duct  
 16-0099-28 ClearVisor face seal  
 16-0099-27 Brow guard  
 16-0099-32 Clear window with Velcro®  
 16-0300-99X05 Clear window strip off shielding film (5 pack)  
 02-0660-00 Mounting hardware (APC, ClearVisor)



# Replacement Parts for 3M™ Fresh-air II Supplied Air (SA) Systems 9000

## Complete Fresh-air II SA systems 9000

Cool-air: 14-5701-(filter options)

Temp-air: 14-5801-(filter options)

Filter Options:

10, 11 or 12 = Speedglas filter 9000F shade 10, 11 or 12

10X, 11X or 12X = Speedglas filter 9000XF shade 10, 11 or 12

31 = Speedglas filter 9002V

21 = Speedglas filter 9002X

Add “SW” for SideWindows option. For hardhat version order separate components (see page 35).

## Replacement Valves and Valve Parts

18-0099-47 Cool-air valve assembly

18-0099-48 Temp-air valve assembly

18-0099-55 Valve shield

18-0099-63 Breathing tube (supplied air) hard hat

## Air Supply Hoses

18-0099-40 25 feet breather hose, with couplings

18-0099-41 50 feet breather hose, with couplings

18-0099-42 100 feet breather hose, with couplings

18-0099-43 25 feet Nycoil™ hose, with couplings

18-0099-44 50 feet Nycoil™ hose, with couplings

18-0099-45 100 feet Nycoil™ hose, with couplings

## Miscellaneous Replacement Parts and Accessories

18-0099-16 Comfort belt

18-0099-33 Carry bag

**For 9000 Helmet Assembly with Respiratory Protection (HWR) Replacement Parts and Accessories, see page 45.**

### **Customer Support**

If you have any questions about your Speedglas products, contact Customer Care at: 800-328-1667 or Fax: 800-311-4069. (Canada: 800-267-4414 or Fax: 613-345-0826.)

### **Speedglas™ Filter Warranty**

3M warrants all Speedglas filters for 24 months from the date of purchase against all manufacturing defects resulting from materials or workmanship.

### **Adflo™ System Warranty**

3M warrants all Adflo products obtained hereunder to be free from defects in material and workmanship in normal service and under normal conditions for 12 months from the date of delivery.

### **Speedglas™ Fresh-air II Supplied Air (SA) 9000 Warranty**

3M warrants all Fresh-air products obtained hereunder to be free from defects in material and workmanship in normal service and under normal conditions for 180 days from the date of delivery.

### **Portable Compressed Air Filter Warranty**

3M warrants its Portable Compressed Air Filter and Regulator Panel with Carbon Monoxide Filtration and Monitor for a period of one (1) year and its Carbon Monoxide Sensor for a period of two (2) years from the original shipping date, to be free from defects in material and workmanship in normal service and under normal conditions.

**These warranties are void in the case of operator misuse, abuse, or neglect. Read your instruction manual to avoid certain situations which could void this warranty (for example, cracked filters and filters covered with weld spatter are not covered under the warranty policy).**



## Team Torch Exclusive Welder for NHRA Events

Since 1987, Paul Le Sage, aka Team Torch, has been the exclusive welder for all National Hot Rod Association (NHRA) events. Currently equipped with a heavily-modified, low-riding Chevy S-10 Xtreme truck and a 9000kVA generator/welder, Torch can quickly buzz in and out of crowded pit areas.

“I’m doing some very extreme repairs on 300 mph race cars in the course of my day at a NHRA National event,” says Le Sage. “With a 75-minute turnaround between making another race down the drag strip, time is not on my side. The 3M™ Speedglas™ Auto-Darkening Helmet is a must in my world.”





Speedglas™ Products	Utility	9000F
FILTER TYPE	Fixed	Fixed
SHADE	10 11	10 11 12
VIEWING AREA	3.58" x 1.68"	3.58" x 1.68"
SOLAR ASSIST	No	No
WELDING FILTER BATTERY LIFE	2000 hrs	2000 hrs
MIG & STICK APPLICATIONS	Yes	Yes
ADJUSTABLE SENSITIVITY	No	No
TIG APPLICATIONS	No	Yes*
EXHALATION VENTING	No	Yes
FILTER ONLY	No, only available with Helmet 9000	SH-04-0000-10 SH-04-0000-11 SH-04-0000-12
HELMET 9000 WITH FILTER	SH-04-0014-10U SH-04-0014-11U	SH-04-0012-10 SH-04-0012-11 SH-04-0012-12
HELMET 9000 WITH FILTER AND SIDEWINDOWS	No	SH 10: 04-0012-10SW SH 11: 04-0012-11SW SH 12: 04-0012-12SW
FLEXVIEW HELMET WITH FILTER	No	SH 10: 04-0016-10 SH 11: 04-0016-11 SH 12: 04-0016-12
FLEXVIEW HELMET WITH FILTER AND SIDEWINDOWS	No	SH 10: 04-0016-10SW SH 11: 04-0016-11SW SH 12: 04-0016-12SW
PROTOP WITH FILTER	No	SH 10: 04-0015-10 SH 10: 04-0015-11 SH 10: 04-0015-12
PROTOP WITH FILTER AND SIDEWINDOWS	No	SH 10: 04-0015-10SW SH 10: 04-0015-11SW SH 10: 04-0015-12SW

\*Will function in TIG applications of over 50 Amps.



Speedglas™ with Adflo™ Product	HE with 9000F ADF*
FILTER TYPE	Fixed
SHADE	10 11 12
VIEWING AREA	3.58" x 1.68"
SOLAR ASSIST	No
WELDING FILTER BATTERY LIFE	2000 hrs
ADFLO BATTERY LIFE	up to 10 hrs/ charge
MIG & STICK APPLICATIONS	Yes
ADJUSTABLE SENSITIVITY	No
TIG APPLICATIONS	Yes**
HELMET 9000 HWR WITH FILTER	SH 10: 15-1101-10 SH 11: 15-1101-11 SH 12: 15-1101-12
HELMET 9000 HWR WITH FILTER AND SIDEWINDOWS	SH 10: 15-1101-10SW SH 11: 15-1101-11SW SH 12: 15-1101-12SW
FLEXVIEW HELMET 9000 HWR WITH FILTER	SH 10: 16-1101-10 SH 11: 16-1101-11 SH 12: 16-1101-12
FLEXVIEW HELMET 9000 HWR WITH FILTER AND SIDEWINDOWS	SH 10: 16-1101-10SW SH 11: 16-1101-11SW SH 12: 16-1101-12SW

Helmet 9000 HWR with Adflo HE cartridge (no filter) 15-1101-00



 **Speedglas™**

3M reserves the right to make changes in specifications at any time without prior notice. Speedglas, and Adflo are trademarks of 3M. All other trademarks are property of their respective owners. Speedglas products are protected by U.S. Patents 4,039,254; 4,240,709; Re. 29,684; 5,191,468; also protected by international patents.

Velcro is a registered trademark of DuPont.

Nycoil is a trademark of Nycoil Co.

## **For More Information**

### **In U.S.**

Technical Assistance 1-800-243-4630  
Customer Care Center 1-800-328-1667

### **In Canada**

Technical Assistance 1-800-267-4414  
Customer Care Center 1-800-364-3577

**Internet** [www.Speedglas.com](http://www.Speedglas.com) [www.3M.com/Occsafety](http://www.3M.com/Occsafety)

**3M**

### **General Offices**

3M Center  
St. Paul, MN 55144-1000

### **3M Canada Company OH&ES**

P.O. Box 5757  
London, Ontario N6A 4T1  
Canada