

Confined Space Entry

Solutions for Oil and Gas Workers



WE KNOW WHAT'S AT STAKE.

Confined Space Entry Solutions



Confined Space in OGPC

Confined space is widely spread at oil refining, petrochemical and gas refining plants, in underground compartments, such as oil products storage tanks, underground sewage collectors and many other areas. The hazards which can be faced when entering and working in confined spaces can cause bodily injury, disease and death of the worker.

Working in confined spaces is estimated to be 100 to 150 times more hazardous than operating on an open site. Unknown areas and their interior environments with confined space characteristics should always be treated as confined spaces considering all necessary safety precautions.

What is a Confined Space?

An enclosed or partially enclosed space under atmospheric pressure, not intended and not initially designed as working spot, and anytime:

- is exposed to atmosphere containing potentially excessive contamination levels,
- experiences lack or excessive content of oxygen,
- causes absorption, or
- has limited means of entry and escape.

Examples of Confined Spaces

- Storage tanks, road tankers, boilers, bins, pipelines and other tank-type compartments
- Cavities, pits
- Mine shafts and tunnels
- Any ship spaces accessed through a hatch or an access point, cargo tanks (except for dry cargo holds)

Entries into the confined spaces conjugate to the uncharted danger of the enclosed atmosphere. For safe work and proactively identifying the danger before each entry, it is necessary to conduct an atmosphere analysis, as well as continuously monitoring the inside atmosphere. Specially designed for sampling and monitoring, MSA offers a wide portfolio of rugged portable gas detectors, dedicated test stations and accessories. Together with cloud-hosted Grid services we enable a broad range of safety activities, ensuring compliance and real time awareness.



ALTAIR® 4XR Multi-Gas Detector

The versatile 4-gas detector ALTAIR 4XR offers constant gas monitoring, ideal for confined space workers. Together with ALTAIR Pump Probe can be quickly converted into a pumped detector for remote pre-entry atmosphere analysis.

ALTAIR 4XR has IP 68 rating and withstands multiple drops from 7.5 m, exceeding the military standard MILSTD-810 drop test requirements (25 drops from 1.2 m). It is equipped with MSA XCell® sensors providing longer service life and run time and faster response times that help saving lives.

Coupled with its 4-year warranty, the ALTAIR 4XR also features the MotionAlert mandown alarm and InstantAlert manual alarm.



ALTAIR® 5X Multi-Gas Detector

The ALTAIR 5X detector with Bluetooth wireless technology, integrated pump and PID option for VOC detection measures up to 6 gases simultaneously. Clearance measurements can be performed remotely using sampling line and floating probe.

Driven by advanced MSA XCell® Sensor Technology, the ALTAIR 5X delivers faster response time, better stability, accuracy, longer service life, and cost savings. Inside, a field-proven integral pump provides consistent gas flow without the problems of externally attached components. Ergonomic design, glove-friendly buttons and a high-contrast display make the ALTAIR 5X multigas detector easy to use for confined space applications.

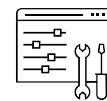


MSA Grid services

Transform your gas detection program into an empowering safety platform. Boost your world-class MSA hardware with the Safety io Grid services and break down the obstacles standing between you and your safety goals:

Grid Fleet Manager allows proactively track and monitor the status of ALTAIR Family gas detectors and GALAXY GX2 test stations and make standard operating procedures more efficient.

Grid Live Monitor enables real time, remote tracking and monitoring of all confined space workers using multigas detectors or area monitors.



Fall Protection

For confined space entries without support points, MSA offers a unique system for personnel and cargo lowering into / rising from a confined space. The universal tripod provides a class B anchor point. Lifting is controlled by the MSA Winch. Self-retractable lanyards serve as fall-arrest devices. The MSA Rescuer provides fast, easy and intuitive fall protection with integral bidirectional retrieval capability.



MSA Tripod

Weighing just 19.5 kg with a maximum extension length of 245 cm, this aluminium tripod is an ideal anchorage point for work assignments with limited staff. It is suitable for fall arrest, rescue, retrieval or evacuation and loads of up to 140 kg for personnel and 225 kg for materials. Installation is intuitive and fast taking 2 minutes only.

MSA Winch

The winch with built-in energy absorber and a cable length of up to 30 m offers safe entry when no aids such as rungs or conductors are available. The integrated bracket can easily be mounted on the tripod. A double braking system provides secondary protection. In addition, loads of up to 140 kg for personnel and 225 kg for materials can be transported.

MSA Rescuer

The appropriate 15 m long stainless steel cable fall arrester with integrated rescue lift and bracket makes mounting on the tripod a simple and very flexible security system.



MSA V-FORM™ & Gravity® Suspension Harness

With unique racing style bayonet buckle and athletic cut that contours the harness to the body, the new MSA V-FORM range of safety harnesses provides full comfort to the users. Pull-down adjustments allow for quick and easy adjustment that lasts throughout the work day. The integrated load indicator facilitates rapid visual inspection by the user prior to use. Harness versions with rescue loops allow rescue operations through narrow manholes. Certified according to EN 361, EN 1497.



MSA Spreader Bar

When connected to the shoulder D-Rings of the MSA V-FORM harness, the MSA Workman spreader bar can be used for rescuing people from confined spaces. The attached web loops can be used to secure an incapacitated victim's arms when lifting or lowering. Certified according to EN 354.



V-TEC™ Mini & V-Shock Retractable Lanyard

The MSA **V-SHOCK** line is delivering the **simplicity** safety managers need and provide end users the **confidence** needed to do their job without thinking about their PPE. Focused on **ease of use**, the V-SHOCK uses color coding and icons to communicate critical product attributes – specifically leading edge. The line is also featuring clearance charts designed for ease of understanding. Incorporating user-inspired conveniences, the new V-TEC PFLs provides the workforce the safety they need in a **compact** and **lightweight design**, whilst getting the job done with the **comfort and performance** they demand.

Both certified according to ANSI Z359.14-2021 and EN 360:2002.



V-TEC Mini PFL

V-SHOCK SRL Twin

In confined space areas with a constantly high potential for hazardous emissions, MSA offers combination supplied airline respirators operated by an airline trolley system to provide proper safety at work. If there is a risk for unexpected hazardous events, an escape device or an oxygen self-rescuer are the right choice to help workers escape from the confined space in case of oxygen deficient or toxic atmosphere.



PremAire® Combination Supplied Airline Respirator

This supplied airline respirator with compressed air cylinder provides sufficient breathing air for about 15 minutes for short revisions, inspection work, or, in case of emergency, to bring oneself or a colleague out of the danger zone. A streamlined design offers a first stage pressure reducer and cylinder valve within one assembly, creating a very small size and profile that is less likely to snag when working in confined space or tight places.

In combination with an airline system or simply as a self-rescue device, PremAire Combination is ideal for working independently of the ambient air in all applications with short distances, where a short-duration SCBA is applicable.



PremAire® Escape Emergency Escape Breathing Device

This positive pressure short duration compressed air emergency escape breathing device (EN 402) provides the user with respiratory protection while escaping from toxic atmospheres. The components of the respirator withstand high levels of potential industrial gas leaks and harsh chemical environments. It offers an air supply of 10-15 minutes duration and is equipped with a 3S full face mask or for potential high concentration industrial gas leaks like H₂S with the innovative Mask-Hood combination.



SavOx Self-Rescuer

The SavOx is a small and compact self-rescuer with a breathing air supply of approximately 30 minutes (at 40 litres/min). This is particularly suitable for hard and dirty missions due to the robust design with stainless steel housing. With a low weight of only 2.5 kg, it can easily be attached to the belt and is therefore always ready to use, should self-rescue be necessary.



Respiratory Protection

Confined space operations may require longer time to fulfill the tasks and use of Self-Contained Breathing Apparatus during whole task. This is typical for technical maintenance and rescue teams. Then operational efficiency and proven extended performance are important for SCBA to protect the user irrespective of operating conditions. MSA's modular SCBA with full face mask and optional communication set, for a variety of advanced missions, complete your solution for demanding confined space jobs.



MSA M1 Industrial SCBA

The new M1 SCBA is a modular system breathing apparatus that can be configured from Basic to Advanced version. It is suitable either for confined space maintenance or rescue tasks, including firefighting.

This platform incorporates several innovative and customizable features that improve comfort. Easy to adjust backplate, padded harness and hip belt design preventing, pressure points and slipping, ensuring even weight distribution. Confined space workers can benefit from reduced risk of snagging in narrow areas thanks to guided hoses in backplate. Increased chemical resistance together with easy cleaning and disassembly make this SCBA ideal choice also for emergency response and escape.



G1 Full Face Mask

The G1 mask with its wide distortion free field of vision is not only lightweight and compact with overall low profile design, it's comfortable and built to last. Various mask sizes combined with different harness options or helmet attachment brackets set new standards in wearing comfort. The outstanding single-sealing angle further increases the comfort while the unique airflow prevents lens misting and reduces breathing resistance.

The additional C1 communication module allows users to easily communicate when wearing breathing apparatus. Thanks to an exceptional voice transmission, this module helps in better coordination of both standard and emergency tasks within confined spaces.



Cylinders and Valves

Liner	Aluminium Alloy
Structure Fibre	Carbon fiber, minimum tensile strength 3.5GPa
Outer Shell	E glass fiber, minimum tensile strength 1.0 GPa
Content	Breathing Air Only
Dimensions	OD: 161 mm, Length: 525 mm (may be different with valve fitted)
Volume	6.8L
Weight	4.7KG
Service Year	30YR

PN	Product Information
10168087	CYL UNIT, 6.8L, BTIC EN W/GAUGE & W/O BAG
10128738	6.8L CYLINDER UNIT, BTIC EN W/O GAUGE



Regardless of what kind of work is carried out inside a confined space, it is necessary to use preventive personal protective equipment such as helmets, ear-defenders, full face visors and goggles. Working in the field of safety for more than 100 years, MSA offers a wide range of reliable and comfortable PPE for preventive protection.



V-Gard® H1 Safety Helmet

The V-Gard H1 Safety Helmet is the ideal choice providing exceptional comfort and ease of use in a stylish design. Its low-profile conception - even when accessories such as visor or spectacles are attached - is perfect for confined spaces environments. The patent-pending integrated rail system provides effortless integration of the V-Gard H1 accessories and the helmet shell integrates universal clips for head lamp. The V-Gard H1 chinstrap includes a rescue whistle for additional safety.



V-Gard® 950 Unvented Safety Helmet with integrated full face visor

The V-Gard 950 safety helmet is the optimal choice when you need to reliably protect your head & your face in confined spaces : low-profile, compact and lightweight, this electrician helmet makes no compromise on comfort. Its premium integrated - and retractable - full face visor protects against impacts, chemical splashes, molten metal splashes and electric arc effects. Available in 6 colours, it comes with many accessories & options including badge/lamp holder or arc-flash ear-flaps.



V-Gard® Cap-Mounted Hearing Protection

The V-Gard Helmet-Mounted Hearing Protection Line delivers enhanced comfort and top-of-the-line performance with upgrades in fit and style— all without compromising the quality expected from the legendary V-Gard brand. Designed to work with MSA's industry-leading safety helmets and accessories, the new hearing protection line offers enhanced comfort while providing the performance level and protection needed to get the job done.



Altimeter Goggles

The multipurpose Altimeter goggles can be worn with headband or temples. They come with a soft frame for complete coverage and outstanding shock absorption. The Sightgard coating and 18 indirect ventilation holes provide perfect, fog-free vision. Altimeter can be taken from the head without taking off the helmet using the comfortable, adjustable head strap with snap button on the middle band.



Gallet F2XR

 UNMATCHED COMFORT	✓ Compact design, lightweight materials, and ride height adjustments, all contribute to an optimal weight distribution ✓ Optional dual ventilation shell pattern on top and sides for comfort during extended periods of use ✓ Innovative one-piece padding in soft-goods (welded instead of sewed) to help prevent pressure points
 VERSATILE APPLICATIONS	✓ Multi-purpose helmet for Technical Rescue, Wildland Firefighting, Climbing and Water Rescue Operations
 FULL MODULARITY	✓ Modular platform with a range of easily attachable accessories, such as responder goggles, face protection, and passive and active hearing protection with optional integrated communication system
 ACCESSORY INTEGRATION	✓ Accessories designed for full integration; e.g. dual beam headlamp with tail light ("buddy light"), adjustable internal ocular visor, and water rescue ear protection
 CUSTOMER FOCUSED DESIGN	✓ All integrated and modular accessories are designed for easy attachment ✓ Glove-friendly design of all accessories and helmet adjustment points for both right and left handed users
 EASY CLEANABILITY	✓ Easy to remove one-piece textile soft-goods to support health and safety efforts ✓ Complete helmet machine-washable (see Cleaning Guidelines for details)
 CUSTOMISABLE OPTIONS	✓ Pad printing available for front plates to add fire department logo or other designs ✓ Reflective trim and decals with custom printing options
 EXCEEDING STANDARDS	✓ Designed and tested to meet the latest EU and NFPA Standards for Technical Rescue, Wildland Firefighting, Climbing and Water Rescue (see Technical Specifications for details)



Integrated Dual-beam Headlamp

- ✓ Allows proximity and spot beam with over 250 lumens



- ✓ Tail light ("buddy light"), with three colours available to toggle, and aid in accountability
- ✓ "SOS" mode that flashes front and rear lights to signal a distress



Integrated Ocular Visor

- ✓ Fully integrated into the helmet shell and easily deployed with a gloved hand
- ✓ Customised fit to face with individual height and depth adjustments
- ✓ Easy to install and remove without tools ("push & pull" system)

Water Rescue Ear Protection

- ✓ Left and right modular ear protection covers for water rescue applications
- ✓ Easy attachment points for connecting and removal depending on task and situation



Integrated Hearing Protection with Optional Communication Systems

- ✓ Easily attachable, perfectly integrated electronic ear muffs to protect from hazardous noise without missing surrounding sounds
- ✓ Optional communication systems with adjustable boom microphone for mission critical communications

Improved Responder Goggles

- ✓ Quickly attaches to helmet shell with two clips only
- ✓ Keep goggle strap secure with magnetic adjustment system
- ✓ Accommodates multiple head sizes with adjustable buckle system
- ✓ Easily switch between stand-by and in-service mode with release buckle



Helmet	
Weight (helmet only)	750g ± 50g (depending on version)
Dimensions (shell)	Length: 299 mm Width: 239 mm Height: 180 mm
Sizes	One size (fits head sizes from 52 to 65 cm)
Shell	☒ Vented or unvented ☒ Painted
Colours	Standard: White, Black, Green, Blue, Yellow, Red, Grey High Visibility: Hi-Viz / Photoluminescent Yellow, Hi-Viz / Photoluminescent Orange, Photoluminescent
Chinstrap	☒ 3-4 points chinstrap ☒ 16 mm wide fire-retardant strap without loose end ☒ Height and depth adjustments ☒ Quick release buckle
Adjustments	☒ Head size (ergonomic knob wheel, adjustable position) ☒ Ride height (3 positions) ☒ Nape strap height adjustment (3 positions)
Materials	Shell and plastic parts: High temperature thermoplastics Straps: Fire retardant, modacrylic and polyester blend Paddings: Polyamide / Polyester / Elastane base material
Certification	CE Marking according to EU regulation 2016/425 EN 16471:2014 – Helmets for Wildland Firefighting EN 16473:2014 – Helmets for Technical Rescue EN 12492:2012 – Helmets for Mountaineers (vented version only)
Customisation	☒ Retroreflective stickers (yellow, red, silver, blue, green) with or without marking ☒ Pad printed logo on front plate



Options and Accessories		
Responder Goggles	✓ Dustproof ✓ Easy attachment to helmet with 2 clips ✓ Tension adjustment through fire retardant straps ✓ Magnetic strap adjustment system	
Weight	165 g ± 10 g	
Certification	EN166:2001 – Eye Protection Marking: 2C-1,2 1BT 3459 KN	
Performances	2C-1,2: UV filter (EN 170) 1: Optical class 1 BT: High speed particles (120m/s) at extreme temperatures 3: Liquid droplets 4: Dust 5: Gas and fine dust particles 9: Molten metal K: Anti-scratch N: Anti-fog	
Ocular Visor	✓ Retractable under helmet shell ✓ Depth adjustment ✓ Quick installation	
Weight	100g ± 10g	
Certification	EN 14458:2018 – High Performance Visors	
Performances	Anti-fog / Anti-scratch 2C-1.2 : UV filter (EN 170) Optical class 1	
Mesh visor	✓ Wide face coverage - visor length 21cm ✓ Excellent visibility ✓ Quick installation ✓ Compatible with helmet-mounted ear muffs	
Weight	165 g ± 10 g	
Certification	EN14458:2018 - High Performance visors EN1731:2006 - Mesh Protectors	
Clear visor	✓ Full protection of the face from projections and from the risks of electrical arcs (extended length of 21cm) ✓ Anti-fog and anti-scratch ✓ Quick installation ✓ Compatible with helmet-mounted ear muffs	
Weight	295g ± 10g	
Certification	EN14458:2018 - High Performance visors EN166:2001 - Personal Eye Protection Compliant to GS-ET-29 (class 1) - Electrical arcs	
Performances	2C-1,2 Optical class 1	
Neck Protector	✓ Colour: Dark Blue ✓ 100% Aramid ✓ Nape version, length 15 cm ✓ Quick assembly through 3 plastic clips	
Weight	30 g ± 5 g	
Water Rescue Kit	✓ Ear protection side panels to extend area of coverage according to EN 1385 requirements	
Weight	50g ± 10g	
Compliance	EN 1385:2012 – Helmet for canoeing and white water sports PAS 028:2002 – Marine Safety helmet, clause 6 Compliant on both non-motorised and small, fast crafts	

Options and Accessories		
Headlamp	✓ Integrated LED headlamp module ✓ 2 beams (proximity and spot) ✓ Tail light (3 colours, RGB)	
Certification	CE and UKCA marking	
Ingress Protection	IP67	
Intrinsic Safety	ATEX, depending on version	
Power	Alkaline/Lithium disposable or rechargeable batteries (Ni-MH)	
Performance (autonomy varies according to battery type)	Proximity: 110 lumens, minimum 6h Spot: 150 lumens, minimum 3h Combined: 250 lumens, minimum 1h30 Reserve mode: 30 lumens, > 45 mins SOS mode: Flashing (spot beam + tail light) Specific technical datasheet available on GALLET F2XR Headlamp Range	
Helmet-mounted lamp bracket	✓ Easy attachment on left or right side	
Weight	15 g ± 10 g	
Compatibility	All MSA helmet mounted torches (XPS, XP LED, ...)	
Passive hearing protection	✓ Passive hearing protectors with high attenuation ✓ Low (green) and medium (yellow) versions	
Dimensions & Weight	Low version: 16.4 x 10.6 x 12.0 cm – 340 g Medium version: 16.4 x 10.6 x 12.0 cm – 403 g	
SNR Ratings	Low version: SNR 28 dB Medium version: SNR 32 dB	
Certification	EN 352-3:2002 – Hearing Protectors ANSI S3.19-1974 ANSI S12.6-2008 AS/NZ S1270:2002 CSA Class A	
Active Hearing Protection	Electronic Hearing protectors : ✓ Level Dependent function reproducing ambient sounds and still be protected from hazardous noises ✓ One version with built-in communication capabilities	
Weight (including batteries)	Version without communication capabilities: 390g Version with communication capabilities: 480g	
SNR ratings	SNR 26dB for both versions	
Ingress Protection	IP67	
Certification	EN 352-3:2002 – Hearing Protectors (Helmet mounted) EN 352-4:2001/A1:2005 (Level dependent function) EN 352-6:2002 (only for version with communication capabilities)	
Scorpion Headset	Adjustable headset with boom microphone ✓ Specific interface for the F2XR helmet allowing quick installation on the right or on the left side ✓ Nexus 4 plug connection to PTT/RSM	
Weight	Headset + F2XR adapter = 130g ± 10g F2XR adapter = 40g ± 5g	
Ingress Protection	IP54	

Ordering Information

Portable Gas Detectors, Area Monitors & Accessories	
10178573	ALTAIR 4XR LEL, PEN, O ₂ , CO, H ₂ S, Charcoal
10178569	ALTAIR 4XR LEL, PEN, O ₂ , CO, H ₂ S, Phosphorescent
A-ALT4XR-L-1-G-E-E-0-0-0-0-0	ALTAIR 4XR LEL, O ₂ , CO, H ₂ S-LC, Charcoal
10119611	ALTAIR 5X LEL, CH ₄ , O ₂ , CO, H ₂ S, CO ₂ , Colour
10119614	ALTAIR 5X LEL, PEN, O ₂ , CO, H ₂ S, Colour
A-ALT5X-D-L-K-0-1-1-0-E-0-0-0	ALTAIR 5X LEL, PEN, O ₂ , CO, H ₂ S, PID, Colour
10082307	5 m Sampling Line with Floating Probe
10128636	GALAXY GX2, ALTAIR 5X/SX PID, 4 Valve, EU Plug
10128640	GALAXY GX2, ALTAIR 4X/4XR, 4 Valve, EU Plug
10105756	Smart Electronic Cylinder Holder, integrated DFR
10053022	Gas can (58 l), 1.45% CH ₄ , 15.0% O ₂ , 60ppm CO, 20ppm H ₂ S
10207603	Gas can (58 l), 2.5% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S
Fall Protection	
10116521	MSA Workman tripod
10158192	MSA Workman Rescuer fall arrester, 15 m
10147567	MSA Workman winch, 15 m, stainless steel cable
10129888	Steel carabiner
10169369	Carrying bag for MSA Workman tripod
506222	Pulley
10206046	V-Form harness with Back/Chest/Shoulder D-Rings, bayonet buckles
10115550	MSA Workman spreader bar
63315-00AEU	V-TEC SRL, 15 m, stainless steel cable

Head, Eye, Face & Hearing Protection	
10194795	V-Gard H1 Novent helmet, yellow, Fas-Trac® III Pivot Ratchet Suspension, 4-point chinstrap fitted, "push-button" accessory attachment rail, universal head lamp clips, retro-reflective stickers and integrated rescue whistle.
10194820	V-Gard H1 spectacles
10194818	V-Gard H1 clear full face visor
GVF1A-C0A00HG-000	V-Gard 950 Cap, Non-Vented, White, Arc flash ear flaps, Red Stickers, with 4 point chinstrap fitted and reusable bag
10190356	V-Gard helmet-mounted hearing protection, SNR Rating 28dB, low attenuation
10190357	V-Gard helmet-mounted hearing protection, SNR Rating 32dB, medium attenuation
10190358	V-Gard helmet-mounted hearing protection, SNR Rating 36dB, high attenuation
10153915	Altimeter safety goggles clear UV400, Sightgard Antifog
Respiratory Protection	
PremAire C4-F04-L2-M1-H3-W2-*. *-C07	PremAire Combination Mini, with 3S full face mask, 3 l composite cylinder (empty)
PremAire C3-F04-L2-A1-H3-W2-*. *-C04	PremAire Combination Airline /SCBA, with 3S full face mask, 2 l composite cylinder (charged)
PremAire C5-F04-L2-T1-*. *-C04	PremAire Combination Escape, with 3S full face mask, 2 l composite cylinder (charged)
PremAire E1 F01-L1-*. *-C04	PremAire Escape, with 3S full face mask, 2 l composite cylinder (charged)
10023263	SavOx Self-Rescuer
10200950	Basic Industrial M1 SCBA with fixed M1 LGDV, harness & cylinder strap plastic buckles, classic pneumatics & gauge
10202909	G1 PS-MaXX mask M size, polycarbonate coated lens, rubber 5-point harness & neck strap

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MSA Service

In addition to the extensive range of top quality personal protective equipment and gas detection systems, MSA provides a high level of customised service solutions. MSA's comprehensive and versatile range of services ensures that your equipment and systems will always be reliable, economical and ready for use. MSA is always at your service to provide you with the support you need, when you need it.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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