

□Speedglas®

Welding Safety

NEW 3M[™] Speedglas[™] Heavy-Duty Welding Helmet G5-01

Farewell to compromises

3M Science. Applied to life.™

Adjust your welding helmet, not yourself

Based on extensive input from welders working at high amperages that need to grind frequently, the 3M™ Speedglas™ Heavy-Duty Welding Helmet G5-01 is created to be adaptable to an individual's needs and situation.





Protection against radiation, sparks and spatter, from a high-coverage welding helmet design that also offers expanded coverage options, see pages 8–10.

View your work with 3M™ Speedglas™ Natural Colour Technology – now available with variable colour option in the dark state. See pages 4–5.

Effective respiratory protection, offering the highest safety class for powered air (TH3) systems. See page 7.

No compromises on comfort! Individualize your helmet comfort with different accessory configurations, while you use the new helmet controls to adjust the respiratory airflow to your preferences, see page 6.



A more natural light state

There are two options of 3M™ Speedglas™ Auto-Darkening Filter Series G5-01 – both offering the popular 3M™ Speedglas™ Natural Colour Technology with great clarity before, during and after welding.

Smoother dark-light filter transition

Both G5-01 filters are also designed to minimize eye strain when switching from dark state to light state, by using an inermediate shade (5 or 7 depending on filter model).

Speedglas welding filter G5-01VC



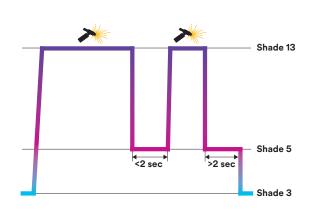
- Adjustable dark shades 5 (cut) and 8 to 14.
- Variable colour technology

Speedglas welding filter G5-01TW



- Adjustable dark shades 5 (cut) and 8 to 13.
- Tack Welding Mode

For technical specification see page 16



Watch our instructional

Tack Welding Mode video

When tack welding...

Human eyes aren't designed for handling rapid transitions from dark to light to dark again – which describes tack welding perfectly! The G5-01TW welding filter uses an intermediate shade 5 light state to help minimize eye strain during extended tack welding applications. If an arc is not struck within 2 seconds the welding filter will switch back to its normal light state (shade 3).



3M[™] Speedglas[™] Welding Filter G5-01VC

Which colour tone works best for you?

To provide even better view and control of your weld puddle we now introduce the 3M™ Speedglas™ Variable Colour Technology: you get to choose between natural (A), cool (B) or warm (C) tones for your dark state. You determine which colour tone provides the best viewing contrast for your welds, and the most comfort for your eyes.



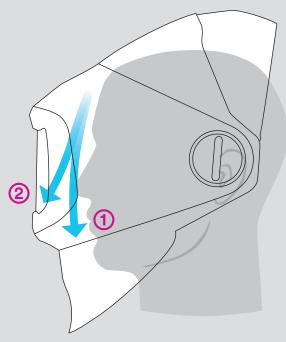
Take control of your flow

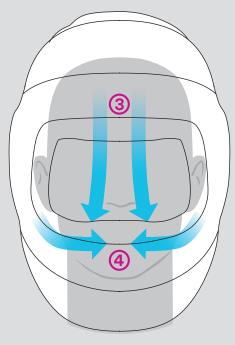
For more control over your comfort, the innovative G5-01 helmet duct system lets you direct the airflow to either your face 1, your visor 2, or some combination of both.

You can even adjust the amount of air coming from the top outlet³ vs. the two side outlets⁴, or choose a blend of both.

All airflow adjustments can be made while you're wearing the helmet – and continuously maintaining your eye, face and respiratory protection.









Stay protected

This flip-up functionality allows you to seamlessly switch between welding and grinding tasks while maintaining powered air respiratory protection. The clear visor also allows you to set-up, inspect and move around the workplace without the need to remove the face protection or break the positive pressure respiratory seal.



A system for many needs

Designed for heavy-duty, high-amperage welding and grinding, the G5-01 welding helmet connects to the 3M™ Adflo™ Powered Air Respirator to provide TH3rated respiratory protection (APF 4`0). The robust Adflo respirator provides all of the features you would expect in a premium system, including easy-to-use functionality.

For conditions where supplied air is required we can offer the 3M™ Versaflo™ Series Regulators.



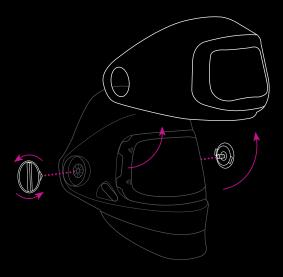
An all-new face seal features a locking toggle designed for fast, secure adjustments. Two new tabs make it easier to lift the seal over your glasses. And installation channels on the helmet speed the removal and replacement of the seal.



Scan this code to see how easy it is to adjust!



The Speedglas welding helmet G5-01 is designed for rough conditions.



For extended non-welding work, just unscrew the two dials to completely remove the welding visor and re-attach the dials again, reducing the helmet weight by up to 36%.



Easy to access and use controls: all adjustable functions are imprinted on the helmet, and adjustments can be made while wearing the helmet and your gloves.



Tailor to fit your preferences

1 New headband design

Improved, self-adjusting comfort paddles along your forehead. Also features a rotation stopper, designed to simplify donning of the helmet.

② Adjustment options

Control the distance and angle from your eyes to the clear visor and welding filter

3 Extra-large back pad

Delivered with an optional, extra-large, back head pad for enhanced comfort







Helmet in standard configuration with rigid neck protection and the smaller, fabric head protection.

For increased visibility at all times, add the fluorescent yellow extended head protection 16 90 21





To better enable you to weld when looking down, replace the rigid neck protection with, for example, the smaller fabric neck protection 16 90 41

When you need the durability of leather, attach the leather head protector 16 90 22 and the leather neck protector 16 90 43





Increase coverage of your head, neck and chest by adding the larger fabric head cover 16 90 23 and/or the extended fabric neck protection 16 90 42

To maximize coverage from sparks, add the fabric shroud 16 90 30 and the extended, larger fabric head protection 16 90 23.

Also available as a kit, 16 90 35



Technical Specification

	- HADE			
3M [™] Speedglas [™] Auto-darkening Welding Filter Series G5-01	G5-01TW	G5-01VC		
MMAW (Electrode)	4			
MIG/MAG	→			
TIG (>20A)	✓			
TIG (1A-20A)	✓			
Plasma (welding and cutting)	✓			
Risk for hidden arc	√			
Tack welding	✓			
Grinding	~	/		
Viewing area (welding filter)	73 × 109 mm			
Viewing area (grinding visor)	170 × 104 mm			
3M [™] Speedglas [™] Natural Colour Technology	Yes			
Variable colour modes (A-B-C)	No	Yes		
Bluetooth enabled	Yes			
Battery lifetime	1500 hours			
Classification	1/1/1/1	1/1/1/2		
Dark state	Shade 8-13	Shade 8-14		
CUT mode	Yes shade 5			
Tack welding mode	Yes No			
Light state	Shade 3			
UV/IR Protection	Shade 13 (permanent) Shade 14 (permane			
Auto ON	Yes			
Switching time, light -dark	0.1 ms (+23° C)			
Memory mode	Yes, via mobile device app			
Delay (switching time, dark-light)	50 – 1300 ms			
Two step recovery	Yes (shade 5)	Yes (shade 7)		
Number of sensors (arc detection)	4			
Approvals Eye and Face protection				
Welding helmet	EN175:B			
Welding filter	EN379			
Protection plates	EN166:B			
Visor plate	EN166:B			
Approval Respiratory Protection / ADF*				
3M™ Adflo™ Powered Air Respirator	EN12941 (TH3) / APF 40			
3M [™] Versaflo [™] Supplied Air Regulators V-100E, V-200E, V-500E	EN14594 (3B) / APF 20			

^{*} APF = The nominal protection factor based on laboratory-measured performance data according to European standards.



	Speedglas welding filter G5-01TW	Speedglas welding filter G5-01VC
Complete powered air system	Helmet G5-01 with welding filter G5-01TW and Adflo high altitude respirator. Part No 61 78 20	Helmet G5-01 with welding filter G5-01VC and Adflo high altitude respirator. Part No 6178 30
Incl consumable starter kit	Helmet G5-01 with welding filter G5-01TW, consumable kit (79 20 00) and Adflo high altitude respirator. Part No 61 78 29	Helmet G5-01 with welding filter G5-01VC, consumable kit (79 20 00) and Adflo high altitude respirator. Part No 61 78 39
Upgrade your old system	Helmet G5-01 with welding filter G5-01TW. Part No 61 11 20	Helmet G5-01 with welding filter G5-01VC. Part No 61 11 30

When you order a complete system, it comes with our new storage bag. Featuring a fast, double-zipper opening top and large carry handles, the bag keeps your gear protected and clean when not in use.



Scan this code to see how to unbox your new system



BPK-01

16 92 10

16 92 11

16 92 23

Increase your comfort

We offer numerous accessories so you can configure your 3M™ Speedglas™ Welding Helmet G5-01 to meet your individual preferences and application needs.



16 92 00





83 50 20

Long power cable for task light

Short power cable for task light Pouch with Adflo battery, for

task light when using supplied air regulator (not shown)

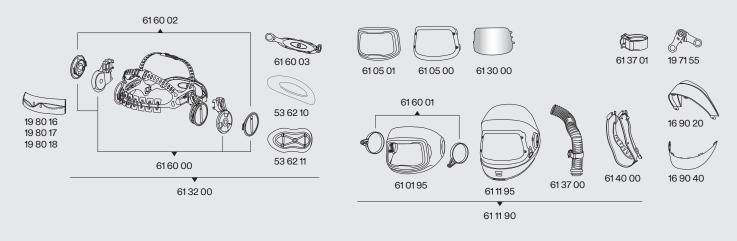


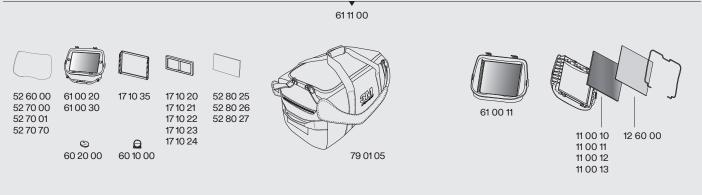
16 90 35

Part No	Description	Part No	Description
16 90 20 16 90 21	Head protection in fabric Head protection fluorescent yellow	83 40 18	Flame resistant breathing tube cover (recommended when using the task light).
16 90 22	Head protection in leather	83 50 20	Braces for respirator
16 90 23	Head protection in fabric (large)	83 71 10	Adflo odour filter
16 90 24	Scrape guard (not shown)	83 71 20	Odour filter pad
16 90 30	Shroud	83 72 42	Adflo gas filter A1B1E1
16 90 35	Extended cover kit (shroud and	83 75 42	Adflo gas filter A2
	large head cover in fabric)	BPK-01	Back pack for respirator
16 90 41	Neck protection in fabric (small)		
16 90 42	Neck protection in fabric (large)		
16 90 43	Neck protection in leather		
16 92 00	Task light, incl mounting parts and cables		
16 92 05	Protection plate for task light,		

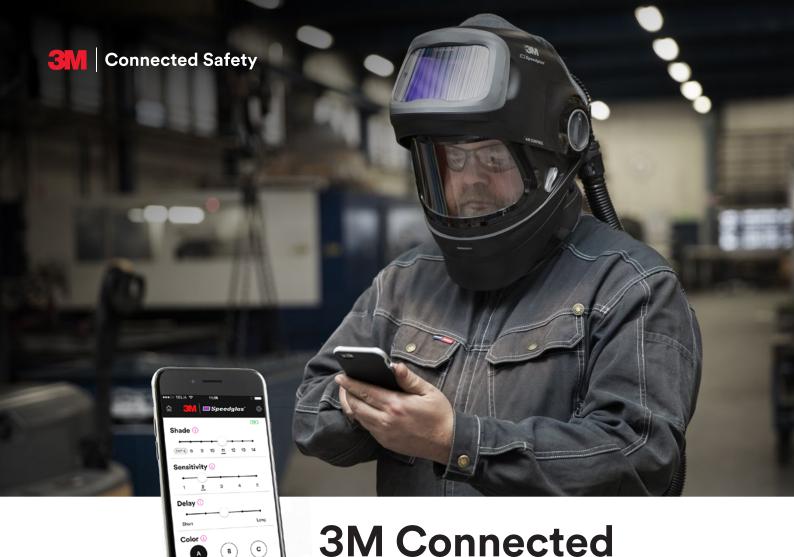


Spare parts and consumables





Part No	Description	Part No	Description	Part No	Description
11 00 10	Passive welding filter lens shade 10 (90×110)	52 70 01	Outer protection plate (scratch +), pkg of 10	61 30 00	Visor plate, anti-fog and hardcoated, pkg. of 5
11 00 11	Passive welding filter lens shade 11 (90×110)	52 70 70	Outer protection plate (heat), pkg of 10	61 32 00 61 37 00	Headband with assembly parts Airduct breathing tube (short)
11 00 12	Passive welding filter lens shade 12 (90×110)	52 80 25 53 62 10	Inner cover plate, pkg of 5 Cushion part for headband G5-01	61 37 01	incl. holder Holder for breathing tube
11 00 13	Passive welding filter lens shade 13 (90×110)	53 62 11 60 10 00	Large head rest Battery holder	61 40 00 61 60 00	Face seal Pivot and sliding mechanism,
12 60 00 16 90 20	Inner cover plate for passive filter Head protection in fabric (small)	60 20 00 61 00 11	Battery CR2450 Speedglas passive welding filter	61 60 01	including pivot knobs Pivot rings for outer shield
16 90 40 17 10 20	Neck protection rigid Magnifying lens 1.0X	61 00 20	kit G5-01 (shade 11) Speedglas welding filter	61 60 02 61 60 03	Pivot knobs Headband back part
17 10 21 17 10 22	Magnifying lens 1.5X Magnifying lens 2.0X	61 00 30	G5-01TW Speedglas welding filter G5-01VC	61 78 00	Helmet G5-01, without welding filter, with 3M™ Adflo™ Powered
17 10 23 17 10 24	Magnifying lens 2.5X Magnifying lens 3.0X	61 01 95 61 05 00	Outer shield Front cover for inner visor	61 78 09	Air Repirator Helmet G5-01, without welding
17 10 35 19 71 55 19 80 16	Magnifying lens holder Hinge mechanism, 1 pair Sweatband (towelling), pkg of 3	61 05 01 61 11 00	Front cover for flip-up Welding helmet G5-01, without welding filter	017009	filter, with 3M™ Adflo™ Powered Air Repirator and consumable starter kit
19 80 17	Sweatband (fleecy cotton), pkg of 3	61 11 90	Welding helmet G5-01, without welding filter, without neck or	79 01 05 79 20 00	Carry Bag Consumable starter kit G5-01,
19 80 18 52 60 00	Sweatband (leather) Outer protection plate (standard), pkg of 10	61 11 95	head protection Inner shield with airduct and airflow controls (including		includes 3 different sweatbands, face seal, visor plate, inner and outer cover plates.
52 70 00	Outer protection plate (scratch), pkg of 10		visor frame)		



- Opt-in by securely pairing your smartphone to your G5-01 welding filter using the 3M Connected Equipment App
- Program up to ten memory modes (settings for dark shades, sensitivity, delay etc) with your phone
- Easily record your welding helmet maintenance log to the App
- Instantly know statistics, including: when your ADF was first activated; hours on; hours in the dark state; hours in the light state; and the number of on/off cycles

Equipment App

 Have instant access to User Manuals and Parts List



Learn more about the G5-01

Go to 3M.co.uk/speedglas or youtube.com/3MSpeedglas



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