

At MSA, "When you go in...We go in with you" is more than just words, it's what drives us. Everything we do is done with your safety and comfort in mind. When we create our products, we're guided by a single question: how do we meet and exceed our customers' safety needs? In answer, we solicited feedback from firefighters across the nation, we listened closely and we incorporated those ideas to produce the most advanced, intelligent user-friendly self-contained breathing apparatus (SCBA) available today.

Introducing the G1 SCBA from MSA: the most comfortable, streamlined, balanced, configurable, and customizable SCBA we've ever produced.



Our Commitment to the Fire Service

MSA's long-standing commitment to the fire service industry began nearly 100 years ago. Our goal is to provide dependable, high-quality products, instruments and service that will help to ensure a safe return home. MSA's extensive knowledge and expertise has helped to harness new technologies to produce exceptional protective equipment.

The G1 SCBA is designed solely with your safety and comfort in mind. The G1 SCBA offers integrated and enhanced solutions to exceed your needs today as well as years into the future.



A Timeline of Innovation



1917: MSA enters breathing apparatus market with Gibbs & Mcaa closed-circuit apparatus for rescue & firefighting.

1936: First firefighting breathing apparatus – MSA Lightweight Half-Hour OBA.

1967: MSA introduces Belt-Mounted Regulator SCBA, Model 401.

1980: First fully-wound Ultra Elite air-cylinders.

1983: Custom 4500° Air Mask - MSA's first high pressure SCBA.

1985: Nomex SCBA shoulder straps introduced; all Nomex Flame & Heat Resistant (FHR) SCBA harness.



1987: First breathing apparatus to meet NFPA 1981 Edition fire service standards − Ultralight II & Custom 4500 II Revolutionary Quick-Fill® System allows firefighters to replenish air supply; becomes requirement on all NFPA SCBA in 2002. ClearCom™ RI Communications System integrates facepiece mic with radio. Vari-X Foam Generator produces expansion foam.

1990: Ultralite® and Custom 4500 MMR Air Masks introduced. Composite III Cylinder can be pressurized to 3000 psig.

1992: Firefly PASS System.

1994: Ultra Elite® Facepiece launched.

1999: MMR Xtreme® SCBA offers new levels of performance. Vulcan Carrier & Harness is first composite-molded SCBA back frame. DragonFly PASS is offered in stand-alone or integrated versions.

2000: Integrated Control Module (ICM).

2002: FireHawk® Air Mask, first unit certified to new NFPA 1981, 2002 Edition standard that includes CBRN component and Quick-Fill System.

2007: FireHawk M7 - First SCBA compliant to NFPA 1981 & 1982, 2007 Edition.

2013: FireHawk M7XT Air Mask.

2014: G1 SCBA.



"MSA has taken all of the firefighters concerns and addressed them in the G1 SCBA."

– TB, Firefighter

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6. G1 SCBA ergonomics

- Swiveling, adjustable lumbar pad manages SCBA weight
- Improved comfort, balance, fit

7. Central power system for all electronics

- Only **one** power source
- Uses either alkaline or rechargeable battery
- No need for multiple battery sizes
- Low cost of ownership

8. Available in easily-upgradeable threaded or quick-connect cylinder attachment

• Quick attachment and replacement for return to the fireground

Integrated technology for future expansion

• Bluetooth, RFID, Near Field Communication (NFC), long-range radio

Customizable — Built to meet your specific needs

- Control module and HUD display required information; easily adapt to your existing standard operating procedure
- Wires/hoses can be routed as necessary

MSA The Safety Company

About FACE.

The G1 Facepiece *eliminates* electronic components from the facepiece. By removing added weight that results from housing electronics within the facepiece, the G1 Facepiece reduces stress and fatigue and improves your overall endurance level. This design also means that there are no electronic components on the outside of the facepiece that may result in snag and entanglement hazards. What's more, by eliminating costly electronic components, the price is reduced substantially, allowing personal-issue facepieces to be a cost effective measure. As an added bonus, the facepiece is equipped with cross-contamination prevention to reduce the spread of illness when facepieces are shared. But MSA didn't stop there. The G1 Facepiece is equipped with input capabilities for our speaker module to provide clear communication, outfitted on every G1 SCBA we manufacture.

The new G1 Facepiece is not only lightweight and compact with overall low profile design, it's comfortable and easy to use. Taking the preferred design features of the Ultra Elite Facepiece, including wide field of view and comfortable, robust seal geometry, we've taken the G1 SCBA to the next level with an open port to provide low breathing resistance, both on and off air. The G1 Facepiece can help you to conserve energy for when you need it most.



Be Heard.

Electronic Voice Amplification Shouldn't Be Optional.

Every G1 SCBA is equipped with electronic voice amplification from the factory, because high quality fireground communications shouldn't be optional. With patent-pending design, dual microphones are integrated into the regulator to eradicate amplified inhalation breath. This unique feature automatically activates and shuts down with the unit. Shoulder-mounted speaker module provides loud and clear communications from the regulator microphone while maintaining low profile to aid in reducing snag points. Every G1 SCBA is equipped with this cutting edge technology, as MSA firmly believes that clear communication **should not** be optional.

Turn Up the Heat.

Heat Immersion Testing. When it comes to a rugged design that surpasses durability testing, there is nothing more stringent than the Heat Immersion Test that is required for all PASS devices. Not only does the G1 SCBA PASS device make the grade, but it is the ONLY SCBA on the market that also tests the speaker module. The G1 SCBA's complete electronic system surpassed the Heat Immersion Testing requirements; that means the G1 SCBA will continue to perform or continue to answer the call even when they turn up the heat.

Designed to fit YOUR needs.

Cutting edge technology. The G1 SCBA is an air mask that finally meets your demands, providing more functionality than ever before. The G1 Control Module has both dual analog and color digital LCD displays, making certain that your status is available at at all times. Auto-start motion control mechanism built into the control module intuitively provides the information you need when you need it. And, thanks to audio and tactile buttons, no matter which button is pressed, your information is displayed.

Highly configurable and customizable. The G1 SCBA's user selectable configurations are an industry first: pressure; time remaining calculation; breathing time; temperature (the ability to set your own temperature alarm); and pressure drop (to alert you to leaks, either primary or secondary.) What's more, the control module and HUD can be programmed to project information required by your particular specification. But best of all, electronics can be



adjusted to the way YOU want. The G1 SCBA provides the ability to configure this device to follow any standard operating procedure, with alarm settings, lights and information provided on the control module. The G1 SCBA...designed for the flexibility you need!

Heads up.

Internal HUD display. No electronics? It's not only possible, it's true. By placing the heads up display within the regulator, we removed facepiece electronics, resulting in lighter weight, reduced profile, eliminated pairing, no cross talk, and no external contaminates that can often block the HUD view. This new design means that you no longer have to buy HUDs for each facepiece, reducing costs and maintenance. By using revolutionary light pipes, the G1 SCBA heads up display is clear and simple to understand; it's a HUD system made easy!

Always in Demand.

G1 Mask-Mounted Regulator. The G1 Regulator houses easy-to-operate heads up display and communications, yet is the smallest and lightest regulator available. Easily configured to meet firefighters' needs, this game-changing G1 Regulator can shut off air flow and start air flow without taking a breath, and release the regulator from the facepiece in one simple move! With no exposed wires and purge cover designed to keep the valve clean, the G1 Regulator is always in DEMAND.



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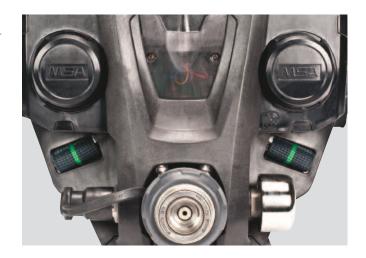
Finally, an SCBA where one size really can fit all.

Ergonomics. The G1 SCBA is the only SCBA on the market that



The Power of One.

Central Power System. With only one centralized power source, you can use either an alkaline or an industry first rechargeable battery. As the ONLY manufacturer to offer rechargeable batteries, we've taken SCBA protection to a whole new level — finally, an SCBA that doesn't require multiple battery sizes! No need to manage battery types, compartments and change-outs, resulting in lower cost of ownership.



Make a Connection.

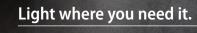
Pressure Reducer. Designed to work with quick connect or CGA threaded equipped cylinders, there's a connection to meet your need. Adding to flexibility are available direct and remote quick connect attachment options. This flexibility makes cylinder change-outs effortless. Pressure reducer accessory ports allow for future upgradeability, including the high pressure Quick Fill® System. And with guick-connect and threaded-connection options and easy upgrades from threaded to quick-connect option, there are few replacement parts. All in all, this unit provides each user with many choices, all of which result in lower cost of ownership.

When Air is Low, Seconds Matter.

Universal Air Connection (UAC). When air is low and you must access the UAC for emergency purposes, seconds matter. That's why MSA invented the patent-pending RIT light to shine a bright white LED on the UAC connection, making it easier to find and connect to a rescue air source. Because when air is low, seconds matter. The primary UAC illuminates when End of Service Time Indicator (EOSTI) reaches 35%. The patent-pending Rapid Intervention Team (RIT) light makes it easy to connect to supplement a fallen firefighter's air supply. No more fumbling in the dark!







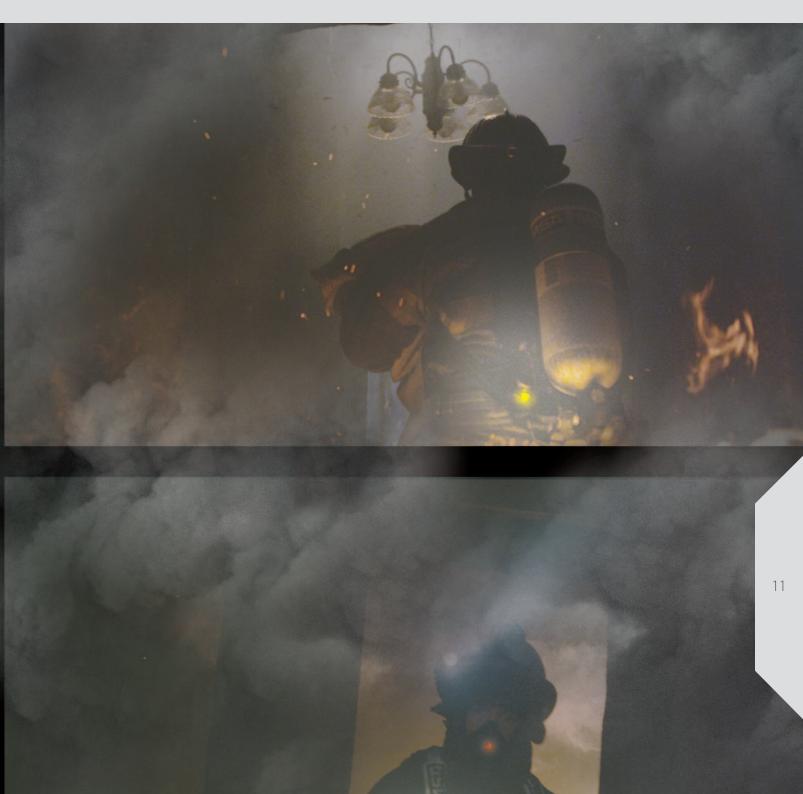
Improved visibility. The G1 SCBA is equipped with 360 degrees of three-stage buddy lights, providing increased visibility of your status to those around you. Highly reflective shoulder straps and photoluminescent cylinder provides another visibility level within any environment.

When seconds matter.

Make the connection. Patent-pending RIT light designed to illuminate the Universal Air Connection (UAC) for Quick-Fill System operations, means no more fumbling in the dark when seconds matter!

No Thinking Required.

Buddy light system. Red light, green light, yellow light too, the G1 SCBA is equipped with a resourceful buddy light system that allows the unit's condition to be viewed from any orientation. The user's unit status can be determined from any direction and from great distance.





MSA The Safety Company

The Quick-Fill System



The Quick-Fill System lets MSA air mask users refill and transfill air cylinders while SCBA is worn, without removing air cylinder — even in IDLH atmospheres. Use this MSA option to:

- Fill SCBA cylinder from mobile compressor or cascade system in less than a minute.
- Transfill between two cylinders, providing emergency breathing system.
- Extend air supply over longer durations, using remote compressed-air source.

Air masks compliant to recent NFPA standards have Quick-Fill URC fitting located at the Audi-Larm™ Audible Alarm warning device. Quick-Fill System hose with quick-disconnect connects air source to adapter for air transfer. See Bulletin 0105-92-MC for a Quick-Fill System Q&A.

Ordering Information

QUICK-FILL SYSTEM REPLACEMENT PARTS	10156464	ExtendAire II Kit for G1 SCBA
	10156465	Waist Mounted Quick-Fill for G1 SCBA
	10156466	Replacement ExtendAire II Pouch for G1 SCBA
	10156467	Replacement Quick-Fill Pouch for G1 SCBA
	10156468	3 ft Quick-Fill hose in pouch for G1 SCBA

	25 ft	12 ft	10 ft	8 ft	6 ft	3 ft	
QUICK-FILL	485332	802690	802689	802688	802687	485331	FQD x FQD
HOSES	487907	802677	802675	802673	802671	492796	FQD x CGA-347 Outlet
	487909	802685	802683	802681	802679	487427	FQD x CGA-347 CN
	487906	802704	802703	802702	802701	802705	FQD x SAE-4
	487908	802678	802676	802674	802672	492797	FQD x CGA-346 Outlet
	487910	802686	802684	802682	802680	487428	FQD x CGA-346 CN

25-ft lengths are stocked; other custom lengths are available on special material basis. All SAE fittings are for high-pressure service. Female quick-disconnect fittings have dust covers.

Spectacle Kit for G1 Facepiece

We have taken the old and outdated spectacle kits of the past and thrown them in the trash. Working with TriSpec, MSA has designed a modern and sophisticated option, providing both clear sight and style.

Part Number	Description			
10144230	Spectacle Kit for G1 Facepiece			



G1 Cylinders for Remote Connection

Cylinder Pressure	Cylinder Duration	Connection Type	Air	Less Air
2216 psig	30 min	Remote	10156422	10156431
4500 psig	30 min	Remote	10156423	10156432
4500 psig	45 min LP*	Remote	10156424	10156433
4500 psig	45 min	Remote	10156425	10156434
4500 psig	60 min	Remote	10156426	10156435

^{*} Low Profile version of the 45 min, 4500 psig cylinder

G1 Cylinders for Direct Connection

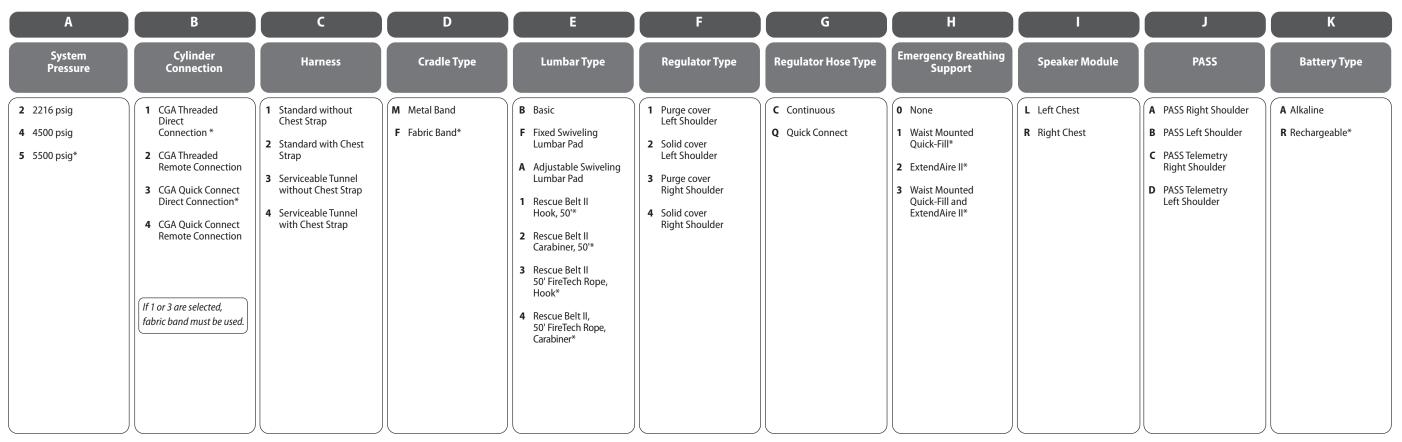
Cylinder Pressure	Cylinder Duration	Connection Type	Air	Less Air
2216 psig	30 min	Direct	10156440	10156449
4500 psig	30 min	Direct	10156469	10156450
4500 psig	45 min LP*	Direct	10156442	10156451
4500 psig	45 min	Direct	10156443	10156452
4500 psig	60 min	Direct	10156444	10156453

^{*} Low Profile version of the 45 min, 4500 psig cylinder

G1 Cylinders for 5500 psig system

Cylinder Pressure	Cylinder Duration	Connection Type	Air	Less Air
5500 psig	30 min	Remote	10156427	10156436
5500 psig	45 min	Remote	10156428	10156437
5500 psig	60 min	Remote	10156429	10156438
5500 psig	75 min	Remote	10156430	10156439
5500 psig	30 min	Direct	10156445	10156454
5500 psig	45 min	Direct	10156446	10156456
5500 psig	60 min	Direct	10156447	10156457
5500 psig	75 min	Direct	10156448	10156458





*NOT AVAILABLE UNTIL Q4 2014



Assemble-To-Order System for SCBA Facepiece

A	В	С	D	E	F	G	
Application	Size	Material	Nosecup	Head Harness	Neckstrap	Regulator Connection	
F Fire	S Small M Medium L Large	1 Hycar	0 None 5 Small M Medium L Large	0 None 4 4 pt Adjustable 5 5 pt Adjustable R Rubber	O None C Cloth R Rubber	1 Fixed Push-to-Connect	
Note: Part number facepieces are also available. Column: A B C D E F G G1FP 1 D D D D D D D D D D D D D D D D D D							

G1 Facepieces

Part Number	Туре	Size	Nosecup Size	Headharness	ATO Configuration
10156458	Fire Service	Small	Small	4 pt Adjustable	G1FP-F-S-1-S-4-0-1
10156459	Fire Service	Medium	Medium	4 pt Adjustable	G1FP-F-M-1-M-4-0-1
10156460	Fire Service	Large	Large	4 pt Adjustable	G1FP-F-L-1-L-4-0-1
10156461	Fire Service	Small	Small	Rubber	G1FP-F-S-1-S-R-0-1
10156462	Fire Service	Medium	Medium	Rubber	G1FP-F-M-1-M-R-0-1
10156463	Fire Service	Large	Large	Rubber	G1FP-F-L-1-L-R-0-1



Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood.
Only they contain the complete
and detailed information concerning proper use and care of these products.

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