3M Occupational Health and Environmental Safety Division

3M™ Speedglas™ Powered & Supplied Air Protection L-Series SG

Speedglas™

Comfort Combinations For Welding Protection

A leader in powered and supplied air and auto-darkening filter (ADF) technologies for over 30 years, 3M is excited to introduce a new line of Speedglas™ combined systems and helmets. We've paired the legendary Speedglas ADF with our best-in-class powered air purifying respirator and our L-Series hard hat to provide you with unparalleled comfort and protection in the most demanding welding environments.

3M continually strives to develop adaptable welding products that meet your changing needs. You wanted a hard hat with Adflo™ and we listened. We are pleased to provide you with new 3M™ Speedglas™ Helmets with Powered and Supplied Air Protection—including 3M™ Adflo™—for hard hat required applications.

3M

3M™ Speedglas™ Hard Hat Helmets with Powered & Supplied Air Protection L-Series SG

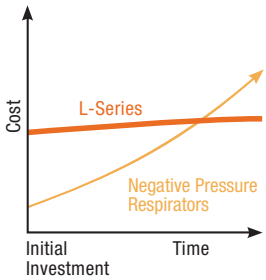
Complete systems for unsurpassed comfort.

As a welder, you know how challenging it can be to stay comfortable and productive when you're working in exhausting, hard-to-breathe-in environments. Now you can benefit from the superior optical performance of a Speedglas ADF as well as the added safety of an L-Series hard hat and the comfort of continuous airflow. Whether welding or grinding, our products may help you stay more comfortable and productive. Innovative advantages include:

- Easier to breathe when wearing than traditional forms of respiratory protection or with no respirator at all.
- Positive pressure airflow gives no breathing resistance and helps provide respiratory protection without the need for a tight faceseal. **No fit testing required.**
- Wideview faceshield allows for excellent peripheral and downward vision.
- Headgear is lightweight and well balanced.
- Supplied air systems allow workers to regulate the airflow, as well as cool or heat the air entering the headgear — ideal for extreme temperature working environments.
- Can be worn with facial hair, prescription eyewear or safety glasses.
  Do not wear if facial hair comes between the face and respirator faceseal.

Save money in the long run.

A Cost-Effective Investment.
Over time, your Speedglas L-Series positive pressure headgear may cost less than negative pressure respirators (or wearing no respirator at all) due to lower maintenance costs, added comfort, which may help improve productivity, and the reduced likelihood of eye, face and minor head injuries.



We can help you quantify the potential cost savings with our **Proprietary Productivity Model**. For a demonstration, contact your local 3M sales representative or call 800-328-1667.

Made with your safety in mind.

You can depend on 3M and Speedglas to develop products that provide a high level of respiratory protection and safety.

- Provides respiratory and limited head, face and eye protection.
- Meets OSHA standards for applications where positive pressure respirators are required.
- Meets ANSI Z89.1-2003, Class I and II.
- Meets CAN/CSA Z94.1-92, Class G.

Assigned Protection Factor (APF) Ratings By Model and Air Source

	L-705SG	L-901SG	L-905SG	L-705SG-F	L-905SG-F
V-Series Supplied Air Valves	25	1000	1000	25	1000
GVP PAPR	25	1000	1000	25	1000
Adflo™ PAPR	25	25	25	25	25

Welding

Use the Helmet/ADF Shield in the down position for welding applications.

Grinding

Lift the ADF Shield for grinding applications.

Speaking

Lift the Wideview Faceshield for easy communication in non-hazardous environments.

Build Your Ideal System, or Buy it Complete

See back page for complete systems.

1. Choose your 3M™ Headgear*

*Helmets available for use with passive filter: L-705SG-F and L-905SG-F

L-705SG Helmet with Speedglas™ Welding Shield and Wideview Faceshield

L-901SG Helmet with Wideview Faceshield and Shroud

L-905SG Helmet with Speedglas™ Welding Shield, Wideview Faceshield and Shroud

2. Choose a Speedglas ADF

(For L-705SG and L-905SG only)

3M™ Speedglas™ 9100V Filter

3M™ Speedglas™ 9100X Filter

3M™ Speedglas™ 9100XX Filter

3. Choose Air Type

Powered Air

4. Choose a 3M™ PAPR Assembly

15-5401-02SG
3M™ Adflo™

GVP-1, GVP-CB, GVP-1 NiMH, GVP-CB NiMH

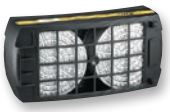
5. Include a 3M™ Breathing Tube

L-122SG

L-122

6. Choose a 3M™ Cartridge/Filter

15-0199-99X-
2, 6 or 36 qty.
HE Particulate



15-0399-99X-
2 or 6 qty.
OV/SD/CL/HC

GVP-401: Organic vapor
GVP-402: Acid gas
GVP-403: Organic vapor/acid gas
GVP-404: Ammonia
GVP-405: Formaldehyde
GVP-440: High Efficiency (HE)
GVP-441: Organic vapor/HE
GVP-442: Acid gas/HE
GVP-443: Organic vapor/acid gas/HE
GVP-444: Ammonia/HE
GVP-445: Formaldehyde/HE

NOTE: For grinding and welding applications, 3M™ Spark Arrest Cover GVP-146 should be used.

Supplied Air**

4. Choose a 3M™ Air Control Device

High Pressure: V-100, V-200, V-300
Low Pressure: V-400

5. Include a 3M™ Breathing Tube

L-122

6. Choose a 3M™ Air Supply Hose

Low Pressure:
For use with V-400

W-3020-
25, 50, or 100 ft.

High Pressure:
For use with
V-100, V-200, V-300

W-9435-
25, 50, or 100 ft.

W-2929-
25, 50, or 100 ft.

7. Choose an Air Filter and Regulator Panel

W-2806 50 cfm Filter and Regulator Panel

Filters and regulates normal plant air. Helps to remove water, oil, particles, odors and vapors.

Note: W-2808 CO Monitor Retrofit Kit also available.

256-02-00 50 cfm Portable Filter and Regulator Panel

Four-stage filter process removes limited amounts of carbon monoxide and other contaminants without using large desiccant drying towers.

Note: 256-02-01, 100 cfm panel also available.

**The employer is required to ensure that the compressed air used with any supplied air system meets the requirements for Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997. In Canada refer to CSA Standard Z180.1, table for the quality of compressed breathing air.

IMPORTANT: These filtered regulated panel products do not produce Grade-D breathing air.

Complete 3M™ Adflo™ PAPR Systems

Part No.	Description	Quantity
16-0705-SGXX	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Hard Hat L-705SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100XX	1/Case
16-0705-SGX	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Hard Hat L-705SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100X	1/Case
16-0705-SGV	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Hard Hat L-705SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100V	1/Case
16-0905-SGXX	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Helmet L-905SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100XX	1/Case
16-0905-SGX	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Helmet L-905SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100X	1/Case
16-0905-SGV	3M™ Adflo™ Powered Air Purifying Respirator High Efficiency System, with 3M™ Helmet L-905SG and Wideview Faceshield and 3M™ Speedglas™ Auto-Darkening Filter 9100V	1/Case

Converting Your Existing L-Series Headgear

If you are interested in converting your existing L-Series Headgear to enable a Speedglas ADF, it is very simple:

1. Purchase the L-153SG
2. Choose a Speedglas ADF (9100V, 9100X or 9100XX)
3. If you are currently using the L-901 or L-905, you will need to purchase a new inner and outer shroud.

Replacement Parts

Part No.	Description
L-905SG	3M™ Helmet L-905SG with Welding Shield and Wideview Faceshield
L-705SG	3M™ Hard Hat L-705SG with Welding Shield and Wideview Faceshield
L-901SG	3M™ Helmet L-901SG with Wideview Faceshield
L-705SG-F	3M™ Hard Hat L-705SG with L-184 Welding Shield and Wideview Faceshield
L-905SG-F	3M™ Helmet L-905SG with L-184 Welding Shield and Wideview Faceshield
L-153SG	3M™ Weld Shield Kit
L-154SG	3M™ Silver Front Panel
L-122SG	3M™ Breathing Tube

Part No.	Description
15-5401-02SG	3M™ Adflo™ Turbo Assembly
15-0099-20	3M™ Adflo™ Flow Indicator Rubber Adapter for L-Series SG
15-0099-21	3M™ Adflo™ Flow Indicator for L-Series SG
L-199SG	3M™ Breathing Tube Cover, High Temperature
L-227	Outer Shroud, Flame Retardant, Leather
L-225-2	Outer Shroud, Flame Retardant, Durable
L-226-2	Inner Shroud
L-223-2	Outer Shroud, Standard
L-228-2	Outer Shroud, Nylon

⚠WARNING Welding Safety Products

These welding safety products can help protect you against certain welding hazards. They 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 death**.

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 OH&ESD Technical Service at 1-800-243-4630. In Canada, call 1-800-267-4414.

For More Information
In U.S.
Technical Assistance 1-800-243-4630
Customer Service 1-800-328-1667

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3M

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⚠WARNING Positive Pressure Respirators

These respirators help reduce exposure to certain airborne contaminants. Use of 3M™ Positive Pressure Respirators by untrained or unqualified persons, or use not in accordance with the *User Instructions* or operator's manual, may adversely affect product performance and **result in sickness or death**.

Positive pressure respirators are to be used only by qualified persons who are properly trained in their use and maintenance, and only in accordance with their operating and maintenance manuals. For proper use, each person using these products must first read and understand the operator's manual. See supervisor for assistance or call 3M Technical Service at 1-800-243-4630. In Canada, call 3M OH&ESD at 1-800-267-4414.