



The MSA READY Programme

*Air-breathing Safety Solutions for the Oil, Gas
and Petrochemical Industry*

The Changing Face of the OGP Industry

As a global leader in safety, MSA understands that the safety considerations of the Oil, Gas & Petrochemical (OGP) Industry are continually changing as technology advances to feed an energy-hungry world. Increase in sour gas development projects, H₂S hazards and deep water drilling underscore the growing need for reliable respiratory and associated safety solutions. As a response to these particular challenges, MSA has created the *READY* Programme, a system specifically designed to streamline the development and implementation of individualised safety strategies for onshore and offshore OGP installations. It is adaptable to both safety case and prescriptive solutions. The MSA *READY* Programme is a single source design, implementation and service plan for the integrated safety needs of operators and HSE decision makers.





The READY programme

The *READY* programme is divided into the following application-based modules.

workREADY

escapeREADY

responseREADY

serviceREADY

trainingREADY

The *READY* programme is designed to directly address the individualised needs of OGP. It focuses on holistic solutions, modular components, efficiency, adaptability and ease of use. Some of the most important benefits are:

- increased efficiency
- modular components reduce parts list
- simplified training and routines
- reduction of human error
- reduced stress
- optimised worker performance
- increased readiness

How it works

Our local MSA partner will consult with your safety officer to identify respiratory hazards. Other workplace safety issues are also identified and a safety plan is developed that is tailored exactly to the requirements of your company. These are designed to support your safety case and meet local and flag state regulations as applicable.

Once the safety plan is finalised, the integrator works intimately with your safety officer to ensure a streamlined programme of training, inventory control and maintenance.





workREADY

keeping crews safe in hazardous working conditions

An industrial breathing safety strategy must prioritize the working conditions and routines of crews to be fully effective. That is where MSA workREADY comes in. workREADY components are designed to be intuitive, adaptable and unobtrusive. Crews using workREADY equipment maintain better performance levels while enjoying the highest standards of breathing protection. The result: lower LTIF (Lost Time Injury Frequency) and increased production.

MSA has a complete line of self-contained, supplied air and filter systems to match any number of hostile conditions and regulatory standards. Accessing this large selection of mutually compatible components, our local MSA partner can work with your safety officer to create a customized safety plan that is optimally suited to your operation requirements. Typical applications include petroleum drilling, tank cleaning and confined space applications.



workREADY

Drilling and Exploration

Petroleum drilling and exploration are marked by long shifts in tight quarters. Respiratory protection should be light weight, allow for complete freedom of movement and not get in the way. Crew safety during normal routines and unexpected emergencies must remain a priority in equipment, procedure and planning. MSA supplied air breathing apparatus with airline connection perfectly suit these applications.



BD mini EN

The MSA compressed air breathing apparatus BD mini is especially suited for short-duration work in confined spaces. Its small size and the variable design permit various carrying modes. With a connection for compressed airline breathing apparatus (available as accessory) the BD mini can be connected to an airline system or a cylinder cascade.

Part No.: D4075713 – BD mini (cylinder not included)



PremAire Cadet Escape NIOSH

The PremAire Cadet Escape respirator, a combination supplied air respirator with escape cylinder, is designed to be versatile, comfortable, and affordable. A streamlined new design offers a first stage regulator and cylinder valve within one assembly, creating a very small size and profile that is less likely to snag when working in tight places. Low-profile escape cylinders can be worn on either the right or left hip and users can choose from options of 5, 10, 15 minutes rated cylinders.

Part No.: A-PC11KAJ01G1 – PremAire Cadet Escape with case & 15 min. carbon fibre cylinder (empty)



workREADY

Confined Space Applications

Maintenance and shutdown procedures in confined spaces such as welding inside vessels or tank cleaning often mean working in low-oxygen environments. MSA has several systems specifically designed for failsafe mobile operations in tight spaces. For long duration confined space jobs, MSA trolley systems ensure extended air supply.



MASS Trolley System EN

The MASS trolley system consists of a cylinder holder suitable for placing one 50 litre cylinder (MASS 50 I) or two 50 litre cylinders (MASS 50 II), having a maximum operating pressure of 300 bar or 200 bar, high pressure hoses, pressure reducer and two coils with hoses for the remote supply of breathable air (standard length: 40 metres each). MASS system has been tested and certified for the supply of breathable air up to a maximum of 4 operators.

Part No.: M0023268 – MASS 50 II with hoses (cylinders not included)



PortAire System*

The PortAire system holds two standard SCBA air cylinders to provide industrial personnel, confined space workers, firefighters and other wearers of respiratory protective equipment with a portable, compressed air source any time an airline device is required. The PortAire system consists of a compact air-pressure regulating system housed in a lightweight, yet durable, anodized aluminum frame. When connected to two air cylinders, the system provides a continuous supply of respirable air. During use of the PortAire system, cylinders can be refilled or changed as required to provide a long-duration air supply. When one cylinder's air supply is exhausted, the device's integral check valve allows users to switch over to the second cylinder without interrupting air flow. The PortAire system also can supply two users simultaneously and can be easily attached to a cart for even more maneuverability.

Part No.: 807052 – PortAire (cylinders and hose not included)

*Designed for NIOSH approved respirators.





workREADY

HazMat Environments

Combating incidents with unknown substance hazards requires the use of a totally encapsulating suit. To maximize freedom of movement for operational personnel in cramped quarters, an external supplied air or SCBA is often the preferred solution. The combination of MSA chemical protective clothing and airline connection provides the required protection and air supply for these critical applications.



Vautex SL+ CombiAir^{EN}

The one-piece suit is made of a special compound material (Vautex SL+) and has a replaceable full face mask firmly attached. It features two suit valves, the compressed airline breathing apparatus CombiAir and a completely gas-tight zipper. The zipper runs centrally over the back into the head section. The CombiAir is connected to a compressed airline apparatus.

The breathable air is led across the lung-governed demand valve into the mask. Air is circulated through hoses in the protective suit for the ventilation of body, arms and legs. The air flow can be adjusted between 25 l and 50 l/min. Gloves and safety high boots are replaceable.

Part No.: 10010939 – Vautex SL+ CombiAir with integrated 3S full face mask



escapeREADY

getting crews out safely
in emergencies

Efficient emergency processes require speed and precision. Crew should be able to perform escape procedures reflexively. MSA escapeREADY solutions combine intuitive product design and close integration of work and escape products so that personnel are able to don equipment without thinking, without hesitation and at maximum velocity.



TransAire^{NIOSH}

The TransAire escape respirator supplies a continuous flow of air to the hood from the compressed air cylinder when there is no time for panic attacks, take the easy way out. MSA's emergency supplied air product line provides fast, simple escape from IDLH atmospheres. These compact units can withstand exposure to temperatures from 0° to 160° F. Hoods are designed to reduce fogging and fit easily over eyeglasses and full beards.

Part No.: 10008293 – TransAire10 complete with 10-min. cylinder

S-Cap-Air^{EN}

The S-Cap-Air is a compressed air, constant flow, escape breathing apparatus designed to aid escape from hazardous areas in which toxic substances or oxygen deficiency may occur. It is very easy to operate – simply open the unit, put on the hood and make your escape. The 3 litre, 200 bar compressed air cylinder is available in two versions – steel and composite.

Part No.: 10017688 – S-Cap-Air with empty steel cylinder





responseREADY

protection for emergency response teams

The holistic approach behind the READY programme ensures increased readiness for unexpected dangers. Proactive training, modular components and reduced parts combine to facilitate intimate familiarity with all aspects of response equipment and procedures. MSA responseREADY systems are ready to go long before the alarm bell rings.



AirXpress EN

World-reknowned MSA quality combined with advanced technology make the MSA AirXpress an outstanding value in SCBA equipment. The lung governed demand valve is the same one used in all MSA systems. This patented and choice component distinguishes itself through reduced parts and low maintenance – and that translates into reduced cost of ownership.

Part No.: 10111861 – AirXpress industrial with 2nd connection (cylinder not included)

AirHawk II NIOSH

MSA's AirHawk II Air Mask is a pressure-demand apparatus designed to maintain a slight positive air pressure inside the facepiece during inhalation and exhalation. Positive pressure helps to prevent contaminants from seeping in and around the facepiece, even if small breaks in the face-to-facepiece seal should occur. The AirHawk II Air Mask is built from six major components: facepiece, carrier and harness assembly, cylinder, first-stage regulator, mask-mounted regulator, and End-of-Service-Time-Indicator (EOSTI).

Part No.: A2L-E34B00J01AA1 – AirHawk II with case & 30 min. aluminium cylinder (empty)



serviceREADY

streamlined inventory,
maintenance and repair

Our simplified serviceREADY parts management adds up to lower maintenance overhead and added crew safety.



Automatic SCBA Testing SmartCHECK^{EN/NIOSH}

SmartCHECK is the next generation compact and fully automatic test bench for any SCBA equipment on the market today. It features an integrated computer system with touchscreen. The software TecBOS.Tech with Wizard, an intelligent assistant, allows intuitive operation. The user is guided step by step through the smart test-process.

The fully automatic SmartCHECK performs a complete range of tests for: full face masks, lung governed demand valves, compressed air breathing apparatus and chemical protective suits according to EN and local standards. The basic SmartCHECK offers all standard static tests for low and medium pressure.

Automated Inventory Management TecBOS.Tech

In addition to complete testing, MSA test benches provide automated maintenance scheduling and inventory management of all equipment. The TecBOS.solutions Tech software also runs as a stand-alone application for comprehensive inventory management, including due-date monitoring, spare part management and cost accounting. It is best supported with RFID technology already built into many MSA products or available to retrofit to any kind of equipment.

serviceREADY

Service Agreement

When planning your safety requirements you may need advice on purchasing the right kind of equipment. MSA will happily help you choose between the available options. In addition to making recommendations on personal protective equipment and portable gas detectors, MSA offers professional project planning, installation and the commissioning of permanent gas detection systems.

The MSA After-Sales Service includes repair and maintenance services, system modification and spare parts management. Moreover you can access training courses which will enable you to get the best from MSA's range of products and services.



trainingREADY

real-life equipment and application training

When you buy MSA, you get much more than quality equipment. Our graded training programme keeps you on top of latest innovations and provides a platform for real-life experience exchange so that you get the most out of your safety investment.



READY when you are

additional MSA products to help you complete your safety programme



Filtering Escape Devices ^{EN}

For a safe escape in case of sudden unexpected outbreaks of toxic gases or vapours or persons endangered by smoke and gases generated by fires, MSA offers a full range of equipment for escape purposes, such as the S-CAP escape hood or the miniSCAPE escape device. These compact filter devices can be stored unopened for a long period of time, yet be ready for use immediately. For additional information please see leaflet 10-012.2.



ALTAIR Gas Detectors ^{EN/UL}

The reliable high-performance ALTAIR family of portable gas detectors provides outstanding durability and ease-of-use. Whether you need an economical single-gas detector or a versatile multi-gas detector, with the ALTAIR family you will find the perfect solution for each application. Exclusive alarm features like MotionAlert and InstantAlert make the ALTAIR 4X and ALTAIR 5 multi-gas detectors ideal for applications like confined space entry. The real strength of the ALTAIR 4X comes from the new sensor technology. MSA XCell sensors offer superior stability, accuracy, repeatability, and an extended life-time. For additional information please see leaflet 08-520.2.



ULTIMA X Series Gas Monitors ^{EN/UL}

The ULTIMA X series of gas monitors is available with catalytic sensors for combustible gas and electrochemical sensors for toxic and oxygen (ULTIMA XE) or infrared for combustible gas (ULTIMA XIR). The state-of-the-art design provides ease of use and maintenance and notably the XIR technology's outstanding long term accuracy extends the calibration interval. All ULTIMA X series monitors are protected by a rugged, explosion proof stainless steel enclosure and are suitable for indoor and outdoor applications in virtually any industry including offshore operations. For additional information please see leaflet 07-703.2.



V-Gard Head Protection EN/ANSI/ISEA

With the V-Gard series MSA offers three models of hard hats giving performance levels to optimally suit all major industrial applications. Each helmet provides a different level of protection and comfort depending on the hazards the wearer is exposed to. The popular and distinctive V-Gard design has become the most trusted head protection for millions of workers around the world. Moulded from HDPE or ABS the V-Gard is light, comfortable and extremely tough. For additional information please see leaflet 06-104.2.



left/RIGHT Hearing Protectors EN/ANSI

A muff specially designed for each ear is what makes left/RIGHT hearing protectors comfortable and well-fitted. The muffs can be adjusted individually to the angle of the ear. left/RIGHT cups and headband conform to your head curves, reducing pressure points for a custom fit. The left/RIGHT concept offers various options. Different models, all with revolutionary design and attractive colours, make left/RIGHT the right choice for all kinds of work environments. A variety of optional built-in electronic features, such as FM radio, AUX input and level-dependent CutOff, complete the left/RIGHT range. For additional information please see leaflets 09-200.2 and 09.250-2.



Safety Spectacles & Goggles EN/ANSI

Advanced materials and design technology combine with decades of experience to make MSA protective eyewear the last word in robustness, style, comfort and fit. MSA safety spectacles & goggles help the wearer to comply with demanding labour safety regulations, ensure wearer acceptance and prevent eye injuries caused by mechanical, chemical or radiation hazards. For OGP applications, we especially recommend our Racers line for its flexible fit and high level of protection in hostile conditions. For additional information please see leaflet 03-030.2.

Our recommended READY

workREADY

Drilling and Exploration



	EN	NA
BD mini Short-duration SCBA	X	
PremAire Cadet Escape Respirator		X
3S Full face mask & AutoMaXX demand valve	X	
Advantage 4000 Full face mask & Firehawk reg.		X
Airline connection & hoses	X	X
Air compressor & filtration unit	X	X
V-Gard Head protection	X	X
ALTAIR PRO H ₂ S Portable single-gas detector	X	X
ULTIMA X Gas monitor	X	X

Confined Space Applications



BD mini Short-duration SCBA	X	
PremAire Cadet Escape Respirator		X
3S Full face mask & AutoMaXX demand valve	X	
Advantage 4000 Full face mask & Firehawk reg.		X
Airline connection & hoses	X	X
Automatic switch valve	X	
MASS Portable air trolley system	X	
PortAire Portable air trolley system		*
Air compressor & filtration unit	X	X
V-Gard Head protection	X	X
ALTAIR 5 Portable multi-gas detector	X	X

HazMat Environments



Vautex SL+ CombiAir CPS incl. 3S Full face mask	X	
AutoMaXX demand valve	X	
Airline connection & hoses	X	
MASS Portable air trolley system	X	
Air compressor & filtration unit	X	

kits for typical applications

escapeREADY



S-Cap-Air Escape device

X

TransAire Escape device

X

V-Gard Head protection

X

X

ALTAIR PRO H₂S Portable single-gas detector

X

X

ULTIMA X Gas monitor

X

X

responseREADY



AirXpress SCBA

X

AirHawk II SCBA

X

3S Full face mask & AutoMaXX demand valve

X

Advantage 4000 Full face mask & Firehawk reg.

X

Airline connection & hoses

X

X

Air compressor & filtration unit

X

X

F1SF Fire helmet

X

Cairns 660C Metro Fire helmet

X

ALTAIR 4X Portable multi-gas detector

X

X

All EN (European) products have an EN certification.

All NA (North American) products have either a NIOSH, UL, ETL, ANSI/ISEA certification as applicable.

*Designed for NIOSH approved respirators.

Ordering Information

Respiratory Protection

SCBA's, Short-Duration SCBA's & Combination Airline Escape

EN

10111861	AirXpress SCBA Industrial version with 2nd connection (cylinder not included)
10109406	AirXpress SCBA Industrial version without 2nd connection (cylinder not included)
10109407	AirXpress SCBA Fire version with 2nd connection (cylinder not included)
10111838	AirXpress SCBA Fire version without 2nd connection (cylinder not included)
D4075713	BD mini Short-duration SCBA (cylinder not included)

NIOSH

A2L-E34B00J01AA1	AirHawk II SCBA with case (30 minutes aluminium cylinder – empty)
A2L-E36B00J01AA1	AirHawk II SCBA with case (30 minutes carbon fibre cylinder – empty)
A-PC11GAJ01G1	PremAire Cadet Escape Respirator with case (10 minutes aluminium cylinder – empty)
A-PC11KAJ01G1	PremAire Cadet Escape Respirator with case (15 minutes carbon fibre cylinder – empty)

Escape Devices

EN

10017688	S-Cap-Air with empty steel cylinder
10033919	S-Cap-Air light with empty composite cylinder

NIOSH

10008292	TransAire 5 Escape Respirator complete (includes aluminum cylinder, carrier, hood tube, hood assembly)
10008293	TransAire 10 Escape Respirator complete (includes aluminum cylinder, carrier, hood tube, hood assembly)

Replacement Hoods for Escape Devices

EN

10019481	S-Cap-Air Replacement hood
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NIOSH

484350	Urethane Hood for TransAire
485653	Hood inlet assembly

Full Face Masks

EN

10031422	3S-PS-MaXX
10031420	3S-EZ-PS-MaXX, with Easy-Don Nomex harness
10031388	3S-PS-MaXX-Si, Silicone

NIOSH

10075905	Advantage 4000 with Push-To-Connect Adapter, Medium, Hycar, Rubber Head Harness
10075904	Advantage 4000 with Push-To-Connect Adapter, Medium, Silicone, Rubber Head Harness
10075909	Advantage 4000 with Push-To-Connect Adapter, Medium, Hycar, Polyester Net Head Harness
10108561	Advantage 4000 with Push-To-Connect Adapter, Medium, Hycar, Kevlar Net Head Harness

Lung Governed Demand Valves / Second Stage Regulators

EN

10036272	AutoMaXX AS-G (positive pressure with MaXX plug connector)
10038410	AutoMaXX AS-B-G (positive pressure with MaXX plug connector & bypass)

NIOSH

10073913	Firehawk Mask Mounted Regulator (Push-to-Connect Solid Cover)
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Filter Escape Devices

EN

10081637	S-CAP in Pouch
10038560	miniSCAPE

Air Supply

Air Trolleys

EN

M0023267	Trolley MASS 50 I without cylinders with one coiler with 40 m hose
M0023268	Trolley MASS 50 II without cylinders with two coilers with 40 m hose each
110454	Steel cylinder of 50 litres/300 bar, empty
M0018645	EN Pressure reducer assembly with two outlets

NIOSH

10107780	Industrial Air Cart equipped with foster steel quick connects
807052	PortAire with Audi-Larm™, low-pressure warning device, high-pressure regulator, and carrying frame with air-supply hose retainer
10037095	30-min. Stealth H-30 cylinder (empty)
10033355	45-min. Stealth H-45 cylinder (empty)
10033356	60-min. Stealth H-60 cylinder (empty)
10017089	Wheeled Cart for PortAire

Air Distribution

EN

D4066700	Automatic Switch Valve (For more information please see leaflet 01-222.2)
D4066851	Compressed Air Filter Unit
D4066847	Compressed Air Supply Hose, antistatic, 5 m
D4066848	Compressed Air Supply Hose, antistatic, 10 m
D4066849	Compressed Air Supply Hose, antistatic, 20 m

NIOSH

10113348	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with foster steel quick connects
10113342	100 CFM Filtration Box four-outlet carbon monoxide monitor, with foster steel quick connects
455021	25ft Neoprene Hose with brass fitting
455022	50ft Neoprene Hose with brass fitting
481079	25ft Neoprene Hose with stainless steel fitting
481080	50ft Neoprene Hose with stainless steel fitting
471512	25ft PVC Hose with brass fitting
471513	50ft PVC Hose with brass fitting
481059	25ft PVC Hose with stainless steel fitting
481060	50ft PVC Hose with stainless steel fitting

More hose length options are available on request

Air Cylinders for SCBA, Short-Duration SCBA's & Combination Airline Escape

EN

D5103986	6 l/300 bar steel cylinder for AirXpress (empty)
D5103976	6 l/300 bar composite cylinder for AirXpress (empty)
D5103979	6.8 l/300 bar composite cylinder for AirXpress (empty)
D5103984	2 l/300 bar steel cylinder for BD mini (empty)
D5103974	2 l/300 bar composite cylinder for BD mini (empty)
10058821	3 l/300 bar composite cylinder, with airflow restrictor for BD mini (empty)

NIOSH

809872	AirHawk II 2216 psig aluminium cylinder (rated 30 min.)
807587	AirHawk II 4500 psig carbon fiber cylinder (rated 30 min.)
10061365	Premaire Cadet Escape 10 min. 3000 psig aluminium cyl.
10061367	Premaire Cadet Escape 10 min. 3000 psig carbon fiber cyl.
10065044	Premaire Cadet Escape 15 min. 3000 psig carbon fiber cyl.

Compressors, Cascade Systems and Other Airline Accessories

On request

Chemical Protective Clothing

EN

10010939	Vautex SL+ CombiAir Chemical Protective Suit with integrated 3S full face mask
10023686	AutoMaXX-N Lung governed demand valve

Gas Detection

For ordering information please see leaflets 08-520.2 (ALTAIR Family) and 07-703.2 (ULTIMA X Series)

Industrial Head Protection

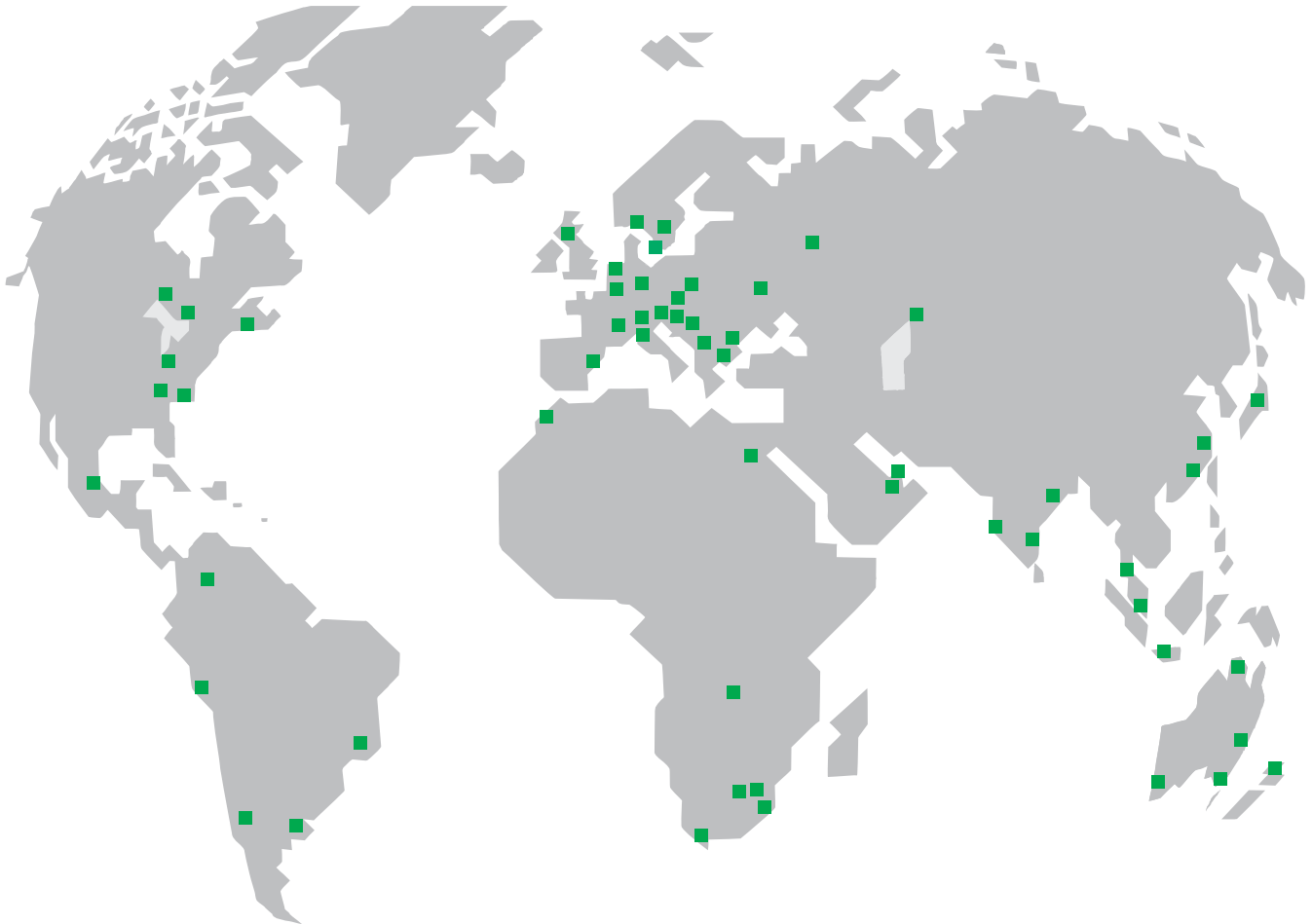
For ordering information please see leaflet 06-104.2 (V-Gard)

Testing and Inventory Management

For ordering information please see leaflet 01-750.2 (SmartCHECK)

MSA – Your Global Safety Partner

With operations on 5 continents, over 40 international locations and hundreds of distribution partners around the globe, MSA offers a unique range of safety products for a large number of industries protecting lives in over 140 countries.



To find out how the MSA READY programme can optimise your operation safety, contact an MSA representative in your area today!

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