


## M1 SCBA – Your SCBA Platform for the Future

Features and Benefits	
<p><b>Greater MODULARITY</b></p>	<ul style="list-style-type: none"> <li>✓ Easy to assemble, don and train</li> <li>✓ Individual configuration according to needs and budgets → <b>BUY NOW, UPGRADE LATER</b></li> <li>✓ Upgrades can be installed in the field</li> <li>✓ Retrofittable with SingleLine SCOUT</li> </ul> <p><b>NEW:</b> Now available with <b>M1 Control Module</b> fully integrated Personal Alarm Safety System device with optional telemetry capability</p> 
<p><b>Enhanced HYGIENE</b></p>	<ul style="list-style-type: none"> <li>✓ Easy to clean and disinfect (no difficult to reach or tight angle spots on the backplate)</li> <li>✓ Dust and water-repellent harness material reduces time for mechanical cleaning</li> <li>✓ Simplified disassembly and assembly of components</li> <li>✓ Entire SCBA is machine washable (no disassembly required)</li> <li>✓ IP67 resistant C1 headset</li> </ul>
<p><b>Improved ERGONOMICS</b></p>	<ul style="list-style-type: none"> <li>✓ Backplate with unique one-handed height adjustment (S/M/L marking)</li> <li>✓ Unique padded harness design with S-shape prevents pressure points and slipping</li> <li>✓ Hip belt designed for even weight distribution</li> <li>✓ Lightest SCBA with height adjustment on the market (less than 4 kg)</li> </ul>
<p><b>Highest SAFETY STANDARDS</b></p>	<ul style="list-style-type: none"> <li>✓ Innovative material composition of mask, lung-governed demand valve and pneumatics for increased chemical resistance → <b>BEST PROTECTION AGAINST PERMEATION</b></li> <li>✓ Rescue line with CleanConnect increases safety by cleaning the coupling with medium pressure → <b>MSA PATENT</b></li> <li>✓ Improved cleanability enhances safety for service technicians</li> <li>✓ Reduced risk of snagging hazards with guided hoses in backplate</li> <li>✓ Reflective harness elements for greater visibility in dark or smoke-filled environments</li> <li>✓ Tested down to -40°C (EN 137 requires only -30°C)</li> </ul>
<p><b>Reduced COST OF OWNERSHIP</b></p>	<ul style="list-style-type: none"> <li>✓ All components designed for longer life → <b>10 YEAR WARRANTY*</b></li> <li>✓ Reduced maintenance costs due to extended service intervals</li> <li>✓ Easy to upgrade and service without special tools</li> <li>✓ Pressure reducer with multiple ports (only one design for all options and future upgrades)</li> <li>✓ alphaCLICK II high pressure quick connect saves 90% time for cylinder exchange</li> </ul>
<p><b>State-of-the-Art COMMUNICATION</b></p>	<ul style="list-style-type: none"> <li>✓ C1 headset easily attaches to the outside of the G1 mask, integrating seamlessly with the mask design</li> <li>✓ Microphone design protects against surrounding sound (no transmission of unwanted noise)</li> <li>✓ Single interchangeable C1 headset between users provides lower cost-of-ownership</li> </ul>

\* MSA will guarantee replacements if root cause is identified as a manufacturing/workmanship defect



## M1 SCBA – Technical Specifications

Approvals and Antistatic Properties	
Approvals	EN 137, type 1 and 2
Antistatic Properties	ATEX II 1G IIC T6 II 1D IIIC -40°C ≤ Ta ≤ +60°C

Components and Material		
Backplate	Basic	Glass fibre reinforced polyamid, flame retardant and conducting surface
	Optional swivel Optional swivel, height adjustment	
Harness	Basic	Polyamid webbing coated with CR rubber, flame retardant, tear resistant and conducting surface
	Advance	Core: Flame retardant polyethylen foam padding Outer shell: Coated aramid textile, flame retardant, tear resistant and conducting with layered band made from polyamid webbing coated with CR rubber
	Attachment points (optional)	Stainless steel
Hip Belt	Basic	Aramid textile
	Advance	Core: Flame retardant polyethylen foam padding Outer shell: Coated aramid textile, flame retardant, tear resistant and conducting with layered band made from polyamid webbing coated with CR rubber
Cylinder Strap	Band	Aramid textile
Buckles	Plastic	Glass fibre reinforced polyamid, flame retardant
	Metal	Stainless steel
Accessories	Chest strap	MAC (Modacryl) – blended fabric with aramid
	Hose holder	Polyamid webbing coated with CR rubber, flame retardant, tear resistant and conducting surface
	Rescue handle	Aramid textile
	Bumper	TPE (thermoplastic elastomer)
Pneumatics	Pressure reducer Primary low pressure warning device Mechanical gauge Optional alphaCLICK II (high pressure quick connect to cylinder) Optional QuickFill (direct pressure connection for fast cylinder refill while donned) Optional additional medium pressure lines for rescue operation, Classic or SingleLine, CleanConnect (optional flush function)	
Manifold	Standard gauge (gauge, whistle, one medium pressure coupling) Combi gauge (gauge, whistle, one or two medium pressure couplings) SingleLineSCOUT (gauge, whistle, one or two medium pressure couplings, no-motion alarm) Control Module (gauge, digital display, no-motion alarm, optional telemetry)	
Demand Valve	Short or long medium pressure hose Connectors: Push-to-connect (AS), M45x3 (AE), ESA Optional bypass (only for AS)	

## M1 SCBA – Technical Specifications

Weight	
Backplate with Harness and Pneumatics	
Approx. 3.6 kg	Backplate with swivel, Advance harness, single cylinder strap, plastic buckles, demand valve holder AS, PR18 with threaded connection, standard manifold
Approx. 3.9 kg	Backplate with swivel and height adjustment, Advance harness, single cylinder strap, plastic buckles, 2 attachment points, demand valve holder AS, PR18 with threaded connection, SL with combi gauge (2 medium pressure couplings)
Approx. 4.0 kg	Backplate with swivel, Advance harness, single cylinder strap, plastic buckles, 2 attachment points, chest strap, demand valve holder AS, PR18 with alphaCLICK II (w/o cylinder adapter), standard manifold, rescue hose with flush function
Approx. 4.6 kg	Backplate with swivel and height adjustment, Advance harness, single cylinder strap, metal buckles, 2 attachment points, rescue handle, chest strap, demand valve holder AS, PR18 with alphaCLICK II (with cylinder adapter), SL with combi gauge (2 medium pressure couplings), rescue hose with flush function
Full Face Mask and Lung-Governed Demand Valve (LGDV)	
Approx. 650 g	G1 full face mask type AS with rubber harness
Approx. 300 g	M1 LGDV type AS with short medium pressure line
Complete SCBA System	
Approx. 11 kg	Backplate with swivel, Advance harness, single cylinder strap, plastic buckles, demand valve holder AS, PR18 with threaded connection, standard manifold, M1 LGDV, G1 full face mask, charged cylinder 6.8l/300bar

Pressure Range and Air Flow Capacity		
Pressure Reducer		
Medium pressure range	Approx. 6.0 bar up to 8.0 bar	Approx. 6.4 bar @ 20 bar Approx. 7.7 bar @ 300 bar
Air flow capacity	Approx. 600 l/min up to 1.000 l/min	Approx. 600 l/min @ 20 bar Approx. 1.000 l/min @ 300 bar
Lung-Governed Demand Valve		
Medium pressure range	Approx. 3.5 bar up to 10.0 bar	
Air flow capacity (constant positive pressure inside the mask)	Approx. 600 l/min @ 300 bar Approx. 350 l/min @ 20 bar	

## M1 SCBA – Assembly To Order (ATO) Overview

A	B	C	D	E	F	G
<b>Breathing Apparatus</b>	<b>Approvals</b>	<b>Backplate</b>	<b>Backplate Add-ons</b>	<b>Cylinder Strap</b>	<b>Harness</b>	<b>Harness Add-ons</b>
<b>RE:</b> M1 set with removable LGDV  <b>FI:</b> M1 set with fixed LGDV  <b>WO:</b> M1 set without LGDV  <b>LO:</b> M1 LGDV only	<b>C4:</b> CE EN 137 (-40°C)  <b>C5:</b> CE EN 137 (-40°C) UK  <b>C6:</b> CE EN 137 (-40°C) AS/NZ	<b>BNA:</b> Basic  <b>BSO:</b> Swivel  <b>BSH:</b> Height adjustment and swivel  <b>ABB:</b> alphaBELT Basic  <b>ABP:</b> alphaBELT Pro  <b>ABS:</b> alphaBELT Pro swivel	<b>DN:</b> no add-ons  <b>DB:</b> Bumper  <b>DV:</b> Valve protection  <b>DR:</b> Rescue handle  <b>DA:</b> Entanglement protection  <b>BR:</b> DB-DR  <b>VR:</b> DV-DR  <b>ER:</b> DA-DR  <b>EB:</b> DA-DB  <b>EV:</b> DA-DV  <b>EW:</b> DA-DB-DR  <b>EX:</b> DA-DV-DR	<b>SP:</b> Single, plastic buckle  <b>TP:</b> Twin, plastic buckle  <b>SM:</b> Single, metal buckle  <b>TM:</b> Twin, metal buckle	<b>BP:</b> Basic, plastic buckle  <b>BM:</b> Basic, metal buckle  <b>AP:</b> Advance, plastic buckle  <b>AM:</b> Advance, metal buckle  <b>EM:</b> eXxtreme, metal buckle	<b>GN:</b> no add-ons  <b>GC:</b> Chest strap  <b>GA:</b> Attachment points  <b>CA:</b> Chest strap, attachment points  <b>GT:</b> Tunnels  <b>GC:</b> Chest strap, tunnels
H	I	J	K	L	M	O
<b>Pneumatic System</b>	<b>Pneumatic Add-ons</b>	<b>Manifold Options</b>	<b>Pneumatic Connections</b>	<b>Demand Valve (LGDV)</b>	<b>Demand Valve Add-ons</b>	<b>Language Manual</b>
<b>SL:</b> SingleLine  <b>C1:</b> Classic  <b>C2:</b> Classic with whistle line  <b>C3:</b> Classic with front whistle	<b>IN:</b> no add-ons  <b>IA:</b> alphaCLICK II  <b>IQ:</b> QuickFill  <b>AQ:</b> alphaCLICK II, QuickFill	<b>J1:</b> Manifold (gauge, whistle, coupling)  <b>J2:</b> Combi gauge  <b>J3:</b> Combi gauge one coupling  <b>J4:</b> SingleLine SCOUT  <b>J5:</b> SingleLine SCOUT one coupling  <b>J6:</b> Manifold (gauge, whistle, fix)  <b>JC:</b> Control Module  <b>JR:</b> Control Module with radio*  <b>JG:</b> Classic gauge	<b>KN:</b> no add-ons  <b>K1:</b> Medium pressure coupling 600 (rescue line, long, shoulder)  <b>K2:</b> Medium pressure coupling 600 (rescue line, long, shoulder, CleanConnect)  <b>M3:</b> Medium pressure coupling 600 with Y-piece and LGDV (one coupling)	<b>L1:</b> M1 LGDV AS, short  <b>L2:</b> M1 LGDV AS, long  <b>L3:</b> M1 LGDV AS, fix  <b>L4:</b> M1 LGDV AE M45x3, short  <b>L5:</b> M1 LGDV AE M45x3, long  <b>L6:</b> M1 LGDV AE M45x3, fix  <b>L7:</b> M1 LGDV ESA, short  <b>L8:</b> M1 LGDV ESA, long  <b>L9:</b> M1 LGDV AS-B, short  <b>L0:</b> M1 LGDV AS-B, long	<b>MN:</b> no add-ons  <b>HS:</b> Demand valve holder AS  <b>HE:</b> Demand valve holder AE-ESA  <b>HA:</b> Demand valve holder AE	<b>BG:</b> Bulgarian  <b>CS:</b> Czech  <b>DA:</b> Danish  <b>DE:</b> German  <b>EL:</b> Greek  <b>EN:</b> English  <b>ES:</b> Spanish  <b>FI:</b> Finnish  <b>FR:</b> French  <b>HU:</b> Hungarian  <b>IT:</b> Italian  <b>KK:</b> Kazakh  <b>NL:</b> Dutch  <b>NO:</b> Norwegian  <b>PL:</b> Polish  <b>PT:</b> Portuguese  <b>RO:</b> Romanian  <b>RU:</b> Russian  <b>SK:</b> Slovakian  <b>SV:</b> Swedish  <b>TR:</b> Turkish  <b>UK:</b> Ukrainian

\* Radio frequency (EU, UK, AS/NZ) according to approvals selection in column B

AS-B = Bypass

A\_M1 SCBA-

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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