



MSA Safety Equipment Catalogue

Volume 16 - Oceania
2016-2017

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Website

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Learn more about MSA products virtually. Visit our resources page for simulators, configurators, and other digital tools.

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MSA-U® Training Center



What is MSA-U?

MSA-U is a feature-rich online training center that offers courses anytime, anywhere to maximise the users' competencies on MSA products, product technologies, and safety industry standards.

www.msasafety.com/msau

Benefits

- Complete training, anytime, anywhere
- Easy course navigation
- Link to 'New' Training from the home page
- Select certificates achieved, from the home page
- From the home page, view courses you accessed
- Immediate feedback on test performance
- Detailed training reports available for managers
- Receive feedback on incorrect test answers
- www.msasafety.com/msau



Questions? Email us at aus.customerservice@MSAsafety.com

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Our business is safety and we have been one of the world's leading manufacturers of high-quality safety products for 100 years. On the outside they look simple to use and maintain for the user, but are highly sophisticated devices and protective gear that is the result of countless R&D hours, relentless testing, and an unwavering commitment to quality. Our belief is that users should feel safe, secure and protected even in the most hazardous conditions knowing that MSA has exhaustively researched the application, integrating multiple combinations of electronics, mechanical systems, and advanced materials to ensure that users around the world remain protected.

As MSA Australia's policy is one of continuous product improvement, changes to specifications and prices can be made without notification. For up to date product information refer to: www.msasafety.com

Training and **Service Solutions**



Professional, Reliable and Responsive

Service, support and product training are vital components of MSA's commitment to its distributors and end users. Most products are serviced at the Sydney Head Office.

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.

MSA also offers a variety of test benches for your workshop with manually or automatically recorded test results. From the mobile test case Multitest to the stationary computer supported test bench SmartCHECK, your equipment will be tested to the highest professional standards.

All MSA test benches meet the industry standards and manufacturer regulations for the testing of compressed air breathing apparatus, full face masks, demand valves and chemical protective suits.

Training

MSA is a Registered Training Organisation offering on-site training throughout Australia with the ability to tailor-fit courses to customer requirements.

Units of competencies offered by MSA – RTO 91573:

| | |
|-------------|--|
| CPPFES2005A | Demonstrate first attack firefighting equipment |
| HLTAID001 | Provide cardiopulmonary resuscitation |
| HLTAID002 | Provide basic emergency life support |
| HLTAID003 | Provide first aid |
| HLTAID004 | Provide an emergency first aid response in an education and care setting |
| MSMPER200 | Work in accordance with an issued permit |
| MSMPER202 | Observe permit work |
| MSMPER205 | Enter confined space |
| MSMPER300 | Issue work permits |
| MSMPER200 | Work in accordance with an issued permit |
| PUAFIR207B | Operate breathing apparatus open circuit |
| PUAFIR215 | Prevent injury |
| PUASAR025A | Undertake confined space rescue |
| PUAFIR316 | Identify, detect and monitor hazardous materials at an incident |
| RIIRIS201D | Conduct local risk control |
| RIIWH5204D | Work safely at heights |

Additional training programs also available:

Fall protection: user / train the trainer / inspections

Gas monitors: user / train the trainer / inspections

Product training: competency based

Product Service

MSA has a Service Department at Baulkham Hills Sydney with 3 qualified technicians and a mobile service vehicle. There is also an Australia wide network of MSA approved service agents to support product ranges in SCBA, Gas Detection equipment, height safety equipment, respiratory equipment and oxygen self rescuers.

MSA Australia utilises a software program called TecBOS.solutions to support the management of serviceable safety equipment that includes the inspection, servicing and repair of high cost safety equipment or sophisticated safety product that requires regular maintenance as referenced under the relevant Australian Standards.



MSA Service Van



Service Facilities



Service Facilities



Supplied Air Respirators
Air Purifying Respirators



MSA has you covered for all your Respiratory needs. From state of the art SCBA equipment to Air Purifying Respirators, you can rely on MSA to supply you with everything you need.

MSA's Self-Contained Breathing Apparatus (SCBA) systems are designed for long life and low maintenance. To meet every application and budget our SCBA's can be configured according to individual requirements.

Toxic materials can enter the body in many ways, and the respiratory system presents the quickest and most direct avenue of entry.

In Air Purifying Respirators the inhaled air is drawn through a filtering media which removes the nominated contaminants.

MSA's range of respirators provides various styles for wearer comfort, while a broad selection of filters ensures protection for most hazards.

Supplied Air Respirators

G1 SCBA **NEW**

Introducing the **MSA G1 SCBA**: The most comfortable, streamlined, balanced, configurable and customisable SCBA MSA's ever produced.



Optional Head-Up-Display

- LEDs, located in demand valve, display pressure, system and alarm status unobtrusively and without work interruption
- Signals delivered through the line to the demand valve and continue to the inside of the mask through light pipes
- Cost intensive electronics are kept out of the mask, which reduces its price and makes cleaning easier
- The entire team has access to top-grade technology, while each firefighter can still maintain his or her own personal mask for added hygiene.



State of the Art Harness

- Comfortable padding
- Extremely robust cover fabric to withstand repeated exposure to flame and heat (EN approved)
- Robust adjustment buckles made from cast steel
- Protection tunnels for lines with reflective features
- Integrated stand-by support for demand valve



Control Module

- Combined digital and analog pressure reading
- Intuitive interface displays essential information by default allowing the user to concentrate on his job
- Other data is available with a touch of a button



Low Profile Face Mask

- Open port technology for free breathing when in stand-by (demand valve not attached)
- Huge field of vision for unobstructed view
- Low profile for less snagging and improved weight distribution
- Independent of electronic options to minimize costs for individual mask ownership and up keep
- All components easily accessible and interchangeable for easy maintenance and cleaning
- Available in 3 sizes
- Choice of classic rubber or modern fabric harness



Optional Voice Projection Speaker

- Integrated microphone picks up voice inside the mask independent of environmental conditions
- High volume and speech intelligibility
- Improves team and training communication



Central Processing Module

- Centrally processes all data on the SCBA: motion detection, data distribution to HUD, control module, voice speaker
- Piezo alarm sounders project in all directions
- Built-in RFID reader to log on with personal tag, team assignment or pairing information

Single Power Supply

- All components powered with a single power supply
- Simplified battery monitoring and exchanging
- Greater system reliability

Long-Range Radio

- Industry-leading telemetry with proven track record
- Low impact monitoring with high accountability
- Operates with alphaBASE and alphaCONTROL 2



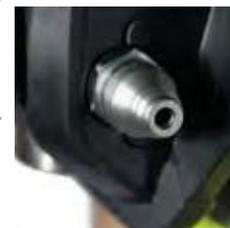
Advanced Hip Belt Features

- Swivelling to follow body movement
- Easy to use and robust height adjustment to accommodate different torso lengths



Buddy Breather 2nd Connection

- Allows connection to fellow firefighter in case of emergency
- Y-piece connector enables donation of air without breaking recipient's air supply
- Allows for easy connection to airline system
- 1.2 m medium pressure line in pouch on hip



Optional QuickFill Connection

- Direct high pressure connection for fast cylinder refill while donned

BD Mini and AirGo Compact Series Breathing Apparatus

BD Mini Short Duration Working SCBA



- Suited for short-duration work in confined spaces.
- Its small size and the variable design permit various carrying modes.
- Can be connected to an airline system or a cylinder cascade when fitted with Automatic Switch Valve.
- Hip wear option available.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 762082 | BD Mini featuring Ultra Elite facemask and AutoMaXX demand valve |
| 762083 | BD Mini featuring 3S facemask and AutoMaXX demand valve |
| 767085 | Fully wrapped carbon fibre cylinder and valve 2 litre - 300 bar. 15 minute duration |
| 4066700 | Automatic Switch Valve, for airline system or cylinder cascade |

AirGo Compact



- The AirGo Compact SCBA is specifically designed for emergency response and escape.
- On ships or industrial facilities where such units are mandatory, the AirGo Compact is an obvious choice.
- The AutoMaXX® demand valve is fixed to the medium pressure line, keeping costs at a minimum without sacrificing safety.
- The vital pneumatic and carrier components are the same as those used in the high end MSA SCBA.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark Certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 766610 | AirGo Compact featuring 3S facemask and AutoMaXX demand valve |
| 766278 | AirGo Compact featuring Ultra Elite facemask and AutoMaXX demand valve |

AirGo Compact Plus



- The AirGo Compact Plus SCBA provides an additional level of comfort and flexibility.
- Features shoulder padding for increasing comfort during emergency response in ships and industrial facilities.
- Features an auxiliary line connection.
- The AutoMaXX® demand valve is fixed to the medium pressure line, keeping costs at a minimum without sacrificing safety.
- The vital pneumatic and carrier components are the same as those used in the high end MSA SCBA.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark Certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 767847 | AirGo Compact Plus featuring 3S facemask, AutoMaXX demand valve and auxiliary line connection |
| 766695 | AirGo Compact Plus featuring Ultra Elite facemask, AutoMaXX demand valve and auxiliary line connection |

AirGo Pro Series Breathing Apparatus

AirGo Pro SingleLine with Hose in Hose Technology



Hose in Hose Technology

- Rugged reliability.
- Great value makes it a popular choice for fire brigades, industrial or offshore use.
- Weight is distributed evenly and kept close to your body to reduce stress and fatigue.
- SingleLine (Hose in Hose Technology) system integrates warning signal, second connection and gauge in an easily accessible manifold on the chest.
- Padded harness for improved user comfort.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark Certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 766279 | AirGo Pro - SingleLine featuring Ultra Elite Facemask and AutoMaXX demand valve |
| 766694 | AirGo Pro - SingleLine featuring swivel waist belt, Ultra Elite Facemask and AutoMaXX demand valve |
| 767473 | AirGo Pro - SingleLine featuring Ultra Elite Silicone Facemask and AutoMaXX demand valve |
| 766611 | AirGo Pro - SingleLine featuring 3S Facemask and AutoMaXX demand valve |

AirGo Pro Series with Separate Demand Valve and Gauge Line



- Rugged reliability.
- Great value makes it a popular choice for fire brigades, industrial or offshore use.
- Weight is distributed evenly and kept close to your body to reduce stress and fatigue.
- Improved user comfort with padded harness.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 763745 | AirGo Pro featuring Ultra Elite Facemask, AutoMaXX Demand Valve and auxiliary line |
| 767849 | AirGo Pro featuring swivel waist belt, Ultra Elite Facemask, AutoMaXX Demand Valve and auxiliary line |
| 767854 | AirGo Pro featuring Ultra Elite Silicone Facemask, AutoMaXX Demand Valve and auxiliary line |
| 767851 | AirGo Pro featuring 3S Facemask, AutoMaXX Demand Valve and auxiliary line |

AirGo ProMaXX Series Breathing Apparatus

AirGo ProMaXX SingleLine with Hose in Hose Technology



Hose in Hose Technology

- Combines premium ergonomic features with rugged reliability.
- Combines the great value and reliability of the Pro backplate with MaXX suspension comfort harness for increased performance and maximum user comfort.
- Weight is distributed evenly and kept close to your body to reduce stress and fatigue.
- Ergonomically designed with premium S-swing shoulder pads and swivelling waist belt for even weight distribution.
- SingleLine (Hose in Hose Technology) system integrates warning signal, second connection and gauge in an easily accessible manifold on the chest.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 766280 | AirGo ProMaXX SingleLine featuring suspension comfort harness system with swivel waist belt, Ultra Elite facemask and AutoMaXX demand valve |
| 767848 | AirGo ProMaXX SingleLine featuring suspension comfort harness system with swivel waist belt, Ultra Elite Silicone facemask and AutoMaXX demand valve |
| 767175K | AirGo ProMaXX SingleLine featuring suspension comfort harness system with swivel waist belt, Ultra Elite facemask, AutoMaXX demand valve includes 550mm QuickFill line and 9L 300 bar cylinder. |

NSW Coal Mines Registered

AirGo ProMaXX with Separate Demand Valve and Gauge Line



- Combines premium ergonomic features with rugged reliability.
- Combines the great value and reliability of the Pro backplate with MaXX suspension comfort harness for increased performance and maximum user comfort.
- Weight is distributed evenly and kept close to your body to reduce stress and fatigue.
- Ergonomically designed with premium S-swing shoulder pads and swivelling waist belt for even weight distribution.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Wheelmark certified.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 767852 | AirGo ProMaXX featuring suspension comfort harness, swivel waist belt, Ultra Elite facemask, AutoMaXX demand valve and waist mounted auxiliary line |
| 767853 | AirGo ProMaXX featuring suspension comfort harness, swivel waist belt, Ultra Elite Silicone facemask, AutoMaXX demand valve and waist mounted auxiliary line |

AirMaXX Series Breathing Apparatus

AirMaXX



- The AirMaXX SCBA combines premium ergonomic features with advanced technology.
- Fully adjustable backplate with 3 height positions, for optimal balance and comfort.
- Premium S-swing suspension comfort shoulder pads and swivelling waist belt to distribute weight evenly.
- The AirMaXX stays with you even when you are turned upside down.
- SingleLine (Hose in Hose Technology) system integrates warning signal, second connection and gauge in an easily accessible manifold on the chest.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 766281 | AirMaXX SingleLine featuring suspension comfort harness system with swivel waist belt, Ultra Elite Facemask and AutoMaXX demand valve |
| 766697 | AirMaXX featuring separate demand valve, gauge line and waist mounted auxiliary line, featuring comfort harness system with swivel waist belt, Ultra Elite facemask and AutoMaXX demand valve |

AirMaXX eXXtreme



- The AirMaXX eXXtreme SCBA combines premium ergonomic features with advanced technology.
- Fully adjustable backplate with 3 height positions, for optimal balance and comfort.
- Premium S-swing suspension comfort shoulder pads and swivelling waist belt to distribute weight evenly.
- The AirMaXX stays with you even when you are turned upside down.
- SingleLine (Hose in Hose Technology) system integrates warning signal, second connection and gauge in an easily accessible manifold on the chest.
- Specially designed, heavy duty, extremely comfortable harness for protection from continuous exposure to flames and high heat.
- Hoses protected by insulating shrouds.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 765944 | AirMaXX eXXtreme SingleLine featuring heavy duty comfort harness system with swivel waist belt, Ultra Elite facemask and AutoMaXX demand valve |

Specialised SCBA

alphaSPACE Confined Space SCBA



- Combining the features of MSA's industry leading Respiratory Protection and Fall Protection equipment, to create the unique alphaSPACE Self Contained Breathing Apparatus.
- The unique 2-in-1 solution developed for challenging applications which require both Respiratory and Fall Protection.
- Suitable for use in confined space or when working at heights.
- Can be used for escape, or as a working set for inspections, rescue, or firefighting applications.
- Supports a wide variety of cylinder options (up to 9 Litres) to ensure the ultimate in comfort, weight and flexibility.
- Flexible, rescue style harness with unique floating shoulder, leg and sub-pelvic straps giving the user a versatile and comfortable fitting harness.
- Fall arrest rated frontal attachment points and fall arrest rated adjustable D-ring.
- Attachment loops on shoulder for confined space entry and retrieval applications with spreader bar use.
- Yellow and black harness webbing for high visibility purposes.
- Harness made of non-flammable Nomex.
- Fitted with Automatic Switch (non return) Valve, for connection to an airline system or cylinder cascade.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1891.1:2007.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 765623S | alphaSPACE featuring Ultra Elite facemask, AutoMaXX demand valve and Automatic Switch Valve - Small |
| 765623M | alphaSPACE featuring Ultra Elite facemask, AutoMaXX demand valve and Automatic Switch Valve - Medium |
| 765623L | alphaSPACE featuring Ultra Elite facemask, AutoMaXX demand valve and Automatic Switch Valve - Large |

Kits

SCBA and Cylinder Kits



- Industrial SCBA Kits provide a ready made package for ensuring respiratory compliance.
- Just select appropriate cylinder.
- Industrially engineered for best in class performance.
- Reduced weight with permanently connected demand valve.
- Close fitting hoses are less likely to snag on protruding objects in tight spaces.
- Integrated RFID transponder for easy inventory management.
- Value packed and ready for immediate use.
- Maximum safety and durability.
- Requires only minimal maintenance.
- Provides higher levels of safety for inexperienced personnel.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|-------------|--|
| 767561-4.3 | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask and 4.3 litre cylinder |
| 767561-4.3K | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask, wall bracket, wall cabinet, cabinet cover and 4.3 litre cylinder |
| 767561-6.8 | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask and 6.8 litre cylinder |
| 767561-6.8K | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask, wall bracket, wall cabinet, cabinet cover and 6.8 litre cylinder |
| 767561-9.0 | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask and 9 litre cylinder |
| 767561-9.0K | Kit includes AirGo Compact with AutoMaXX demand valve, 3S facemask, wall bracket, wall cabinet, cabinet cover and 9 litre cylinder |

Cylinders and Valves

- MSA steel and composite compressed air cylinders meet a wide range of applications, needs, and budgets.
- Composite cylinders with aluminium liner, over-wrapped with carbon and glass fibres, are 50% lighter than the traditional economic steel construction.
- MSA offers cylinder versions with 200 and 300 bar service pressure and 2 to 9 litre capacity.
- MSA cylinders are available with your choice of Straight (Inline), Right Angle and T-Style valves from MSA and TD-Preece.
- The Straight (Inline) valve features an integrated gauge for added convenience.



Straight Valve with Gauge

| PART NO: | Description | Size | Valve Style | Approx Duration | Approx Full Weight |
|----------|-------------|------|-------------|-----------------|--------------------|
|----------|-------------|------|-------------|-----------------|--------------------|

Fully Wrapped Carbon Fibre Composite Cylinders: 300 bar

| | | | | | |
|--------|--|-----------|--------------------|---------|--------|
| 767085 | 2 Litre 300 bar Carbon Straight | 2 Litre | Straight | 15 mins | 2.6 kg |
| 767718 | 2 Litre 300 bar Carbon Right Angle Preece | 2 Litre | Right Angle Preece | 15 mins | 2.6 kg |
| 767717 | 2 Litre 300 bar Carbon T-Style Preece | 2 Litre | T-Style Preece | 15 mins | 2.6 kg |
| 767721 | 3 Litre 300 bar Carbon Straight | 3 Litre | Straight | 22 mins | 3.4 kg |
| 767720 | 3 Litre 300 bar Carbon Right Angle Preece | 3 Litre | Right Angle Preece | 22 mins | 3.4 kg |
| 767719 | 3 Litre 300 bar Carbon T-Style Preece | 3 Litre | T-Style Preece | 22 mins | 3.4 kg |
| 767724 | 4.3 Litre 300 bar Carbon Straight | 4.3 Litre | Straight | 31 mins | 6.4 kg |
| 767723 | 4.3 Litre 300 bar Carbon Right Angle Preece | 4.3 Litre | Right Angle Preece | 31 mins | 6.4 kg |
| 767722 | 4.3 Litre 300 bar Carbon T-Style Preece | 4.3 Litre | T-Style Preece | 31 mins | 6.4 kg |
| 767729 | 6 Litre 300 bar Carbon Straight | 6 Litre | Straight | 45 mins | 6.5 kg |
| 767728 | 6 Litre 300 bar Carbon Right Angle Preece | 6 Litre | Right Angle Preece | 45 mins | 6.5 kg |
| 767731 | 6.8 Litre 300 bar Carbon Straight | 6.8 Litre | Straight | 51 mins | 6.9 kg |
| 767732 | 6.8 Litre 300 bar Carbon Straight Preece | 6.8 Litre | Straight Preece | 51 mins | 6.9 kg |
| 228127 | 6.8 Litre 300 bar Carbon Right Angle Preece | 6.8 Litre | Right Angle Preece | 51 mins | 6.9 kg |
| 767730 | 6.8 Litre 300 bar Carbon T-Style Preece | 6.8 Litre | T-Style Preece | 51 mins | 6.9 kg |
| 767738 | 6.8 Litre 300 bar Carbon Straight (30 year life) | 6.8 Litre | Straight | 51 mins | 7.1 kg |
| 767737 | 6.8 Litre 300 bar Carbon Right Angle Preece (30 year life) | 6.8 Litre | Straight | 51 mins | 7.1 kg |
| 767736 | 6.8 Litre 300 bar Carbon T-Style Preece (30 year life) | 6.8 Litre | Straight | 51 mins | 7.1 kg |
| 767741 | 9 Litre 300 bar Carbon Straight | 9 Litre | Straight | 67 mins | 8.1 kg |
| 767740 | 9 Litre 300 bar Carbon Right Angle Preece | 9 Litre | Right Angle Preece | 67 mins | 8.1 kg |
| 767739 | 9 Litre 300 bar Carbon T-Style Preece | 9 Litre | T-Style Preece | 67 mins | 8.1 kg |
| 767744 | 9 Litre 300 bar Carbon Straight (30 year life) | 9 Litre | Straight | 67 mins | 9.2 kg |
| 767743 | 9 Litre 300 bar Carbon Right Angle Preece (30 year life) | 9 Litre | Right Angle Preece | 67 mins | 9.2 kg |
| 767742 | 9 Litre 300 bar Carbon T-Style Preece (30 year life) | 9 Litre | T-Style Preece | 67 mins | 9.2 kg |

Fully Wrapped Carbon Fibre Composite Cylinder: 200 bar

| | | | | | |
|--------|---------------------------------|---------|----------|---------|--------|
| 765008 | 9 Litre 200 bar Carbon Straight | 9 Litre | Straight | 45 mins | 8.5 kg |
|--------|---------------------------------|---------|----------|---------|--------|

Steel Cylinders

| | | | | | |
|--------|--|---------|--------------------|---------|---------|
| 767727 | 6 Litre 300 bar Steel Straight | 6 Litre | Straight Preece | 45 mins | 10.4 kg |
| 767726 | 6 Litre 300 bar Steel Right Angle Preece | 6 Litre | Right Angle Preece | 45 mins | 10.4 kg |
| 767725 | 6 Litre 300 bar Steel T-Style Preece | 6 Litre | T-Style Preece | 45 mins | 10.4 kg |

Facemask and Lung Governed Demand Valve

Ultra Elite® Facemask



- Manufactured from specially developed black rubber or silicone.
- Silicone version is more resistant to ageing and does not irritate the skin.
- Two-way breathing for airline appliances, and compressed air breathing apparatus.
- Pressure-free fit through comfortable single sealing flange and deep chin cup.
- Silicate coated lens with distortion-free field of vision of almost 100%.
- Five-point rolling buckle harness.
- Good speech communication through speech diaphragm.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 10069782 | Ultra Elite®- PS-MaXX Positive Pressure featuring AutoMaXX connector - Rubber. |
| 10031384 | Ultra Elite®- PS-MaXX-Si Positive Pressure featuring AutoMaXX connector - Silicone |

Note: Other styles are available. Refer to page 20 for APR Versions

3S Facemask



- Worldwide top seller over the last 40 years, recently enhanced for greater comfort.
- Proven design, the 3S mask offers everything a mask wearer needs.
- Comfortable materials.
- Silicone version is more resistant to ageing and does not irritate the skin.
- Good communication through speech diaphragm.
- Anti fogging air flow.
- Low weight.
- No pressure points, low breathing connector.
- Embedded RFID transponders, for inventory and asset tracking purposes.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 10031422 | 3S Positive Pressure featuring AutoMaXX connector - Rubber |
| 10031388 | 3S Positive Pressure featuring AutoMaXX connector - Silicone |

Note: Refer to page 20 for APR Versions

AutoMaXX® Lung Governed Demand Valve



- Lightweight.
- Ergonomically designed rounded shape for sure grip.
- Impact resistant due to unique shape.
- Fitted with non-skid elastomer strips.
- Easily operated with gloves by left and right handed users.
- 360° swivel in 2 directions.
- Maintenance friendly for improved cost of ownership.
- Embedded RFID transponders, for inventory and asset tracking purposes
- Certified to AS/NZS 1716:2012

| PART NO: | Description |
|----------|--|
| 10073154 | AutoMaXX-AS-G shorter line (50cm). Rubber hose for industrial applications |
| 10036272 | AutoMaXX®-AS-G (65 cm). Rubber hose for industrial applications. |
| 10023688 | AutoMaXX®-AS (65 cm) |
| 10043133 | AutoMaXX®-AS shorter line (50 cm) |

S-Cap Air Escape Device



- 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.
- Designed for use on ships, chemical industries, oil rigs, refineries, water utilities and confined spaces.
- It is very easy to operate: simply open the unit, put on the hood (can be used by personnel with beards, moustaches and spectacles) and make your escape.
- Duration: 15 minutes.
- Certified EN 1146 and SOLAS/Wheelmark.

| PART NO: | Description |
|-----------|--|
| 10017668T | S-Cap Air with filled cylinder 15 min |
| 767698 | S-Cap Air with unfilled NZ cylinder 10 min |

Lifeguard III Escape Device



- Short duration compressed air, constant flow, escape breathing apparatus designed to aid escape from hazardous areas in which toxic substances or oxygen deficiency may occur.
- Designed for use on ships, chemical industries, oil rigs, refineries, water utilities and confined spaces.
- Consists of an air storage cylinder, pressure reducing constant flow metering valve and flame retardant hood (can be used by personnel with beards, moustaches and spectacles).
- Duration: 8 minutes.
- Complies with AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---------------------|
| 764975 | Lifeguard III 8 min |

SCBA Accessories

Carrying Case



P/N: 9510002



P/N: 10126797

Carry Cases accommodate up to 9 litre cylinders

| PART NO: | Description |
|----------|---|
| 9510002 | Wheeled Carrying Case suitable for SCBA and up to 2 cylinders |
| 10126797 | Standard Case, suitable for SCBA and 1 cylinder |
| 817092 | Duffel Carry Bag for SCBA, Soft Black |

Cylinder Covers



In order to protect the high-value composite cylinders, MSA offers a protective cover of non-flammable material in forest green with reflective band.

| PART NO: | Description |
|----------|-------------------------------|
| 767982 | 6.8 lt - 15 year life cyl. |
| 768010 | 6.8 lt - 30 year life cyl. |
| 767983 | 9 lt CF - 15 year life cyl. |
| 768011 | 6 lt CF - 15 year life cyl. |
| 768012 | 4.3 lt CF - 15 year life cyl. |

SCBA Cabinet



- Protect your investment and ensure SCBA is ready for quick use, with wall bracket and/or SCBA cabinets.
- Suits SCBA and cylinders up to 9L.
- Cabinet includes easily removed clear cover.
- Cabinet (including cover) and wall bracket sold separately.

| PART NO: | Description |
|----------|----------------------------------|
| 229390 | SCBA Cabinet (wall mounted) 6.8L |
| 767980 | 6/6.8l cylinder clip |
| 767979 | 4.3L cylinder clip |
| 767981 | 9L cylinder clip |
| 767978 | Support bracket |

Note: Must purchase support bracket and cylinder clip to make a complete bracket.

Spectacle Kits for Full Facepiece Respirators



For use by workers who must wear corrective lenses, the Spectacle Kit can be easily inserted into the facepiece. The kit includes a wire support, rubber guide, and pair of metal-frame spectacles. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and up and down the wire support. The Advantage® 1000 and the Ultravue/Ultra-Twin kits (S-7 shape, 44-mm lens size) and the Ultra Elite® kit (S-7 shape, 48-mm lens size) fit Universal Bridge Corrective Lenses that can be obtained from local sources. The Spectacle Kit can be used with a nose cup.

| PART NO: | Description |
|----------|---|
| 804638 | Ultra Elite® Spectacle Kit (side wire support) |
| 816137 | Advantage® 1000 Spectacle Kit (side wire support) |
| 10037282 | Advantage® 3000 Spectacle Kit |

alphaCLICK Rapid Cylinder Exchange Coupling



- The patented alphaCLICK rapid cylinder exchange coupling fits on MSA 200 or 300 bar standard threaded cylinder valves and completely eliminates the need for threading.
- For safety and reliability, alphaCLICK requires a two-step disconnection sequence, and can only be disconnected when there is no pressure.
- Features a flow restrictor on the cylinder when not connected to the SCBA, which avoids uncontrolled air flow if the valve is accidentally opened
- Lets you change cylinders ten times faster than threading methods, while also improving on safety.

| PART NO: | Description |
|----------|----------------------------------|
| 10075277 | alphaCLICK plus cylinder adaptor |

Telemetry Monitoring Systems

motionSCOUT Personal Alert Safety System (PASS)



- motionSCOUT PASS detects the cessation of bodily movement and activates an automatic alarm.
- Alarm can be user activated for enhanced safety.
- Electronic motion sensor recognises all normal body movements.
- Locate person in danger with highly visible LED and an alarm volume of at least 95dB.
- Alerts nearby persons to nearby incident.
- Maintenance free for great cost of ownership.
- Durable with IP67 rating.
- Temperature sensor optionally available.
- Version with key for tally board applications.
- Easily affixed to belt or strap with durable clamp.

| PART NO: | Description |
|----------|---|
| 10088475 | motionSCOUT |
| 10124919 | motionSCOUT K (key version) |
| 10088477 | motionSCOUT T (with temperature sensor) |
| 10088478 | motionSCOUT K-T (key version with temperature sensor) |

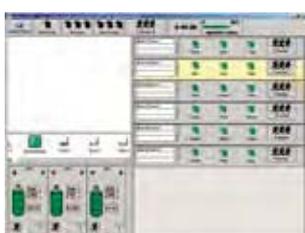
Tally Board/Tally Tag



Allows the controller to closely monitor the status of the individual operatives and their air supply. The information is manually recorded on the tally board together with time data.

| PART NO: | Description |
|----------|-----------------|
| 765420 | Tally Board |
| 227374 | Tally Board Tag |

alphaCONTROL Electronic Tally Board Software



- Full substitute to conventional tally boards.
- All details of a classic accountability system.
- Higher level of safety using electronic support.
- Reliable documentation available for auditing and review
- Supports up to 250 users.
- Allow tracking of persons not using SCBA.
- Operating System: Windows Operating System only.

| PART NO: | Description |
|----------|--|
| 10072272 | alphaCONTROL electronic tally board software |

Monitoring Systems

alphaSCOUT Personal Monitoring and Alarm Device



- Receives pressure information from the alphaMITTER transmitter on the SCBA back plate.
- Automatically calculates the remaining service time.
- Motion detector and alarm signal integrated.
- Individual user identification.
- Independent of the backplate, reduces cost of ownership.
- Data is sent to alphaBASE, for monitoring by the incident command.
- Evacuation signals can be initiated by alphaBASE and delivered to the alphaSCOUT.
- Durable with IP67 rating.
- Certified to AS/NZS 4268.
- IEC Ex for EX i IEC60079-11.
- C-Tick approved.

| PART NO: | Description |
|----------|--|
| 10069775 | Complete set incl. long distance radio, batteries and alphaTAG |

alphaBASE standard Base Station



- Long range telemetry radio base station.
- alphaBASE standard works with any PC or laptop via USB.
- An external aerial with magnetic foot available.
- Windows only.
- SAR Test to ARPANSA RP53.
- C-Tick approved.

| PART NO: | Description |
|----------|--|
| 10073767 | alphaBASE standard Aust. (including power supply), direct and external aerial alphaCONTROL electronic tally board software |

alphaMITTER



- Short-range transmitter on the SCBA back plate sends air pressure data to the alphaSCOUT every second.
- Certified to AS/NZS CISPR22.
- Certified to AS/NZS 4268.
- SAR Test to ARPANSA RP53.
- C-Tick approved.

| PART NO: | Description |
|----------|--|
| 10058211 | alphaMITTER retrofittable to existing SCBA |

alphaBASE portable Base Station



- Long range battery powered telemetry radio base station.
- Allows full freedom of movement for mobile applications.
- Windows only.
- Durable IP67 rating.
- SAR Test to ARPANSA RP53.
- C-Tick approved.

| PART NO: | Description |
|----------|--|
| 765684 | alphaCONTROL electronic tally board software and Xplore ix104 C5 Tablet PC |
| 10073764 | alphaBASE battery-powered (including 2 batteries and charger) |
| 765383 | Spare battery for alphaBASE battery-powered |

Compressed Airline Breathing Apparatus

MSA compressed airline breathing apparatus function independent from the ambient atmosphere.

They can be used in all places where the ambient air is not breathable due to the presence of contaminants or oxygen deficiency and where filtering (Air Purifying) devices do not provide sufficient protection.

With the lightweight design and the unlimited time of compressed air supply from a compressed air line system (e.g. compressor), or a limited time of compressed air supply from a cascade cylinder, they are used for a multitude of applications in industry:

The following are some examples:

- Long duration work that is restricted to a location, e.g. on construction sites, handcraft work, agriculture and for repair and maintenance work of tanks and containers in industry
- In all situations where a compressed air breathing apparatus would encumber the user because of the tight work space or where small entry ports do not permit carrying an SCBA on the back
- For spray painting in handcraft work and industry
- For sandblast work in shipping, high rise and underground construction industry

Airline Filter Unit



P/N: 767350BAE23BP



Cutaway view of Oil-X filter

In order to prevent an airline system from freezing up, an effective water separator must be installed.

To assure a quality of breathable air, it may also be necessary to use multiple stages of a high efficiency filter designed to remove dirt, oil and water aerosols.

An activated charcoal filter also helps to remove oil vapor and odors.

- Air purifiers are suitable for critical applications where only the finest quality compressed air is acceptable.
- These breathing air purifiers utilise two separate stages of air treatment combined together in one compact housing. Where the air supply is particularly dirty, these purifiers can be supplied with additional AO grade filtration, and WS water separators.

| PART NO: | Description |
|--|---|
| OIL-X Air Purifying Kit with Mounting Bracket, includes Regulator and Gauge | |
| 767350BAE21BO | 2 Person/2 Stage |
| 767350BAE22BO | 2 Person/3 Stage (additional AO filter) |
| 767350BAE23BO | 2 Person/4 Stage (additional AO and WS filters) |
| 767350BAE41BO | 4 Person/2 Stage |
| 767350BAE42BO | 4 Person/3 Stage (additional AO filter) |
| 767350BAE43BO | 4 Person/4 Stage (additional AO and WS filters) |
| OIL-X Air Purifying Kit with Portable Frame, includes Regulator and Gauge | |
| 767350BAE21BP | 2 Person/2 Stage |
| 767350BAE22BP | 2 Person/3 Stage (additional AO filter) |
| 767350BAE23BP | 2 Person/4 Stage (additional AO and WS filters) |
| 767350BAE41BP | 4 Person/2 Stage |
| 767350BAE42BP | 4 Person/3 Stage (additional AO filter) |
| 767350BAE43BP | 4 Person/4 Stage (additional AO and WS filters) |

Airline Respirator with Demand Valve



P/N: 764964



P/N: 767907 or 767908

A demand airline system uses the AutoMaXX lung governed demand valve to supply only as much air as is required during inhalation.

The air consumption is more economical than a constant flow system, which makes it especially suitable for cascade cylinders.

The connection between the lung governed demand valve and the air supply hose is usually a waist connector that is fixed to the waist belt.

- Slight positive pressure of air inside facepiece preventing contaminants seeping through.
- Full facepiece.
- Breathing hose support belt with quick-disconnect assembly.
- Ideal for non-immediately dangerous to life and health environments.

| PART NO: | Description |
|----------|--|
| 764964 | Introductory Airline Kit including Ultra Elite Facemask, AutoMaXX Demand Valve, Waist Belt, Airline Connector and Carry Bag |
| 767907 | Basic Airline Kit including Ultra Elite Facemask, AutoMaXX Demand Valve, Waist Belt, Airline Connector, 15 metre supply hose, Pressure Reducer, 9 Litre Cylinder and Carry Bag |
| 767908 | Basic Airline Kit including Ultra Elite Facemask, AutoMaXX Demand Valve, Waist Belt, Airline Connector, 30 metre supply hose, Pressure Reducer, 9 Litre Cylinder and Carry Bag |

Constant Flow Airline Respirator



P/N: 223103

- The constant flow airline breathing apparatus are very comfortable to wear for longer durations.
- Especially suited as lasting protection against harmful vapours, gases, dust, chemicals and small particles .
- APR filter connection version, provides backup to airline connection.
- Ideal for non-immediately dangerous to life and health environments.
- Air is supplied to the user via a control valve fixed to the waist belt.
- The control valve permits individual adjustment of the constant air flow from the air source to the user as required.

| PART NO: | Description |
|----------|--|
| 223103 | Duo-Flo III Constant Flow Airline featuring 3S Facemask, breathing hose, waist belt, constant flow control valve and APR filter connection (Supplied with P3 filter) |
| 227446 | Constant Flow Airline Respirator featuring 3S Facemask, breathing hose, waist belt and constant flow control valve |
| 227447 | Constant Flow Airline Respirator featuring 3S Silicone Facemask, breathing hose, waist belt and constant flow control valve |

Compressed Air Breathing Apparatus Accessories

Emergency Air System



- The emergency air supply is connected to a 200/300 bar cylinder.
- The Y-piece coupling end is connected to the user (typically on their waist belt) and to the primary air supply system.
- If the primary air supply pressure drops drastically, the system automatically provides air from the supply cylinder.
- If the pressure in the air cylinder drops, a warning whistle sounds.

| PART NO: | Description |
|----------|-----------------------------------|
| 4066845 | Emergency air system with Y-Piece |

Airtester HP/MP



- Monitoring set for compressed breathable air from factory airlines, compressor and cylinders.
- Airtester HP for high pressure range of 200 bar and 300 bar breathing air compressors and cylinders.
- Airtester MP for medium pressure compressors and supplied air lines up to 10 bar.

| PART NO: | Description |
|----------|---------------------------|
| 3188701 | Airtester High Pressure |
| 5185710 | Airtester Medium Pressure |

Automatic Switch Valve - Y-Piece



The ASV connects a compressed airline to an SCBA cylinder. This ensures a continuous supply of air in case the external air source (e.g. factory airline) fails.

| PART NO: | Description |
|----------|------------------------------|
| 4066700 | Automatic Switch Valve (ASV) |

Airline Manifold for Twin Cylinders



| PART NO: | Description |
|----------|---|
| 767889 | Airline Manifold for Twin Cylinders, allows connection of two cylinders to Pressure Reducer |

Air Supply Hose



- Compressed air supply hose with one hand operation safety couplings (344).
- Flexible, anti-static, tread-fast and excellent kink resistant ensures reliability and safety.
- Features I.D of 10mm.
- For use in the applications of AS 2299 and AS/NZS 1716.

| PART NO: | Description |
|-------------|-----------------------|
| 762046-5.0 | Air Supply Hose - 5m |
| 762046-10.0 | Air Supply Hose - 10m |
| 762046-15.0 | Air Supply Hose - 15m |
| 762046-20.0 | Air Supply Hose - 20m |
| 762046-30.0 | Air Supply Hose - 30m |
| 762046-40.0 | Air Supply Hose - 40m |

Airline Belt



- For connecting a full face mask and a demand valve with the airline supply hose.

| PART NO: | Description |
|----------|--------------------|
| 4066803 | Belt Connector |
| 3043918 | Leather Waist Belt |

Pressure Reducer for Cascade Cylinder



- The pressure reducer consists of a high pressure and medium pressure gauge, a warning device and a safety coupling to connect the compressed air supply line.
- The cylinder pressure is reduced to approx. 7 bar.
- The warning signal indicates the approaching end of the air supply.
- The high pressure gauge indicates the current cylinder pressure.
- The medium pressure gauge shows the observer the regular breathing of the working user, for example when working inside a tank and unable to be seen by the observer.

| PART NO: | Description |
|----------|---|
| 4066830 | Pressure Reducer for Airline/Cascade Cylinder |

Disposable Respirators

Affinity 1200 Series



Effective, reliable and economical, the cup-shaped Affinity 1200 series is available in P1 and P2 versions certified to AS/NZS 1716:2012.

It protects against most penetrating solid and liquid aerosol particles, depending on which class of filter is used. The specially selected filter media provides excellent efficiency and enhanced durability.

The Special Odour Removal versions, Affinity 1240 and 1241 series, offers relief from low concentration levels of Acid Gases (including HF), only below TLV (nuisance levels).

- Lightweight and comfortable
- Pre-shaped nose area and nose clip
- Sealed tabs (no staples)
- Optional exhalation valve
- Valve colour coding for quick identification
- High filter media quality provides 5 years storage life
- Latex free elastic headband

Affinity 2200 Series



With its high-performance light and thin filtering media Affinity 2200 series is the new generation of flat folded disposable respirators from MSA.

Affinity 2200 series offers effective protection against penetrating solid and liquid aerosol particles present in various work environments. Certified to the requirements of AS/NZS 1716:2012, the mask offers P2 level of protection.

- Light and thin material for comfortable fit
- Pre-shaped nose clip
- Optional exhalation valve
- Inner face seal for a better fit
- Hygienic pocket-size packaging
- Latex free elastic headband

| SERIES | DESCRIPTION | PART NO. | QTY PER BOX | ITEM NO. |
|----------------------|---|----------|-------------|----------|
| AFFINITY 1200 SERIES | Affinity 1210 Cup Shaped P1 | 10128879 | 15 | 1 |
| | Affinity 1211 Cup Shaped Exhalation Valve P1 | 10128880 | 10 | 2 |
| | Affinity 1220 Cup Shaped P2 | 10128881 | 15 | 3 |
| | Affinity 1221 Cup Shaped Exhalation Valve P2 | 10128882 | 10 | 4 |
| | Affinity 1240 Odour Removal P2 | 10128884 | 10 | 5 |
| | Affinity 1241 Exhalation Valve Odour Removal P2 | 10128885 | 10 | 6 |
| AFFINITY 2200 SERIES | Affinity 2220 Flat Fold P2 | 10128888 | 20 | 7 |
| | Affinity 2221 Flat Fold Exhalation Valve P2 | 10128889 | 20 | 8 |

Escape Respirators

Miniscape



- Single use escape device with a 5 minute service time.
- Equipped with mouthpiece and nose clip.
- Small and handy, the Miniscape fits into your pocket and can also be belt mounted.
- The Miniscape can be donned very quickly and is immediately operational.
- Housed in a rugged, translucent carrying case, to protect it against shocks and ageing.
- Protects against numerous toxic gases including organic vapours and inorganic gases eg. solvents, hydrogen cyanide, ammonia, sulphur dioxide.

| PART NO: | Description |
|----------|--------------------------------------|
| 10038560 | Miniscape Escape Respirator - 5 mins |

Smoke Hood



- The hood provides protection against radiant heat.
- A self-adjusting, one-size fits all, head harness makes for quick and easy donning.
- Elastic neck seal provides additional protection against rising smoke.
- Simple and quick handling.
- Safe protection of breathing, eyes and head.
- Large high performance filter.
- Low breathing resistance.
- 15 minutes duration.

| PART NO: | Description |
|----------|--------------------------|
| 1440005 | Smoke Hood |
| 1446021 | Training Hood w/o filter |

S-Cap Smoke Hood



- The S-Cap provides protection for persons endangered by smoke and gases generated by fires.
- Investigations confirm again and again that most victims in fire do not die from heat or flames but from the smoke and gases.
- Very easy to use, the device also provides protection for the eyes and the face.
- Simple and quick handling.
- Safe protection of breathing, eyes and head.
- Also suitable for persons wearing spectacles.
- Large field of vision and high performance filter.
- Low breathing resistance.
- 15 minutes duration.
- Particularly useful for carbon monoxide environments.

| PART NO: | Description |
|----------|-------------------------------|
| 10064644 | S-Cap in cardboard box |
| 10064645 | S-Cap in luminescent wall box |
| 10081637 | S-Cap in pouch with strap |

Respiratory Protection

Advantage® 3100 Respirator



- Wraparound lens.
- Soft, pliable silicone facepiece that provides a total solution to your air-purifying respirator needs.
- Single filter ports.
- Advantage® European-style harness.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 10027724 | Advantage® 3100 Full Face Respirator - Small |
| 10027723 | Advantage® 3100 Full Face Respirator - Medium |
| 10027725 | Advantage® 3100 Full Face Respirator - Large |

Ultra Elite® Respirators - Threaded Fittings



- Manufactured from specially developed black rubber.
- Two way breathing.
- Pressure free fit through comfortable single sealing flange and deep chin cup.
- Rubber 5 point harness for stable fit.
- Filters sold separately, refer to table on page 20.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 2056700 | Ultra Elite® Full Face Respirator Rubber |
| 2056718 | Ultra Elite® Silicone Full Face Respirator |
| 2056779 | Ultra Elite® (Small) Full Face Respirator Rubber |

Note: Refer page 11 for Positive Pressure Versions.

3S Full Face Respirator - Threaded Fittings



- Available in chemical resistant rubber or soft pliable silicone.
- Polycarbonate lens provides impact and chemical resistance.
- Filters sold separately, refer to table on page 20.
- Worldwide top seller over the last 40 years.
- Rubber 5 point harness for stable fit.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 2055000 | 3S Full Face Respirator Rubber |
| 2055718 | 3S Silicone Full Face Respirator |
| 2055779 | 3S (Small) Full Face Respirator Rubber |

Note: Other styles are available. Refer page 11 for Positive Pressure Versions.

Advantage® 410 Half Face Respirator



- Unique harness assembly makes for easier donning and doffing.
- Chin cup with built-in drain hole reduces slippage of face piece in hot humid conditions.
- Only 3 major components makes cleaning and maintenance much easier.
- High quality silicone.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|--|
| 10102276 | Advantage® 410 Half Face Respirator - Small |
| 10102277 | Advantage® 410 Half Face Respirator - Medium |
| 10102278 | Advantage® 410 Half Face Respirator - Large |

Silicone - Softness and Flexibility - Reduces Skin Irritation - High Tear Strength - Effective Low Pressure Sealing

Single Filter Respirators

Filters for Advantage® 410, Advantage® 3100, Ultra Elite® and 3S Single Filter Respirators

| PART NO: | Description |
|----------|---|
| 1070754 | P2 - Pre Filter [Pack of 12] |
| 10094376 | P3 - Particulate filter |
| 10115349 | E2 - Gas Filter Sulphur Dioxide and Acid Gas |
| 10115320 | K2 - Gas Filter Ammonia and Ammonium Compounds |
| 10108408 | AX, A2 - Gas Filter Organic Vapours |
| 10097993 | A2, B2-P3 R - Gas Filter Organic Vapours and Inorganic Gases |
| 10115190 | K2-P3 R - Gas Filter Ammonium and Particulars |
| 10097231 | A2, B2, E2, K1, Hg-P3R - Gas Filter Organic Vapours, Inorganic Gases, Acid Gases, Ammonium Compounds, Mercury and Particulars |

Twin Filter Respirators

Advantage® 200 LS Respirator



- Facepiece is lighter and softer which gives more comfort and stability than ever.
- AnthroCurve™ Sealing Surface, instantly conforms to each wearer's unique facial characteristics.
- The unmatched fit and comfort start with a soft, pliable combination of rubber and plastic that provide a virtually customised fit.
- Delivers exceptional stability, so the respirator will not collapse during wear.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 430357 | Advantage® 200 LS Half Face Respirator - Small |
| 430356 | Advantage® 200 LS Half Face Respirator - Medium |
| 430358 | Advantage® 200 LS Half Face Respirator - Large |

Note: Other MSA configurations and MSA Cartridge Kits are available.

Advantage® 420 Respirator



- Unique harness assembly makes for easier donning and doffing.
- Chin cup with built-in drain hole reduces slippage of face piece in hot humid conditions.
- Textured inner seal of face piece.
- Integrates extremely well with other PPE.
- Only 3 major components makes cleaning and maintenance much easier.
- High quality silicone.
- Uses existing MSA filters which minimises inventory. Ref. P 23.
- Certified to AS/NZS 1716:2012

| PART NO: | Description |
|----------|--|
| 10102273 | Advantage® 420 Half Face Respirator - Small |
| 10102274 | Advantage® 420 Half Face Respirator - Medium |
| 10102275 | Advantage® 420 Half Face Respirator - Large |

Full Face Respirators

Advantage® 1000 Respirator



- Constructed of super-soft Hycar™ rubber that provides the feel and comfort of silicone but has better permeation resistance.
- The facepiece has a unique inturred lip seal that provides an exceptional seal against a wide range of facial contours.
- Features a distinctive, flexible urethane lens that is integrally bonded to the facepiece, eliminating the need for rigid lens retainers that can cause unwanted pressure points.

| PART NO: | Description |
|----------|---|
| 805414 | Advantage® 1000 Full Face Respirator - Small |
| 805408 | Advantage® 1000 Full Face Respirator - Medium |
| 805420 | Advantage® 1000 Full Face Respirator - Large |

Note: Other MSA configurations and MSA Cartridge Kits are available.

Advantage® 3200 Respirator



- Wraparound lens.
- Soft, pliable silicone facepiece that provides a total solution to your air-purifying respirator needs.
- Twin filter ports.
- Advantage® European-style harness.
- Certified to AS/NZS 1716:2012.

| PART NO: | Description |
|----------|---|
| 10027727 | Advantage® 3200 Full Face Respirator - Small |
| 10027726 | Advantage® 3200 Full Face Respirator - Medium |
| 10027728 | Advantage® 3200 Full Face Respirator - Large |

Filters for Advantage® 200LS, Advantage® 1000, Advantage® 420, and Advantage® 3200 Twin Filter Respirators

| PART NO: | Description |
|----------|--|
| 10011347 | P2 - Pre Filter |
| 430375 | P3 - Particulate (P) |
| 430371 | A2 - Organic Vapour (OV) |
| 430372 | A2, P3 - Organic Vapour/Particulate |
| 10107163 | K2 - Ammonia/Methylamine (NH3) |
| 10107165 | K2, P3 - Ammonia/Methylamine/Particulate |
| 430373 | A2, B2, E1, K1 - Organic Vapour/Acid Gas/Ammonia |
| 430374 | A2, B2, E1, K1, P3 - Organic Vapour/Acid Gas/Ammonia/Particulate |
| 10027699 | P2 - Flexifilter Particulate |
| 10027639 | P3 - Flexifilter Particulate |
| 10027697 | P3 - Flexifilter Particulate Odour Removal |

Advantage® Respirator Cartridges

| The Advantage® line of particulate, chemical and combination cartridges provides lightweight, low-profile performance. Cartridges fit both 200 LS Half-Mask, Advantage 420 and 3000 Full-Facepiece Advantage® Respirators. | | | A2 | Acid Gases B2E1 | | | | | | K1 | | | + P3 P2 | | See Notes Below |
|--|---------------------------------|---------------|----------------|-----------------|----------------|------------------|-------------------|-------------------|---------|-------------|--------------|-------------------|---------------|------|-----------------|
| | | | Organic Vapour | Chloride | Sulfur Dioxide | Chloride Dioxide | Hydrogen Chloride | Hydrogen Sulfide* | Ammonia | Methylamine | Formaldehyde | Hydrogen Fluoride | Mercury Vapor | P100 | |
| MSA Cartridge Description | Re-Order Part Number | Colour Coding | OV | CL | SD | CD | HC | HS* | AM | MA | FM | HF | MV | P100 | |
| A2 | 430371 | | | | | | | | | | | | | | 2,3 |
| A2 P3 | 430372 | | | | | | | | | | | | | | 2,3,4 |
| K2 | 10107163 | | | | | | | | | | | | | | 2,3 |
| K2 P3 | 10107165 | | | | | | | | | | | | | | 2,3,4 |
| A2 B2 E1 K1 | 430373 | | | | | | | | | | | | | | 2,3 |
| A2 B2 E1 K1 P3 | 430374 | | | | | | | | | | | | | | 2,3,4 |
| Low-Profile P100 | 430375 | | | | | | | | | | | | | | 1,4 |
| P2 Snap-On Prefilter and Cover | 10011347 Pack of 20 + Covers | | | | | | | | | | | | | | |

Definitions

N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply. (P1)

P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols. (P2)

* Escape only. + Only with Full Facepiece

** Effective against, but not NIOSH-approved for Iodine Vapor.

Notes

- Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres containing gases or vapors or in atmospheres immediately dangerous to life and health.
- Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
- Do not wear for protection against organic vapors with poor warning properties or those which generate high heats of reaction with the sorbent material in the cartridge.
- 99.97 percent efficient against 0.3 micron DOP.
+ P3 with Full Facemask only.

Flexi-Filter® Particulate Pads for Advantage Respirators

These low-profile, flexible pads fit well under a welding hood and with other personal protective equipment. They offer great balance and weight distribution for maintaining a good face seal, while their swept-back design provides improved vision and comfort.

| MSA Filter Description | Part No. | Colour Coding |
|--|----------|---------------|
| Flexi-Filter® P2 | 10027699 | |
| Flexi-Filter® P3 | 10027639 | |
| Flexi-Filter® P3 w/ Nuisance Level OV, Ozone Removal | 10027697 | |

Cleaners Towellettes and Fit-Test Kits

MSA Confidence Plus® Germicidal Cleaners and Personal Safety Equipment Towellettes



Mix with warm water for a germicidal cleaner that is effective against various micro-organisms including immunodeficiency virus Type 1 (HIV-1, associated with AIDS). EPA-approved for use on safety equipment.

Personal Safety Equipment Towellettes provides an excellent method for wiping and refreshing respirators, hardhats, and other safety equipment between full cleaning periods.

| PART NO: | Description |
|----------|--|
| 697382 | Cannister with 220 towellettes, 4-1/4" x 6" |
| 697383 | Box of 100 individually wrapped towellettes, 7-1/4" x 5" |
| 10022871 | "The Big Ones", Box of 50 individually wrapped towellettes, 8" x 11" |
| 10009971 | MSA Confidence Plus® Germicidal Cleaner, in 32 oz. bottle |

Facepiece Fit-Test Kits - Banana Oil Qualitative Fit-Test Kit



Quantitative testing methods rely on objective data to determine a proper fit. Qualitative fit-test methods are subjective in nature and rely on the judgment of the test subject.

| PART NO: | Description |
|--|--|
| Saccharin Qualitative Fit-Test Kit | |
| 697287 | Saccharin QLFT Kit (1) |
| 697285 | Replacement Sensitivity Test Solution, 55ml bottle |
| 697286 | Replacement Fit-Test Solution, 55ml bottle |
| 697448 | Replacement Hood (2) |
| 697325 | "Using the Qualitative Fit Test Kit" videotape |
| Banana Oil Qualitative Fit-Test Kit | |
| 801628 | Qualitative Fit Test Kit (3) |
| 801629 | Qualitative Fit Test Kit, in rugged Pelican case |

Accessories

Lens Shield for Advantage® 1000 and 3000



Lens Shield for Advantage® 1000 and 3000 for added impact protection. The polycarbonate lens shield snaps into place

| PART NO: | Description |
|----------|---|
| 806462 | Lens Shield for Advantage® 1000 - Clear |
| 10031542 | Cover Lens Clear For Advantage 3000 PK-25 |
| 10031543 | Cover Lens Smoke For Advantage 3000 PK-25 |

Carrying Pouches



A belt-mounted carrying pouch with Velcro closures is available for half-mask respirators. A black pouch is available for Advantage® 1000 Respirators.

| PART NO: | Description |
|----------|---|
| 817040 | Carrying Pouch for Advantage® 1000 Respirator - Black |
| 10016038 | Carry Pouch for Advantage 200 |
| 10026179 | Advantage Facemask Box Storage |

Respirators for Riot Control

Millennium® Riot Control Gas Mask



- MSA's Millennium® CBRN Gas Mask was first to receive NIOSH certification as "compliant against CBRN".
- Flexible, 1-piece polyurethane lens with wide field of vision.
- Dual-canister mount (NATO 40mm thread) allows weapon sighting from either shoulder.
- Drinking tube provides connection for fluid ingestion in contaminated atmospheres.
- US Export Licence Restrictions may apply.

| PART NO: | Description |
|----------|--|
| 10051286 | Small |
| 10051287 | Medium |
| 10051288 | Large |
| 818264 | Millennium® Riot Control Cannisters - Box of 6 |
| 10008907 | Clear small polycarbonate lens shield* |
| 10008906 | Clear medium/large polycarbonate lens shield* |
| 10008909 | Tinted small polycarbonate lens shield* |
| 10008908 | Tinted medium/large polycarbonate lens shield* |

* Images of Lens Shields at top of page

Advantage® 1000 Riot Control Gas Mask



- Clean, simplified respirator with Hycar facepiece.
- Based on a proven facepiece design developed for the U.S. Military.
- Up to 40% lighter than conventional full-face respirators.
- Gives high performance, customized fit, comfort, economy, and user acceptance.
- US Export Licence Restrictions may apply.

| PART NO: | Description |
|----------|--|
| 813860 | Small |
| 813859 | Medium |
| 813861 | Large |
| 817590 | Advantage® Riot Control Cannisters - Box of 6 |
| 10034184 | Pouch Military Style |
| 817040 | Pouch Advantage® 1000 Black Nylon |
| 813341 | Cap Assembly Inlet Riot Control |
| 806463 | Clear small polycarbonate lens shield* |
| 806462 | Clear medium/large polycarbonate lens shield* |
| 806465 | Tinted small polycarbonate lens shield* |
| 806464 | Tinted medium/large polycarbonate lens shield* |

Chemical Oxygen Self Rescuers

SSR30/100



- Small light robust packed in a stainless steel container.
- Used anywhere, where the ambient atmosphere may be oxygen deficient.
- Designed to be carried on a belt, donned in seconds.
- Supply oxygen to the wearer during his escape or while waiting for rescue.
- MSA Chemical Oxygen has a maximum life of ten years.
- EN 401.
- Duration: 20 minutes [up to 100 minutes at rest].

| PART NO: | Description |
|----------|---|
| 1123701 | SSR30/100 Self Rescuer |
| 1123701R | SSR30/100 Self Rescuer- NSW Coal Mines Registered |
| 1123711 | SSR30/100 Self Rescuer - Trainer |
| 767684 | SSR30/100 Self Rescuer - Pouch |

SavOx



- Small light robust packed in a stainless steel container.
- Used anywhere, where the ambient atmosphere may be oxygen deficient.
- Safety goggles for eye protection.
- Indicator window for confirming device ready to use.
- Automatic starter system for added protection.
- MSA Chemical Oxygen has a maximum life of ten years.
- EN 401.
- Duration: 30 minutes [up to 3 hours at rest].

| PART NO: | Description |
|-----------|--|
| 10023263 | SavOx Self Rescuer |
| 10023263R | SavOx Self Rescuer - NSW Coal Mines Registered |
| 10024538 | SavOx Self Rescuer - Trainer |

SSR90



- Packed in a robust stainless steel container.
- Fitted with quick-start chlorate candle.
- MSA Chemical Oxygen has a maximum life of ten years.
- Weight during use: 3.4 kg.
- EN 401.
- Duration: 60 minutes [up to 5 hours at rest].

| PART NO: | Description |
|----------|--|
| 1118701 | SSR90 Self Rescuer |
| 1118701R | SSR90 Self Rescuer - NSW Coal Mines Registered |
| 1118709 | SSR90 Self Rescuer - Trainer |
| 767173 | SSR90 Self Rescuer - Pouch |
| 767209 | SSR90 Self Rescuer - Stainless Steel Truck Mount |

Filter Self Rescuer

W65



- MSA FSR in proven, robust design.
- Low weight when carrying and in use.
- Small size.
- Rescuer available with carrying strap, belt loop or bag.
- Stainless steel case.
- Comfortable to carry and breathe.
- High performance reserve.
- Maintenance-free device.

| PART NO: | Description |
|----------|---|
| 1090703 | MSA Filter Self Rescuer - W65. NSW Coal Mines Registered. |

W95



- MSA FSR in proven, robust design.
- Low weight when carrying and in use.
- Small size.
- Rescuer available with carrying strap, belt loop or bag.
- Stainless steel case.
- Comfortable to carry and breathe.
- High performance reserve.
- Maintenance-free device.

| PART NO: | Description |
|-----------|---|
| 10014932L | MSA Filter Self Rescuer - W95. NSW Coal Mines Registered. |

Powered Air Purifying Respirators

Optimair™ 3000 and Responder™ CBRN Powered Air Respirators

OptimAir™ 3000



- Using a traditional non-powered filter system over time adds a significant strain on breathing and increases body temperature. As a result effective working time, concentration and ultimately safety are reduced.
- The OptimAir 3000 Powered Air Purifying Respirator (PAPR) system allows you to breathe normally while you work, combining the latest in high-tech features and ergonomically engineered design to give you the most advanced device of its kind available today.
- The intelligent variable-speed motor guarantees an optimum amount of air in your headtop (mask or hood) – even as the breathing rate changes during more strenuous tasks.
- Streamlined and well-balanced design (only 1.3 kg with particle filters) reduces back strain and increases freedom of movement.
- NiMH battery provides over 8 hours of continuous operation
- Automatic headtop detection automatically senses which head protection (mask or hood) is being used and adjusts airflow automatically.
- Typical applications are working with hazardous materials such as asbestos removal, paint and lacquer spraying, welding, chemical plants, agriculture and medicine.
- The specially designed OptimAir™ 3000 EX unit can also be used in areas where there is a potential danger of ignition.

| PART NO: | Description |
|----------|--|
| 10061582 | OptimAir™ 3000 Full Face - Complete Unit |
| 10066899 | OptimAir™ 3000 Full Face - Optivisor Complete Unit |
| 10061906 | Kit, OptimAir™ 3000, Half Hood, Incl Std Blower, Nimh Battery, Charger, Comfort Belt |
| 10061907 | Kit OptimAir™ 3000, Full Hood and Hose, Incl Std Blower, Nimh Battery, Charger, Comfort Belt |
| 766535 | Kit, OptimAir™ 3000, OptiTop. Incl Std Blower, Nimh Battery, Charger, Comfort Belt |
| 10049621 | OptiBattery Extended (up to 12 hours) |
| 10049635 | A1, B1, E1, K1 Filter |
| 10049560 | OptiBattery (up to 8 hours) |
| 10049559 | OptimAir™ 3000 EX Complete Unit |
| 10049632 | Particle Filter HEPA |
| 10049637 | Organic Vapour (A2) Filter |





Thermal Imaging Cameras



MSA's state-of-the-art Thermal Imaging Cameras (TIC) are invaluable tools for fire fighters and police, e.g. for fast and safe navigation in smoke filled rooms or dark environments.

The TIC models feature the same ergonomic design, robust components and extreme durability. The image quality is best-in-class.

The Video Transmission System gives the back-up team a clear view of what is happening on the fire ground in real time. Furthermore, the Image and Video Capture functions are invaluable for documentation purposes.

Thermal Imaging Cameras

Evolution® Series

Evolution® 6000



- The Evolution 6000 series makes TIC use easier, faster, lighter and more intuitive.
- 3 models available depending on users needs.
- Durable tool for fire fighting operations and search/rescue.
- All models feature High Resolution 320 x 240 pixel imaging core that provides excellent image quality.
- Flashlight/laser pointer for extra visibility.
- Field replaceable germanium lens lowers repair costs.
- Integrated Compass.
- Plus model features 2X/4X zoom.
- Plus model features 6 user selectable colour palettes.
- Plus model available with optional integrated video transmitter.
- Xtreme model includes all the great features of the Plus, as well as integrated video and image capture.
- Class 1, Division 2 Intrinsic Safety.
- NFPA 1801 Compliant.



| PART NO: | Description |
|-------------|--|
| 10145939K | Evolution® 6000, Basic with laser pointer and Station Kit |
| 10145955K | Evolution® 6000, Plus with Station Kit |
| 10145963K | Evolution® 6000, Xtreme with Station Kit |
| 10145965AUK | Evolution® 6000, Xtreme with Video Transmitter and Station Kit |

Evolution® 6000 Series accessories



Station Kit

Vehicle Kit

| PART NO: | Description | PART NO: | Description |
|-------------|---|----------|---|
| 10120606-SP | Battery, Evolution® 6000 Series, lithium-ion | 10145771 | Kit, vehicle Evolution® 6000 Series |
| 10145860-SP | Cable, USB, Evolution® 6000 Series, configuration cable | 10040226 | Lanyard Retractable Evolution® 5000 and 6000 Series |
| 10147388 | Charger, Evolution® 6000 Series, includes wall and vehicle chargers | 10039515 | Strap, Shoulder, Evolution® 5000 and 6000 Series |
| 10148136 | Charger, vehicle, Evolution® 6000 Series | 10039516 | Strap, Wrist, Evolution® 5000 and 6000 Series |
| 10040005 | Karabiner Attachment Evolution® 5000 and 6000 Series | 10147892 | Sun Shade, Evolution® 6000 Series |
| 10147389 | Kit, station, Evolution® 6000 Series | | Note: US Export Restrictions may apply. |

Evolution Series Video Receiver



- Includes receiving antenna and 300mm LCD screen in waterproof carry case.
- Can receive two independent transmitter feeds.

| PART NO: | Description |
|----------|--|
| 10049271 | Receiver station with monitor and case suits both 6000 and 5000 Series |

Evolution® 5800



- 320 x 280 pixel screen for multi-user viewing.
- Standard 2x digital zoom.
- 6 user selectable colour palettes.

| PART NO: | Description |
|----------|--|
| 767059 | Evolution® 5800 TIC with Station Kit and Accessories |

Evolution® 5000 Series accessories

| PART NO: | Description | PART NO: | Description |
|----------|---|----------|---|
| 765656 | Charger 220V with cigarette lighter adaptor | 10040005 | Karabiner |
| 10038412 | Lithium ion battery | 10039603 | Sun Shroud |
| 10067565 | Vehicle Mounted Charger | 10062184 | Reflective Label ID Kit |
| 10039516 | Wrist strap | 10038970 | Disposable Display Covers - Clear |
| 10039515 | Shoulder strap | 10090902 | Tripod Adaptor |
| 10040226 | Retractable Lanyard | | Note: US Export Restrictions may apply. |



Service Solutions
Software Solutions



MSA offers a variety of test benches for your workshop with manual or automatically recorded test results. From the mobile test case Multitest to the stationary computer supported test bench smartCHECK, your equipment will be tested to the highest professional standards.

All MSA test benches meet the industry standards and manufacturer regulations for the testing of compressed air breathing apparatus, full face masks, demand valves and chemical protective suits.

MSA TecBOS Workshop and Asset Management Software is an integrated system solution with maximum efficiency and transparency over daily tasks.

TecBOS supports numerous types of equipment, e.g. for respiratory protection, portable instruments, fire extinguishers, vehicles, radio communications and hoses. This equipment can be anything with a barcode or transponder, and not only personal protective equipment.

It can record equipment testing dates, upcoming services, as well as the storing of documentation relating to work carried out, spare parts used and test results.

Service **Solutions**

SmartCHECK and Multitest

SmartCHECK



- Network capable.
- Next generation compact desktop style.
- Includes software.
- Fully automatic.
- Touchscreen operation with wizard.
- Automated static testing for full face masks and demand valves.
- All standard static tests for low and medium pressure.
- Artificial lung allows full range of dynamic testing at high pressure.
- 30 kg

| PART NO: | Description |
|------------|-----------------------|
| 10107176LT | SmartCHECK Test Bench |

SmartCHECK.basic



- Network capable.
- Next generation compact desktop style.
- Includes software.
- Fully automatic.
- Touchscreen operation with wizard.
- Automated static testing for full face masks and demand valves.
- All standard static tests for low and medium pressure.
- 23 kg.

| PART NO: | Description |
|-----------|-----------------------------|
| 10107176T | SmartCHECK.basic Test Bench |

Multitest Plus Test Console

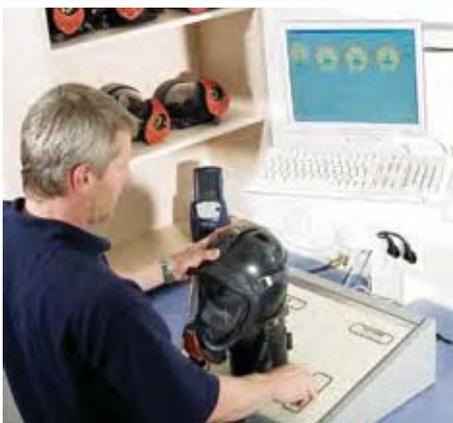


- Tests for masks and lung governed demand valves at low and medium pressure
- Activation of positive or negative pressure by battery operated pump
- Protective suit testing possible with accessories
- Low pressure gauge +/- 30 mbar
- Medium pressure manometer 0-16 bar

| PART NO: | Description |
|----------|-----------------------------------|
| 5175744 | Multitest Plus Test Console |
| 5175743 | Multitest Plus Test in Carry Case |

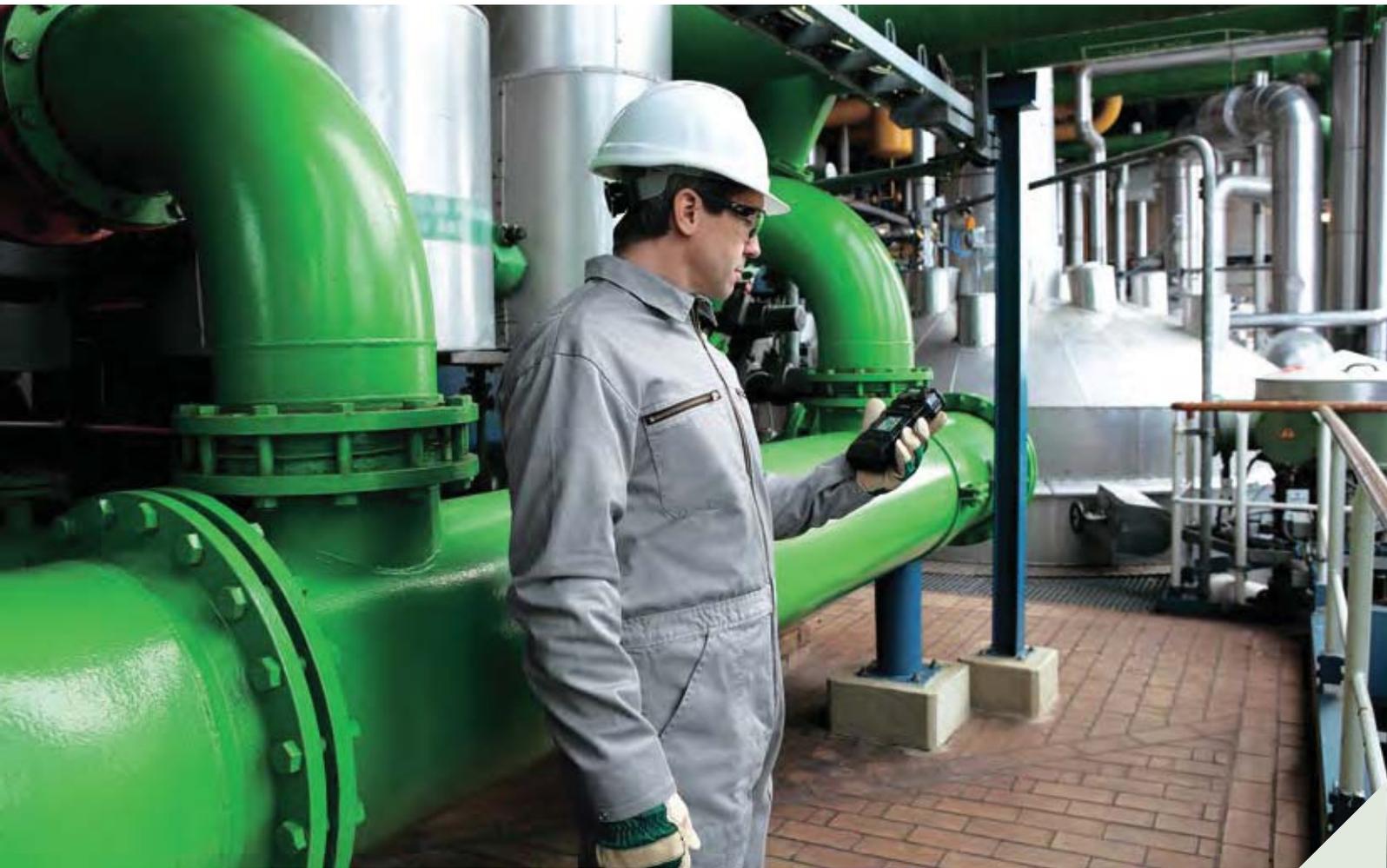
Software **Solutions**

TecBOS.Tech Workshop and Asset Management Software



- Provides testing interface when connected to MSA SmartCHECK or ProfiCHECK
- Workshop Management System
- Inventory Management
- Records equipment test dates, upcoming service, documentation storage and parts used
- Asset Management using TecBos.Tech
- Comprehensive asset and inventory management
- Barcode and RFID tracking (scanner optional)
- Deadline monitoring for devices including preview of future requirements

| PART NO: | Description |
|----------|---|
| 10126010 | TecBOS.Tech - Professional |
| 10053036 | TecBOS.Tech - Professional subsequent licence |



Portable Gas Detection
Calibration Accessories
Fixed Gas & Flame Detection (FGFD)



Battery-powered, direct-reading portable instruments are classified into two groups - single-gas instruments or multiple-gas instruments. Depending on the capabilities of the instrument, monitoring can be conducted simultaneously for oxygen and combustible gas, or for oxygen, combustible gas and toxic gases. These devices are commonly referred to as 2-in-1, 3-in-1, 4-in-1 or 5-in-1 alarms.

No matter which type of portable instrument is used to check environmental gas concentrations, regular monitoring should be performed because a contaminant's level of combustibility or toxicity might increase even if it initially appears to be low or non-existent.

MSA offers a wide variety of portable and permanent gas monitoring solutions to detect combustible gases, toxic gases, oxygen deficiency/enrichment.

Our instruments reflect the latest developments in sensor and instrumentation design, using electrochemical, catalytic bead, photoacoustic infrared (PIR) and both point and open path infrared sensing technologies, and offer wireless communication capabilities.

We offer a wide range of systems to meet your facility's monitoring needs: from a single sensor in a stand-alone application to a large-scale, completely integrated installation consisting of thousands of sensing points. MSA also designs custom systems that are tailored to fit unique monitoring requirements.

Contact your MSA representative for more information and ordering information.

Understanding Environmental Surveillance

Battery-powered, direct-reading instruments are classified as two groups - single-gas instruments or multiple-gas instruments - typically monitoring one or a combination of the following atmospheric conditions:

1. oxygen deficiency or enrichment;
2. the presence of combustible gas; and
3. the presence of certain toxic gases.

Depending on the capabilities of the instrument, monitoring can be conducted simultaneously for oxygen and combustible gas, or for oxygen, combustible gas and toxic gases. These devices are commonly referred to as 2-in-1, 3-in-1, 4-in-1 or 5-in-1 alarms.

No matter which type of instrument is used to check environmental gas concentrations, regular monitoring should be performed because a contaminant's level of combustibility or toxicity might increase even if it initially appears to be low or non-existent. In addition, oxygen deficiency can occur unexpectedly.

Atmospheric Composition

To determine the composition of an atmosphere, reliable instruments should be used to draw air samples. If possible, do not open the entry portal to the confined space before this step has been completed. Sudden changes in atmospheric composition within the confined space could cause violent reactions, or dilute the contaminants in the confined space, giving a false low initial gas concentration.

When testing permit-required spaces for acceptable entry conditions, always test in the following order:

1. oxygen content
2. flammable gases and vapors
3. potential toxic air contaminants



Figure 1

Comprehensive testing should be conducted in various locations within the work area. Some gases are heavier than air, and tend to collect at the bottom of a confined space. Others are lighter, and are usually in higher concentrations near the top of the confined space. Still others are the same molecular weight as air, so they can be found in varying concentrations throughout the space. This is why test samples should be drawn at the top, middle and bottom of the space to pinpoint varying concentrations of gases or vapors (see Figure 1). The results of the atmospheric testing will have a direct impact on the

selection of protective equipment necessary for the tasks in the area. It may also dictate the duration of worker exposure to the environment of the space, or whether an entry will be made at all. Substance-specific detectors should be used whenever actual contaminants have been identified.



Figure 2



Figure 3

Combustible Gases

In order for combustion to occur, there must be three elements:

1. fuel
2. oxygen to support combustion
3. heat or a source of ignition

This is known as the fire triangle, but if you remove any one of the legs, combustion will not occur (see Figure 2).

The percentage of combustible gas in the air is important, too. For example, a manhole filled with fresh air is gradually filled by a leak of combustible gas such as methane or natural gas, mixing with the fresh air. As the ratio of gas to air changes, the sample passes through three ranges: lean, explosive and rich (see Figure 3). In the lean range, there isn't enough gas in the air to burn. On the other hand, the rich range has too much gas and not enough air. However, the explosive range has just the right combination of gas and air to form an explosive mixture. Care must be taken, however, when a mixture is too rich, because dilution with fresh air could bring the mixture into the flammable or explosive range. An analogy is the automobile that won't start on a cold morning (a lean atmosphere because the liquid gasoline has not vaporized sufficiently), but can be flooded with too much gasoline (a rich atmosphere with too much vaporization). Eventually, when the right mixture of gas and air finally exists (explosive), the car starts.

How Combustible Gas Monitors Work

To understand how portable combustible gas detection instruments work, it is first important

to understand what is meant by the Lower Explosive Limit (LEL) and Upper Explosive Limit (UEL). When certain proportions of combustible vapors are mixed with air and a source of ignition is present, an explosion can occur. The range of concentrations over which this reaction can occur is called the explosive range. This range includes all concentrations in which a flash will occur or a flame will travel if the mixture is ignited (see Figure 3). The lowest percentage at which this can happen is the LEL; the highest percentage is the UEL.

Most combustible instruments display gas concentrations as a percentage of the LEL. Some models have gas readouts as a percentage by volume and others display both percent of LEL and percent combustible gas by volume. What's the difference? For example, the LEL of methane (the major component in natural gas) is 5 percent by volume, and the UEL is 15 percent by volume.

If we slowly fill a room with methane, when the concentration reaches 2.5 percent by volume, it is 50 percent of the LEL; at 5 percent by volume it is 100 percent of the LEL. Between 5 and 15 percent by volume, a spark could set off an explosion.

Different gases need different percent by volume concentrations to reach 100 percent of the LEL (see Figure 4). Pentane, for example, has an LEL of 1.5 percent. Instruments that measure in percent of the LEL are easy to use because, regardless of the gas, you are most concerned with how close the concentration is to the LEL.

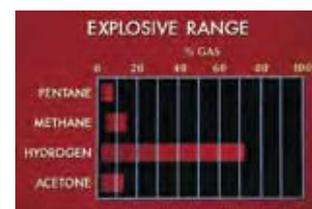


Figure 4

Single-Gas Monitors for Oxygen Deficiency

Oxygen indicators measure atmospheric concentrations of oxygen. Concentrations are generally measured over a range of 0 to 25 percent oxygen in air, with readings being displayed on either digital readout or an analog meter. Oxygen indicators are calibrated with uncontaminated fresh air containing a minimum of 20.8 percent oxygen. With some models, an alarm is activated when oxygen levels drop below 19.5 percent.

How Combustible Gas Monitors Work



Figure 5

Single-gas instruments for monitoring combustible gases and vapors are generally calibrated on pentane and are designed for general-purpose monitoring of hydrocarbon vapors. Such instruments operate by the catalytic action of a heated platinum filament in contact with combustible gases (see Figure 5). The filament is heated to operating temperature by an electric current. When the gas sample contacts the heated filament, combustion on its surface raises the temperature in proportion to the quantity of combustibles in the sample. A Wheatstone bridge circuit, incorporating the filament as one arm, measures the change in electrical resistance due to the temperature increases. This change indicates the percentage of combustible gas present in the sample.

Single-Gas Monitors for Toxic Gases

Compact, battery-powered devices can be used to measure levels of such gases as carbon monoxide (CO) or hydrogen sulfide (H₂S), depending on the model selected. Toxic gas monitors use electrochemical cells (see Figure 6). If the gas of interest enters the cell, the reaction produces a current output proportional to the amount of gas in the sample. With these instruments, audible and visible alarms sound if the gas concentration exceeds a preset level. These devices are well suited for use in confined spaces containing motors or engines, which can generate large quantities of CO, as well as in sewers, waste treatment plants and "sour crude" processing stations which tend to have hazardous volumes of H₂S.

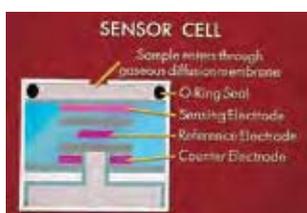


Figure 6

Multiple-Gas Monitors for Oxygen and Combustible Gas

In applications where it is necessary to determine oxygen and combustible gas levels simultaneously, 2-in-1 diffusion-type devices can be used. Sensors measure 0 to 100 percent of the LEL and oxygen from 0 to 25 percent. Remote sampling requires either a pump module or an aspirator bulb adapter.

Multiple-Gas Monitors for Oxygen, Combustible and Toxic Gases

Toxic gases and vapors, which can be inhaled or absorbed through the skin, are frequently found in confined spaces. Sometimes, these atmospheric hazards can also displace oxygen and may incapacitate the body's ability to maintain respiration. Some toxic gases and vapors can also cause long-term physical damage to the body in cases of repeated exposure.

A number of instruments are available to assist in detecting toxic gas. Pocket-size monitors operate by diffusion or an aspirator bulb. Larger instruments with built-in pumps draw samples from the immediate area or from outside the confined space work area when used with sampling lines.

Diffusion-type instruments are available for simultaneously measuring the LEL of combustible gases, oxygen levels and toxic levels (in parts per million) of H₂S, CO and other toxic gases. Alarms also alert the user to low and high oxygen levels. Remote sampling pump adapters are available to convert these diffusion-type instruments into pump-style instruments.

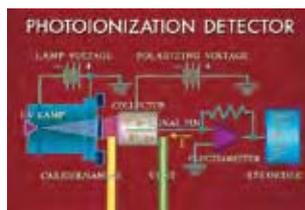


Figure 7

Photoionization Devices for Toxic Gases and Vapors

A photoionization detector, featuring micro-processor technology, uses ultraviolet light to ionize molecules of chemical substances in a gaseous or vaporous state (see Figure 7). A real-time digital readout allows the user to make an immediate determination of gas and vapor concentrations. Depending upon calibration input, gas and vapors are measured over a 0.1 to 10,000 ppm scale. Some instruments automatically compensate for signal loss due to humidity, which is inherent in all PID detectors.

Detector Tube Sampling Systems

Detector tube-type devices are recommended for conducting quick evaluations of potential hazards that cannot otherwise be measured. With detector tubes, a known volume of air is drawn through the tube, using a manually operated or battery-powered sampling pump.

If gas or vapor is present in the air, chemically treated granules in the tube are stained a different color. By measuring the length of the color stain within the tube, users can determine concentration levels.

Most tubes available today are made of glass, have break-off tips, and are filled with treated chemical granules. They generally have a shelf life of 24 to 30 months.

One type of pump frequently used with a detector tube is a compact, bellows-type device. Accurate and repeatable sample flows can be assured by a shaft that guides the bellows during compression. Some models feature an end-of-stroke indicator that lets the user know when a full air sample has been drawn. Models with an integral stroke counter eliminate the tedious recording of multiple pump strokes.

Personal Sampling

Personal sampling is used to determine the concentration of airborne contaminants. Personal sampling pumps are designed to measure individual workers' exposures, so they typically are lightweight, belt-mounted, battery-powered devices.

The process of sampling entails drawing a predetermined volume of air through a filter designed to trap contaminants. The filter is contained in a plastic cassette, which is attached by plastic tubing to a sampling pump calibrated to draw a specific, known volume of air into the filter. After air samples are drawn, the filters are sent to a laboratory where they are examined to determine the level of exposure.

Personal sampling determines the concentration found in the "breathing zone" or the area near the worker's face, which is usually measured at or near the collar or lapel.

Calibration

To ensure the accuracy of all monitoring and detection equipment, calibration should be performed regularly. If the instrument reading differs significantly from the values of the known standard, the instrument should not be used until it has been adjusted or, if necessary, repaired.

Portable Instrumentation

Gas Detectors

ALTAIR® 2X

ALTAIR 2X Gas Detector from MSA; the first one - or two-gas detector that incorporates industry-leading XCell Sensor technology to deliver unparalleled performance while dramatically minimising total cost of ownership, increasing durability and delivering enhanced worker safety, compliance and traceability.

ALTAIR 2XP Gas Detector – with XCell Pulse Technology

Compliance, Traceability and Simplicity without Compromising Safety



- The industry best practice of conducting a bump test prior to each day's use is easily achieved with the ALTAIR 2XP. Bump anywhere, any time, without bottled gas or accessories.
- Visual indicators on the detector make verification of bump test easy
- Highly visible green light verifies successful bump test (green light, check mark)
- Flashes red when not bumped
- The ALTAIR 2X family of detectors have full instrument traceability of bump and calibration records, peak readings, event logs and data logs.

ALTAIR 2XT – Two-Tox Gas Detector

The ALTAIR 2XT Detector eliminates the need for a second detector by utilising proven XCell Two-Tox Sensors. XCell Two-Tox Sensors detect two gases on distinct sensor channels with digital output that minimises cross-channel interference.

ALTAIR 2X – Single-Gas Detector

MSA revolutionised gas detection with XCell Sensor technology. By miniaturising the sensors' controlling electronics and placing them inside the sensor itself using MSA's proprietary application-specific integrated circuit (ASIC) design, MSA XCell Sensors offer superior stability, accuracy, and sensor life.



| FEATURES | BENEFITS |
|---|---|
| VARIETY OF OPTIONS | <ul style="list-style-type: none"> • ALTAIR 2X Single-Gas Detectors with XCell Sensors • ALTAIR 2XP Single-Gas Detector with XCell Pulse Technology • ALTAIR 2XT Two-Tox Gas Detectors with XCell Two-Tox Sensors |
| LOW COST OF OWNERSHIP | <ul style="list-style-type: none"> • Fastest sensor response times, lowest calibration gas flow rate on the market • 4-year expected instrument & sensor life • 3-year warranty on instrument & most sensors (2 years on Cl₂, NH₃) • Stand-alone bump tests reduce maintenance, increase productivity (ALTAIR 2XP Detector only) • 1 device can monitor 2 gases (ALTAIR 2XT Detector only) |
| INCREASED SAFETY AWARENESS & REAL-TIME COMPLIANCE | <ul style="list-style-type: none"> • Stand-alone bump test anytime, anywhere without bottled calibration gas (ALTAIR 2XP Detector only) • BUMP PASS: green LED flash every 15s, large on-screen checkmark for real-time compliance • BUMP FAIL: red LED flash every 15s, no checkmark • End-of-sensor-life warning and alarm |
| FULL-TIME TRACEABILITY | <ul style="list-style-type: none"> • Records 75 alarm events and over 100 hours of periodic data, including bump and calibration records • Compatible with MSA GALAXY® GX2 Automated Test System and MSA Link Pro Software |
| RUGGED DURABILITY | <ul style="list-style-type: none"> • Tough over-molded rubber armor • Survives multiple 7.5m drops onto concrete • Agency-certified dust- and water-tight IP67 and intrinsically-safe construction |
| EASY TO USE | <ul style="list-style-type: none"> • 1-button, gloved hand operation • Large LCD, characters, and status icons • onscreen step-by-step user instructions for stand-alone bump test (ALTAIR 2XP Detector only) • 10s backlight with adjustable timeout |

| DETECTOR TYPE (LOW, HIGH ALARM IN PPM) | CHARCOAL | GLOW-IN-THE-DARK | REPLACEMENT SENSOR |
|---|----------|------------------|--------------------|
| ALTAIR® 2X SINGLE GAS DETECTOR | | | |
| CO (25, 100) | 10153986 | 10154185 | 10152603 |
| CO-H ₂ * (25, 100) | 10154074 | 10154186 | 10152604 |
| CO-HC* (25, 100) | 10154075 | 10154187 | 10152602 |
| H ₂ S-LC* (5, 10) | 10154076 | 10154189 | 10152605 |
| SO ₂ (2, 5) | 10154077 | 10154191 | 10152607 |
| NO ₂ * (2.5, 5) | 10154078 | 10154192 | 10152606 |
| NH ₃ * (25, 50) | 10154079 | - | 10152601 |
| Cl ₂ * (0.5, 1) | 10154080 | - | 10152600 |

| DETECTOR TYPE (LOW, HIGH ALARM IN PPM) | CHARCOAL | GLOW-IN-THE-DARK | REPLACEMENT SENSOR |
|---|----------|------------------|--------------------|
| ALTAIR® 2XP - WITH XCELL PULSE TECHNOLOGY | | | |
| H ₂ S-PULSE (10, 15) | 10153984 | 10154188 | 10121227 |
| ALTAIR® 2XT TWO-TOX GAS DETECTOR | | | |
| CO/H ₂ S (CO:25, 100; H ₂ S: 10, 15) | 10154040 | 10154181 | 10152603 |
| CO-H ₂ /H ₂ S (CO: 25, 100; H ₂ S: 10, 15) | 10154071 | 10154182 | 10152604 |
| CO/H ₂ S-LC (CO: 25, 100; H ₂ S: 5, 10) | 10154072 | 10154183 | 10152605 |
| CO/NO ₂ (CO: 25, 100; NO ₂ : 2.5, 5) | 10154073 | 10154184 | 10152606 |
| SO ₂ /H ₂ S-LC (SO ₂ : 2, 5; H ₂ S: 10, 15) | 10153985 | 10154190 | 10152607 |

ALTAIR® Maintenance-Free Single-Gas Detector



| INSTRUMENT TYPE | PART NO. | LOW ALARM | HIGH ALARM |
|--------------------------------------|----------|-----------|------------|
| CARBON MONOXIDE (CO) | 10092522 | 25 PPM | 100 PPM |
| HYDROGEN SULFIDE (H ₂ S) | 10092521 | 10 PPM | 15 PPM |
| OXYGEN (O ₂) | 10092523 | 19.5% VOL | 23% VOL |
| ALTERNATE SET POINT MODELS | PART NO. | LOW ALARM | HIGH ALARM |
| CARBON MONOXIDE (CO) | 10071334 | 30 PPM | 60 PPM |
| CARBON MONOXIDE (CO) | 10071335 | 35 PPM | 100 PPM |
| CARBON MONOXIDE (CO) | 10071337 | 50 PPM | 200 PPM |
| CARBON MONOXIDE (CO) | 10071338 | 100 PPM | 300 PPM |
| HYDROGEN SULPHIDE (H ₂ S) | 10071340 | 10 PPM | 200 PPM |
| HYDROGEN SULPHIDE (H ₂ S) | 10071361 | 5 PPM | 10 PPM |
| HYDROGEN SULPHIDE (H ₂ S) | 10071362 | 8 PPM | 12 PPM |
| HYDROGEN SULPHIDE (H ₂ S) | 10071363 | 7 PPM | 14 PPM |
| OXYGEN (O ₂) | 10071364 | 19.5% VOL | 18% VOL |

Alarm System

- 95 dB audible alarm (distinct sounds for High and Low alarms).
- Dual LEDs positioned to be seen from all angles.
- Standard vibrating alarm and standard event logging.

Warranty

- Two years or 18 hours of alarm (1080 minutes).

Durability Features

- Hard polycarbonate case, encapsulated in a thick rubberized shell.
- Extremely resistant to drops and impacts.
- Rated to IP67 protection levels for dust/water ingress.

ALTAIR® Pro Single-Gas Detector



- Tough rubberized housing.
- One-button operation.
- Accurately measures the gas concentration or percent oxygen.
- Displays information on a large, clear, backlit LCD.
- Superior dust and water protection (rated IP67).
- Event-logging and data-logging .
- Excellent impact resistance .

- Versions available for O₂, ClO₂, HCN and PH₃.
- Great RFI performance.
- Adjustable alarm set points are offered for LOW, HIGH, TWA and STEL.
- Alarms are indicated by flashing LEDs, an audible alarm, and an internal vibrating alarm.
- Replaceable battery and sensor.

| INSTRUMENT TYPE | PART NO. | LOW ALARM | HIGH ALARM | STEL | TWA |
|--------------------------------------|----------|-----------|------------|---------|---------|
| OXYGEN (O ₂) | 10074137 | 19.50% | 23.00% | N/A | N/A |
| HYDROGEN CYANIDE (HCN) | 10076729 | 4.7 PPM | 15 PPM | 10 PPM | 4.7 PPM |
| CHLORINE DIOXIDE (ClO ₂) | 10076717 | 0.1 PPM | 1.0 PPM | 0.3 PPM | 0.1 PPM |
| PHOSPHINE (PH ₃) | 10076735 | 0.3 PPM | 1.0 PPM | 1.0 PPM | 0.3 PPM |

ALTAIR® 4X eXtreme Multigas Detector

ALTAIR® 4X Multigas Detector (IECEX), with data logging feature, charger, calibration cap & tubing, CD manual

Features

- MotionAlert™ feature plus audible, visual, and vibrating alarms.
- Most rugged instrument available.
- ALTAIR® 4X Oxygen expected life 5+ years under normal operating conditions.
- Large buttons for easy operation.
- 20-hour battery run time when fully charged.
- NSW Underground Mines Registered.
- Tested to IP67.
- Phosphorescent "Glow" case option.
- Galaxy® GX2 Automated System compatible.
- Global approvals.
- Economically priced.
- MSA Link™ Software-ready.



MSA XCell sensors



| | | |
|--------------------------------------|---|---|
| ALTAIR® 4X eXtreme Multigas Detector | 10110447 | ALTAIR® 4X (LEL, O2, CO, H2S) Charcoal, 3 Yr Warranty |
| | 10110450 | ALTAIR® 4X eXtreme Glow (LEL, O2, CO, H2S) 5 Yr Warranty |
| | 10110448 | ALTAIR® 4X (LEL, O2, CO) Charcoal, 3 Yr Warranty |
| | 10110447K | ALTAIR® 4X Kit - Standard Charcoal Unit |
| | 10110450K | ALTAIR® 4X Kit - Extreme Glow |
| | 10110447KP | ALTAIR® 4X Kit - Standard Charcoal Unit with Pump Probe |
| | 10110450KP | ALTAIR® 4X Kit - Extreme Glow with Pump Probe |
| | 10110451 | ALTAIR® 4X eXtreme Glow (LEL, O2, CO) 5 Yr Warranty |
| | 10110449 | ALTAIR® 4X (LEL, O2) Charcoal, 3 Yr Warranty |
| | 10110452 | ALTAIR® 4X eXtreme Glow (LEL, O2) 5 Yr Warranty |
| | 10125757 | ALTAIR® 4X (CH4, O2, CO, NO2) Charcoal Registered 3Yr Wty |
| | 10125758 | ALTAIR® 4X (CH4, O2, CO, NO2) Glow Mines Registered 5Yr Wty |
| | 767546 | ALTAIR® 4X (LEL, O2, CO/NO2) Charcoal |
| | 767547 | ALTAIR® 4X (LEL, O2, CO/NO2) Glow |
| | 10110447KVC | ALTAIR® 4X Kit Standard Charcoal (LEL, O2, CO, H2S) c/w Vehicle Charger |
| | 10110450KVC | ALTAIR® 4X Kit Glow (LEL, O2, CO, H2S) c/w Vehicle Charger |
| 10110447VC | ALTAIR® 4X Charcoal, (LEL, O2, CO, H2S) c/w Vehicle Charger | |
| 10110450VC | ALTAIR® 4X Glow, (LEL, O2, CO, H2S) c/w Vehicle Charger | |

ALTAIR® Pump Probe

The ALTAIR Pump Probe is durable and simple to use, its powerful pump can draw through 15 metres of tubing for remote sampling applications. The Altair Pump Probe is also equipped with status indicators, audible and visual alarms for low flow and low battery warnings. The ALTAIR Pump Probe is approved for use in most hazardous locations and is an intrinsically safe instrument.

- Rechargeable Li-ion battery
- Can be charged with the standard ALTAIR 4X charger
- Sample draw speed 10 ft per 1 second
- Alarms for low battery and flow restriction
- Charge time less than 4 hours
- Run time 24 hours at 25 degrees C with maximum 15 metres sample line attached
- Over-moulded static dissipative rubber housing
- Conductive wand and coiled tubing
- Rated to IP65

| | | |
|--------------------|----------|---------------------------------|
| ALTAIR® Pump Probe | 10152668 | ALTAIR® PUMP PROBE WITH CHARGER |
| | 10153040 | ALTAIR® PUMP PROBE NO CHARGER |

*Altair 4X Instrument Not Included.



ALTAIR 4X Multigas Detector Accessories

| Category | Part No. | Description | Category | Part No. | Description |
|-------------------------|----------|---|-----------------------|--------------------|---|
| CALIBRATION ACCESSORIES | 467895 | Regulator 0.25 lpm Model RP | SENSORS / SPARE PARTS | 10106722 | Kit, XCell Ex combustible sensor |
| | 10089321 | Calibration assembly (cap, tube, connector) | | 10106729 | Kit, XCell O2 sensor |
| | 10048280 | 34L Quad gas mix (1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S) | | 10106725 | Kit, XCell CO/H2S two-tox sensor |
| | 10045035 | 58L Quad gas mix (1.45% CH4, 15% O2, 60 ppm CO, 20 ppm H2S) | | 10121213 | Kit, XCell CO/H2S-LC two-tox sensor |
| POWER SUPPLY | 10127425 | Galaxy GX2 Multi Unit Charger 4/4X | | 10121217 | Kit, XCell CO/NO2 two-tox sensor |
| | 10089487 | Charger Cradle + Power Supply Altair 4X | | 10110030 | Front housing with integrated dust filters (Charcoal) |
| | 10095774 | Vehicle charger | | 10110029 | Front housing with integrated dust filters (Phosphorescent) |
| | 10127143 | Spare Part, GX2/Charger/Altair, Power Cord Australia | | 10106621 | Main board with battery pack |
| ACCESSORIES | 10069894 | Stainless steel suspender clip | | 10110061 | LCD frame assembly (frame, LCD, zebra strips, screws) |
| | 10088099 | MSA Link™ Software CD-ROM | | 10110062 | Sensors gasket, Phillips screws (4x), self-tapping (2x) |
| | 10082834 | JetEye IR Adapter with USB connector | SAMPLING LINES | 10153103 | 10 foot polyurethane |
| | 10050333 | Hand aspirator assembly | | 10153104 | 25 foot polyurethane |
| | | | | 10153105 | 50 foot polyurethane |
| | | 10151096 | | 10 foot conductive | |
| | | 10151104 | | 25 foot conductive | |
| | | | 10151097 | 50 foot conductive | |

*Contact MSA for other available combinations.

ALTAIR® 5X Multigas Detector and PID



MSA's new ALTAIR 5X Multigas Detector and PID is driven by the most advanced technology available in any portable gas detector on the market. The ALTAIR 5X outlasts the competition and delivers the most functionality with integrated XCell Sensors, PID and Bluetooth technology to meet current and future needs.

Features

- Rugged detector tests levels of LEL, O2, CO, H2S and SO2, and other toxic gases
- Integrated PID sensor option for detection of VOCs.
- Rapid bump test gives results in under 15 seconds
- MotionAlert™ feature - "man-down" alarm
- InstantAlert™ feature - manual alarm
- Large Buttons for Easy Operation
- Durable XCell® sensors last longer than 3 years
- Rugged housing protects detector from drops of up to 10 feet
- Xcell Sensor End Of Life Indicator
- Bluetooth Wireless Connectivity
- Economically priced.
- MSA Link™ Software-ready.



| PART NO: | Description |
|---------------------|--|
| 768415 | ALTAIR 5X PID, Colour, LEL, O2, CO, H2S, 10.6eV, reactive sampling line and probe |
| 768416 | ALTAIR 5X PID, Colour, LEL, O2, CO/H2S, 10.6eV |
| 10166729 | ALTAIR® 5X PID, Colour, 2K |
| CUSTOMISED UNITS | Configuration |
| A-ALT5X-DLKB110A000 | ALTAIR 5X PID, Colour, LEL, O2, H2S, CO & CL2 |
| A-ALT5X-DLKD110A000 | ALTAIR 5X PID, Colour, LEL, O2, H2S, CO & NH3 |
| A-ALT5X-DLKA110A020 | ALTAIR 5X PID, Colour, LEL, O2, SO2, CO, H2S, 10.6eV |
| A-ALT5X-DLKA110A000 | ALTAIR 5X PID, Colour, LEL, O2, SO2, CO, H2S, 10.6eV |
| A-ALT5X-DLKC110A010 | ALTAIR 5X PID, Colour, LEL, O2, NO2, CO, H2S, 10.6eV, sample line and probe |
| A-ALT5X-DLKD110A020 | ALTAIR 5X PID, Colour, LEL, O2, NH3, CO, H2S, 10.6eV, reactive sample line and probe |
| A-ALT5X-DLKF110A020 | ALTAIR 5X PID, Colour, LEL, O2, HCN, CO, H2S, 10.6eV, reactive sample line and probe |

ALTAIR® 5X Multigas Detector

- Can measure up to six gases simultaneously when IR unit is used.
- Extended range covering SO₂, Cl₂, and NH₃.
- Superior stability, accuracy, repeatability, fast response and longevity.
- Long-lasting - designed for an average life of more than four years (more than three years for SO₂, Cl₂, and NH₃).
- Faster response/clear times.
- Greater signal stability and repeatability under changing or extreme environmental conditions and are plug-and-play-capable.
- Option of a glow in the dark housing for all IR sensor equipped instruments.
- Rugged detector tests levels of LEL, O₂, CO, H₂S and SO₂, and other toxic gases
- Rapid bump test gives results in under 15 seconds
- Versatile MSA Link™ Software allows user to transmit data to a computer
- Exclusive MotionAlert™ option tells others that user has become immobile
- InstantAlert™ Panic Button provides manual alarm to alert others of a dangerous situation
- Large buttons and bright display provide easy operation, even when user is wearing gloves
- Available glow-in-the-dark housing makes it easy to see in a confined space
- Durable XCell® sensors last longer than 3 years
- Rugged housing protects detector from drops of up to 10 feet
- Exclusive end-of-sensor warning cautions user when unit's sensor must be changed
- Polycarbonate housing is both dust-tight and water-tight

Warranties: Standard - 3 Years | Infrared - 5 Years



MSA XCell sensors

Galaxy GX2 and MSA Link Pro Software allows for automated calibration, bump testing and "feet management".

ALTAIR® 5X Colour Screen Units

| PART NO: | DESCRIPTION |
|----------|---|
| 767518 | ALTAIR® 5X, SO ₂ COLOUR |
| 767298 | ALTAIR® 5X CO NO ₂ COLOUR |
| 10119665 | ALTAIR® 5X LEL O ₂ CO H ₂ S NO ₂ COLOUR |
| 10119668 | ALTAIR® 5X LEL O ₂ CO H ₂ S COLOUR |
| 10119670 | ALTAIR® 5X LEL O ₂ CO H ₂ S SO ₂ COLOUR |
| 10119671 | ALTAIR® 5X LEL O ₂ CO H ₂ S HCN COLOUR |
| 10119672 | ALTAIR® 5X LEL O ₂ CO H ₂ S CL ₂ COLOUR |
| 10119673 | ALTAIR® 5X LEL O ₂ CO H ₂ S PH ₃ COLOUR |
| 10122118 | ALTAIR® 5X LEL O ₂ CO H ₂ S NH ₃ COLOUR |
| 767363 | ALTAIR® 5X O ₂ CO H ₂ S NO ₂ COLOUR |
| 767367 | ALTAIR® 5X LEL O ₂ HCN NH ₃ COLOUR |
| 767529 | ALTAIR® 5X, LEL, CO, H ₂ S, SO ₂ , NH ₃ COLOUR |
| 767923 | ALTAIR® 5X, LEL, O ₂ , NO, NO ₂ COLOUR |
| 767803 | ALTAIR® 5X LEL, O ₂ , NO ₂ , CL ₂ COLOUR |
| 767804 | ALTAIR® 5X LEL, O ₂ , PH ₃ , SO ₂ COLOUR |
| 767828 | ALTAIR® 5X LEL, O ₂ , CO/NO ₂ , SO ₂ COLOUR |

ALTAIR® 5X Methane Optimised LEL Sensors for Mining & Gas Applications

| PART NO: | DESCRIPTION |
|-----------|---|
| 10119665M | ALTAIR® 5X CH4 OPTIMISED, O ₂ CO H ₂ S NO ₂ MINING COLOUR |
| 767474M | ALTAIR® 5X LEL, O ₂ , CO, H ₂ S, NH ₃ MINING COLOUR |
| 767474MCE | ALTAIR® 5X LEL, O ₂ , CO, NO ₂ , NH ₃ MINING COLOUR |
| 767896 | ALTAIR® 5X, CH4 OPTIMISED, O ₂ , CO, H ₂ S MINING COLOUR |
| 767894 | ALTAIR® 5X CH4 OPTIMISED, O ₂ , SO ₂ , CO/H ₂ S CHARCOAL MINING COLOUR |

ALTAIR® 5X Monochrome Screen Units

| PART NO: | DESCRIPTION |
|----------|---|
| 10119666 | ALTAIR 5X LEL O ₂ CO H ₂ S NO ₂ MONO |
| 10119669 | ALTAIR 5X LEL O ₂ CO H ₂ S SO ₂ MONO |
| 10119667 | ALTAIR 5X LEL O ₂ CO H ₂ S MONO |
| 767376 | ALTAIR 5X LEL O ₂ MONO |
| 767245 | ALTAIR 5X LEL O ₂ CO H ₂ S HCN MONO |
| 767248 | ALTAIR 5X LEL O ₂ CO H ₂ S NH ₃ MONO |
| 767654 | ALTAIR 5X NO ₂ 0-20, SO ₂ MONO |
| 767248K | ALTAIR 5X LEL O ₂ CO H ₂ S NH ₃ MONO |

ALTAIR® 5X Infrared Methane Detector Combinations

| PART NO: | DESCRIPTION |
|----------|---|
| 767388 | ALTAIR® 5X IR CHARCOAL LEL O ₂ CO H ₂ S CL ₂ CH4 100% VOL COLOUR |
| 767713 | ALTAIR® 5X CH4 OPTIMISED, O ₂ , CO, H ₂ S, CH4 100% VOL COLOUR |
| 10119677 | ALTAIR® 5X IR LEL O ₂ CO H ₂ S NH ₃ CH4 100% VOL Mono |
| 767321 | ALTAIR® 5X IR LEL O ₂ CO H ₂ S CH4 100% VOL COLOUR |
| 767359 | ALTAIR® 5X IR CH4 100% VOL COLOUR |
| 767321K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S CH4 100% VOL COLOUR |

ALTAIR® 5X Infrared Butane Detector Combinations

| PART NO: | DESCRIPTION |
|----------|--|
| 767449 | ALTAIR® 5X IR LEL, O ₂ , CO, H ₂ S, BUTANE 25% VOL |

ALTAIR® 5X Infrared Propane Detector Combinations

| PART NO: | DESCRIPTION |
|----------|--|
| 767584 | ALTAIR® 5X IR LEL, O ₂ , CO, H ₂ S, PROPANE 0-100% LEL |

ALTAIR® 5X Infrared CO₂ Detector Combinations

| PART NO: | DESCRIPTION |
|----------|---|
| 767352M | ALTAIR® 5X IR GLOW CH4 OPTIMISED O ₂ CO H ₂ S NO ₂ CO ₂ COLOUR - MINING |
| 767871 | ALTAIR® 5X IR CH4 OPTIMISED LEL, O ₂ , NO ₂ , SO ₂ , CO ₂ (10%), COLOUR |
| 767343 | ALTAIR® 5X IR CHARCOAL O ₂ , SO ₂ , CO ₂ (IR) COLOUR |
| 767519 | ALTAIR® 5X IR GLOW CH4 OPTIMISED SENSOR O ₂ CO H ₂ S CO ₂ (10%) COLOUR |
| 10119678 | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S CO ₂ (10%) COLOUR |
| 767351 | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S NH ₃ CO ₂ COLOUR |
| 767352 | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S NO ₂ CO ₂ COLOUR |
| 767306 | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S SO ₂ , CO ₂ (IR) COLOUR |
| 10119674 | ALTAIR® 5X IR LEL O ₂ CO H ₂ S CO ₂ MONOCHROME |
| 767351K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S NH ₃ CO ₂ COLOUR |
| 767306K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S SO ₂ , CO ₂ COLOUR |
| 767238 | ALTAIR® 5X IR LEL O ₂ CO ₂ |
| 767714 | ALTAIR® 5X IR, CO ₂ COLOUR DISPLAY. |
| 767951 | ALTAIR® 5X IR LEL, O ₂ , CO, NO ₂ , SO ₂ , CO ₂ COLOUR |
| 767922 | ALTAIR® 5X IR CH4 OPTIMISED, CO/H ₂ S, NO ₂ , SO ₂ , CO ₂ MONO SCREEN |
| 767686 | ALTAIR® 5X IR, CO ₂ , ATEX (European Certification for New Caledonian Sales Only) |

ALTAIR® 5X Kits (Contains: Instrument, Regulator, Calibration Tubing, Calibration Gas Cylinder, Operating Manual all in a foam lined carry case)

| PART NO: | DESCRIPTION |
|------------|--|
| 10119665MK | ALTAIR® 5X CH4 OPTIMISED O ₂ CO H ₂ S NO ₂ COLOUR - MINING KIT |
| 767713K | ALTAIR® 5X CH4 OPTIMISED, O ₂ , CO, H ₂ S, CH4 (IR) 0-100% VOL COLOUR KIT |
| 10119672K | ALTAIR® 5X LEL O ₂ CO H ₂ S CL ₂ COLOUR KIT |
| 10119668K | ALTAIR® 5X LEL O ₂ CO H ₂ S COLOUR KIT |
| 10119671K | ALTAIR® 5X LEL O ₂ CO H ₂ S HCN COLOUR KIT |
| 767245K | ALTAIR® 5X LEL O ₂ CO H ₂ S HCN MONO, KIT |
| 10119667K | ALTAIR® 5X LEL O ₂ CO H ₂ S MONO KIT |
| 10122118K | ALTAIR® 5X LEL O ₂ CO H ₂ S NH ₃ COLOUR KIT |
| 10119665K | ALTAIR® 5X LEL O ₂ CO H ₂ S NO ₂ COLOUR KIT |
| 10119666K | ALTAIR® 5X LEL O ₂ CO H ₂ S NO ₂ MONO KIT |
| 10119673K | ALTAIR® 5X LEL O ₂ CO H ₂ S PH ₃ COLOUR KIT |
| 10119670K | ALTAIR® 5X LEL O ₂ CO H ₂ S SO ₂ COLOUR KIT |
| 767896K | ALTAIR® 5X, CH4 OPTIMISED, O ₂ , CO, H ₂ S MINING KIT |
| 10119669K | ALTAIR® 5X LEL O ₂ CO H ₂ S SO ₂ MONO KIT |
| 767448K | ALTAIR® 5X IR LEL, O ₂ , CO, H ₂ S, BUTANE 25% VOL, KIT |
| 767584K | ALTAIR® 5X IR LEL, O ₂ , CO, H ₂ S, PROPANE 0-100% LEL KIT |
| 767828K | ALTAIR® 5X LEL, O ₂ , CO/NO ₂ , SO ₂ COLOUR KIT |
| 767951K | ALTAIR® 5X IR LEL, O ₂ , CO, NO ₂ , SO ₂ , CO ₂ COLOUR KIT |
| 767735K | ALTAIR® 5X IR PROPANE 0-100% VOL KIT (NO OTHER SENSORS) |
| 767923K | ALTAIR® 5X, LEL, O ₂ , NO, NO ₂ COLOUR SCREEN KIT |
| 767343K | ALTAIR® 5X IR CHARCOAL O ₂ , SO ₂ , CO ₂ COLOUR KIT |
| 10119678K | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S CO ₂ COLOUR KIT |
| 767352K | ALTAIR® 5X IR GLOW LEL O ₂ CO H ₂ S NO ₂ CO ₂ COLOUR KIT |
| 10119675K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S CH4 MONO KIT |
| 10119674K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S CO ₂ MONO KIT |
| 10119677K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S NH ₃ CH4 MONO KIT |
| 10119676K | ALTAIR® 5X IR LEL O ₂ CO H ₂ S NO ₂ CH4 MONO KIT |

*Contact MSA for other combinations available.

Mono and Colour refer to display screen type

*Selection may change without notification

ALTAIR 5X Multigas Detector Accessories

| | | | |
|-----------------------------------|--------------------------------|---|---|
| SPARE PARTS / REPLACEMENTS | 10114836 | Battery Rechargeable Li-Polymer Altair 5X 5AA | |
| | 10114838 | Battery Pack Alkaline Altair 5X SAA Charcoal | |
| | 10114851 | Battery Altair 5X IR Charcoal | |
| | 10114852 | Battery Altair 5X IR Glow | |
| | 10094830 | Kit, belt clip replacement | |
| | 10083591 | Filter cover assembly | |
| | 10114949 | Maintenance kit | |
| | 10114950 | Maintenance kit, Cl ₂ , ClO ₂ , NH ₃ | |
| | 474555 | Shoulder strap | |
| | 10050976 | Retractable line with belt clip | |
| | 10099648 | Holster, leather | |
| | 10099397 | Vehicle charger | |
| | 10114853 | Front housing with integrated filters | |
| | 10127427 | Multi-unit charger, Altair 5X Detector 4-unit | |
| | CALIBRATION ACCESSORIES | 10034391 | Regulator Demand Flow Universal |
| | | 10045035 | 58L RP 60 ppm CO, 20 ppm H ₂ S, 15% O ₂ , 1.45% CH ₄ |
| 10103262 | | 58L RP 60 ppm CO, 20 ppm H ₂ S, 15% O ₂ , 1.45% CH ₄ , 2.5% CO ₂ | |
| 10117738 | | 58L RP 60 ppm CO, 20 ppm H ₂ S, 15% O ₂ , 1.45% CH ₄ , 10 ppm SO ₂ | |
| 10048280 | | 34L Econo-Cal® Cylinder, 60 ppm CO, 20 ppm H ₂ S, 15% O ₂ , 1.45% CH ₄ | |
| 10048789 | | 34L Econo-Cal Cylinder, 60 ppm CO, 15% O ₂ , 1.45% CH ₄ | |
| 10098855 | | 34L Econo-Cal Cylinder, 60 ppm CO, 20 ppm H ₂ S, 15% O ₂ , 1.45% CH ₄ , 10 ppm SO ₂ | |
| 711068 | | 34L Econo-Cal Cylinder, 10 ppm NO, air balance | |
| SAMPLING ACCESSORIES | 10040665 | Sampling line with quick-disconnect, 10-ft polyurethane | |
| | 10040664 | Sampling line with quick-disconnect, 25-ft polyurethane | |
| | 10049058 | Sampling line with quick-disconnect, 10-ft teflon | |
| | 10049057 | Sampling line with quick-disconnect, 25-ft teflon | |
| | 10040667 | Sampling line with quick-disconnect, 3-ft polyurethane coiled | |
| | 10105210 | Sampling line with quick-disconnect for reactive gases, 5-ft polyurethane coiled | |
| | 10105251 | Sampling line with quick-disconnect for reactive gases, 5-ft polyurethane straight | |
| | 10105839 | Sampling line with quick-disconnect for reactive gases, 10-ft teflon straight | |
| | 10042621 | Probe, 1-ft | |
| | 10042622 | Probe, 3-ft | |
| | 801582 | Filter, water stop, pack of 10 | |
| REPLACEMENT SENSORS | 10106722 | Kit, XCell Ex Sensor, combustible | |
| | 10106729 | 9 Kit, XCell O ₂ Sensor | |
| | 10106725 | Kit, XCell CO/H ₂ S two-tox sensor | |
| | 10106375 | Kit, replacement, HCN | |
| | 10106728 | Kit, XCell Cl ₂ Sensor replacement | |
| | 10080222 | Kit, replacement, ClO ₂ | |
| | 10106727 | Kit, XCell SO ₂ Sensor replacement | |
| | 10080224 | Kit, replacement, NO ₂ | |
| | 10106726 | Kit, XCell NH ₃ Sensor replacement | |
| | 10116638 | Kit, replacement, PH ₃ | |
| | 10114750 | Kit, replacement, NO | |
| | 10105650 | XCell Sensor plug | |
| | 10088192 | Sensor plug, oxygen and toxics (20 mm) | |

Portable Instruments - Calibration Accessories

GALAXY® GX2 Automated Test System



The GALAXY GX2 Automated Test System provides simple and intelligent testing and calibration of MSA ALTAIR and ALTAIR PRO Single-Gas Detectors, as well as ALTAIR 4X and ALTAIR 5X Multigas Detectors, driven by the most advanced technology available in any portable gas detector: MSA XCell Sensors.

This easy-to-use automated test stand offers high performance as either a stand-alone unit or an integrated portable detector management system, enabling total data access and control of your MSA ALTAIR Gas Detector fleet.

Once any ALTAIR Family Gas Detector is placed within the GALAXY GX2 System, it can be tested, calibrated and charged automatically. Flexibility allows for up to 10 test stations, four cylinder holders and multi-unit charger within one GALAXY GX2 System detector bank.

- Color touchscreen for ease of setup and viewing; no touch operation is needed for calibration or bump test
 - Visual indicators on GALAXY GX2 System and software
 - RFID automated calibration gas setup, status alerts and traceability
 - MSA Link Pro and MSA Link Software
 - Global platform - many language options
 - Significant cost of ownership reduction when used with MSA XCell Sensors
 - Simultaneous testing of up to 10 gas detectors
 - Securely configure gas detectors at the touch of a button
 - MSA XCell Sensor Technology
 - Your MSA ALTAIR Multigas Detectors are always ready for use
- Suitable for the entire ALTAIR family of portable gas detectors

| PART NO: | Description |
|-----------|---|
| 10128670K | Galaxy GX2 Altair® 4/4X Kit (test stand, cylinder holder and multi charger) |
| 10128666K | Galaxy GX2 Altair® 5/5X Kit (test stand, cylinder holder and multi charger) |
| 10128672K | Galaxy GX2 Altair®, Altair® Pro and Altair® 2X Kit (test stand, electronic cylinder holder) |
| 10127425 | Charger, Multi-unit, GX2, Altair® 4 and Altair® 4X |
| 10127430 | Charger, Multi-unit, GX2, Altair® 5 and Altair® 5X |
| 10105756 | Cylinder Holder Assy: GX2 (electronic), suits Altair® 4/4X and Altair® 5/5X |
| 10128672 | Test Stand Galaxy GX2, Altair®/Altair® Pro/Altair® 2X |
| 10128670 | Test Stand Galaxy GX2, Altair® 4/4X |
| 10128666 | Test Stand Galaxy GX2, Altair® 5/5X |
| 10127111 | 4 GB SD memory card |
| 10127808 | Sticker or receipt / sticker printer |
| 10126437 | Detector sticker label roll |
| 10126138 | Receipt & sticker label roll |
| 10145138 | Printer ribbon |
| 10123938 | MSA Link Pro Software key |
| 10123937 | Digital secure USB key |

Regulators

Model RP Regulators



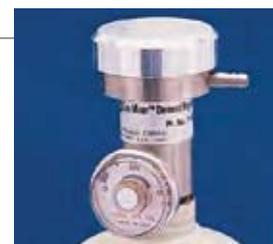
- Fixed flow rate standard regulators with or without taps.
- Used with Model RP and R type cylinders.

0.25/1.5 LPM Flow Control Model RP



Gas Miser® Demand Regulator: The Intelligent Regulator

- Nickel-plated brass and polished aluminium.
- Gas flow from 0.1 lpm to 3.0 lpm.
- Designed for use with any MSA Model RP Calibration Cylinder except chlorine and ammonia*
- Automatic ON/OFF valve that releases gas only on demand.
- Shuts off automatically.
- Can stay connected to the cylinder where it remains in a ready state.
- Cost-efficient.
- Supplied with calibration tubing and special fitting.



Gas Miser® Model RP



Gas Miser® Model BD-20

| PART NO: | Description | PART NO: | Description |
|----------|--|----------|--|
| 467895 | Gas Miser® Model RP .25 lpm† | 459949 | Gas Miser® Model 7HP 0.25 lpm |
| 478358 | Gas Miser® Model RP Cylinder 1.5 lpm | 459948 | Gas Miser® Model 7HP 1.5 lpm |
| PART NO: | Description | PART NO: | Description |
| 10034391 | Gas Miser® Model RP, Chlorine and Ammonia | 477149 | Gas Miser® Check Kit, Model RP, with 0.25 lpm regulator - does not include calibration gas |
| 710289 | Gas Miser® Model BD-20, with CGA 590 fitting | | |

* A Gas Miser® Regulator for chlorine and ammonia is available for Model RP cylinders - P/N 10034391.

† Can be used with chlorine and ammonia; replaces P/N 809945.

Portable Instruments

Calibration Gas

MSA offers a complete line of calibration gas cylinders to calibrate all instruments. The gas mixture in calibration gas cylinders is certified and prepared gravimetrically, using NIST traceable weights. The lot number and nominal value of the gas constituents in volume, percent by mass, PPM, or volume is specified on the cylinder.



| # Gases | Gas Mix | Part No. Econocal (34L) | Part No. Econocal (58L) | Part No. Econocal (116L) | Recommended Cal Gas for: |
|---------|---|----------------------------|----------------------------|-----------------------------|--|
| 1 | 100 PPM Isobutylene | 10048279 | - | 494450 | PID |
| 1 | 8% Butane in N ₂ (6L) | *10075802 | - | - | 25% vol Butane IR |
| 1 | 50% vol Methane in N ₂ | - | 10075804 | - | 100% vol Methane IR |
| 1 | 0.6% vol Propane (100L) | - | *10028034 | - | LEL Propane IR sensor |
| 1 | 50% vol Propane N ₂ | *10029475 | - | - | 100% vol Propane IR |
| 1 | 10 ppm NO ₂ in Air | 711068 | 808977 | 10150599 | NO ₂ sensor |
| 1 | 10 ppm SO ₂ in Air | 711070 | 808978 | 10150600 | SO ₂ sensor |
| 1 | 25 ppm NH ₃ in N ₂ | 711078 | 814866 | 10150611 | NH ₃ sensor |
| 1 | 10 ppm Cl ₂ in N ₂ | 711066 | 806740 | 10150612 | Cl ₂ sensor |
| 1 | 2 ppm Cl ₂ in N ₂ | *711082 | - | - | ClO ₂ |
| 1 | 10 ppm HCN in N ₂ | 711072 | 809351 | 10150614 | HCN sensor |
| 1 | 0.5 ppm PH ₃ in N ₂ | 711088 | 710533 | 10150615 | PH ₃ sensor |
| 3 | 1.45% CH ₄ , 15.0% O ₂ , 20 ppm H ₂ S | *10048790 | *10048788 | - | - |
| 3 | 2.50% CH ₄ , 15.0% O ₂ , 20 ppm H ₂ S | 10048888 | 10048889 | - | - |
| 3 | 1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO | 10048789 | 478191 | - | - |
| 3 | 2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO | *10049056 | - | - | - |
| 4 | 1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 10 ppm NO ₂ | 10058036 | 10058034 | 10150597 | - |
| 4 | 1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S | 10048280 | 10045035 | 10150595 | Standard Quad Gas |
| 4 | 2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S | 10048981 | 10048890 | 10150596 | - |
| 4 | 2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO, 10 ppm NO ₂ | 10058172 | 10058171 | 10150598 | - |
| 5 | 1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 2.5% CO ₂ | - | 10103262 | 10150606 | Standard Quad Gas + 5% or 10% CO ₂ IR |
| 5 | 1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 10 ppm SO ₂ | 10098855 | 10117738 | - | SO ₂ sensor |

Calibration Gases are now RFID enabled to suit Galaxy GX2.

*Not RFID enabled.

Fixed Gas and Flame Detection (FGFD)

Prima Series

Prima X-P Gas Monitor



Explosion-proof detection of combustibles, toxic gases, or oxygen

The PrimaX Gas Monitor offers proven quality and reliability and offers innovative enclosure design, ease of use, fast installation, and suitability for both indoor and outdoor installations make the PrimaX Gas Monitor your choice for versatile gas detection.

Features

- Standard 4-20mA output with optional relays or HART
- 4-20mA output signal and SIL 2 certification
- Easy menu navigation using integrated 4-way keypad
- Large, easy-to-read LCD display
- 3 LED status indicators

Prima X-I Gas Monitor



Intrinsically-safe detection of toxic gases or oxygen

The transmitter detects toxic gases and oxygen and is housed in an antistatic, reinforced nylon enclosure. It also has a large, easy-to-read LCD screen and attaches to an integral mounting plate for easy installation, while the built-in keypad makes for quick, simple calibration. To transmit data, the unit uses a 4-20 mA output signal and can also be configured to use HART digital communication.

Features

- Supply voltage - 10 to 28 VDC (24 VDC nominal)
- Optional HART digital communication provides configuration, calibration, and diagnostics
- Large LCD display and status LEDs provide all information for quick and easy sensor status identification
- Quick site installation using a mounting plate accessory.
- A wide range of accessories is offered to suit various industrial applications, including flow cap, duct-mount kit, and pipe-mount kit
- Sensor disconnect-under-power without declassifying hazardous area

Prima XIR Gas Monitor



Designed for Reliable Performance in Extreme Conditions

Every feature of the SIL 2-certified PrimaX IR Gas Transmitter is designed with reliability in mind to withstand the most challenging environmental conditions throughout the product's life. MSA's PrimaX IR Gas Transmitter offers LEL (Lower Explosive Limit) combustible gas detection through a patented PrimaX Gas Transmitter IR dual source design. A redundant IR source provides reliability and uninterrupted monitoring should a source failure occur. Furthermore, the possibility of obstructions due to rain, fog, dirt, dust, and other environmental conditions is minimized due to dual source design. In addition, optics is optimized for maximum signal, resulting in a product of extraordinary stability.

Features

- Patented dual source design provides redundancy and reliable, uninterrupted performance
- Environmental guard sensor housing for fast, efficient response time
- Heated optics prevent condensation build up
- 4-20 mA analogue output
- User-friendly setup, calibration diagnostics, and maintenance via HART digital communication
- One-person calibration is easily performed using calibration cap
- Easy connection using aluminium or stainless steel junction box
- SIL 2 certification provides safety system integration capability
- 316 stainless steel, IP 67-rated, rugged housing protects unit from environmental extremes
- Factory-calibrated for fast commissioning
- Heater option enables operation to -50 °C

Ultima® X Series Gas Monitors

Continuous monitoring of many hazardous gases, the Ultima X Series Gas Monitors offer excellent performance and MSA quality craftsmanship. DuraSource™ Technology offers extended sensor life, while HART provides convenient setup, calibration and diagnostics. HART also allows for existing component install and wiring to be used. A single circuit board increases reliability, while our patented sensor disconnect-under power feature allows all sensors to be replaced in hazardous areas without area declassification. The units are crafted from stainless steel, and the interchangeable smart sensors eliminate the need for reconfiguration. Our scrolling LCD screen display sensor reading and gas type, while the calibration process includes date stamping and the ability to calibrate locally or remotely.

Ultima® XE



For continuous monitoring of oxygen, toxics, and combustible gases

HART Field Communications Protocol provides increased sensor data, part of cost-effective asset management. HART also provides convenient setup, calibration and diagnostics. Calibrate, set up or perform diagnostics with HART from any point along the 4-20mA line. HART also allows for existing component install and wiring to be used, reducing installation costs.

The Ultima XE Gas Monitor offers:

- Explosion-proof 316 stainless steel.
- Multiple-entry mounting enclosure.
- Type 4X, IP66

Ultima® XIR Monitor



Infrared technology for combustible or carbon dioxide gas detection.

The Ultima XIR Gas Monitor is a microprocessor-based, infrared point gas detector for continuous monitoring of combustible gases and vapors. Designed around a rugged, 316 stainless steel enclosure, the Ultima XIR Monitor has multiple entries for maximum flexibility. Ultima XIR Monitor operation is based upon dual wavelength, heated-optics technology, providing definitive compensation for temperature, humidity, and aging effects. IR technology offers excellent long-term stability, eliminates the need for frequent calibrations, and reduces overall cost of ownership.

The Ultima XIR Gas Monitor offers:

- DuraSource Technology for improved IR sensor life.
- 316 stainless steel.
- Multiple-entry mounting enclosure.
- Fast response time.
- Operation based on dual-wavelength, heated-optics technology, providing definitive compensation for temperature, humidity, and aging effects.
- IR technology for excellent long-term stability, eliminating the need for frequent calibrations.
- Sintered disk-free design for optimum performance in harsh environments.
- No-gas calibration; only zero adjustment is required for full calibration.
- Type 4X, IP66 rating.

Gas Monitors

TRIGARD

TRIGARD® Monitoring System for Oxygen, Toxics and Combustible Gases

The MSA TRIGARD Monitoring System is designed for monitoring toxic gases; combustible gases; and oxygen deficiency or enrichment. It is an affordable monitoring solution for a variety of applications, including water and wastewater plants, lab space, boiler rooms, commercial and general industry. Stand-alone gas monitor for up to three MSA sensors

Features

- Adjustable range
- Multiple sensor mounting options
- AC- or DC-powered
- On-board relays
- NEMA 4X design; indoor use only
- Piezo horn with horn silence button
- Long-life, MSA-designed sensors
- Simple push-button calibration
- Available as single-point or 3-point unit
- Optional battery backup
- LCD display with highly visible LED indicators



Chemgard® Series Infrared Gas Monitors



Top-performance, cost-effective, photo acoustic infrared gas monitors

The Chemgard Photo acoustic Infrared Gas Monitor series using photo acoustic infrared (IR) sensing technology provides precise, low-cost, high-performance

monitoring for a variety of gases such as hydrocarbons, solvents, alcohols, CO₂, CO, and toxics. The Chemgard Gas Monitor is extremely stable and highly selective

to the gas of interest. The Chemgard Monitor can operate for months with virtually no zero drift. The instrument has detectability as low as 0.01 ppm for certain applications.

Features

- Photo acoustic infrared technology
- Easy to install, operate, and maintain
- Operates over a wide temperature range
- Can be installed in numerous environments and configurations
- Easy-to-read display showing gas concentration(s) and alarms
- 3 alarm levels with relay output

Toxgard II

For monitoring toxic gases, combustible gases, or oxygen deficiency.

Toxgard II Monitors can be used in any application where threat of combustible gas build up, presence of toxic gases, or oxygen deficiency may exist. Toxgard II Monitors are suitable for indoor and outdoor applications in virtually any industry including refineries, chemical and petrochemical facilities, steel mills, water and waste water, mining, and general industry.

Features

- Large, 4-digit LED display
- 3 alarm levels
- Large LED alarm indicators
- Internal relay contacts for FAULT, CAUTION, WARNING, and ALARM
- Fail-safe fault relay output
- Diagnostics display
- Audible alarm
- 4 to 20 mA output



The MultiGard Multipoint Gas Sampling System



Simple, reliable gas sampling system uses a common set of analysers for up to 32 locations. Efficient, cost-effective, and easy to maintain.

Gas samples are drawn from remote locations and delivered to customer selectable internal analysers. The economical, efficient MultiGard Gas Sampling System uses auto-standardization and flexible sample point order to analyze gas from up to 32 locations. Maintenance and calibration are made easy because all the work is performed at a single location, while also ensuring personnel don't have to enter the monitored area. The unit directly connects to Allen-Bradley's (AB) Ethernet or Data Highway Plus™ networks, which allows communication to other equipment or controllers. The system also has an "internet-connect" option, which allows secure viewing at one's personal computer. The screen provides easy-access scroll-down menus and visual indicators of sensor condition.

Chillgard® Refrigerant Monitors (HVAC+R)

Chillgard® RT Refrigerant Monitor



Capable of detecting refrigerant gas down to 1ppm, the Chillgard RT Refrigerant Monitor is purpose-built to monitor up to eight remote areas, and is completely configurable to detect either a specific refrigerant or group of refrigerant gases. The Chillgard RT Monitor is easy to install and operate. Four (4) front-panel keys configure the entire system. The front panel displays all alarm and trouble messages. If a trouble condition occurs, the message is clearly shown on the display and it indicates the type of trouble. The display also indicates the monitored location and the corresponding gas concentration.

Features

- Very stable and highly selective photo acoustic infrared (PIR) technology
- Precise detection of dozens of refrigerants, including any 400- or 500-series refrigerant
- Easy-view vacuum florescent display
- Standard features include audio alarm, three alarm levels, four relays and 4-20mA & 0-10V outputs
- Reliable operation over a wide temperature range

Chillgard® M-100



Photo acoustic Infrared Refrigerant Sensor

MSA's CHILLGARD M-100 Refrigerant Sensor is designed to detect the presence of the most common halogenated refrigerants in cold storage facilities, mechanical equipment rooms and other refrigerant applications. This compact sensor can be mounted almost anywhere to detect potential leaks of halogenated refrigerants. Easy installation ensures fast and practical integration into existing automated systems.

Features

- Low-level detection – down to as low as 20 ppm
- Versatility – capable of operating within a wide temperature and humidity range
- Low maintenance – no moving parts
- Easy installation – simply secure back plate to wall
- Proven photo acoustic infrared refrigerant sensor

Chillgard® NH₃ (Ammonia)



World-class design for ammonia detection

MSA's Chillgard NH₃ Gas Monitor uses reliable electrochemical sensing technology to detect partsper-million (ppm) levels of ammonia. World-class design and engineering offer single-board design for ultimate reliability and serviceability in an economical package.

Features

- Internal heater option – for operation down to -40°C
- Fast response - electrochemical sensor located directly under calibration cap provides fast ammonia leak response
- Water- and corrosion-resistant NEMA 4X enclosure
- Interchangeable Smart Sensors – pre-calibrated sensor modules are ready for out-of-box installation. Sensors can be field-replaced without tools.
- On board LEDs and relays

Flame Detection

Multi Spectral Infra-Red Flame Detector



Four IR sensors plus Neural Network Technology equal superior false alarm rejection

MSA's Multi-Spectral Infrared (MSIR) Flame Detector with four IR sensors and neural network technology sets a new industry standard for performance, reliability and value. This is the industry's first MSIR/NNT flame detector designed to operate at a longer range with a wider field of view and at a higher level of accuracy for superior false alarm immunity.

Combining a precision multi-spectral IR sensing array with highly intelligent neural network processors, the MSIR Detector reliably discriminates between actual flames and nuisance false alarm sources (such as arc welding or hot objects).

Ultraviolet/Infra-Red Flame Detector



Ultraviolet and infrared flame detection provides high immunity to false alarms

The UV/IR Flame Detector is designed to detect fires and provide alarm outputs directly from the detector while maintaining false alarm immunity. The UV/IR Flame Detector detects fires by monitoring in both the ultraviolet and infrared (UV & IR) spectral ranges, making it highly immune to false alarms caused by lightning, arc welding, hot objects and other sources of radiation. Other features of the UV/IR Detector include three alarm/fault relays, and an RS-485 serial output with Modbus RTU protocol for linking up to 128 detectors in series or 247 with repeaters. The RS-485 and HART outputs provide status, alarm, fault and other information for operation, troubleshooting or programming of the units.

Ultraviolet / Infra-Red Flame Detector for Hydrogen



Ultraviolet and infrared hydrogen flame detection

provides high immunity to false alarms

The MSA UV/IR-H2 Flame Detector is an ultraviolet/ infrared flame detector designed to detect unwanted hydrogen fires. The UV/IR-H2 Detector detects fires by monitoring in both the ultraviolet and infrared (UV & IR) spectral ranges, making it highly immune to false alarms caused by lightning, arc welding, hot objects and other sources of radiation.

GASSONIC OBSERVER-I Ultrasonic Gas Leak Detector



The GASSONIC OBSERVER-i is the world's first ultrasonic gas leak detector equipped with Artificial Neural Network (ANN) real-time broadband acoustic sound processing technology.

This technology is based on extensive studies and real recording of gas leak sounds and industrial background noise from a wide array of industry sources over the years. The ANN algorithm has been "trained" with these recordings to automatically distinguish between unwanted acoustic background noise and dangerous gas leaks. With ANN technology, the GASSONIC OBSERVER-i makes it possible to fully analyse the sound spectrum as low as 12 kHz since common high pass filters are not used. This provides a broader leak detection range which also increases sensitivity to smaller gas leaks, without interference from unwanted background noise.

Open Path Gas Detector



Open Path Detector for Hydrocarbon Gas Detection

The detector is an open path IR gas detector that provides continuous monitoring of combustible hydrocarbon gas concentrations. The system consists of an IR source and receiver which continuously monitor for methane in both the 0 to 5000 ppm•meter and 0 to 5 LEL•meter range. A 0 to 2000 ppm•meter and 0 to 1 LEL•meter range is also available for monitoring propane. The detector provides two 4 to 20 mA analog signals proportional to each of the above ranges, in addition to a digital display and relay contacts.

MOS H2S Gas Sensor



Intelligent Sensor for H2S Gas Detection

The MOS Intelligent Sensor is a microprocessor-based transmitter designed for use with MSA's Metal Oxide Semiconductor (MOS) sensor. This unit features one person calibration and can virtually self-calibrate through activation of a magnetic switch and the application of gas. It is designed to detect hydrogen sulphide in parts per million (ppm) levels and provide status indication and alarm outputs. The MOS Intelligent Sensor includes a three (3) digit LED display. This local digital display continuously indicates gas concentrations during normal operation and in the calibration check mode, calibration prompts during calibration mode, display codes during the setup mode and eight fault codes.

Car Park Monitors

Reliable Microprocessor-Based Controllers for Commercial Applications

MSA Z-Gard Controllers are a line of microprocessor-based monitoring systems designed to solve a variety of alarm and control applications. Z-Gard Controllers interface with MSA Z-Gard Sensors, providing real-time target gas readings. All Z-Gard Controllers provide easy installation and configuration, audible and visual feedback, and seamless integration with commercial and building automation systems.

ZGard® S Sensor



The Z Gard S Sensor is designed to detect the presence of carbon monoxide and nitrogen dioxide gases in air. These sensors employ solid state or electrochemical sensors which generate a representative output signal proportional to the calibrated operating range. All Z Gard S Sensors are available with 2 output versions, a 4-20mA analog output, or an addressable RS-485 digital signal. The Z Gard S Sensor with RS-485 digital output is specifically designed to operate with any Z Gard C 485 Controller, operating as a system. The Z Gard S Sensor with 4-20mA can be installed as a stand-alone sensor typically integrated with the Z Gard C Controller, or common commercial equipment including PLC, DCS, or building automation systems.

ZGard® DS Sensor



ZGard® Combo Gas Monitor



Reliable Standalone Carbon Monoxide Gas Monitor for Commercial Applications

The MSA Z-Gard Combo Gas Monitor features an integrated carbon monoxide sensor, and is ideal for use in small garage monitoring and ventilation control applications. Generally wall-mounted in the area where the target gas is to be measured, the Z-Gard Combo Gas Monitor can also act as a controller, managing up to seven additional remote Z-Gard Gas Sensors via RS-485 serial data bus connections.

Reliable Gas Sensors for Commercial Applications

The Z-Gard S Sensor is designed to detect the presence of carbon monoxide, nitrogen dioxide and combustible gases in air. The Z-Gard DS Sensor is designed to detect the presence of carbon monoxide and nitrogen dioxide gases in parking garages, vehicle storage areas or wherever else these two toxic gases could be found. The DS offers the benefit of two points of detection in one enclosure. Z-Gard sensors employ solid state, electrochemical or catalytic sensors which generate an output signal proportional to the calibrated operating range. All Z Gard S and DS Sensors are available with a 4-20 mA analogue output, an addressable RS-485 digital signal. Z-Gard Sensors with RS-485 digital output are specifically designed to operate as a system with any Z-Gard C 485 or Z-Gard CXII Controller. Z-Gard Sensors with 4-20 mA can be installed as stand-alone sensors typically integrated with the Z-Gard C Controller, or common commercial equipment including PLC, DCS, or building automation systems.

Gas Detection Controllers

Model 9010/9020



Flexible Options for Reliable System Control

9010/9020 Controllers offer maximum flexibility to work in conjunction with remote sensors to provide reliable gas detection for many industries and applications. Advanced design using SMD components throughout plus innovative features put the 9010/9020 LCD Control Units steps ahead of any conventional gas warning system. The 9010 LCD Controller operates with 1 independent sensor (single-channel) while the 9020 LCD Controller operates with 2 independent sensors (dual-channel) per control module, offering considerable cost savings while maintaining high reliability and performance. Modular design combined with dual-channel capability allows for many configurations to meet most applications. Each control module comes with an independent AC/DC power supply transformer for increased system reliability.

Note: This is a custom product. Please consult your local sales manager or contact Customer Service for configuration details.

Gasgard XL (1-8 Point Controller)



Multi-channel, wall-mounted economical controller for all of your gas monitoring needs.

The Gasgard XL Controller from MSA is a versatile and easy to use controller for monitoring toxic and combustible gases, and oxygen deficiency. This controller provides protection from potentially hazardous conditions in a variety of industrial, chemical, municipal, and waste water applications. The Gasgard XL Controller offers reliability in a compact, durable, wall-mounted housing constructed of fire-retardant ABS plastic. The large and clear multi-language LCD display provides real-time target gas readings and events, offers full system diagnosis, and is supported by individual LEDs per channel with common relays and internal buzzer.

FGFD Calibration Gas

| PART NUMBER | Chemical Name | Concentration | Description |
|-------------|---|--|--|
| 10044014* | NH ₃ | 300 ppm | Ammonia in Nitrogen |
| 10028076* | NH ₃ | 25 ppm | Ammonia in Nitrogen |
| 479265 | CO ₂ | 2.50% | Carbon Dioxide in Air |
| 479266 | CO ₂ | 2000 ppm | Carbon Dioxide in Air |
| 806735 | CO ₂ | 100 ppm | Carbon Dioxide in Nitrogen |
| 807386 | CO ₂ | 1.50% | Carbon Dioxide in Nitrogen |
| 807387 | CO ₂ | 15% | Carbon Dioxide in Nitrogen |
| 801041 | CO ₂ , CH ₄ | 1300 ppm, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801042 | CO ₂ , CH ₄ | 2000 ppm, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801043 | CO ₂ , CH ₄ | 3300 ppm, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801044 | CO ₂ , CH ₄ | 6600 ppm, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801045 | CO ₂ , CH ₄ | 1.3%, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801046 | CO ₂ , CH ₄ | 3.3%, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801047 | CO ₂ , CH ₄ | 6.6%, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 801048 | CO ₂ , CH ₄ | 33.3%, 2.5% | Carbon Dioxide, Methane in Nitrogen |
| 10028050 | CO | 50 ppm | Carbon Monoxide in Air |
| 710882 | CO | 60 ppm | Carbon Monoxide in Air |
| 10028052 | CO | 100 ppm | Carbon Monoxide in Air |
| 10028054 | CO | 200 ppm | Carbon Monoxide in Air |
| 10027938 | CO | 300 ppm | Carbon Monoxide in Air |
| 10028048 | CO | 400 ppm | Carbon Monoxide in Air |
| 10028056 | CO, CH ₄ | 60 ppm CO, 2.5% CH ₄ | Carbon Monoxide, Methane, 15% O ₂ in Nitrogen |
| 10010162 | CO, CH ₄ , O ₂ | 300 ppm CO, 1.45% CH ₄ , 15% O ₂ | Carbon Monoxide, Methane, Oxygen in Nitrogen |
| 804770* | CO, CH ₄ , O ₂ , H ₂ S | 300 ppm, 1.45%, 15%, 10 ppm | Carbon Monoxide, Methane, Oxygen, H ₂ S in N ₂ |
| 710331* | CL ₂ | 2 ppm | Chlorine in Nitrogen (used for ClO ₂ Cal too) |
| 10028066*+ | CL ₂ | 10 ppm | Chlorine in Nitrogen |
| 10028046 | H ₂ | 0.80% | Hydrogen in Air |
| 10022386 | H ₂ | 500 ppm | Hydrogen in Nitrogen |
| 10028078* | HCL | 40 ppm | Hydrogen Chloride in Nitrogen |
| 10053747* | HCL | 10 ppm | Hydrogen Chloride in Nitrogen |
| 10028072* | HCN | 10 ppm | Hydrogen in Cyanide in Nitrogen |
| 710414* | H ₂ S | 5 ppm | Hydrogen Sulfide in Nitrogen |
| 10028060*+ | H ₂ S | 10 ppm | Hydrogen Sulfide in Nitrogen |
| 10028064* | H ₂ S | 15 ppm | Hydrogen Sulfide in Nitrogen |
| 10028062~ | H ₂ S | 40 ppm | Hydrogen Sulfide in Nitrogen |
| 10089547 | H ₂ S | 250 ppm | Hydrogen Sulfide in Nitrogen |
| 10028038*+ | Isobutylene | 100 ppm | Isobutylene in Air |
| 10028032~ | CH ₄ | 2.50% | Methane in Air |
| 491041^ | CH ₄ | 2.50% | Methane in Air |
| 801049 | CH ₄ | 6.60% | Methane in Nitrogen |
| 10028022 | CH ₄ , O ₂ | 1.45%, 15% | Methane, Oxygen in Nitrogen |
| 10028020 | CH ₄ , O ₂ , CO | 1.45%, 15%, 60 ppm | Methane, Oxygen, Carbon Monoxide in Nitrogen |
| 10028074* | NO | 50 ppm | Nitric Oxide in Nitrogen |

Instrumentation

| PART NUMBER | Chemical Name | Concentration | Description |
|-------------|---|--------------------------|--|
| 481317# | N ₂ | 99.90% | Nitrogen (O ₂ Zero) |
| 710332* | NO ₂ | 5 ppm | Nitrogen Dioxide in Air |
| 10028068* | NO ₂ | 10 ppm | Nitrogen Dioxide in Air |
| 493580 | O ₂ | 5% | Oxygen in Nitrogen |
| 10028028 | O ₂ | 20.80% in Nitrogen | Oxygen in Nitrogen, Zero Air except for 3600 |
| 804532@ | Pentane | 0.75% | Pentane in Air, Substitute for Ammonia |
| 10014894 | Pentane | 1000 ppm | Pentane in Air |
| 710533* | Phosphine | 0.5 ppm | Phosphine in Nitrogen |
| 711054 | C ₃ H ₈ | 0.10% | Propane in Air |
| 10028034 | C ₃ H ₈ | 0.60% | Propane in Air (Ultima Span) |
| 10028044 | C ₃ H ₈ , O ₂ , CO | 0.6%, 15%, 60 ppm | Propane Oxygen, Carbon Monoxide in Nitrogen |
| 806905 | R-11 | 10 ppm | R-11 in Air |
| 803499 | R-11 | 100 ppm | R-11 in Nitrogen |
| 812785 | R-11 | 30 ppm | R-11 in Nitrogen |
| 710880> | R-11 | 990 ppm | R-11 in Air |
| 804866 | R-12 | 100 ppm | R-12 in N ₂ |
| 812823 | R-12 | 30 ppm | R-12 in Nitrogen |
| 710878> | R-12 | 990 ppm | R-12 in Air |
| 813368 | R-113 | 30 ppm | R-113 in Nitrogen |
| 804870 | R-113 | 100 ppm | R-113 in N ₂ |
| 813369 | R-114 | 30 ppm | R-114 in Nitrogen |
| 806904 | R-123 | 10 ppm | R-123 in Nitrogen |
| 812784 | R-123 | 30 ppm | R-123 in Nitrogen |
| 711474 | R-123 | 50 ppm | R-123 in Nitrogen |
| 803498 | R-123 | 100 ppm | R-123 in N ₂ |
| 806907 | R-134A | 10 ppm | R-134A in N ₂ |
| 803500 | R-134A | 100 ppm | R-134A in N ₂ |
| 812787 | R-134A | 30 ppm | R-134A in Nitrogen |
| 710874> | R-134A | 990 ppm | R-134A in Air5 |
| 813370 | R-500 | 30 ppm | R-500 in Nitrogen |
| 813371 | R-502 | 30 ppm | R-502 in Nitrogen |
| 10014897* | Silane | 5 ppm | Silane in Nitrogen |
| 10028070* | SO ₂ | 10 ppm | Sulfur Dioxide in Air |
| 10028042 | Zero Air | 20.8% Oxygen in Nitrogen | Zero Air |

* NOTE: All cylinders contain 98 litres at 1000 psi except those indicated by *. They have 58 litres. 98 litres gives approximately 20 calibrations per cylinder.

~ 34 litre cylinder

+ Not to be used for Ultima Sensors

@ Used only for Chillgard RT, substitute for ammonia.

Used as zero air for O₂ Ultima sensors and all infrared instruments.

> Used for Z-Gard only.

Accessories

| PART NUMBER | Description |
|-------------|--------------------------------|
| 467896 | 1.5L/Min Calibration Regulator |
| 10034391 | Demand flow regulator |
| 711112 | Calibration tubing |
| 767897 | Dual cylinder carry case |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection



Head Protection
Eye Protection
Face Protection
Hearing Protection
Miscellaneous



MSA remains at the forefront of Head, Eye, Face and Hearing protection products through research and development in our design and manufacturing sites in Australia, U.S.A, France, Sweden and China. Our local expertise ensures you get quality, tested, certified and supported products every time. As a manufacturer we are experts in our products and are constantly innovating to ensure we deliver safety solutions your business can rely on. This means you spend more time getting on with your business.

To ensure you are covered with a complete safety system, MSA products are designed to work in conjunction with each other. Match our Hard Hats with a wide array of accessories such as face shields, passive and electronic hearing protection, sun brims, winter warming liners or flame resistant liners to ensure you are protected by a complete system.

In addition to protecting you, MSA understands the importance of your business brand which is why we offer hard hat customisation from our Sydney factory. We can expertly brand your hard hats not only with your company brand, but with other safety information and reflective decaling and striping to ensure your team stands out, safely.

Turn the page to view our range of Head, Eye, Face and Hearing protection. We've got you covered.

*Because every life has a **purpose...***

Head Protection



Did you know that the working life of a hard hat is 3 years from the issue date? Make sure you write the issue date on the label provided in the back of the cap.

Also it is recommended that suspensions be replaced after 2 years as they degrade quicker from contact with your skin. Inspect your cap before every use and replace caps immediately that show signs of damage or have been impacted.

V-Gard™ Protective Caps

Awarded the Australian Design mark for standards in comfort and weight, the V-Gard™ delivers outstanding safety in this iconic hard hat

| | | | |
|------------------------|---|-----------------------|---|
| Classification: | Type 1 | Customisation: | Custom printing and decaling available. |
| Applications: | General Purpose | Standards: | Certified to AS/NZS 1801 - Type 1. |
| Material: | ABS | Min Order Qty: | 20 |
| Features: | <ul style="list-style-type: none"> - Extended peak for greater visibility and extra protection from sun and rain. - Glaregard® textured underside of peak. - Earmuff and visor attachment slots. - Replaceable sweatband available. | | |

V-Gard™ Caps



V-Gard™ Miners Caps



| Description | Staz-on Suspension – 4 point | Fas-Trac® III Suspension – 4 point |
|---|------------------------------|------------------------------------|
| Complete V-Gard Assemblies | | |
| White | 226000WH | 226019WH |
| Yellow | 226000YE | 226019YE |
| Blue | 226000LB | 226019LB |
| Green | 226000GN | 226019GN |
| Orange | 226000OR | 226019OR |
| Fluro Lime (Yellow) | 226000FL | 226019FL |
| Red | 226000RE | 226019RE |
| Complete V-Gard™ Assemblies with Miners Lamp Brackets Fitted - Metal (MLB) | | |
| White - MLB | 226002WH | - |
| Yellow – MLB | 226002YE | - |
| Blue – MLB | 226002LB | - |
| Green – MLB | 226002GN | - |
| Orange – MLB | 226002OR | - |
| Red – MLB | 226002RE | - |

V-Gard™ 500 Protective Caps

The V-Gard™ 500 is a premium industrial helmet offering class leading protection in a light weight, comfortable and stylish design that works as hard as you do.

With our patented 6 point Staz-On® or ultra-premium Fas-Trac® suspension, all day comfort and safety is assured.

- | | |
|---|--|
| <p>Classification: Type 1</p> <p>Applications: General Purpose</p> <p>Material: ABS</p> <p>Features:</p> <ul style="list-style-type: none"> - 6 point woven polyester textile suspensions provide height and length adjustment. - Glaregard® textured underside of peak greatly reduces glare and associated eye strain. - Extra large cooling vents provide heat extraction for added comfort. - Rain gutter for wet conditions. - Earmuff and visor attachment slots allow compatibility with accessory range. | <p>- Replaceable sweatband available</p> <p>- Vented or Non-Vented styles available</p> <p>- Miners caps fitted with cap lamp bracket and cable clip. Standard available stocks are fitted with metal lamp brackets. High quality plastic brackets are available as a make to order.</p> |
| | <p>Customisation: Custom printing and decaling available.</p> <p>Standards: Certified to AS/NZS 1801 - Type 1.</p> <p>Min Order Qty: 20</p> |

V-Gard™ 500 Caps



V-Gard™ 500 Miners Caps



| Description | V-Gard 500 | | V-Gard 500 Unvented | |
|--|-------------------|-------------------------|---------------------|-------------------------|
| | Staz-on - 6 point | Fas-Trac® III - 6 point | Staz-on - 6 point | Fas-Trac® III - 6 point |
| Complete V-Gard™ Assemblies | | | | |
| White | 229710WH6V | 229719WH6V | 229710WH6 | 229719WH6 |
| Yellow | 229710YE6V | 229719YE6V | 229710YE6 | 229719YE6 |
| Blue | 229710LB6V | 229719BU6V | 229710LB6 | - |
| Green | 229710GN6V | 229719GN6V | - | - |
| Orange | 229710OR6V | 229719OR6V | - | - |
| Fluro Lime (Yellow) | 229710FL6V | 229719FL6V | - | - |
| Red | 229710RE6V | 229719RE6V | - | - |
| Complete V-Gard Assemblies with Miners Lamp Brackets Fitted - Metal (MLB) or Plastic (PLB) Lamp Bracket | | | | |
| White - MLB | 229351WH6V | 229351WHF3V | 229351WH6 | - |
| Yellow - MLB | 229351YE6V | - | - | - |
| Blue - MLB | 229351BU6V | - | - | - |
| Green - MLB | 229351GN6V | - | - | - |
| Orange - MLB | - | - | - | - |
| Red - MLB | - | - | - | - |
| White - PLB | 764442WH6V | - | 764442WH6 | - |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

V-Gard™ Full Brim Protective Hats

Classification: Type 1
Applications: General Purpose
Material: ABS
Features: - Hats feature a full circumference brim for greater protection.
 - Earmuff and visor attachment slots.
 - Replaceable sweatband available.

Customisation: Custom printing and decaling available.
Standards: Certified to AS/NZS 1801 - Type 1.
Min Order Qty: 15 Staz-on Suspension
 10 Fas-Trac Suspension

V-Gard™ Caps



| Description | Staz-on Suspension – 4 point | Fas-Trac® III Suspension – 4 point |
|--|------------------------------|------------------------------------|
| Complete V-Gard™ Full Brim Hat Assemblies | | |
| White | 220944WH | 220949WH |
| Yellow | 220944YE | 220949YE |
| Blue | 220944BU | 220949BU |
| Green | 220944GN | 220949GN |
| Orange | 220944OR | 220949OR |
| Fluro Lime (Yellow) | - | - |
| Red | 220944RE | 220949RE |
| Orange Hi-Viz | 220944HVO | - |
| Complete V-Gard Assemblies with Miners Lamp Brackets Fitted - Metal (MLB) or Plastic (PLB) Lamp Bracket | | |
| White - MLB | 224158WH | 224158WHF |
| Yellow – MLB | 224158YE | - |
| Blue – MLB | 224158BU | - |
| Green – MLB | 224158GN | - |
| Orange – MLB | 224158OR | - |
| Red – MLB | 224158RE | - |
| White - PLB | 764444WH4 | - |

Bumpgard



- Baseball cap with moulded inner shell and foam crown pad.
- Protects from superficial injuries caused by bumping head against stationary objects.
- Velcro adjustment strap provides individual fit.

| PART NO: | Description |
|-----------|---|
| 763254BU | Bumpgard Baseball Cap |
| 763254BUF | Bumpgard Baseball Cap with attached neck flap |

Note - Not AS/NZS 1801 certified.

Bumpcap



- Lightweight head protector.
- Widely used in food preparation industry.
- Side vents keep wearer cool.

| PART NO: | Description |
|----------|-----------------|
| 220819W | White - Bumpcap |
| 220819BU | Blue - Bumpcap |

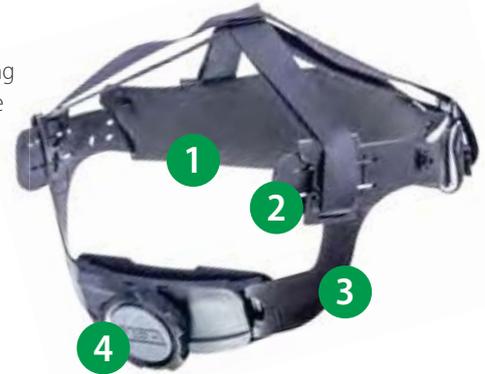
Note - Not AS/NZS 1801 certified.

Replacement Suspensions for MSA Safety Helmets NEW

MSA Fas-Trac® III Ratchet Suspension

Ensuring your workforce wears their safety helmets can be a real headache. MSA, the leading provider of protective helmets, has the perfect remedy: the Fas-Trac III Suspension. No more pressure headaches. No more pulled hair. No more falling off. No more sacrificing worker comfort for safety.

- 1 Sweatband fully covers the headband and worker's forehead.
- 2 Two levels of nape strap adjustment for customised fit.
- 3 Lower nape strap cradles the head. Retention is greatly improved, even when bending over!
- 4 Smooth ratchet rotation and secure hold.



| PART NO: | Description |
|----------|---|
| 10171993 | FAS-TRAC III, 4 Point Suspension for V-Gard™, V-Gard™ Hat |
| 10172045 | FAS-TRAC III, 6 Point Suspension for V-Gard™ 500, 520 |
| 229621 | Replacement 4 point Suspension for V-Gard (Hole Replaceable Sweatband) |
| 229516 | Replacement 6 point Suspension for V-Gard 500 (Hole Replaceable Sweatband) |
| 229620 | Replacement 4 Point Suspension for V-Gard™ Cap (Sewn in Sweatband) |
| 229515 | Replacement 6 Point Suspension for V-Gard™ 500 Cap (Sewn in Sweatband) |
| 229054 | FAS-TRAC, 6 Point Suspension. While Stocks Last. |
| 229053 | FAS-TRAC, 4 Point Suspension. While Stocks Last. |

Fas-Trac III 4 Point Suspension



Staz-on Suspension – 4 point



Fas-Trac III 6 Point Suspension



Staz-on Suspension – 6 point



Accessories

Sun Brim



Cool Cotton Brim with attached neck flap for maximum sun protection.

| PART NO: | Description |
|----------|----------------------------|
| 762546WH | V-Gard™ 500 - White |
| 762546BU | V-Gard™ 500 - Blue |
| 762546OR | V-Gard™ 500 - Orange |
| 762546FO | V-Gard™ 500 - Fluro Orange |
| 225689WH | V-Gard™ - White |
| 225689BU | V-Gard™ - Blue |
| 225689OR | V-Gard™ - Orange |
| 225689FO | V-Gard™ - Fluro Orange |

Accessories



For all MSA Hard Hats and Caps.

| PART NO: | Description |
|----------|--|
| 220553 | Chin Strap Elastic |
| 224047 | Sweatband Brushed Nylon - Universal - Velcro Fit |
| 765550 | Sweatband, Terry Towelling, Lug Style |
| 229068 | Neck Flap Proban Yellow |
| 10147559 | Chinstrap 3 point EN version |
| 10124238 | Chinstrap 4 point ANSI (pack 10) |
| 10162334 | Sweatband, Terry/Foam, OEM replacement for Fas-Trac® III |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

Custom Branded Caps and Reflective Sticker Branding



Custom Branded Caps

- Apply your company logo and message to safety caps and hats for increased brand exposure.
- Upsize (120 mm diameter) or Regular (90 mm diameter) available.
- Size varies depending on logo shape and style.
- Brand can be applied to front, rear and sides of caps and hats.

Reflective Sticker Branding

- Available in standard formats using plain or cross hatch tape.
- Style A: V-Gard™ 500.
- Styles C - H: V-Gard™ and V-Gard™ 500.

Customised Stickers

- Customised decals and name stickers (both weeded and non weeded available)

CONTACT YOUR MSA REPRESENTATIVE OR CUSTOMER SERVICE FOR MORE INFORMATION

Generic Branded Caps



- Certified to AS/NZS 1801
- Generic branded caps available in 4 styles.

| PART NO: | Description |
|------------------|------------------------|
| 227501YE00651000 | "Visitor" - Yellow |
| 227501YE00381000 | "Fire Warden" - Yellow |
| 227501GN01291000 | "First Aid" - Green |
| 227501RE02651000 | "Warden" - Red |

Protective Caps and Winter Liners

V-Gard™ Supreme FR 2-Piece



- Multi-layered flame-resistant top cap.
- Fabric tested to withstand arc exposure to an ATPV of 8 cal/cm².
- Water repellent.
- Inside neck pocket holds warming packet.
- 2 piece extended, zipper on/off, high-bulk, flame-resistant knit bottom.
- No metal parts.
- Supplied in pack of 3.

| PART NO: | Description |
|----------|---|
| 10118427 | Flame Resistant V-Gard™ Supreme 2-Piece Liner |

V-Gard™ Liner Knit Cap



- Stylish skullie cap.
- Design prevents liner from obstructing vision.
- 100% high-bulk acrylic.
- Supplied in pack of 12.

| PART NO: | Description |
|----------|------------------------|
| 10118417 | V-Gard™ Liner Knit Cap |

V-Gard™ Liner Knit-Cap Cover



- 100% acrylic.
- Bright yellow-green for greater visibility.
- Full face tube mounts under or over brim of MSA caps or hats, covering ears, mouth, cheeks and neck.
- Extended nape and wraparound collar for tucking into coat/shirt.
- Supplied in pack of 12.

| PART NO: | Description |
|----------|------------------------------|
| 10118418 | V-Gard™ Liner Knit-Cap Cover |

V-Gard™ Select Flame Retardant



- Two layers of fabric, flame retardant to 50 washes
- Water repellent
- Extended nape and wraparound collar for tucking into coat/shirt
- For applications where earmuffs are not worn
- Sold in sets of 12

| PART NO: | Description |
|----------|--|
| 10129654 | Flame-Retardant V-Gard Select Liner, Extended, No Earflaps |

Structural Fire Helmets and Accessories

F1 XF Helmet



Outdoor Fighting

Open-space fires involving vehicles, gas or chemicals expose firemen to extreme temperatures, radiant heat, and explosive or caustic materials for long periods of time.



Road and Traffic Accidents

Emergency Responders to accident scenes are exposed to various hazards (explosion, collapse, projectiles and high noise situations) when rescuing victims needing immediate assistance.



Structural firefighting

High temperatures, low visibility, falling debris, confined spaces and flashover situations make structural firefighting one of the most dangerous and challenging occupations.



Technical Rescue Operations

Unstable ground, environmental or structural hazards, fire, fatigue and other factors are all potential risks that may be encountered during long-lasting technical rescue operations.

Key Features



Optimal fit for all user profiles (female, large heads, etc) in all operating conditions

- 1 helmet, 2 sizes
- Medium for 52–62 cm
- Large for and 57–65 cm



Unmatched comfort with no pressure points on the head, and padding designed for ease of care and use

- Padded headband, 2 versions (leather and nomex)
- Removable / Washable paddings
- Wearing height adjustment



Short range, **integrated lighting** for optimal visibility in dark or smoky environments

- Lightweight, integrated lighting module (LED)
- Battery level indicator
- Over 10 hours of continuous operation



Robust sizing mechanism allowing for user friendly adjustment while on the head

- Ergonomic Wheel ratchet adjustment
- Large knob with easy access
- Multiple size increments



Adjustment of the wearing position for an optimal **comfort and balance** for all users profiles

- Angular rear and front adjustments for optimal wearing position
- Rear strap setting for enhanced stability
- Bright Yellow colour for intuitive adjustments



Adjustable, **high performance** ocular visor - optimal fit for all faces to prevent injuries

- Ease of manipulation with no interference in the viewing area
- Compatible with corrective spectacles
- Angular adjustment of the ocular visor with adjustable Mechanical stop
- Optical class 1

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection



High performance and comfortable face protection with clear or gold coating

- Unique sliding mechanism to eliminate interferences
- Extended coverage
- Unique field of vision through the face shield

Optimised care and maintenance procedures, **reduced cost of ownership** and safer use

- Modular design with 2 separate modules
- Shortest full inspection time
- Easy care and component replacement

Optimal **retention and stability** on the head, with and without breathing apparatus

- Ergonomic 3 points chinstrap, with padded side straps
- Free pivot point accommodate various chin shape and size
- Quick strap adjustment to accommodate face piece



Unmatched **thermal and mechanical protection** even in extremely hot conditions

- Extended impact liner with Aramide insert
- Extended side protection for lateral impact protection
- Suspension system for lower force transmission

State-of-the-art integration **helmet mounted communication**

- Bone conductive headset with self adjustment
- Adjustable neckswan microphone with parking position
- One or two loudspeaker for comfort of hearing

Unique **customisation capabilities** with interchangeable front plate and personalised badges

- Various front plates colors and designs
- Metal badge with multiple colours
- Logo printing area for tampography identification



Available Colours:

White, Yellow, Red, Black, Hi-Viz Yellow, Hi-Viz Orange, Photoluminescent, Grey, Blue, Green

| PART NO: | Description | PART NO: | Description |
|----------|------------------------------------|----------|-----------------------------------|
| 767958RE | Gallet F1 XF Red, Medium, Clear | 767959RE | Gallet F1 XF Red, Large, Clear |
| 767958WH | Gallet F1 XF White, Medium, Clear | 767959WH | Gallet F1 XF White, Large, Clear |
| 767958YE | Gallet F1 XF Yellow, Medium, Clear | 767959YE | Gallet F1 XF Yellow, Large, Clear |

Contact MSA for alternate colour part numbers

F1 XF Communication

Communication headset for integration in Gallet F1 XF fire helmet

MSA manufacture custom communications systems to suit your Gallet F1 XF Helmet.

Step 1. Choose one of the following communications types:



Flexible Microphone Headset

- One or two loudspeakers, in plastic housing with mounting clips.
- Flexible microphone, adjustable in length (80 mm) to optimize position in front of the mouth or in front of the speech diaphragm (BA face piece).
- Downlead Cable with anti-tearing, LEMO connecting plug (green cover).

Part Numbers

GA010002H3 (1 Speaker) LEMO Plug
GA010002H3A (2 Speaker) Nexus Plug



Bone Conductive Microphone Headset

- One or two loudspeakers, in housing with mounting clips.
- Bone conductive microphone, inserted in the front headband padding.
- Downlead Cable with anti-tearing, LEMO connecting plug (blue cover).



Hearing Protection with Flexible Microphone

- Two ear muffs with padding and noise attenuation foam.
- Ear cup height adjustment system for optimal wearing position.
- Flexible microphone attached to the left muff.
- Downlead Cable with anti-tearing, LEMO connecting plug (green).

Step 2. Choose the push-to-talk (PTT) to suit your radio model.



Step 3. Contact MSA Customer Service for your nearest distributor

Contact MSA with your radio make and model for compatibility, part numbers and price.

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

F2 Xtreme



- 3 position sizing headband for better comfort and balance.
- Additional adjustable suspension netting provides better comfort, breathability and balance.
- 6 chinstrap adjustments, for greater balance and comfort.
- Quick Click head size adjustment that is glove friendly.
- EN Certified.

Cairns 660 C



- High temperature foam liner with patented breakaway system.
- Nomex ear/neckflap - Nomex quick release chinstrap.
- Standard 4" visor.
- Available in white, red, yellow, orange.
- Minimal parts for lower service cost and easier maintenance.
- NFPA Certified.

| PART NO: | Description |
|----------|---|
| 767524RE | Gallet F2Xtreme Helmet C/W lamp attachment and Responder goggles, RED |
| 767524WH | Gallet F2Xtrem Helmet C/W lamp attachment and Responder goggles, WHITE |
| 767524YE | Gallet F2Xtrem Helmet C/W lamp attachment and Responder goggles, YELLOW |
| 766078 | Aluminised Neck Flap (GA 3234) |
| 766079 | Wool Neck Curtain (GA 3240) |

| PART NO: | Description |
|----------|---------------------------|
| 660CFSW | White W/FS (Cairns) NFPA |
| 660CFSB | Black W/FS (Cairns) NFPA |
| 660CFSY | Yellow W/FS (Cairns) NFPA |
| 660CF SO | Orange W/FS (Cairns) NFPA |
| 660CF SR | Red W/FS (Cairns) NFPA |

Accessories for Firefighters Helmets

Lamp XS Zone 0



- ATEX Certified T6, safe in all hazardous environments
- Low power helmet mounted lighting solution. Perfect for close up work such as map reading or seeing your immediate surroundings.
- Torch supplied with helmet mounting adapter and accessory lanyard for carrying around your neck. Rear push button on/off easy to manipulate.
- Single 0.18 W white LED
- 8.9 Lumens
- 4 x LR44 Coin Batteries
- 130hrs burn time
- <35g with batteries

| PART NO: | Description |
|----------|----------------|
| 767875 | Lamp XS Zone 0 |

LAMP XP LED



- ATEX Certified, Zone 0 and T4 approved
- Advanced LED technology with long beam
- Designed for attachment to helmets
- Fluorescent yellow body in polycarbonate with red switch and exhaust valve
- Photoluminescent shroud for optimal visibility when dropped
- Single 1W LED with reflector
- 63/65 Lumens output
- 4 x AA Batteries
- Peak beam intensity 4,543cd; 135m beam distance
- 14hrs burn time (LED will remain lit for 30+hrs)
- >10,000 hours lamp module life
- 215g including batteries
- Waterproof (IP67)

| PART NO: | Description |
|----------|-------------|
| 766077 | Lamp XP LED |

Face Protection

V-Gard Headgear, Faceshields & Accessories



Frames, visors and chin protectors have been designed and certified as a system with MSA helmets to ensure product compatibility, a crucial component of compliance and safety. With its truly global platform, MSA offers the most durable protection you can trust.

Choosing the proper V-Gard visor

| | | |
|--------------|-------------------------|---|
| Material | Polycarbonate (PC) | Suitable for most applications where impact and splash hazards exist. Available in a variety of sizes and thicknesses, sheet or injection moulded versions. Moulded visors are optically corrected and therefore offer very good view and reduce fatigue during work. Their chemical and heat resistance is better as they are thicker and not as stressed as flat visors. Flat visors are the perfect solution for general and basic applications offering a good price/performance ratio. |
| | Mesh | Provides maximum ventilation in humid working conditions. Lightweight and durable great for outdoor applications such as brush clearing and trimming. Does not provide splash protection. |
| | Propionate | Provides superior chemical splash resistance mainly against organic chemicals such as solvents. Available in injection moulded version for a great optical quality and reliable resistance not as stressed as flat visors. |
| Colour/ Tint | Clear | Provides maximum light transmission. Good for indoor use applications, or outdoor use in low-light conditions. |
| | Shade 3 IR / Shade 5 IR | Helps protect against infrared (IR) up to Shade 3 and Shade 5, as applicable, as well as ultraviolet (UV) radiation. Perfect for autogenous welding, metal pouring, gas soldering, light cutting and brazing applications. |
| Coatings | Anti-fog | Controls condensation build-up on inside of visor surface. Great for humid conditions. |
| | Anti-Scratch | Provides excellent scratch resistance, extending visor life. A "must have" in abrasive work environments. |
| | Reflective | Reflects radiant heat, keeping the wearer comfortable in elevated temperature environments, such as manufacturing plants with blast furnaces. |
| Options | Chin Protectors | V-Gard chin protectors provide additional protection to the face and neck from impacts, chemical splash and arc flash making them suitable for applications in forestry, chemical industry, utilities, etc. |
| | Debris Control | Provides additional protection against debris and chemical splash and reduces the possibility of debris or chemical entry between the visor frames and the front of the helmet. |

V-Gard Headgear



| PART NO: | Description |
|----------|---|
| 10127061 | V-Gard Headgear Standard, without visor |
| 10127062 | V-Gard Headgear Elevated Temperature, without visor |

- Protection from flying debris, particles, liquids and vapours when fitted with high impact visor.
- V-Gard Headgear is designed to work with existing V-Gard visors, which are part of the V-Gard accessories range.
- Offers a lightweight, comprehensive face protection system.
- Unique 3-point visor load system, visors fitted or removed easily and quickly.
- Adjustable to all head sizes with two comfort sweatbands for all day comfort.
- Certified to AS/NZS 1337.1

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

V-Gard Visors: General Purpose

Classification: General purpose
*General purpose with Anti-fog/Anti-scratch Coatings

Markets: General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining

Applications: Hot/humid conditions (Anti-fog), Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing

Material: Polycarbonate

Colour: Clear

Standards: Certified to AS/NZS 1337.1:2010 – High Impact Protection.

Min Order Qty: 10

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|--|-----------|--------------------|---|
| V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS |  | 10115836 | Clear, Flat | <ul style="list-style-type: none"> 1mm sheet polycarbonate, high impact rated. Flared design provides better neck coverage. Earmuff profile for better fit with hearing protection. General use for flying debris, and splash hazards. |
| |  | 10115837 | Clear, Nitrometer* | <ul style="list-style-type: none"> 1.02mm Polycarbonate. Earmuff profile for better fit with hearing protection. Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors. Contoured visor; closer fit and improved resistance to impact and splash hazards. |
| |  | *10115839 | Clear, Flat, AF/AS | <ul style="list-style-type: none"> 1.5mm polycarbonate, high impact rated. Anti-fog/Anti-scratch coatings. Earmuff profile for better fit with hearing protection. Contoured visor; closer fit and improved resistance to impact and splash hazards. |

*Nitrometer, for use with MSA Chin Protectors (Part Number: 10115827 and 10115828) ONLY.

V-Gard Visors: Heavy Duty Chemical and Splash

Classification: Chemical and splash: heavy duty

Markets: General industry, heavy manufacturing, laboratories, chem/petrochemical, agriculture, pharmaceutical, oil and gas, mining

Applications: Chipping, splash, chemical mixing, grinding, machining, power fastening, sanding, sawing

Material: Propionate

Colour: Clear

Standards: Certified to AS/NZS 1337.1:2010 - Medium Impact Protection.

Min Order Qty: 5

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|---|----------|---|--|
| V-GARD VISORS FOR CHEMICAL AND SPLASH APPLICATIONS |  | 10115855 | Clear, Propionate, Moulded | <ul style="list-style-type: none"> 2.49mm injected propionate. Superior optical quality. Best visor for chemical applications. |
| |  | 10115856 | Clear, Propionate, Moulded, Nitrometer* | <ul style="list-style-type: none"> 2.49mm injected propionate. Superior optical quality. Best visor for chemical applications. Use with V-Gard™ Retractable or standard chin protectors. |

*Nitrometer, for use with MSA Chin Protectors (Part Number: 10115827 and 10115828) ONLY.

V-Gard Visors: Welding (Shade 3 and Shade 5)

- Classification:** Welding
- Markets:** Fabrication, steel mills, shipbuilding, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing
- Applications:** Welding, metal pouring, gas soldering, light cutting/brazing, manufacturing, impact and debris
- Material:** Polycarbonate
- Colour:** Shade 3 IR, green
Shade 5 IR, green
- Standards:** Certified to AS/NZS 1337.1:2010 – High Impact Protection.
- Min Order Qty:** 5

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|---|----------|----------------------------------|--|
| V-GARD VISORS FOR WELDING APPLICATIONS |  | 10115859 | Shade 3 IR, Moulded | <ul style="list-style-type: none"> • 2.49mm injected polycarbonate. • Shade 3 Infra Red protection for gas welding applications. • Scratch resistant. • Thickness helps prevent pitting and warping from heat or weld spatter. |
| |  | 10115860 | Shade 3 IR, moulded Nitrometer* | <ul style="list-style-type: none"> • 2.49mm injected polycarbonate. • Shade 3 Infra Red protection for gas welding applications. • Scratch resistant. • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors. • Thickness helps prevent pitting and warping from heat or weld spatter. |
| |  | 10115861 | Shade 5 IR, Moulded | <ul style="list-style-type: none"> • 2.49mm injected polycarbonate. • Shade 5 Infra Red protection for gas welding applications. • Scratch resistant. • Thickness helps prevent pitting and warping from heat or weld spatter. |
| |  | 10115862 | Shade 5 IR, Moulded, Nitrometer* | <ul style="list-style-type: none"> • 2.49mm injected polycarbonate. • Shade 3 Infra Red protection for gas welding applications. • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors. • Scratch resistant. • Thickness helps prevent pitting and warping from heat or weld spatter. |

* Nitrometer, for use with MSA Chin Protectors (Part Number: 10115827 and 10115828) ONLY.

+ DO NOT use with V-Gard Headgear. These visors are designated for use with specified V-Gard Frames and MSA helmets ONLY as face protection for workers exposed to high voltage electric arcs. V-Gard Headgear has not been tested or certified to the Test Method, and should not be used for this type of Arc Flash protection.

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

V-Gard Visors: Elevated Temperature, High-Performance Anti-fog/Anti-scratch Coatings

| | | | |
|------------------------|--|-----------------------|---|
| Classification: | Elevated temperature | Material: | Polycarbonate with anti-fog and anti-scratch coatings |
| Markets: | General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining | Colour: | Clear |
| Applications: | Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding | Standards: | Certified to AS/NZS 1337.1:2010 – High Impact Protection. |
| | | Min Order Qty: | 5 |

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|---|----------|----------------------|---|
| V-GARD VISORS FOR ELEVATED TEMPERATURE APPLICATIONS |  | 10115844 | Clear, Moulded AF/AS | <ul style="list-style-type: none"> • 2.49mm injected polycarbonate. • Extended length for greater face and neck coverage. • Anti-Fog/Anti-Scratch coating. • Superior protection against impact, chemicals and heat. • Extra-thick visor helps prevent warping, cracking or crazing under tough conditions |

V-Gard Visors: General Purpose Mesh Visor

| | | | |
|------------------------|--|-----------------------|---|
| Classification: | General purpose: Mesh | Material: | Epoxy-coated steel mesh |
| Markets: | General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, automotive, mining | Colour: | Black |
| Applications: | Flying chips and other light debris | Standards: | Certified to AS/NZS 1337.1:2010 - Medium Impact Protection. |
| | | Min Order Qty: | 10 |

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|---|----------|-------------------------------------|---|
| V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS |  | 10116558 | Mesh with plastic edge, Nitrometer* | <ul style="list-style-type: none"> • Epoxy coated stainless steel mesh with heavy duty plastic surround. • Ideal for use with large particles such as wood chips or in areas of high humidity. • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors |

V-Gard Visors: Arc Flash Application

| | | | |
|------------------------|--|-----------------------|--------------------------------|
| Classification: | Arc | Material: | Polycarbonate |
| Markets: | Maintenance, impact and debris, testing/repair | Colour: | Special tint, light green |
| Applications: | Flying chips and other light debris | Standards: | ANSI/ISEA 287.1:2010 Compliant |
| | | Min Order Qty: | 10 |

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|---|----------|----------------------------|---|
| V-GARD NITROMETER WITH CHIN PROTECTOR FOR ARC FLASH APPLICATIONS |  | 10118480 | Arc+, Moulded, Nitrometer* | <ul style="list-style-type: none"> • 1.7mm injected polycarbonate. • Extended length for greater face and neck coverage. • For electric arc flash applications. • Use with V-Gard™ Retractable or standard chin protector. • Rated 11.3 cal/cm2. |

* Nitrometer, for use with MSA Chin Protectors (Part Number: 10115827 and 10115828) ONLY.

+ DO NOT use with V-Gard Headgear. These visors are designated for use with specified V-Gard Frames and MSA helmets ONLY as face protection for workers exposed to high voltage electric arcs. V-Gard Headgear has not been tested or certified to the Test Method, and should not be used for this type of Arc Flash protection.

V-Gard Accessory System: V-Gard Frames for Caps and Hats

- Classification:** General purpose
- Markets:** General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
- Applications:** Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
- Material:** High density polyethylene (HDPE)
- Min Order Qty:** 10

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|--|--|----------|---|--|
| V-GARD FRAME FOR GENERAL PURPOSES |  | 10115730 | V-Gard™ Frame For Slotted Caps | <ul style="list-style-type: none"> Attaches directly into MSA V-Gard™ caps. Complete with unique replaceable debris control. Includes integral slot adapters. Sliding adjustment allows visors to fit over large half-face respirator filters. Non metal construction enables use in electrical applications. |
| |  | 10115822 | V-Gard™ Frame, Universal For Slotted Caps With Debris Control | <ul style="list-style-type: none"> Universal. Fits most caps (MSA and other brands). Also fits all MSA Caps (Slotted or Non-Slotted). Sold with replaceable debris control which creates tight seal between frame and cap. Heavy duty flat rubber strap allows easy and secure placement on all MSA caps, including non-slotted models. Design allows use with other PPE, including MSA earmuffs and respirators. |
| FOR FULL-BRIM HATS FOR GENERAL PURPOSE |  | 10116627 | V-GARD™, Frame For Hats, Standard | <ul style="list-style-type: none"> Heavy duty flat rubber strap allows easy and secure placement on all MSA caps, including non-slotted models. Design allows use with other PPE, including MSA earmuffs and respirators. Certified to AS/NZS 1337.1:2010 High Impact Protection, when used with High Impact Visors. |

- Classification:** Elevated temperature
- Markets:** Food manufacturing/canneries, steel mills, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing, and steam tunnels
- Applications:** Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
- Material:** Polycarbonate
- Min Order Qty:** 10

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|---|----------|---|---|
| V-GARD FRAME FOR ELEVATED TEMPERATURE APPLICATIONS |  | 10115730 | V-Gard™ Frame For Slotted Caps | <ul style="list-style-type: none"> Attaches directly into MSA V-Gard™ caps. Complete with unique replaceable debris control. Includes integral slot adapters. Sliding adjustment allows visors to fit over large half-face respirator filters. Non metal construction enables use in electrical applications. |
| V-GARD FRAME FOR FULL-BRIM HATS FOR ELEVATED TEMPERATURE APPLICATIONS |  | 10116628 | V-Gard™, Frame For Hats, Elevated Temperature | <ul style="list-style-type: none"> Heavy duty flat rubber strap allows easy and secure placement on all MSA full brim hats, slotted and non-slotted models. Design allows use with other PPE, including MSA earmuffs and respirators. Certified to AS/NZS 1337.1:2010 High Impact Protection, when used with High Impact Visors. |

Gard Chin Protectors

V-Gard Chin Protectors work with select V-Gard Nitrometers to help provide extra protection from impact and splash hazards to face and neck.

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|-----------------|---|----------|-----------------------------|---|
| CHIN PROTECTORS |  | 10115827 | Chin Protector | <ul style="list-style-type: none"> Standard chin protector. Opaque material can be used with clear and tinted visors. Compact design provides additional protection between the neck and chin. |
| |  | 10115828 | Chin Protector, Retractable | <ul style="list-style-type: none"> Deluxe retractable chin protector. Opaque material can be used with clear and tinted visors. Compact design provides additional protection between the neck and chin. |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

V-Gard Accessory System Kits

| | PART NO. | PRODUCT SPECIFICATIONS |
|---|-------------|---|
|  | 767911CL | Face Shield Kit with clear visor and standard chin guard. Contains: Brow guard (10127061) Clear visor (10115837) Standard chin guard (10115827) Certified to AS/NZS 1337.1:2010 – High Impact Protection |
|  | 767911CL-RC | Deluxe Face Shield Kit with retractable chin guard and clear visor. Contains: Brow guard (10127061), Clear visor (10115837), Retractable Chin guard (10115828) Certified to AS/NZS 1337.1:2010 – High Impact Protection |
|  | 767911GN3 | Face Shield Kit with Shade 3 visor and standard chin guard. Contains: Brow guard (10127061) Shade 3 visor (10115860) Standard chin guard (10115827) Certified to AS/NZS 1337.1:2010 – High Impact Protection |
|  | 767911GN5 | Face Shield Kit with Shade 5 visor and standard chin guard. Contains: Brow guard (10127061) Shade 5 visor (10115862) Standard chin guard (10115827) Certified to AS/NZS 1337.1:2010 – High Impact Protection |
|  | 767911ME | Face Shield Kit with epoxy coated steel mesh visor and standard chin guard. Contains: Brow guard (10127061) Mesh visor (10116558) Standard chin guard (10115827) Certified to AS/NZS 1337.1:2010 - Medium Impact Protection |
|  | 10127065 | Replacement front sweat band for brow guard. |

V-Gard Accessory System Replacement Parts

V-Gard Accessory System Kits are designed to offer easy customer solutions for a variety of needs.

| | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|----------|--|---|
|  | 10116539 | Debris Control Assy, V-Gard™, Replacement, bagged | • Replacement debris control for MSA V-Gard™ frames 10115730 & 10115821. |
|  | 10117496 | SLOT Adapters, V-Gard™, Frame, 2 Pairs, Replacement | • Replacement slot adapters (pair) for MSA V-Gard™ frame 10115730 & 10115821. • Used for accessory attachment of V-Gard™ Frames |

Faceshields

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|-------------------------------------|---|-----------|--|---|
| FLASHMASTER WELDING HELMET |  | 220035 | Cover lens Clear Polycarbonate | <ul style="list-style-type: none"> • Ideal for electrical welding. • Made from polypropylene to combine strength, lightweight, and chemical resistance. • Fitted with Shade 10 welding lens. • Replaceable CR39 cover lens protecting filter. • Impact resistant clear polycarbonate backing lens. • Adjustable head diameter, height and faceshield angle. • Padded cloth headband for added comfort. |
| | | 220035CR | Cover lens Clear CR39 | |
| | | 220324 | Welding Lens Shade 8 | |
| | | 220325 | Welding Lens Shade 9 | |
| | | 220326 | Welding Lens Shade 10 | |
| | | 220327 | Welding Lens Shade 11 | |
| | | 221681 | Complete Helmet | |
| BLACK EAGLE |  | 227500C | Clear faceshield | <ul style="list-style-type: none"> • Available in 3 different shaded visor options or mesh versions (aluminium & fibreglass) • Fully adjustable head suspension • Ideal for protection against flying debris and particles, liquids and vapours • Shaded versions suitable for oxy welding • Chinguard on all models except mesh visor version • Medium velocity impact protection certified to AS/NZS 1337 |
| | | 227500GN3 | Green Shade 3 faceshield | |
| | | 227500GN5 | Green Shade 5 faceshield | |
| | | 227500MA | Mesh Aluminium faceshield | |
| | | 227500MF | Mesh Fibreglass faceshield | |
| BLACK EAGLE REPLACEMENT PARTS |  | 227498C | Clear visor | |
| | | 227498GN3 | Green Shade 3 visor | |
| | | 227498GN5 | Green Shade 5 visor | |
| | | 762115 | Mesh Aluminium visor | |
| | | 762116 | Mesh Fibreglass visor | |
| | | 225474 | Sweatband Terry Towelling (velcro fit) | |
| | | 225690 | Sweatband Sheepskin (velcro fit) | |
| | | 220221S | Replacement suspension w/o sweatband | |
| | | 227499A | Replacement Browgard | |
| | | 227497 | Replacement Chingard | |
| BULLET |  | 226792 | Faceshield | <ul style="list-style-type: none"> • Lightweight browgard. • Fully adjustable head suspension. • Moulded clear polycarbonate visor. • Certified to AS/NZS1337.1 high impact protection. |
| | | 227025 | Replacement Visor | |
| | | 225474 | Replacement Sweatband | |
| | | 226794A | Replacement Browgard | |
| | | 220221S | Replacement suspension w/o sweatband | |

Eye Protection

Safety Glasses: Indoor - General Application

Classification: Indoor: general and Indoor Humid Environments

Markets: Facility maintenance, repair and operations, construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals, transportation, shipbuilding, automotive

Applications: Assembly and mechanical, drilling, grinding, machining, painting, sanding, sawing

Material: Polycarbonate

Features: **Coatings:**

◆ *OptiRock:* Durable high performance anti-fog coating with outstanding anti-scratch properties.

■ *TuffStuff:* Excellent service time superior anti-scratch coating.

▼ *Sightgard:* Anti-fog coating with effective anti-scratch properties.

100% UV Protection, UV 400 rated

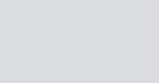
Standards: Certified to AS/NZS 1337.1. Medium Impact Protection

Min Order Qty: 12 (unless otherwise stated)

| INDOOR APPLICATIONS | MODEL | PART NO. | PRODUCT SPECIFICATIONS |
|---|-------------------|---|--|
|  | Aeon | ▼ 767941C - Clear, Anti-fog | <ul style="list-style-type: none"> • Full wraparound design for maximum field of vision and peripheral protection. • Dual-material browguard provides extra comfort. • Lightweight, resilient & durable for all day wear. • Soft nose pad provides superior comfort. |
|  | Arctic Gold | ▼ 762267BCF - Clear, Anti-fog ■ 762267BL - Lite Gold | <ul style="list-style-type: none"> • High base curve wraparound style for maximum coverage. • Soft flexible low slip arms. • Soft carry pouch doubles as cleaning cloth. |
|  | Arctic M | ▼ 229208CF - Clear, Anti-fog ■ 229208C - Clear ■ 229208A - Amber | <ul style="list-style-type: none"> • Wrap Around Style - Wide Vision Lens. • Comfortable, Ultra light weight design. |
|  | Base | ■ 767942C - Clear | <ul style="list-style-type: none"> • Lightweight, resilient & durable for all day wear. • Close-fitting, unitary front with dual. • 9.5 base curvature offers wide and unobstructed vision. |
|  | BlockZ | ▼ 766759CAF - Clear, Anti-fog ▼ 766759AAF - Amber, Anti-fog ▼ 766759LGA - Light Gold, Anti-fog | <ul style="list-style-type: none"> • Provides excellent eye and socket coverage. • Robust impact resistant frame. • Large visibly safe paddle styled rubber tips for better grip. • Soft nose grips. |
|  | Cool Blooz | ▼ 220168CF - Clear, Anti-fog ■ 220168L - Light Gold | <ul style="list-style-type: none"> • Super soft reinforced comfort frame. • Stylish design. • Excellent Optics. |
|  | Discovery | ▼ 220175BCF - Clear, Anti-fog ■ 220175BC - Clear ▼ 220175BAF - Amber, Anti-fog ▼ 220175BL - Light Gold | <ul style="list-style-type: none"> • Frame mounted wraparound lenses. • Adjustable length side arms. • Wrap around lens for greater protection. |
|  | Discovery II | ▼ 766764CAF - Clear, Anti-fog | <ul style="list-style-type: none"> • Fresh and sleek design. • Low weight durable frame construction. • Increased comfort with flexible temple tips. |
|  | Move | ▼ 767944C - Clear, Anti-fog | <ul style="list-style-type: none"> • Dual lens design with wraparound protection. • Soft nose pad releases the pressure from the nose. • Adjustable arm inclination. |
|  | Nullarbor | ▼ 229207C - Clear, Anti-fog ▼ 229207LF - Light Gold, Anti-fog | <ul style="list-style-type: none"> • Stylish wraparound design. • Clear now comes standard with Anti-fog, Hard coat. • Robust nylon frame. |
|  | Nullarbor Nex Gen | ◆ 767943CAF - Clear, Anti-fog ◆ 767943A - Amber, Anti-fog ■ 767943BZM - Bronze Mirror | <ul style="list-style-type: none"> • 9.75 base with multi-fit design for all faces. • Optical class 1 lens offers users the clearest and the most panoramic view without obstruction. • Modern co-material temple design with soft temple tips. |
|  | Premier | ■ 763109C - Clear | <ul style="list-style-type: none"> • Wrap Style. • Lightweight and comfortable. |
|  | Ultra X-Over | ▼ 766766CAF - Clear, Anti-fog | <ul style="list-style-type: none"> • Robust frame construction with open cell foam. • Provides protection against dust and other foreign matter. • 4 point length adjustment arms. |

Safety Glasses: Outdoor – General Application

- Classification:** Outdoor: general use
- Markets:** Aviation, general manufacturing, mining, oil and gas, pharmaceuticals, primary metals, transportation
- Applications:** Assembly and mechanical, chipping, chiseling, drilling, grinding, machining, sanding, sawing
- Material:** Polycarbonate
- Features:**
- Coatings:**
- ◆ *OptiRock:* Durable high performance anti-fog coating with outstanding anti-scratch properties.
 - *TuffStuff:* Excellent service time superior anti-scratch coating.
 - ▼ *Sightgard:* Anti-fog coating with effective anti-scratch properties.
- Smoke tint lenses offer glare reduction
100% UV Protection, UV 400 rated
- Standards:** Certified to AS/NZS 1337.1. Medium Impact Protection
- Min Order Qty:** 12 (unless otherwise stated)

| GENERAL OUTDOOR USE APPLICATIONS | MODEL | PART NO. | PRODUCT SPECIFICATIONS |
|---|-------------------|-------------------------|--|
|  | Aeon | ■ 767941S | <ul style="list-style-type: none"> • Full wraparound design for maximum field of vision and peripheral protection. • Dual-material browguard provides extra comfort. • Lightweight, resilient & durable for all day wear. • Soft nose pad provides superior comfort. |
|  | Arctic Gold | ■ 762267BS | <ul style="list-style-type: none"> • High base curve wraparound style for maximum coverage. • Soft flexible low slip arms. • Soft carry pouch doubles as cleaning cloth. |
|  | Arctic M | ■ 229208S | <ul style="list-style-type: none"> • Wrap Around Style - Wide Vision Lens. • Ultra light weight design. |
|  | Base | ■ 767942S | <ul style="list-style-type: none"> • Lightweight, resilient & durable protective eyewear for all day wear. • Close-fitting, unitary front with dual 9.5 base curvature offers wide and unobstructed vision. |
|  | BlockZ | ▼ 766759SAF | <ul style="list-style-type: none"> • Provides excellent eye and socket coverage. • Robust impact resistant frame. • Large visibly safe paddle styled rubber tips for better grip. • Soft nose grips. |
|  | Cool Blooz | ■ 220168S | <ul style="list-style-type: none"> • Super soft reinforced comfort frame. • Stylish design. • Excellent Optics. |
|  | Discovery | ■ 220175BS | <ul style="list-style-type: none"> • Frame mounted wraparound lenses. • Adjustable length side arms. |
|  | Discovery II | ▼ 766764SAF | <ul style="list-style-type: none"> • Fresh and sleek design. • Low weight durable frame construction. • Increased comfort with flexible temple tips. |
|  | Move | ■ 767944S | <ul style="list-style-type: none"> • Dual lens design with wraparound protection. • Soft nose pad releases the pressure from the nose. • Stylish temple design with soft tips offers snug fitting. • Adjustable arm inclination. |
|  | Nullarbor | ■ 229207S ■ 229207BS | <ul style="list-style-type: none"> • Stylish wraparound design. • Robust nylon frame. |
|  | Nullarbor Nex Gen | ■ 767943S | <ul style="list-style-type: none"> • 9.75 base with multi-fit design for all faces. • Optical class 1 lens offers users the clearest and the most panoramic view without obstruction. • Modern co-material temple design with soft temple tips. |
|  | Premier | ■ 763109S | <ul style="list-style-type: none"> • Wrap Style. • Lightweight and comfortable. |
|  | Ultra X-Over | ▼ 766766SAF | <ul style="list-style-type: none"> • Robust frame construction with open cell foam. • Provides protection against dust and other foreign matter. • 4 point length adjustment arms. |
|  | Z4 | ▼ 767002GBS | <ul style="list-style-type: none"> • Dual lens permanently captured within a safety frame. • Secured hinges for robust temple arms. • Smooth soft comfort styled nose piece. |
|  | Z5 | ■ 767691S | <ul style="list-style-type: none"> • Darkest allowable safety shade for maximum glare and light reduction. • Tough styling for all day wear. • Soft feel and flexible frame for comfort. • Rubberised polymer grip coat. |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

Safety Glasses: Over-the-Glasses

- Classification:** Over-the-glasses
- Markets:** Facility safety, maintenance, repair and operations, overhaul, general industry, manufacturing, construction, oil and gas, metalworking, automotive
- Applications:** Assembly and mechanical, drilling, grinding, machining, masonry, power fastening, riveting, sanding, sawing
- Material:** Polycarbonate
- Features:** **Coatings:**
- ◆ *OptiRock:* Durable high performance anti-fog coating with outstanding anti-scratch properties.
 - *TuffStuff:* Excellent service time superior anti-scratch coating.
 - ▼ *Sightgard:* Anti-fog coating with effective anti-scratch properties.
- 100% UV Protection, UV 400 rated
- Standards:** Certified to AS/NZS 1337.1. Medium Impact Protection
- Min Order Qty:** 12 (unless otherwise stated)

| OVER GLASSES | MODEL | PART NO. | PRODUCT SPECIFICATIONS |
|--|----------------|---------------------|--|
|  | OvrG II Safety | ▼ 767690CAF - Clear | <ul style="list-style-type: none"> • Lightweight over spectacle design. • Fits over prescription eyewear. • Comfortable and stylish. |
|  | Supervue | ■ 225228 - Clear | <ul style="list-style-type: none"> • Wraparound style overspec. • Optimum visibility, comfort & protection. • Side vents provide superior ventilation. • Internal space allows prescriptive glasses to be worn underneath. |
|  | | ■ 225229 - Smoke | |

Safety Glasses: Outdoor, High Glare and Ultraviolet (UV) Exposure

- Classification:** Outdoor: high-glare with UV exposure
- Markets:** Utility work, general industry, manufacturing, construction, oil and gas, forestry, shipbuilding, aviation, mining, transportation
- Applications:** Assembly and production work, Emergency response, Driving, Outdoor sports, Solar UV exposure, Rigging, High glare, outdoor work places
- Material:** Polycarbonate
- Features:** **Coatings:**
- ◆ *OptiRock:* Durable high performance anti-fog coating with outstanding anti-scratch properties.
 - *TuffStuff:* Excellent service time superior anti-scratch coating.
 - ▼ *Sightgard:* Anti-fog coating with effective anti-scratch properties.
- Rich mirrored or dark tinted lenses reduce glare
- 100% UV Protection, UV 400 rated
- Standards:** Certified to AS/NZS 1337.1. Medium Impact Protection
- Min Order Qty:** 12 (unless otherwise stated)

| OUTDOOR HIGH-GLARE/UV EXPOSURE APPLICATIONS | MODEL | PART NO. | PRODUCT SPECIFICATIONS |
|---|-----------------------------|---------------------------|---|
|  | Instinct Z4 Smoke Polarised | ■ 767002GBSP | <ul style="list-style-type: none"> • Dual lens permanently captured within a safety frame. • Secured hinges for robust temple arms. • Smooth soft comfort styled nose piece. • Polarised for reduced glare. |
|  | Z5 Sunset Mirror | ■ 767691SM ■ 767691SMP | <ul style="list-style-type: none"> • Polarised lens option for maximum glare protection. • Darkest allowable safety shade for maximum glare and light reduction. • Tough styling for all day wear. • Soft feel and flexible frame for comfort. • Rubberised polymer grip coat. |
|  | Z5 Smoke Polarised | ■ 767691SP | |

Safety Glasses: Goggles

Classification: Industrial: Impact and Splash
Chemical and Splash

Markets: Construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals, primary metals, transportation, shipbuilding, automotive

Applications: Cleaning, chemical mixing and use, chipping, chiseling, drilling, grinding, machining, painting, power washing, sanding, sawing, splash

Material: Polycarbonate

Features: Coatings:

◆ *OptiRock:* Durable high performance anti-fog coating with outstanding anti-scratch properties.

■ *TuffStuff:* Excellent service time superior anti-scratch coating.

▼ *Sightgard:* Anti-fog coating with effective anti-scratch properties.

100% UV Protection, UV 400 rated

* **Foam bound (as noted)**

Standards: Certified to AS/NZS 1337.1. Medium Impact Protection

Min Order Qty: 12 (unless otherwise stated)

| INDUSTRIAL | MODEL | PART NO. | PRODUCT SPECIFICATIONS | |
|---|---|---|---|---|
|  | Altimeter | ▼ 766765CAF - Clear, Anti-fog | <ul style="list-style-type: none"> • Exclusive design, hybrid eyewear with benefits of a spectacle with goggle like performance. • High base curve wraparound for maximum coverage. • Durable indirect vented frame constructed with co-injected polycarbonate and rubber. • Removable adjustable elastic strap provides firmer comfort and fit. • Arms boast flex temple tips and 3 point length adjustment to improve fit. | |
|  | Flexifold | <ul style="list-style-type: none"> ◆ 228028AM - Amber ◆ 228028CL - Clear ◆ 228028SM - Smoke | <ul style="list-style-type: none"> • Flexible, face hugging goggle with adjustable strap. • Innovative design to cover eye socket for maximum protection whilst minimising fog sources. • Dust/waterproof sponge cupping. • Open/close side ventilation. • Ideal smoke protective goggle for bushfire fighting. | |
|  | FlexiPlus | <ul style="list-style-type: none"> ▼ 229205CF - Clear, Anti-fog ▼ 229206CF - Clear, Anti-fog* ■ 229205C - Clear ▼ 229206CFV - Clear, Anti-fog, Unvented* ▼ 229206SF - Smoke, Anti-fog* | <ul style="list-style-type: none"> • Soft-frame, designed to comfortably fit most facial contours. • Polycarbonate, scratch resistant lens, protects against chemical splash and ultraviolet rays, while permitting unobstructed viewing. | |
|  | FlexiTuff | <ul style="list-style-type: none"> ▼ 224759 - Clear, Anti-fog/Chemical, Vents ■ 224761 - Clear, Standard, Vents | <ul style="list-style-type: none"> • Soft and flexible PVC frames. • Ideal eye protection for chipping and grinding. • Can also be worn over prescription eyewear. | |
|  | Responder | ▼ 766762CAF - Clear, Anti-fog | <ul style="list-style-type: none"> • Designed by MSA specifically for emergency services work. • Unobtrusive low profile design compatible with most helmets. • Durable fire retardant HTPR frame. • Unique engineered indirect vortex venting resists smoke penetration. • Weight: 132g. | |
| CHEMICAL |  | Chemical/Dust | ▼ 764265 - Clear, Anti-fog* | <ul style="list-style-type: none"> • Close Fitting Face seal. • Soft Comfortable Frame. • Wide Headband for Comfort. • Indirect Frame Venting. |
| |  | ChemPro | <ul style="list-style-type: none"> ▼ 766761CAF - Clear, Anti-fog ▼ 766761SAF - Smoke, Anti-fog | <ul style="list-style-type: none"> • Sleek and lightweight low profile design, co-injected Polycarb/Rubber Frame for ultimate seal. • Wide vision lens provides room for most prescription spectacles and improved vision. • Angular adjustable elastic strap for improved fit. • Highly compatible with most industrial head protection. • Weight: 78g. |
| |  | FlexiChem | ▼ 766763CAF - Clear, Anti-fog | <ul style="list-style-type: none"> • Soft Flex low profile frosted frame for increased comfort and fit. • Upper and lower indirect ventilation for improved airflow and reduced fogging. • Highly compatible with most Industrial Head Protection. • Weight: 115g. |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

Safety Glasses: Specialty Lenses – Indoor/Outdoor

| | |
|------------------------|---|
| Classification: | Amber: Low Light Working Conditions |
| | Blue Mirror: Outdoor applications where a task specific lens is not required. Ideal in bright conditions. |
| | Light Brown: Outdoor use where sunlight and glare cause eye strain |
| Markets: | Transportation, Agriculture, Road Works, Roofing, Concreting, Builders, Above Ground Mining, General Industry |
| Applications: | Assembly, Chipping, chiseling, drilling, grinding, machining, cleaning, sanding, sawing |
| Material: | Polycarbonate |
| Features: | Coatings: |
| | ◆ <i>OptiRock:</i> Durable high performance anti-fog coating with outstanding anti-scratch properties. |
| | ■ <i>TuffStuff:</i> Excellent service time superior anti-scratch coating. |
| | ▼ <i>Sightgard:</i> Anti-fog coating with effective anti-scratch properties. |
| | Mirror coatings reflect light to reduce glare and stress. Reduces the amount of light passing through lens. |
| | 100% UV Protection, UV 400 rated |
| Standards: | Certified to AS/NZS 1337.1. Medium Impact Protection |
| Min Order Qty: | 12 (unless otherwise stated) |

| LOW LIGHT INDOOR / OUTDOOR APPLICATIONS | MODEL | PART NO. | PRODUCT SPECIFICATIONS |
|---|-------------------|---|--|
|  | Arctic Gold | ■ 762267BG - Gold Mirror ■ 762267BL - Lite Gold | <ul style="list-style-type: none"> • High base curve wraparound style for maximum coverage. • Soft flexible low slip arms. • Soft carry pouch doubles as cleaning cloth. |
|  | Arctic M | ■ 229208A - Amber ■ 229208B - Blue Mirror | <ul style="list-style-type: none"> • Wrap Around Style - Wide Vision Lens. • Comfortable, Ultra light weight design. |
|  | BlockZ | ▼ 766759AAF - Amber ▼ 766759LCAF - Light Gold | <ul style="list-style-type: none"> • Provides excellent eye and socket coverage. • Robust impact resistant frame. • Large visibly safe paddle styled rubber tips for better grip. • Soft nose grips. |
|  | Cool Blooz | ■ 220168B - Blue Mirror ■ 220168L - Light Gold | <ul style="list-style-type: none"> • Super soft reinforced comfort frame. • Stylish design. • Excellent Optics. |
|  | Discovery | ▼ 220175BAF - Amber ▼ 220175BL - Light Gold | <ul style="list-style-type: none"> • Frame mounted wraparound lenses. • Adjustable length side arms. • Hard coat anti scratch lens. • Wrap around lens for greater protection. |
|  | Discovery II | ▼ 766764LBAF - Light Brown | <ul style="list-style-type: none"> • Fresh and sleek design. • Low weight durable frame construction. • Increased comfort with flexible temple tips. |
|  | Move | ■ 767944SM - Silver Mirror | <ul style="list-style-type: none"> • Dual lens design with wraparound protection. • Soft nose pad releases the pressure from the nose. • Adjustable arm inclination. |
|  | Nullarbor | ■ 229207BB - Blue Mirror ▼ 229207LF - Light Gold | <ul style="list-style-type: none"> • Stylish wraparound design. • Clear standard with Anti-fog, Hard coat. • Robust nylon frame. |
|  | Nullarbor Nex Gen | ◆ 767943A - Amber ■ 767943BLM - Blue Mirror ■ 767943BZM - Bronze Mirror | <ul style="list-style-type: none"> • 9.75 base with multi-fit design for all faces. • Optical class 1 lens offers users the clearest and the most panoramic view without obstruction. • Modern co-material temple design with soft temple tips. |

Accessories

Lens Cleaning Station



Supplied with 2 cans of lens cleaning spray and one pack of cleaning tissue.

| PART NO: | Description |
|----------|---|
| 762851 | Cleaning tissues - Box 200 |
| 220112 | Lens cleaning aerosol can |
| 220111 | Lens Cleaning Station with tissue and aerosol |

Clear and Clean Mini Towel

Handy self dispensing hang pack containing 100 pre-moistened mini towels in sealed foil packs. Anti-static, the exclusive formula can be used to clean not just safety and prescription eyewear, but other types of protective equipment.

- Pre-moistened mini towels.
- Ideal for cleaning eyewear, faceshields, earmuffs, respirators, and computer screens.
- Designed for wall mounting.
- Box of 100.



| PART NO: | Description |
|----------|-----------------------------|
| 762485 | Clear and Clean Mini Towels |

Hearing Protection

left/RIGHT Passive Hearing Protection

- Classification:** Headband, Passive
Slotted Helmet-Mounted, Passive
- Features:** The most comfortable muffs available.
Individual muff design for the left and right ear.
Headband design and the thinner and more flexible sealing rings ensure a better fit.
Large muffs provide more room for the ear to guarantee the right protection for all shapes and sizes of ears.
Available in both headband and cap mounted versions.
- Applications:** Heavy mechanical industries, compression rooms, airports (HIGH)
Utilities, construction, general industry (MEDIUM)
Food manufacturing, automotive, light industry (LOW)
- Markets:** General industry, manufacturing, repair and maintenance, construction, OGP, forestry, shipbuilding, mining
- Standards:** Certified to AS/NZS 1270-2002.

left/RIGHT Earmuffs, Passive

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|---------------------|----------|-------|-------------------|---|
|  | left/RIGHT (LOW) | 766241 | 4 | 25dB | • For use in low-noise environments, such as pharmaceuticals and outside maintenance. |
|  | left/RIGHT (MEDIUM) | 766238 | 5 | 30dB | • For use in medium-noise environments, such as oil, gas and petrochemical, forestry and agriculture. |
|  | left/RIGHT (HIGH) | 766243 | 5 | 32dB | • For use in high-noise environments, such as paper mills, foundries, mines and airports. |

left/RIGHT Helmet Mounted, Passive

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|---------------------|----------|-------|-------------------|---|
|  | left/RIGHT (LOW) | 766242 | 4 | 24dB | • For use in low-noise environments, such as pharmaceuticals and outside maintenance. |
|  | left/RIGHT (MEDIUM) | 766239 | 5 | 29dB | • For use in medium-noise environments, such as oil, gas and petrochemical, forestry and agriculture. |
|  | left/RIGHT (HIGH) | 766244 | 5 | 31dB | • For use in high-noise environments, such as paper mills, foundries, mines and airports. |

left/RIGHT Hygiene Kits

| | PRODUCT NAME | PART NO. | PRODUCT SPECIFICATIONS |
|---|-----------------------------------|----------|---|
|  | left/RIGHT™ - Hygiene Kit - Low | 10092878 | • Cushions and inserts |
| | left/RIGHT™ - Hygiene Kit - Med | 10092879 | • Works with left/RIGHT passive helmet-mounted or headband products |
| | left/RIGHT™ - Hygiene Kit - High | 10092880 | • Replace regularly to retain comfort, performance and hygiene |
| | left/RIGHT™ - Hygiene Kit - AM/FM | 10094605 | |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

Passive Hearing Protection

- Classification:** Headband, Passive
Slotted Helmet-Mounted, Passive
- Applications:** High-noise environments, industrial plants, construction sites
- Markets:** General industry, manufacturing, repair and maintenance, construction, OGP, forestry, shipbuilding, mining
- Standards:** Hearing Protector Class 5 tested to AS/NZS1270. When tested, used and maintained as specified in AS/NZS1269, this hearing protector may be used in noise up to 110dB (A) assuming an 85dB (A) criterion.

Blocka Earmuffs

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|--------------------------|---|-------|-------------------|--|
|  | Blocka B10H Earmuff | 767536 | 5 | 32dB | <ul style="list-style-type: none"> Stainless Steel Headband. Soft ear cushions. Headband comfort pad. Multiple headband adjustments. |
|  | Blocka B10F Earmuff | 767537 | 5 | 31dB | <ul style="list-style-type: none"> Foldable Headband. Headband Comfort Pad. Multiple headband adjustments. |
|  | Blocka B10N Earmuff | 767538 | 5 | 32dB | <ul style="list-style-type: none"> Stainless steel headband. Soft comfortable foam ear cushions. |
|  | Blocka Foldable Earmuffs | 767019 - Orange 767020 - Yellow 767021 - Hearing Protection Belt Clip | 5 | 27dB | <ul style="list-style-type: none"> Folding headband earmuff. Economically priced. Soft comfortable foam ear cushions. Adjustable headband comes with belt clip fitted. |

EXC Earmuffs

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|-------------------------|----------|-------|-------------------|---|
|  | EXC Headband | 763930 | 5 | 29dB | <ul style="list-style-type: none"> Unique injection moulded inserts provide both excellent noise attenuation and maximum comfort. EXC is suitable for most environments where hearing protection is required. |
| | EXC Helmet Mounted 30mm | 763932 | 5 | 28dB | |
| | EXC Helmet Mounted 25mm | 763935 | 5 | 28dB | |
| | EXC Muff Hygiene Kit | 764392 | | | |

HPE Earmuffs

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|-------------------------|----------|-------|-------------------|--|
|  | HPE Headband | 763931 | 5 | 29dB | <ul style="list-style-type: none"> The HPE ear muffs have been designed to offer protection against very high levels of noise, particularly at low frequency. Thick, soft, foam-filled cushions combine maximum comfort with a perfect seal. |
| | HPE Helmet Mounted 30mm | 763934 | 5 | 29dB | |
| | HPE Muff Hygiene Kit | 764393 | | | |

Sound Control® SH Earmuffs



| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|--|----------|--|-------------------|---|
|  | Sound Control SH - For MSA Full Brim Slotted V-Gard Hats | 10129327 | ANSI S3.19-1974 CSA Class A EN352-3:2002 | 25dB | <ul style="list-style-type: none"> Spring design offers low pressure and a high level of comfort. Three distinct wearing positions for ease of use. Excellent grip makes it easy to adjust the cups, even when wearing gloves. Provides maximum space for the ears inside the cup. Soft ear cup material for extended wear. Retains the Class E dielectric rating on the V-Gard Full Brim Hard Hat. |

left/RIGHT Electronic Hearing Protection

- Classification:** Headband, Electronic, FM Radio & Cut Off Combination
 Helmet-Mounted, Electronic, FM Radio & Cut Off Combination
- Features:** T3.5mm RCA Aux Input
 AA battery operation
 Battery save function
 Low battery warning.
 Attaches to MSA V-Gard™ and V-Gard™ 500 (Helmet Mounted)
- Applications:** Manufacturing/assembly, high-impulse noise environments (such as steel work)
- Markets:** General industry, manufacturing, repair and maintenance, construction, OGP, forestry, mining, agriculture
- Standards:** Certified to AS/NZS 1270-2002.

left/RIGHT Headband, Electronic

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|--|----------|-------|-------------------|--|
|  | left/RIGHT™ FM Pro Headband Blue Earmuff | 767390 | 5 | 28dB | <ul style="list-style-type: none"> • Cut off function enables face to face communication, whilst retaining hearing protection. • Push buttons for automatic tuning and volume control. • Frequency 88-108MHz. |
|  | left/RIGHT™ CutOff Pro Headband Blue | 767392 | 5 | 28dB | <ul style="list-style-type: none"> • Cut off function enables face to face communication, whilst retaining hearing protection. • Allows the wearer to hear important sound and warning signals. • Amplification of weak sounds for situational awareness. |
|  | left/RIGHT™ Dual Pro Headband Blue | 767394 | 5 | 28dB | <ul style="list-style-type: none"> • Combines function of both FM and Cut off versions. • Push to listen function for easy face to face communication. |

left/RIGHT Helmet Mounted, Electronic

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|--|----------|-------|-------------------|--|
|  | left/RIGHT™ FM Pro Helmet Mounted Blue | 767391 | 5 | 28dB | <ul style="list-style-type: none"> • Cut off function enables face to face communication, whilst retaining hearing protection. • Push buttons for automatic tuning and volume control. • Frequency 88-108MHz. |
|  | left/RIGHT™ CutOff Pro Helmet Mounted Blue | 767393 | 5 | 28dB | <ul style="list-style-type: none"> • Cut off function enables face to face communication, whilst retaining hearing protection. • Allows the wearer to hear important sound and warning signals. • Amplification of weak sounds for situational awareness. |
|  | left/RIGHT™ Dual Pro Helmet Mounted | 767395 | 5 | 28dB | <ul style="list-style-type: none"> • Combines function of both FM and Cut off versions. • Push to listen function for easy face to face communication. |

Supreme

| | PRODUCT NAME | PART NO. | PRODUCT SPECIFICATIONS |
|---|--|---------------|--|
|  | Basic Headband - Green Cup, Black Leather Hb | SOR75300 | <ul style="list-style-type: none"> • A range of hearing protectors for military, law enforcement, hunting and shooting applications. • The Supreme Pro has been developed to meet MIL specifications and to function in extreme conditions. • It is a hearing protector with an innovative feature: built-in level-dependent amplifiers. EN 352-4. • Cut off function enables face to face communication, whilst retaining hearing protection. <p>Supreme Pro X headband: SNR 25 dB, H = 28, M = 21, L = 16</p> |
| | Pro Headband - Green Cup, Black Leather Hb | SOR75302 | |
| | Pro Headband - Black Cup, Black Leather Hb | 765498 | |
| | Pro Neckband - Black Cup, Cloth Nb | SOR76302-02 | |
| | Pro X - Green Cup, Camo Hb | SOR75302-X | |
| | Pro X Neckband - Green Cup, Cloth Nb | SOR76302-X | |
| | Pro X Black - Black Cup, Cloth Hb | SOR75302-X-02 | |
| | Pro X Neckband Black - Black Cup, Cloth Nb | SOR76302-X-02 | |
| | Hygiene Kit Foam | 764458 | |
| | Hygiene Kit Gel | SOR60092 | |

HEFH - Head, Eye, Face, Hearing & Miscellaneous Protection

Earplugs

- Classification:** Earplugs, Foam Corded & Uncorded
Earplugs, Silicone Corded & Uncorded
- Applications:** High-noise environments, industrial plants, construction sites
- Markets:** General industry, manufacturing, repair and maintenance, construction, OGP, forestry, shipbuilding, mining
- Standards:** Hearing Protector Class 5 tested to AS/NZS1270. When tested, used and maintained as specified in AS/NZS1269, this hearing protector may be used in noise up to 110dB (A) assuming an 85dB (A) criterion.

Blocka Earplugs

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|-------------------------------------|----------|-------|-------------------|---|
|  | Blocka PU Earplugs (Uncorded) | 767541 | 5 | 29dB | <ul style="list-style-type: none"> • Soft PU Foam • Disposable • Box 200 pairs |
|  | Blocka PU Earplugs (Corded) | 767542 | 5 | 29dB | <ul style="list-style-type: none"> • Soft PU foam with Cord • Disposable • Box 100 pairs |
|  | Blocka Silicone Earplugs - Uncorded | 767543 | 4 | 24dB | <ul style="list-style-type: none"> • Soft Silicone • Reusable • Box 200 pairs |
|  | Blocka Silicone Earplugs - Corded | 767544 | 4 | 24dB | <ul style="list-style-type: none"> • Soft Silicone with Cord • Reusable • Box 100 pairs |

RIGHT™ Protection Earplugs

| | PRODUCT NAME | PART NO. | CLASS | SLC ₈₀ | PRODUCT SPECIFICATIONS |
|---|---|----------|-------|-------------------|---|
|  | Foamplugs Uncorded, Small/Medium Box 200 | 766228 | 4 | 22dB | <ul style="list-style-type: none"> • RIGHT™ is a complete range of ear plugs with high noise attenuation and excellent comfort. • The RIGHT™ range includes disposable, reusable, non-corded, corded, banded and detectable plugs. • The foam disposable plugs come in two sizes to guarantee a perfect fit. • The banded version has a separate left and right plug to ensure a high level of protection and comfort. • Certified to AS/NZS 1270. |
| | Foamplugs Refill, Small/Medium Bag 200 | 766226 | 4 | 22dB | |
| | Foamplugs Corded, Small/Medium Box 100 | 766230 | 4 | 22dB | |
| | Foamplugs Uncorded, Medium/Large Box 200 | 766229 | 5 | 26dB | |
| | Foamplugs Refill, Medium/Large Bag 200 | 766227 | 5 | 26dB | |
| | Foamplugs Corded, Medium/Large Box 200 | 766231 | 5 | 26dB | |
| | Foamplugs Corded Detectable, Medium/Large Box 100 | 766232 | 5 | 26dB | |
| | Reusable Earplugs, Corded Box 50 | 766225 | 3 | 21dB | |
| | Reusable Earplugs, Corded, Detectable Box 50 | 766224 | 3 | 21dB | |
| | Banded Earplugs Box 10 | 766233 | 2 | 17dB | |
| | Dispenser for foamplugs | 766236 | | | |
| Replacement pods for Banded - Box 100 | 766234 | | | | |



There's a proper way to insert a formable earplug. Follow these three easy steps:



1. Roll the plug between your thumb and your forefinger until it's thin and long.



2. Pull the top of your pinna back with your opposite hand to straighten your ear canal. Slide the plug into the canal.



3. Hold the plug for a count of 20-30 seconds while it expands. Once the seal is acceptable, sounds will be reduced.



Harnesses, Lanyards & Self Retracting Devices
Anchorage Connectors
Horizontal and Vertical Lifelines
Descent and Rescue
Fall Protection Kits
Confined Space Equipment



MSA has been in the business of safety at heights since 1930. Today we are at the forefront of innovation in fall protection products.

MSA is proud of its Fall Protection range and with the new Workman® and Gravity® range of height safety products we can assist you with all of your fall protection needs.

As part of a global business, MSA Australia has access to a complete range of product from facilities in North America, Mexico, China,

and Europe. This access enables MSA Australia to carry stocks of the complete MSA fall protection product range.

We stock a full range of anchorages, full body harnesses, connections and descent & rescue products to ensure workers at height have the protection they need at all times.

Fall Protection



OUR COMMITMENT TO YOU ...

The MSA Fall Protection Promise

MSA promises to replace any MSA harness and/or textile lanyard FREE of charge if a user falls while properly using our product.

If the fall occurs while using an MSA mechanical device, we will re-certify the device FREE of charge.

MSA believes that it is important to provide high quality products and recognize safe work practices.

Products should be returned with a signed copy of the accident report to:

MSA

Attn: Fall Protection Product Line Manager

11 Columbia Way

Baulkham Hills NSW 2153

MSA makes Fall Protection as easy as ABCD ensuring you have everything you need to work at height safely.

Anchorage:

Anchor points are an important part of any system. They should be suitably positioned for the intended operation and are required to be structurally sound.

Body support:

A full body harness with a front and rear fall arrest connection. You must select the harness applicable to your work application.

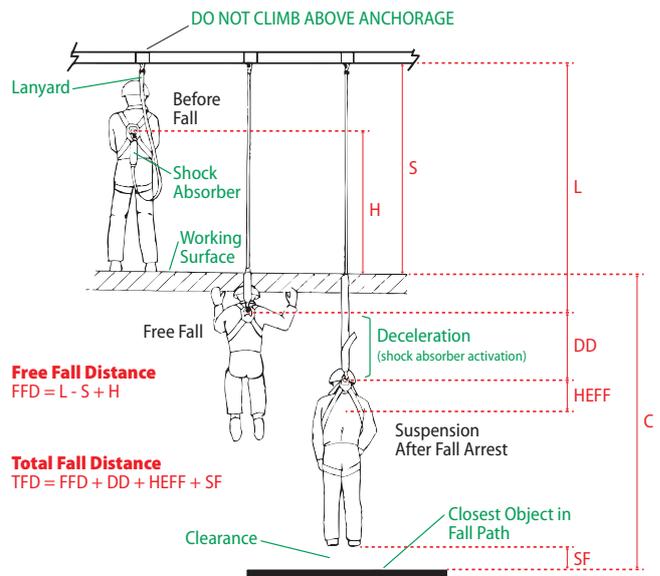
Connection means:

What is needed between the anchorage and harness? As a minimum, a shock absorbing lanyard assembly in either a single or twin leg assembly. Another alternative is to select a personal fall limiter or self retracting lanyard, which has the added benefit of reducing your free fall distance and increasing your mobility.

Descent & Rescue:

Typically the forgotten term in a PPE selection plan. Suspension trauma can occur in as little as 5 minutes after a person has fallen in a harness. Do not rely on local rescue authorities to be on site within 5 minutes. MSA has a range of simple to use rescue products to assist you in performing a quick, safe and successful rescue. We also offer a range of confined space equipment to assist you with your descent.

Fall Protection Distance Calculation for a Shock Absorbing Lanyard



Harness Sizing Chart

| Height in mm | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
|--------------|-------|----|----|----|----|-----|-----|-----|-----|-----|
| 2.0 | SMALL | | | | | | | | | |
| 1.9 | SMALL | | | | | | | | | |
| 1.8 | SMALL | | | | | | | | | |
| 1.7 | SMALL | | | | | | | | | |
| 1.6 | SMALL | | | | | | | | | |
| 1.5 | SMALL | | | | | | | | | |

Fall Definitions

As per the Australian & New Zealand Standard, AS/NZS 1891.4, there are four types of fall situations:

- Restraint Technique – When the person is not physically able to reach a position where a fall can occur due to a restraint lanyard between the anchor point and the harness
- Restrained Fall – When the person is using a pole strap whilst working on a pole
- Limited Free Fall – When the person is limited to a free fall distance of less than 600 mm
- Free Fall – When the person is exposed to a free fall distance of greater than 600 mm

In all cases, MSA recommends that the user wear a full body harness.

Calculating Total Fall Distance

Knowing how to calculate Total Fall Distance is just as important as selecting the proper harness, lanyard, anchorage connector and anchorage point for the specific task to be performed.

Total Fall Distance is the sum of the Free Fall Distance (FFD), Deceleration Distance (DD), Harness Effects (HEFF), and Vertical Elongation (VEL). It is also wise to include a Safety Factor (SF) of at least one metre into the formula. Total Fall Distance can be calculated using the following formula:

$$TFD = FFD + DD + HEFF + VEL + SF$$

Free Fall Distance (FFD) - The vertical distance a worker travels between the onset of a fall until just prior to the point where the fall arrest system begins to arrest the fall. For a shock absorbing lanyard, this can be calculated as the length of the lanyard “L”, minus the straight line distance between the anchor and the working surface “S”, plus the distance between the person’s lanyard attachment point and the working surface “H”. As per the AS/NZS 1891.4 standard, Free Fall Distance must not exceed 2 m.

$$FFD = L - S + H$$

Did you know this is where the true benefit of using a self retracting device, such as a self retracting lanyard (SRL) or personal fall limiter (PFL) comes into consideration, as your lifeline distance “L” will always be the minimum length required without restricting your mobility. Also to decrease your free fall distance always keep your anchor point as far above your attachment point on the harness as possible.

Deceleration Distance (DD) – The vertical distance a worker travels between the activation of the fall arrest system and the final fall arrest. For a shock absorbing lanyard the maximum distance permitted is 1.75 m, and for a self-retracting device, the maximum distance permitted is 0.7 m.

Harness Effects (HEFF) – The stretch in the harness during fall at rest. This can be estimated at approximately 0.3 m.

Vertical Elongation (VEL) – The stretch in the lifeline of the personal fall arrest system. Vertical elongation is measured on the part of the lifeline that is under tension during deceleration and final fall arrest. This variable will change drastically depending upon the type of fall arrest system you are using. For a shock absorbing lanyard or self retracting device, this is factored into DD, but for a rope grab system or horizontal lifeline, vertical elongation must be calculated based on the stretch on the vertical or horizontal lifelines in those systems.

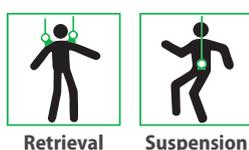
Safety Factor (SF) – An additional factor of safety to ensure that you have required clearance below your working surface. We recommend a safety factor of 1 m.

Once you have calculated your Total Fall Distance you must ensure that your clearance between your working surface and the next closest object in the fall path is less than your calculated distance.

Selecting a Harness

Harness selection will be dependent on your particular working environment. To ease the selection processes, look out for the appropriate icons for your attachment and application needs to find your ideal harness.

Attachment



Application





The Safety Company



Two Great Companies – One Great Connection

In October 2015, MSA acquired Latchways plc, a leading developer and manufacturer of highly engineered fall protection systems and solutions. Together, we bring unprecedented global leadership to protecting workers and satisfying customers around the world.

About

Latchways was founded in 1974 and is acknowledged as the first company to successfully develop and market engineered cable-based fall arrest systems and has become a worldwide leader synonymous with engineering strength in fall protection.

In the 40 years since its formation, Latchways has grown to a position of eminence in fall protection solutions. Today Latchways engineered systems set the standards for quality, efficiency and value the world over.

Premium fall protection solutions tailored to your project needs

The Latchways range of fall protection is comprehensive in its care and concern for those working at height. Our versatile fall protection systems – from roof to tower – offer solutions for nearly every work environment. Our experience working with so many different industries, from aerospace to tourism, means we have thorough knowledge of the particular fall protection needs specific to a variety of applications.

- Commercial and Public Buildings
- Transmission Towers, Distribution and Telecommunications
- Bridges and Infrastructure
- Industrial Manufacturing
- Oil and Gas
- Wind Energy
- Road and Rail
- Stadiums and Tourism
- Aerospace

Putting our products to the test each and every day

Every MSA Latchways product is rigorously tested for strength, durability, functionality and integrity. Our mission is, and always will be, to bring you superior-quality merchandise that is both verified and trustworthy.

MSA ensures that all products are tested beyond the requirements of relevant legislative standards. We apply a minimum safety factor of 2, resulting in our products outperforming industry legislation. Independent testing is carried out to externally verify the inherent quality and durability of Latchways systems. This also ensures complete compatibility between Latchways products and applications such as wind turbine tower internals.

By performing stricter-than-the-rest tests, MSA never misses an opportunity to earn your trust.



Body Harness

Workman® Harness

Quality, comfort, and value come together in our Workman® line of products. Our Workman® Harness range is a dependable source for all your basic height safety needs.

Workman® Premier Harness



Qwik-Fit Leg Strap Connectors



Bayonet Leg Strap Connectors



All purpose vest-style harness

- Rear D-Ring and frontal loops that come together provide users with their choice of fall arrest attachments
- Includes a load-indicator to alert you when the harness has been involved in a fall event or is due for replacement
- Newly designed, wear resistant, card package protects harness information and inspection detail
- Yellow polyester webbing for increased visibility
- Choice of Qwik-Fit or Bayonet leg straps for easy adjustment
- Web retainer collars to keep excess webbing neat
- Colour contrasting thigh and torso straps simplify donning
- Adjustable leg pads for ergonomic comfort
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|------------------|
| 10112901 | Qwik-Fit, Small |
| 10112902 | Qwik-Fit, Medium |
| 10112903 | Qwik-Fit, Large |
| 10112904 | Bayonet, Small |
| 10112905 | Bayonet, Medium |
| 10112906 | Bayonet, Large |

Workman® Premier Harness with Adjustable Webbing Lanyard



All the features and benefits of the Premier Harness PLUS:

- Fully integrated adjustable webbing lanyard with a choice of steel snaphook or triple action karabiner anchor attachment
- Economical choice for harness and lanyard users
- Peace of mind knowing users never get caught out without their lanyard
- Ideal option for the rental/hire market or high harness and lanyard turnover companies
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|---------------------------------|
| 10149237 | Snaphook, Small |
| 10149238 | Snaphook, Medium |
| 10149239 | Snaphook, Large |
| 10149251 | Triple Action Karabiner, Small |
| 10149252 | Triple Action Karabiner, Medium |
| 10149253 | Triple Action Karabiner, Large |

Fall Protection

Workman® Crossover Harness



All purpose crossover-style harness

- The Workman®Crossover Harness is the lightest harness in our range, making it an excellent choice for all day wear
- Frontal attachment D-ring allows for effective connection during rescue, descent or ladder climbing
- Comfort and adjustability achieved with the unique rear webbing spacer allowing the user to find the perfect fit
- Yellow polyester webbing for increased visibility
- Web retainer collars to keep excess webbing neat
- Colour contrasting thigh and torso straps simplify donning
- Featuring Qwik-Fit connection chest and leg straps for easy adjustment
- Now available in superlight, corrosion resistant aluminium (less than 1kg!) and corrosion resistant stainless steel
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|-------------------------|
| 10153871 | Steel, Small |
| 10153872 | Steel, Medium |
| 10153873 | Steel, Large |
| 10157826 | Aluminium, Small |
| 10157828 | Aluminium, Medium |
| 10157829 | Aluminium, Large |
| 10155462 | Stainless Steel, Small |
| 10155461 | Stainless Steel, Medium |
| 10155460 | Stainless Steel, Large |

Workman® Utility Harness



All the features and benefits of the Premier Harness PLUS:

- Work positioning side D-rings, compatible with a pole strap
- Added comfort features including back and thigh padding to ease pressure during extended use
- Convenient tool loops to store equipment safely while at height
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|-------------|
| 10112907 | Small |
| 10112908 | Medium |
| 10112909 | Large |

Thermatek Harness

Thermatek Harness



- Lightweight harness constructed of Kevlar/Nomex blend webbing which is resistant to chemicals, weld spatter and other heat applications
- Green webbing & contrasting Kevlar yellow stitching for easy inspection
- Qwik-Fit leg straps for easy connection
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|-------------------|
| 766209 | One Size Fits All |

Thermatek Lanyard now available. See Lanyard table on page page 88

Gravity® Miners Harness and Belts

Gravity® Miners Harness and Belts



The Gravity® Miners Harness and Belt range has been designed specifically for the mining industry. Harsh environmental conditions and unique hazards demand working at heights fall protection and utility belts that are durable, long lasting and multi-functional.

This premium designed range is constructed using stainless steel buckles and adjusters ensuring longer product life in corrosive environments. The equipment belt provides an ergonomic solution for storage of Self Rescuer, such as MSA's SSR 30/100 or SavOx and even your I.D. Tags!

Available in three configurations in small, medium and large sizes

- Gravity® Miners Harness
- Gravity® Miners Belt with Shoulder Braces
- Gravity® Miners Belt

Gravity® Miners Harness is certified to AS/NZS 1891.1:2007



| Description | PART NO. | SIZE | | |
|--|----------|------|---|---|
| | | S | M | L |
| GRAVITY® MINERS HARNESS | 766603 | X | | |
| | 766602 | | X | |
| | 766604 | | | X |
| GRAVITY® MINERS BELT | 766803 | X | | |
| | 766802 | | X | |
| | 766804 | | | X |
| GRAVITY® MINERS BELT WITH SHOULDER HARNESS | 766903 | X | | |
| | 766902 | | X | |
| | 766904 | | | X |

Gravity® Harness

MSA's Gravity® range of harnesses provide a superior mix of style, quality and versatility. Premium features and advanced comfort are at the essence of our newly introduced Gravity® line of products.

Gravity® Suspension Harness



The Gravity® Suspension Harness is designed to offer superior comfort, safety and quality to users who work at heights suspended.

- Strategically positioned ventral attachment distributes the load between the waist belt and leg loops during suspension
- The breathable waist pad is constructed from a multi-layered padding which dissipates pressure from the webbing to reduce fatigue when working for long periods of time
- Bayonet buckles with locking engagement window confirms a secure connection
- Shoulder padding protects the neck from chafing while providing the necessary back support
- Premium hardware fittings with wide opening aluminium D-rings (conformance with IRATA standard), triple action karabiner and single hand adjusting buckles
- A total of five rigid tool loops on the waist belt and leg connections
- Side D-rings can be conveniently stowed away when not in use
- Dual load indicators identifies if the harness has been subjected to a fall or is ready for replacement
- RFID enabled for easy tracking
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|-------------|
| 10150459 | Small |
| 10150460 | Medium |
| 10150461 | Large |

Gravity® Utility Harness



The Gravity® Utility Harness is ideal for professional users to climb, suspend, position, enter a confined space and perform a rescue operation. Coupled with the unique ASTM rating, this product has been tested to protect you from a fall even after exposure to an Arc Flash. This is a heavy duty premium harness suitable for even the most extreme and harsh conditions.

- Waist and leg padding manufactured with flame resistant fabrics (Kevlar® aramid fibre)
- Flame retardant reflective tape
- PVC coated buckles and D-Rings provide voltage resistance up to 9kV
- The harness is constructed from a nylon webbing that has a minimum static strength of 31kN
- Built in load indicator identifies if the harness has been subject to a fall or is ready for replacement
- RFID enabled for easy tracking
- ASTM F887 rated harness (Arc Flash)
- Certified to AS/NZS 1891.1:2007

| PART NO: | Description |
|----------|-------------|
| 10150939 | Small |
| 10150940 | Medium |
| 10150951 | Large |

Arcsafe Lanyard now available. See Lanyard table on page page 88

Work Positioning

Restraint Lanyards & Lifelines

- To be used as part of a restraint technique, preventing the user from reaching a position where a fall is possible.



Pole Straps

- Ideal for workers on a pole or structure needing restrained fall arrest positioning.
- Heavy duty 44mm polyester webbing and protective outer sheath.
- Easy webbing length adjuster.
- Certified to AS/NZS 1891.1:2007.



| PART NO: | Description | Material | Fixed or Adjustable | Length (m) | Connections |
|--------------------|---|------------|---------------------|------------|-------------------------|
| 10112985 | Restraint Lanyard | Web | Adjustable | 2 | Triple Action Karabiner |
| 10112986 | Restraint Lanyard | Kernmantle | Fixed | 2 | Aluminium Karabiner |
| 229703-10.0-1-4-13 | Restraint Lifeline with built-in manual rope grab | Kernmantle | Adjustable | 10 | Snaphook |
| 229703-15.0-1-4-13 | Restraint Lifeline with built-in manual rope grab | Kernmantle | Adjustable | 15 | Snaphook |
| 229703-20.0-1-4-13 | Restraint Lifeline with built-in manual rope grab | Kernmantle | Adjustable | 20 | Snaphook |
| 229703-25.0-1-4-13 | Restraint Lifeline with built-in manual rope grab | Kernmantle | Adjustable | 25 | Snaphook |
| 229601-2.0-31-31 | Pole Strap | Web | Adjustable | 2 | Steel Snaphook |
| 229601-2.0-5-5 | Pole Strap | Web | Adjustable | 2 | Aluminium Snaphook |
| 229601-2.5-31-31 | Pole Strap | Web | Adjustable | 2.5 | Steel Snaphook |
| 229601-2.5-5-5 | Pole Strap | Web | Adjustable | 2.5 | Aluminium Snaphook |
| 229601-3.0-31-31 | Pole Strap | Web | Adjustable | 3 | Steel Snaphook |
| 229601-3.0-5-5 | Pole Strap | Web | Adjustable | 3 | Aluminium Snaphook |

Connection Means

Shock Absorbing Lanyards

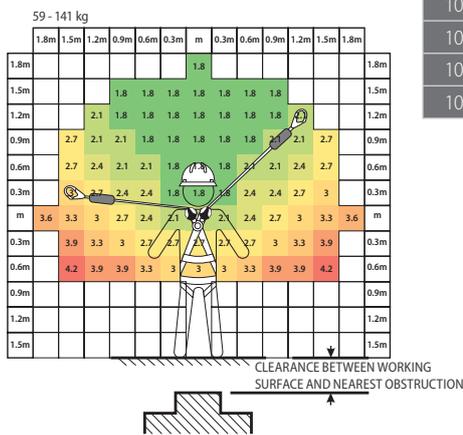
| Lanyard Type | Part No | Item No. | Description | Webbing | Kernmantle | Cable (SS) | Length (M) | Thickness (mm) | Single Leg | Twin Leg | Fixed | Adjustable | HARNES ATTACHMENT | | | | | | |
|-------------------------------|------------------|----------|---|---------|------------|------------|------------|----------------|------------|----------|-------|------------|-------------------|---------------|------------------------------|-----------------------------|-----------------------------|----------------|----------------|
| | | | | | | | | | | | | | Snaphook (Stl) | Snaphook (Al) | Karabiner (Tri Action - Stl) | Karabiner (Tri Action - SS) | Karabiner (Tri Action - Al) | Karabiner (Al) | Cow Hitch Loop |
| Single Leg Webbing Lanyard | 10112943 | 1 | 2.0m Adjustable Snaphook (Stl) - Snaphook (Stl) | ■ | | | 2 | ■ | | | | ■ | ■ | | | | | | |
| | 10112944 | 2 | 2.0m Adjustable Snaphook (Stl) - Scaffold Hook (Stl) | ■ | | | 2 | ■ | | | | ■ | ■ | | | | | | |
| | 10112945 | 3 | 2.0m Adjustable Snaphook (Stl) - Scaffold Hook (Al) | ■ | | | 2 | ■ | | | | ■ | ■ | | | | | | |
| | 10112946 | 4 | 2.0m Adjustable Snaphook (Stl) - Karabiner (Al) | ■ | | | 2 | ■ | | | | ■ | ■ | | | | | | |
| | 10112947 | 5 | 2.0m Adjustable Snaphook (Stl) - Snaphook (Al) | ■ | | | 2 | ■ | | | | ■ | ■ | | | | | | |
| | 10112953 | 6 | 2.0m Adjustable Karabiner (Tri Action - Stl) - Karabiner (Tri Action - Stl) | ■ | | | 2 | ■ | | | | ■ | | | ■ | | | | |
| | 10112954 | 7 | 2.0m Adjustable Karabiner (Tri Action - Stl) - Scaffold Hook (Stl) | ■ | | | 2 | ■ | | | | ■ | | | ■ | | | | |
| | 10170771 | NEW - | 2.0m Adjustable Karabiner (Tri Action - SS) - Karabiner (Tri Action - SS) | ■ | | | 2 | ■ | | | | ■ | | | | | ■ | | |
| | 10165495 | NEW - | 2.0m Adjustable Karabiner (Tri Action - SS) - Scaffold Hook (Tri Action - Al) | ■ | | | 2 | ■ | | | | ■ | | | | | ■ | | |
| Twin Leg Webbing Lanyard | 10112948 | 8 | 2.0m Adjustable Snaphook (Stl) - Snaphook (Stl) | ■ | | | 2 | | ■ | | | ■ | ■ | | | | | | |
| | 10112949 | 9 | 2.0m Adjustable Snaphook (Stl) - Scaffold Hook (Stl) | ■ | | | 2 | | ■ | | | ■ | ■ | | | | | | |
| | 10112950 | 10 | 2.0m Adjustable Snaphook (Stl) - Scaffold Hook (Al) | ■ | | | 2 | | ■ | | | ■ | ■ | | | | | | |
| | 10112951 | 11 | 2.0m Adjustable Snaphook (Stl) - Karabiner (Al) | ■ | | | 2 | | ■ | | | ■ | ■ | | | | | | |
| | 10112958 | 12 | 2.0m Adjustable Karabiner (Tri Action - Stl) - Karabiner (Tri Action - Stl) | ■ | | | 2 | | ■ | | | ■ | | | ■ | | | | |
| | 10112960 | 13 | 2.0m Adjustable Karabiner (Tri Action - Stl) - Scaffold Hook (Al) | ■ | | | 2 | | ■ | | | ■ | | | ■ | | | | |
| | 10165497 | NEW - | 2.0m Adjustable Karabiner (Tri Action - Al) - Scaffold Hook (Tri Action - Al) | ■ | | | 2 | | ■ | | | ■ | | | | | ■ | | |
| Single Leg Kernmantle Lanyard | 10149109 | 14 | 2.0m x 12mm Fixed Snaphook (Stl) - Snaphook (Stl) | | ■ | | 2 | 12 | ■ | | ■ | | ■ | | | | | | |
| | 10112968 | 15 | 2.0m x 12mm Fixed Karabiner (Tri Action - Stl) - Karabiner (Tri Action - Stl) | | ■ | | 2 | 12 | ■ | | ■ | | | | ■ | | | | |
| | 10164801 | NEW - | 2.0m x 12mm Fixed Karabiner (Tri Action - SS) - Karabiner (Tri Action - SS) | | ■ | | 2 | 12 | ■ | | ■ | | | | | ■ | | | |
| | 10164802 | NEW - | 2.0m x 12mm Fixed Snaphook (Al) - Snaphook (Al) | | ■ | | 2 | 12 | ■ | | ■ | | | ■ | | | | | |
| | 765600-1.5-35-12 | - | 1.5m x 12mm Fixed Karabiner (Tri Action - Stl) - Karabiner (Stl - 50mm Gate) | | ■ | | 1.5 | 12 | ■ | | ■ | | | | ■ | | | | |
| | 765600-1.5-35-35 | - | 1.5m x 12mm Fixed Karabiner (Tri Action - Stl) - Karabiner (Tri Action - Stl) | | ■ | | 1.5 | 12 | ■ | | ■ | | | | ■ | | | | |
| Twin Leg Kernmantle Lanyard | 10149108 | 16 | 2.0m x 12mm Fixed Snaphook (Stl) - Snaphook (Stl) | | ■ | | 2 | 12 | | ■ | ■ | | ■ | | | | | | |
| | 10112974 | 17 | 1.5m x 12mm Fixed Karabiner (Tri Action - Stl) - Scaffold Hook (Stl) | | ■ | | 1.5 | 12 | | ■ | ■ | | | | ■ | | | | |
| | 10112976 | 18 | 1.5m x 12mm Fixed Karabiner (Tri Action - Stl) - Snaphook (Al) | | ■ | | 1.5 | 12 | | ■ | ■ | | | | ■ | | | | |
| Single Leg Cable Lanyard | 765604-2.0-31-7 | - | 2.0m x 5mm Fixed Snaphook (Stl) - Scaffold Hook (Al) | | | ■ | 2 | 5 | ■ | | ■ | | ■ | | | | | | |
| | 765604-2.0-31-31 | 19 | 2.0m x 5mm Fixed Snaphook (Stl) - Snaphook (Stl) | | | ■ | 2 | 5 | ■ | | ■ | | ■ | | | | | | |
| ArcSafe Lanyard | 10165183 | NEW 20 | 1.8m Single Leg Fixed Cow Hitch Loop - Snaphook (Stl) | ■ | | | 1.8 | ■ | | | | ■ | | | | | | | ■ |
| | 10165184 | NEW 21 | 1.8m Twin Leg Fixed Cow Hitch Loop - Snaphook (Stl) | ■ | | | 1.8 | | ■ | | | ■ | | | | | | | ■ |
| | 10165256 | NEW - | 1.8m Single Leg Fixed Cow Hitch Loop - Scaffold Hook (Stl) | ■ | | | 1.8 | ■ | | | | ■ | | | | | | | ■ |
| | 10165257 | NEW - | 1.8m Twin Leg Fixed Cow Hitch Loop - Scaffold Hook (Stl) | ■ | | | 1.8 | | ■ | | | ■ | | | | | | | ■ |
| Thermatek Lanyard | 10165696 | NEW 22 | 1.8m Single Leg Adjustable Snaphook (Stl) - Snaphook (Stl) | ■ | | | 1.8 | ■ | | | ■ | ■ | | | | | | | |
| Short Shock Absorber | 10124597 | 23 | Workman® Short Shock Absorber - Snaphook (Stl) - Snaphook (Stl) | | | | | | ■ | | ■ | | ■ | | | | | | |
| | 10124599 | 24 | Workman® Short Shock Absorber - Karabiner (Tri Action - Stl) - Karabiner (Tri Action - Stl) | | | | | | ■ | | ■ | | | | ■ | | | | |
| | 10164756 | NEW - | Workman® Short Shock Absorber - Snaphook (Stl) - N/A | | | | | | ■ | | ■ | | ■ | | | | | | |

Workman® Personal Fall Limiters

Workman® Mini PFL NEW



Standard MSA Workman Mini PFL Anchorage Location



The Workman Mini Personal Fall Limiter (PFL) is the premier option in MSA's line of self-retracting devices (SRDs) for users working at heights. The internal fast-acting pawl lock mechanism offers the most versatile, compact, self-retracting device on the market, allowing for increased user safety at lower heights.

Fall limiter design stops a fall quickly, providing workers with the ability to tie off at lower levels below the D-ring. Housing design is compact and lightweight; users can replace their standard 1.8 m energy-absorbing lanyards. The Workman Mini PFL is available in both single and twin-leg configurations.

| PART NO: | Description | Single | Twin | Length (m) | Anchorage Connector | Harness Connector |
|----------|----------------------------|--------|------|------------|-------------------------|-------------------|
| 10160394 | Workman Mini PFL | ■ | | 1.8 | 36C Snaphook | TA Karabiner |
| 10160393 | Workman Mini PFL | ■ | | 1.8 | 36CL Scaffold Hook | TA Karabiner |
| 10157850 | Workman Mini PFL | ■ | | 1.8 | Triple Action Karabiner | TA Karabiner |
| 10160396 | Workman Mini PFL, Twin Leg | | ■ | 1.8 | 36C Snaphook | TA Karabiner |
| 10160395 | Workman Mini PFL, Twin Leg | | ■ | 1.8 | 36CL Scaffold Hook | TA Karabiner |
| 10157867 | Workman Mini PFL, Twin Leg | | ■ | 1.8 | Triple Action Karabiner | TA Karabiner |
| 10159667 | Workman Mini PFL, Twin Leg | | ■ | 1.8 | AL36C Snaphook | DA Karabiner |
| 10157866 | Workman Mini PFL, Twin Leg | | ■ | 1.8 | AL36CL Scaffold Hook | DA Karabiner |

Workman® PFL



With its solid design and fast-acting brake mechanism, you can be confident that the Workman Personal Fall Limiter (PFL) will be there for you when you need it most.

| PART NO: | Description | Single | Twin | Length (m) | Anchorage Connector | Harness Connector |
|----------|-------------|--------|------|------------|-------------------------|-------------------|
| 10093348 | Workman PFL | ■ | | 3.7 | LC Snaphook (Alloy) | - |
| 10093349 | Workman PFL | ■ | | 3.7 | LI Snaphook (Steel) | - |
| 10099598 | Workman PFL | ■ | | 3.7 | Triple Action Karabiner | - |

Workman® Twin Leg PFL



The Workman Twin Leg Personal Fall Limiter increases worker productivity by providing greater mobility and continuous connection (100% tie-off) while moving from one location to another, offering a great alternative to twin leg shock-absorbing lanyards. The Workman Personal Fall Limiter features the patent-pending ARCA™ Harness Connection. The innovative, integral ARCA Harness Connection makes the Workman Personal Fall Limiter easier to use than any product on the market – simply insert D-ring into the slot and you're ready to work! This intuitive design offers several important safety features.

| PART NO: | Description | Single | Twin | Length (m) | Anchorage Connector | Harness Connector |
|----------|----------------------|--------|------|------------|----------------------|-------------------|
| 10126099 | Workman Twin Leg PFL | | ■ | 2 | Swivel Snaphook | ARCA |
| 10126098 | Workman Twin Leg PFL | | ■ | 2 | Swivel Scaffold Hook | ARCA |

MSA Latchways® Self Retracting Lifeline

Latchways® SRL **NEW**



The Latchways® Standard SRL has undergone extensive, independently verified testing to ensure consistent, reliable performance. Developed with unique features to provide a smarter, safer and stronger alternative to traditional SRLs, the Latchways® Standard SRL is as versatile as it is flexible. Suitable for a wide range of applications, it's available with cable and webbing lanyards in four different lengths.

The Latchways® SRL is easily recertified with just a few simple tools. Recertification can be performed locally by authorized representatives, or on site ensuring the Latchways® SRL has minimal time out of action.

| PART NO: | Description | Lifeline | Lifeline Length (m) | Anchorage Connector | Harness Connector |
|--------------|----------------|------------|---------------------|------------------------|-------------------|
| 62007-00UK | Latchways® SRL | Web | 7 | 36C Snaphook | DA Karabiner |
| 62407-00UK | Latchways® SRL | Galv Cable | 7 | Swivel DA Snaphook | DA Karabiner |
| 62207-00UKTL | Latchways® SRL | SS Cable | 7 | SS TA Swivel Karabiner | DA Karabiner |
| 62410-00UK | Latchways® SRL | Galv Cable | 10 | Swivel DA Snaphook | DA Karabiner |
| 62210-00UKTL | Latchways® SRL | SS Cable | 10 | SS TA Swivel Karabiner | DA Karabiner |
| 62415-00UK | Latchways® SRL | Galv Cable | 15 | Swivel DA Snaphook | DA Karabiner |
| 62215-00UKTL | Latchways® SRL | SS Cable | 15 | SS TA Swivel Karabiner | DA Karabiner |

MSA Latchways® Specialised Self Retracting Lifeline

Latchways® Sealed SRL **NEW**



The Latchways® Sealed SRL was designed for hands-free use in harsh environments such as oil rigs, wind turbines and other offshore applications, helping keep workers safe and focused on the task at hand.

Our Sealed SRL has undergone extensive, independently verified testing to ensure consistent, reliable performance.

With cutting-edge technology and engineering, the Latchways® Sealed SRL is one of the most advanced and cost effective SRLs on the market. Like our other SRLs, the Latchways® Sealed SRL may be recertified on site by a Latchways®-trained service technician, helping to lower the cost of ownership and provide a strong return on investment.

| PART NO: | Description | Lifeline | Lifeline Length (m) | Anchorage Connector | Harness Connector |
|--------------|-----------------------|------------|---------------------|------------------------|-------------------|
| 62809-00UK | Latchways® Sealed SRL | Galv Cable | 9 | SS Swivel Snaphook | DA Karabiner |
| 62810-00UKTL | Latchways® Sealed SRL | SS Cable | 9 | SS TA Swivel Karabiner | DA Karabiner |
| 62815-00UK | Latchways® Sealed SRL | Galv Cable | 15 | SS Swivel Snaphook | DA Karabiner |
| 62816-00UKTL | Latchways® Sealed SRL | SS Cable | 15 | SS TA Swivel Karabiner | DA Karabiner |
| 62825-00UK | Latchways® Sealed SRL | Galv Cable | 25 | SS Swivel Snaphook | DA Karabiner |
| 62826-00UKTL | Latchways® Sealed SRL | SS Cable | 25 | SS TA Swivel Karabiner | DA Karabiner |
| 62840-00UK | Latchways® Sealed SRL | Galv Cable | 40 | SS Swivel Snaphook | DA Karabiner |
| 62841-00UKTL | Latchways® Sealed SRL | SS Cable | 40 | SS TA Swivel Karabiner | DA Karabiner |
| 62820-00UK | Latchways® Sealed SRL | SS Cable | 15 | SS Swivel Snaphook | DA Karabiner |

Latchways® Leading Edge SRL **NEW**



The Latchways® Leading Edge SRL is intended to be used as a connecting element within a personal fall arrest system when either the user is working vertically or horizontally. The device is also designed for use in applications where falls may occur over a Type A* leading edge, including edges, such as roofing, wooden beams, leading edge construction, etc.

| PART NO: | Description | Lifeline | Lifeline Length (m) | Anchorage Connector | Harness Connector |
|------------|-----------------------------|------------|---------------------|---------------------|-------------------|
| 62705-00EU | Latchways® Leading Edge SRL | Galv Cable | 5 | SS Swivel Snaphook | DA Karabiner |
| 62707-00EU | Latchways® Leading Edge SRL | Galv Cable | 7 | SS Swivel Snaphook | DA Karabiner |
| 62710-00EU | Latchways® Leading Edge SRL | Galv Cable | 10 | SS Swivel Snaphook | DA Karabiner |

Workman® Self Retracting Lanyards

Workman® SRL



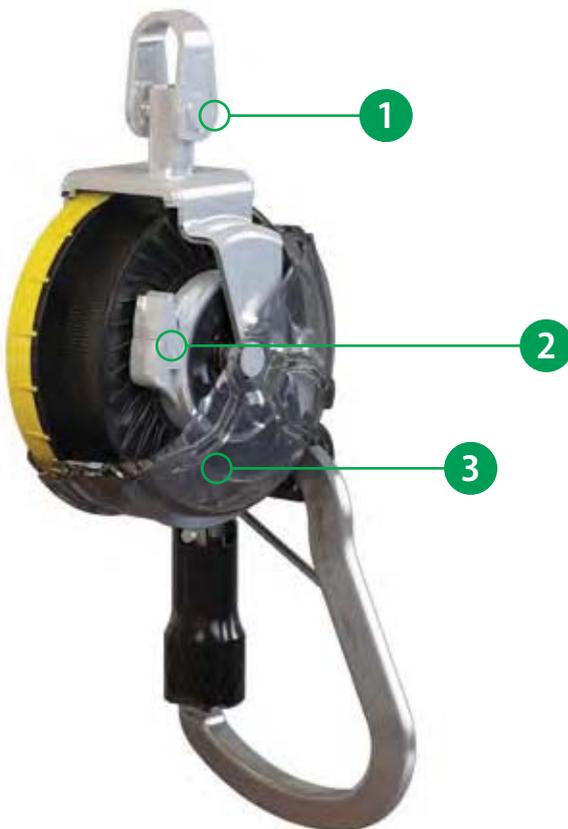
MSA's Workman SRL provides the best value for your money! With lightweight design and durable, thermoplastic housing with impact-absorbing bumpers, the Workman SRL will not only be accepted by users, but also provides years of dependable service.

| | PART NO: | Description | Lifeline | Lifeline Length (m) | Anchorage Connector | Harness Connector |
|------------|----------|-------------|----------|---------------------|------------------------|-------------------|
| NEW | 10127536 | Workman SRL | SS Cable | 6 | 36CS Swivel Snaphook | - |
| | 10120723 | Workman SRL | SS Cable | 9 | 36CS Swivel Snaphook | - |
| NEW | 10163875 | Workman SRL | SS Cable | 9 | SST A Swivel Karabiner | - |
| | 10121777 | Workman SRL | SS Cable | 15 | 36CS Swivel Snaphook | - |
| NEW | 10163876 | Workman SRL | SS Cable | 15 | SST A Swivel Karabiner | - |

MSA Latchways® Personal Fall Limiters

Latchways® Mini PFL **NEW**

The Latchways® Mini Retractable Lanyard is the most compact & lightweight self-retracting lanyard ever developed using multiple spring radial energy-absorbing technology. This new design eliminates the need for an external energy-absorber outside of the housing making it the smallest retractable lanyard on the market.



Available Connectors



- A** AL36CL Scaffold Hook
- B** 36C Snaphook
- C** AL Swivel TA Karabiner
- D** AL TA Karabiner
- E** 36CS Swivel Snaphook
- F** 36CL Scaffold Hook

- 1 Free range of motion**
A fully rotating attachment point for complete flexibility - both 360° and 180°.
- 2 Precision engineering**
A structurally reinforced pawl mechanism.

- 3 Highly durable**
The Mini PFL has a tough polycarbonate casing which is transparent to allow for easy visual inspection of critical internal components.
- Superior materials**
Components manufactured from high-grade stainless steel and engineered plastics.

| PART NO: | Description | Single | Twin | Lifeline Length (m) | Anchorage Connector | Harness Connector |
|-------------|---|--------|------|---------------------|------------------------|----------------------|
| 63011-00AEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL36CL Scaffold Hook | DA Karabiner |
| 63011-00BEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36C Snaphook | DA Karabiner |
| 63011-00CEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL Swivel TA Karabiner | DA Karabiner |
| 63011-00DEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL TA Karabiner | DA Karabiner |
| 63011-00EEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36CS Swivel Snaphook | DA Karabiner |
| 63011-00FEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36CL Scaffold Hook | DA Karabiner |
| 63011-00GEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL36CL Scaffold Hook | - |
| 63011-00HEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36C Snaphook | - |
| 63011-00IEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL Swivel TA Karabiner | - |
| 63011-00JEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL TA Karabiner | - |
| 63011-00KEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36CS Swivel Snaphook | - |
| 63011-00LEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36CL Scaffold Hook | - |
| 63011-00MEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL36CL Scaffold Hook | AL TA Karabiner |
| 63011-00NEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL TA Karabiner | AL TA Karabiner |
| 63011-00OEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | 36C Snaphook | 36CL Scaffold Hook |
| 63011-00PEU | Latchways® Mini PFL, 1.8m | ■ | | 1.8 | AL TA Karabiner | AL36CL Scaffold Hook |
| 63111-00AEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | AL36CL Scaffold Hook | Twin Link |
| 63111-00BEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | 36C Snaphook | Twin Link |
| 63111-00CEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | AL Swivel TA Karabiner | Twin Link |
| 63111-00DEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | AL TA Karabiner | Twin Link |
| 63111-00EEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | 36CS Swivel Snaphook | Twin Link |
| 63111-00FEU | Latchways® Mini PFL, Twin Leg, 1.8m | | ■ | 1.8 | 36CL Scaffold Hook | Twin Link |
| 63013-00AEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL36CL Scaffold Hook | DA Karabiner |
| 63013-00BEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36C Snaphook | DA Karabiner |
| 63013-00CEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL Swivel TA Karabiner | DA Karabiner |
| 63013-00DEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL TA Karabiner | DA Karabiner |
| 63013-00EEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36CS Swivel Snaphook | DA Karabiner |
| 63013-00FEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36CL Scaffold Hook | DA Karabiner |
| 63013-00GEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL36CL Scaffold Hook | - |
| 63013-00HEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36C Snaphook | - |
| 63013-00IEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL Swivel TA Karabiner | - |
| 63013-00JEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL TA Karabiner | - |
| 63013-00KEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36CS Swivel Snaphook | - |
| 63013-00LEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36CL Scaffold Hook | - |
| 63013-00MEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL36CL Scaffold Hook | AL TA Karabiner |
| 63013-00NEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL TA Karabiner | AL TA Karabiner |
| 63013-00OEU | Latchways® Mini PFL, 3m | ■ | | 3 | 36C Snaphook | 36CL Scaffold Hook |
| 63013-00PEU | Latchways® Mini PFL, 3m | ■ | | 3 | AL TA Karabiner | AL36CL Scaffold Hook |
| 63113-00AEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | AL36CL Scaffold Hook | Twin Link |
| 63113-00BEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | 36C Snaphook | Twin Link |
| 63113-00CEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | AL Swivel TA Karabiner | Twin Link |
| 63113-00DEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | AL TA Karabiner | Twin Link |
| 63113-00EEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | 36CS Swivel Snaphook | Twin Link |
| 63113-00FEU | Latchways® Mini PFL, Twin Leg, 3m | | ■ | 3 | 36CL Scaffold Hook | Twin Link |
| 63900-04 | Twin-Link Connector for Latchways® Mini PFL | | | | | - |

Anchorage

Webbing Anchor Straps and Slings



- Webbing anchor slings and straps provide an economical and portable anchorage system
- Slings provide a closed loop webbing configuration, where the straps provide a protective sleeve with loop through or coupled D-ring configuration
- Complies with AS/NZS 1891.4:2009

| PART NO: | Description |
|--------------|--------------------|
| 10112987 | 1.5M, Anchor Sling |
| 10112988 | 2.0M, Anchor Sling |
| 229829-1.0MT | 1.0M, Anchor Strap |
| 229829-1.5MT | 1.5M, Anchor Strap |
| 229829-2.0MT | 2.0M, Anchor Strap |

D-Plate Anchorage Connector



- Provides a permanent anchorage point
- Rated to 22.2kN
- Bolts to beams or columns
- Also available with 8" x 8" back plate made of black anodised aluminium for attachment to concrete walls
- Complies with AS/NZS 1891.4:2009

| PART NO: | Description |
|----------|-------------|
| 506632 | D-Plate |

Workman® FP Stryder



- The Workman® FP Stryder is a portable beam grip that is an approved anchorage connection when installed on a beam flange
- Low friction Teflon wear plates allow the Stryder to glide effortlessly along the beam
- Vernier push button adjustability ensures secure fit and can be adjusted with one hand – no extra tools required
- Integral load indicator shows if the Stryder has been subject to a fall
- Lightweight design - PN: 10144431 (2.3kg) and PN: 10144432 (5.4kg)
- Mounting can be overhead or at workers foot level
- Two versions offered to suit different beam flange sizes
- 182kg working capacity and rated to 22.2kN
- Complies with AS/NZS 1891.4:2009

| PART NO: | Description |
|----------|----------------|
| 10144431 | 4"-13.5" Beam |
| 10144432 | 14"-23.5" Beam |

Bolt D Ring Anchorage Connector



- Provides permanent anchorage point
- Designed for horizontal installation
- Rated to 22.2kN
- Bolts to beams or girders
- Uses single 5/8" Grade 8 bolt (not supplied)
- Complies with AS/NZS 1891.4:2009

| PART NO: | Description |
|----------|-------------|
| 10003213 | Bolt D Ring |

Removable Concrete Anchors



- Removable concrete anchors can be quickly installed and easily removed into various locations on an elevated level concrete surface
- Compact and lightweight
- Durable stainless steel and aluminium construction
- 5K is for use as a single person anchorage
- 10K is for use as a two person or temporary horizontal lifeline anchorage

| PART NO: | Description |
|----------|-------------------------------|
| 10081594 | 22kN (5k), One person anchor |
| 10081570 | 44kN (10k), Two person anchor |

Quicklink Anchorage Connector



Loops onto anchorage rated structure to provide a suitable anchorage attachment point

| PART NO: | Description |
|----------|-------------|
| 229910QL | Quicklink |

BeamGlide® Trolley



- Provides horizontal mobility and keeps anchorage connector directly over head
- Customised to beam

| PART NO: | Description |
|----------|--------------------|
| 506266 | BeamGlide® Trolley |

RailSlider®



Anchorage rated connector for use on a railroad

| PART NO: | Description |
|----------|--------------|
| 228251 | Rail Slider® |

Ballantyne T-Bar Anchor and Tether Plates



| PART NO: | Description |
|----------|---------------------------|
| 767345 | T-Bar Roof Anchor |
| 767346 | T-Bar Tether Plate, 280mm |
| 767347 | T-Bar Tether Plate, 500mm |

- The T-Bar anchor is to be used on roofs constructed with metal sheeting with a minimum base metal thickness of 0.42 mm
- To be installed on the opposite side of the roof from where the user is working
- Direct connection of personal fall arrest rated equipment for a single person
- The anchor is designed and tested to 15kN and is therefore rated as a single person fall arrest anchor under AS/NZS 1891.4:2009
- The Tether Plates (Claw) are available in two sizes - 280mm and 500mm.
- The Tether Plates act as a diversion point when using a restraint lanyard and also eliminates the pendulum effect (swing during fall), when installed and used correctly
- Can be used as a standalone anchor point on metal roof sheeting

Latchways® Free Standing Constant Force® Post System



The Latchways® Freestanding Constant Force® post provides assured worker safety at height where there is an occasional or temporary requirement to access flat roofs or structures.

At the heart of the system is Latchways' unique **Constant Force technology**. The Constant Force post is contained within an anchor device consisting of a galvanised steel frame and galvanised steel weights bolted in a circular formation onto rubber coated base weights. In the event of a fall, the Constant Force post deploys to limit the load on the system while the weights simultaneously create a friction anchor between the unit and the roof surface.

- Applicable where there is an occasional safety at height requirement.
- Suitable for flat roofs (maximum 5° pitch).
- Can be used on a wide range of roof surfaces including concrete, single-ply membrane, bituminous membrane, sanded and stone chipping asphalt, and steel profile.
- No need to puncture the roof membrane to fix the system.
- Special rotating anchor turns through 90° for maximum user flexibility.
- Each anchor device protects a single user.
- Conforms to BS EN 795 class E.

| PART NO: | Description |
|----------|--|
| 65643-00 | Free Standing Constant Force Free Post 200kg |
| 65640-00 | Free Standing Constant Force Free Post 300kg |
| 65644-00 | Free Standing Constant Force Free Post 400kg |

Vertical and Horizontal Lifelines

Vertical Lifelines

Sure-Climb® Temporary Ladder Cable System

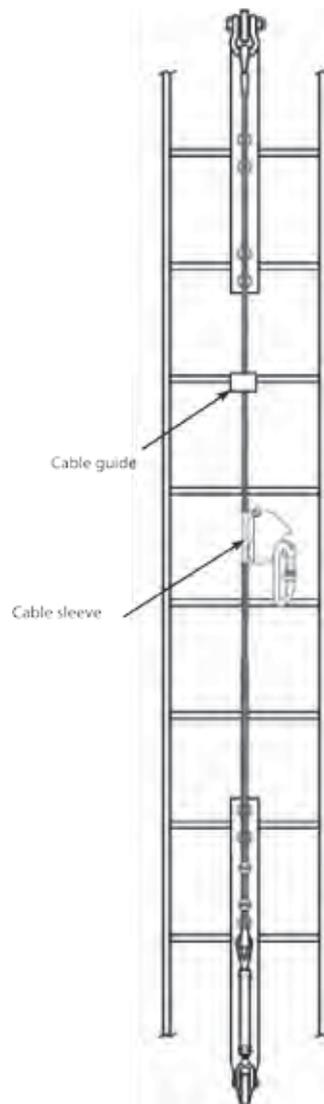


- A temporary ladder climbing system featuring an 8mm galvanised cable, in line shock absorber, and profiled lead weight to stabilise cable
- Cable Slider follows user up and down the ladder during climbing and locks if the worker falls/ slips. It can be attached or removed anywhere along the cable
- Compatible with existing ladder structure
- Sure-Climb® Extension available to extend anchorage above ladder (PN: 10036032)
- Stainless steel fall arrest also available (Order Separately PN: 229608CG)
- Complies with AS/NZS 1891.3:1997

| PART NO: | Description |
|-------------|-------------------------|
| SFPLS353030 | 10.0M, Galvanised Cable |
| SFPLS353050 | 15.0M, Galvanised Cable |
| SFPLS353100 | 30.0M, Galvanised Cable |
| 229608CG | Cable Grab |

Note: Other lengths available on request.

Sure-Climb® Permanent Ladder Cable System



- A permanent ladder climbing system featuring an 8mm galvanised cable, energy absorbing top and bottom mounting brackets and cable guide attachment
- Cable slider follows user up and down the ladder during climbing and locks if the worker falls/ slips. It can be attached or removed anywhere along the cable
- Compatible with existing ladder structure
- Sure-Climb® Extension available to extend anchorage above ladder (PN: 10036032)
- Stainless steel fall arrest also available (Order Separately PN: 229608CG)
- Complies with AS/NZS 1891.3:1997

| PART NO: | Description |
|-------------|-------------------------|
| SFPLS350030 | 10.0M, Galvanised Cable |
| SFPLS350070 | 20.0M, Galvanised Cable |
| SFPLS350100 | 30.0M, Galvanised Cable |
| SFPLS350130 | 40.0M, Galvanised Cable |
| SFPLS350160 | 50.0M, Galvanised Cable |
| SFPLS350200 | 60.0M, Galvanised Cable |
| 229608CG | Cable Grab |



The Safety Company



MSA Latchways® Horizontal and Vertical Lifelines

Horizontal Lifelines (HLL)

MSA Latchways horizontal lifelines are known worldwide for their versatility and ease of use, making them the ideal choice for protecting workers as they go about day-to-day activities like maintenance, cleaning, inspection and more.

Easily customised for virtually any structure or unique requirement, MSA precisely engineered horizontal systems are built to work in all areas of industry, construction and maintenance. Installations include retail outlets, stadiums, transmission towers and industrial complexes.



Constant Force® Post

MSA has taken the science of Latchways Constant Force and applied it to the fall protection industry - providing an easy-to-install, reliable and cost-effective solution to rooftop safety.

Latchways Constant Force® post (CFP) does not need to be fixed to the building structure but instead top-fixes to the roof, therefore simplifying installation, saving time and protecting structures from compromise. With Constant Force technology as its governing principle, the load generated in the event of a fall is absorbed through the Latchways system, minimizing loads placed on the roof structure.



Overhead Systems

With MSA Latchways overhead systems, all you have to do is look up and you'll find a greater sense of security and confidence.

Combining MSA's unique knowledge of fall protection with innovative Constant Force technology, our overhead systems deliver maximum accessibility and hands free mobility - not to mention ease of use and simple installation.

The Latchways range of overhead systems house Constant Force technology in an in-line energy absorber, so if a worker connected to the system should fall, the Constant Force energy absorber controls the load back to the structure. Ideal for industrial environments and in applications such as warehouses, loading bays and airplane hangars.



Vertical Lifelines (VLL)

Featuring our brilliantly engineered TowerLatch™ and LadderLatch™ systems the Latchways system options offer outstanding personal safety for those working at height, particularly in the telecom and wind energy industries. Both TowerLatch™ and LadderLatch™ emphasize inherent flexibility, meaning they can be configured for a wide variety of applications, including ladders, towers, masts, monopoles and other structures specific to these industries.

Dedicated to Safety

- **Reliable security:** Our VLLs incorporate a fluorescent red indicator that appears in the event of a fall.
- **Flexible freedom:** Each systems' universal attachment device rotates freely through intermediate cable guides for continuous hands-free protection.
- **Load control:** In the event of a fall, the load applied to the worker is limited to a maximum of 6 kN by either a Constant Force® absorber at the top of the system or a webbing energy absorber on the device.
- **Inspection:** TowerLatch™ and LadderLatch™ systems are regarded as part of the tower structure, and inspected accordingly.
- **Trusted quality:** Both systems meet or exceed all relevant international standards.
- **Extra security:** A webbing strap can be incorporated into the systems' attachment device to facilitate rescue as needed.



MSA Latchways® Inclined Systems

While working at height is tough, working at height on an incline can present uniquely different challenges. MSA has developed a comprehensive range of Latchways system components that can be configured to provide a tailored cable lifeline suited to structures that slope.

Our two main components, the BridgeLatch™ and ClimbLatch™ devices, are built to bring optimal security, flexibility and mobility to the at-height, on-incline workplace.

BridgeLatch™

For inclined lifelines running between 0° and 70°, the Latchways BridgeLatch™ device secures the user to the cable via a fixed-length lanyard connecting to the D-ring attachment point of a full-body harness.

Featuring a starwheel mechanism that rotates freely over intermediate cable supports and brackets, this smartly engineered device eliminates the disconnection requirement that can lead to potential accidents. The BridgeLatch™ device is designed to clamp fast onto the cable, preventing the user from falling or sliding down the incline on which they're working.

ClimbLatch™

Like the BridgeLatch™ device, ClimbLatch™ permits hands-free travel up sloped surfaces freeing the worker to use both hands for work or climbing. Safety features include a required entry point on which to attach to the system. In the event of a fall, the ClimbLatch™ device locks onto the cable, not only arresting the fall but keeping the worker from sliding back down the system.



Attachment Devices

All MSA Latchways attachment devices are designed to connect the user, wearing a full-body harness, to a Latchways cable system.

Common to all devices is the patented starwheel mechanism, which rotates freely over intermediate cable supports and around corner brackets without needing to disconnect the unit. This allows hands-free operation for the system users.

Transfastener™ and Removable Transfastener

Universal device for use on all Latchways horizontal systems, suitable for both fall restraint and arrest systems.

Incorporates unique starwheel, allowing the unit to pass over cable supports and corners without the need to detach.

Connects to user at fall arrest attachment point via an energy-absorbing lanyard.

While the Transfastener requires a specific entry point, the Removable Transfastener can attach or detach at any safe point.



BridgeLatch™



ClimbLatch™

LadderLatch™ and TowerLatch™

- Universal device for use on all Latchways vertical systems
- Incorporates unique starwheel, allowing the unit to pass over cable supports without need to detach
- Anti-inversion mechanism prevents device from connecting to the cable upside-down
- Connects to user at chest point
- Able to attach or detach at any safe point of the system
- In the event of a fall, the unit locks onto the cable and arrests the fall



LadderLatch



TowerLatch with integral webbing stop to provide fast post-fall rescue



TowerLatch SP with an integral energy absorber ("shock pack") for use where a coil absorber is not present in the vertical lifeline system

Certified Installer Network

MSA's Fall Protection offerings are supported by an expert network of trained installers. The installer network can assist with on-site hazard analysis, design, installation, certification, user training and on-going maintenance of engineered systems. Latchways systems can only be installed by trained and certified professionals.

Horizontal Lifelines

Gravity® Dyna-Line® Temporary Synthetic Horizontal Lifeline



- Designed for easy installation and removal, the Gravity® Dyna-Line® Horizontal Lifeline is a temporary synthetic rope horizontal lifeline system created for a wide range of applications
- Rated for two people (272 kg)
- The Gravity Dyna-Line® now features the brand new ByPass shuttle system that ensures that two workers maintain 100% tie off during use, eliminating any risk of a fatal fall during worker passing. The safest horizontal lifeline on the market today!
- Can be mounted to any suitable 22kN rated anchorage point and can be rigged using many standard components, eliminating the need for special or “engineered” equipment
- Has an integral line tensioner that allows proper tensioning of the lifeline before use
- Supplied in a handy bucket and available in a variety of lengths
- Skylink Stanchion can be ordered separately for temporary anchorage connection (PN: 10055659 (standard), 10055660 (short))
- Complies with AS/NZS 1891.2:2001

| PART NO: | Description |
|----------|-----------------------|
| 10150413 | 9.0M, Synthetic Rope |
| 10150414 | 18.0M, Synthetic Rope |
| 10150415 | 30.0M, Synthetic Rope |

Gravity® Sure-Line® Temporary Cable Horizontal Lifeline



- Designed for easy installation and removal, the Gravity® Sure-Line® Horizontal Lifeline is a temporary cable horizontal lifeline system created for a wide range of applications
- Rated for two people (272 kg)
- The Gravity Sure-Line® now features the brand new ByPass shuttle system that ensures that two workers maintain 100% tie off during use, eliminating any risk of a fatal fall during worker passing. The safest horizontal lifeline on the market today!
- Can be mounted to any suitable 22kN rated anchorage point and can be rigged using many standard components, eliminating the need for special or “engineered” equipment
- Has an integral line tensioner that allows proper tensioning of the lifeline before use
- Available in a variety of lengths
- Skylink Stanchion can be ordered separately for temporary anchorage connection (PN: 10055659 (standard), 10055660 (short))
- Complies with AS/NZS 1891.2:2001

| PART NO: | Description |
|----------|--------------|
| 10150420 | 6.0M, Cable |
| 10150416 | 12.0M, Cable |
| 10150418 | 18.0M, Cable |

Skylotec Temporary Webbing Horizontal Lifeline



- This temporary horizontal lifeline is an easily deployable, lightweight 20m horizontal lifeline
- The 35mm heavy duty webbing is tensioned by a ratchet device and allows shorter distances to be spanned as required
- Rated for two people
- Complies with AS/NZS 1891.2:2001

| PART NO: | Description |
|----------|-------------|
| 765242 | 20M, Web |

Fall Protection Kits

Workman® Roof Workers Kit



- Workman® Harness (Medium) - Choice of Premier or Crossover
- Kernmantle Rope c/w rope adjuster
- Anchor Sling (1.5 m in Premier Kit) or Anchor Strap (1.0 m in Crossover Kit)
- Screw Gate Karabiner (x2)
- Backpack Carry Bag

| PART NO: | Description |
|-------------|--|
| 767300-15.0 | Premier Harness with 15.0M Kernmantle Rope |
| 762208-15.0 | Crossover Harness with 15.0M Kernmantle Rope |

Note: Other Kernmantle Rope lengths are available. Rope length indicated in part number configuration eg. 767300-15.0 ~ 15m length rope.

Workman® Construction Workers Kit



- Workman® Premier Harness (Medium)
- Workman® PFL with Alloy Double Action Hook (3.7 m)
- Shock Absorbing Lanyard with Forged Steel Double Action Snaphooks (2 m)
- Anchor Sling (1.5 m)
- Screw Gate Karabiner (x2)
- Backpack Carry Bag

| PART NO: | Description |
|------------|--------------------------|
| 229001KIT1 | Construction Workers Kit |

Workman® Premier Deluxe Roof Workers Kit



All contents supplied with the Workman® Premier Roof Worker's Kit PLUS:

- Workman® Short Shock Absorber with Steel Snaphooks
- Suspension Trauma Safety Step

| PART NO: | Description |
|-------------|--|
| 767808-20.0 | Premier Harness with 20.0M Kernmantle Rope |

Note: Rope length indicated in part number configuration eg. 767808-20.0 ~ 20m length rope.

Workman® Basic Fall Protection Kit



- Workman® Premier Harness (Medium)
- Shock Absorbing Lanyard with Adjustable Webbing and with Forged Steel Double Action Snaphooks (2 m)
- Anchor Sling (1.5 m)
- Backpack Carry Bag

| PART NO: | Description |
|------------|--------------|
| 229842-1.0 | Basic FP Kit |

Descent and Rescue Equipment

Descent and Rescue Anchorages

Workman® Tripod



MSA Tripods make confined space entry with vertical descent easy.

The Workman® Tripod features internal leg-locking mechanism, maximum height indicator on the tripod legs, cut-resistant leg pin, retention chains, recessed product labels, reduced weight and integral carrying strap. The Workman® Tripod can be set up and dismantled without the use of tools.

- Automatic hinge lock legs with incremental adjustment
- Skid resistant feet
- Tripod head features four separate attachment points
- Accessories can attach to any leg for faster setup
- Telescoping legs up to 2.44m (8 ft) high do not tangle when unit is collapsed for easier transportation and storage

| PART NO: | Description |
|----------|-----------------|
| 10102002 | Workman® Tripod |
| 10169369 | Duffel Bag |

Folding Davit and Base



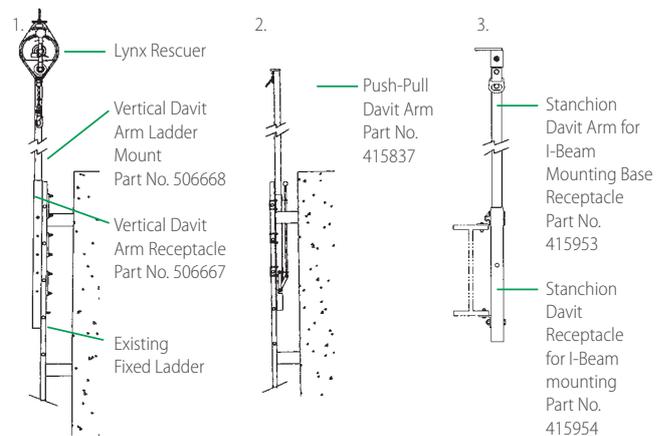
Davit Arm and Base with Lynx™ Hoist and Lynx™ Rescuer attached.

- The Folding Davit and Base is a portable and economical anchorage connector used where a tripod will not work
- Available with a zinc-plated alloy-steel Davit Arm and Base
- This lightweight device provides a 60cm (24-inch) reach and 2 m (77 inches) of head clearance
- It pivots 360-degrees and can readily manoeuvre personnel and materials between spaces below the deck where it is mounted
- The Folding Davit may be carried from base to base and installed in minutes
- Designed to accept both the Lynx® and Dynevac® range of devices with the appropriate mounting bracket

| PART NO: | Description |
|----------|-------------------|
| 506613 | Davit Arm Folding |
| 506614 | Davit Arm Base |

Alternative Davit Systems

1. Vertical davit arm ladder mount & receptacle
2. Push-pull davit arm ladder mount
3. Stanchion davit arm & receptacle for i-beam mounting



| PART NO: | Description |
|----------|--|
| 506668 | Vertical Davit Arm Ladder Mount |
| 506667 | Vertical Davit Arm Receptacle |
| 415837 | Push-Pull Davit Arm |
| 415953 | Stanchion Davit Arm for I-Beam Mounting Receptacle |
| 415954 | Stanchion Davit Arm for Receptacle for I-Beam Mounting |

Rope Rescue Systems

Rescue Safe Retrieval System



- The Rescue Safe Retrieval System is primarily used for raising and lowering people or equipment in rescue and industrial work access and confined space applications
- It also doubles as a work positioning system featuring an overspeed locking brake to position the user into place
- Hand ascender included for aiding the operation and acts as a fail-safe brake
- Includes an anchor strap and two karabiners
- Offered as a 3:1 or 4:1 mechanical advantage system

| PART NO: | Description |
|--------------|-------------------------|
| 229090-45.0 | 3:1 Ratio, 15.0M Travel |
| 229090-60.0 | 3:1 Ratio, 20.0M Travel |
| 229090-90.0 | 3:1 Ratio, 30.0M Travel |
| 229485-60.0 | 4:1 Ratio, 15.0M Travel |
| 229485-80.0 | 4:1 Ratio, 20.0M Travel |
| 229485-120.0 | 4:1 Ratio, 30.0M Travel |

Rescue Utility System



- The Rescue Utility System is primarily used for raising and lowering people or equipment in rescue and industrial work access and confined space applications
- Pulleys are equipped with a built-in anti-reversing lock
- Offers rapid deployment, is virtually maintenance free, and is rated for two-person load
- Compact and lightweight with a standard system weight of 7.7 kg
- Rated capacity of 272 kg for personnel and materials
- Offered as a 4:1 mechanical advantage system with hand ascender included

| PART NO: | Description |
|----------|-------------|
| SRS15.0 | 15m |
| SRS20.0 | 20m |
| SRS25.0 | 25m |

Confined Space Equipment

Workman® Winch



- The Workman® Winch is a rugged, versatile and economical choice for lifting, lowering and positioning of personnel and materials within confined space applications
- Integral bracket design allows assembly onto the Workman® Tripod in less than 50 seconds using the existing tripod leg pins - no extra tools required for assembly
- Designed for a maximum 140kg workload for personnel and 225kg for materials
- The tough thermoplastic housing ensures high performance in the harshest environments
- Offers an integral and ergonomic carry grip with a unique, foldable crank handle for simple storage inside the included carry bag
- Level wind mechanism for a tangle-free cable drum
- Built in shock absorber and double braking system
- Compatible with Workman® Tripod (Split mount pulley to be ordered separately PN: 506222)
- RFID-enabled product for simplified product tracking and inspection
- Certified to EN1496 Class B

| PART NO: | Description |
|----------|------------------------------|
| 10147296 | 20.0M, Stainless Steel Cable |
| 10154688 | 30.0M, Stainless Steel Cable |

Workman® Rescuer

NEW



- MSA's Workman® Rescuer provides fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Not only does the Workman® Rescuer arrest the fall, its retrieval capability allows the fallen worker to ascend or descend to a safe location. This durable, economical addition to the Workman Series of products offers fast installation and setup, ideal for applications where time and ease of use are a priority. The Workman Rescuer is also a stand-alone retractable device, as the carrying handle may be used as an anchorage attachment.
- User capacity up to 140 kg for personnel
 - Stainless steel 3/16" wire rope
 - Integral mounting bracket
 - Colour-coded switch for retrieval mechanism activation
 - Ergonomic, stainless steel carry handle can also be used as anchorage connection point
 - Built in shock absorber
 - Robust aluminium housing with thermoplastic bumpers
 - Self-locking swivel snaphook with load indicator
 - Stow-able, foldable crank handle
 - RFID-enabled
 - Certified to EN 360, complies with AS/NZS 1891.3

| PART NO: | Description |
|----------|--|
| 10158192 | Workman® Rescuer, Stainless Steel Cable, 15m |

Emergency Retrieval Self Retracting Lanyards

Dynavac®II



- Dynavac® II is a fall arrest rated self retracting lanyard with emergency retrieval capabilities
- User is able to reset device from retrieval mode to fall arrest mode
- Dynevac® II utilises a safety pin feature for field re-set from fall arrest mode to retrieval mode back to fall arrest mode
- Compatible with Workman® and Lynx® Tripods, davit systems and qualified anchorage connector (Split mount pulley and brackets to be ordered separately)
- Certified to EN 360 and complies with AS/NZS 1891.3:1997

| PART NO: | Description |
|----------|--|
| 10007782 | Dynavac®II, 16.0M, Stainless Steel Cable |
| 10007783 | Dynavac®II, 30.0M, Stainless Steel Cable |

Note: Separate Mounting Bracket (506232 - 16m; 506216 30m), Pulley (506222) and Karabiner (765807) are required for use with Tripod

Brackets and Pulleys



These brackets and pulleys are compatible with the Lynx® Tripod and Workman® Tripod.

| PART NO: | Description |
|----------|---|
| 506232 | Dynevac®/Lynx® - Mounting Bracket to Tripod - 16m unit |
| 506216 | Dynevac®/Lynx® - Mounting Bracket to Tripod - 30m unit |
| 506222 | Split Mount Pulley for to Tripod/Davit Arm |
| 506622 | Dynevac/Lynx® - Mounting Bracket to Davit Arm - 16m unit |
| 506362 | Dynevac®/Lynx® - Mounting Bracket to Davit Arm - 30m unit |

Descent Accessories

Spreader Bars



Latchways® Retrieval SRL



An innovative and fail-safe self-retracting lifeline, sealed to IP58, complete with retrieval winch.

The Latchways® Retrieval SRL has been designed specifically for use within offshore oil and gas applications and to complement the broad range of sealed self-retracting lifelines already offered by Latchways. Whether it be moon pool access or tank cleaning operations, the Latchways® Retrieval SRL can provide rescue cover to all essential areas of the rig where winch retrieval is a necessity. In the event of a fall over the rig floor, the user may also be raised or lowered using the winch mechanism.

When connected to the device, a worker has reassuring continuous hands-free fall protection with unhindered mobility. The audible clicking of the Latchways® Retrieval SRL is a constant reminder that the SRL functions correctly - even in the harshest of environments. The Latchways® Retrieval SRL may be recertified by Latchways or a Latchways trained and approved service technician, offering exceptionally-low cost of ownership.

| PART NO: | Description |
|------------|---|
| 62820-00UK | 50ft (15m) Latchways® Sealed SRL W/Emergency Retrieval, Stainless Steel Cable, Stainless Steel Snaphook |

- Workman® Spreader Bars are the ideal harness accessory for personnel descent and retrieval via the harnesses shoulder loops
- Available with steel or aluminium snaphooks

| PART NO: | Description |
|----------|---------------------|
| 10112910 | Snaphook, Steel |
| 10112911 | Snaphook, Aluminium |

Rescue Equipment

Sked Rescue Stretcher System



- Suitable for confined space, high angle or technical rescue, and traditional land based applications
- Equipped for horizontal hoisting by helicopter or vertical hoisting in caves or industrial confined spaces
- Durable plastic provides rigid protection for the patient
- Weight 8.6kg
- Includes Sked Stretcher and removable webbing handles, cordura backpack/towing harness, and horizontal and vertical lift swings

| PART NO: | Description |
|----------|------------------------|
| SRSSK200 | Complete System |
| SRS36382 | Replacement 4PT Bridle |

Rescue Pole/Remote Hook



- The Rescue Pole/Remote Hook is designed as a rescue tool for the retrieval of a worker suspended in a fall arrest system or for remote rescue access
- In most cases, the need for the rescuer to go to the fallen worker (victim) is limited with this system
- The Rescue Pole can be used in a wide variety of rescue applications and will serve as an excellent tool to help perform a safer more efficient rescue
- Packaged together in a kit which includes the extension pole, remote hook, pole adaptor and storage bag

| PART NO: | Description |
|------------|--|
| 228228-3.6 | Kit, 1.8 - 3.6M Extension Pole |
| 228228-7.3 | Kit, 2.4 - 7.3M Extension Pole |
| SFP675009 | 1.8M - 3.6M, Adjustable Extension Pole |
| SFP675012 | 2.4M - 7.3M, Adjustable Extension Pole |
| SRCA401 | Remote Hook, Aluminium with Web Sling |
| SCE109001 | Pole Adaptor, Aluminium & Rubber |
| SCE109003 | Pole Adaptor, 1.8M Extension, Aluminium & Rubber |
| SRB675009 | Storage Bag for SFP675009 |

Pole Top Rescue Kit



- The Anthron Descender is a manually operated, controlled descent device most commonly used for suspended, work positioning, self-evacuation, or rescue operations
- A cam assembly provides friction on the rope to hold a load or allow the load to descend at a controlled rate
- The system consists of 11mm kernmantle rope, the Anthron Descender an anchor strap and carry bag
- Proper roping and rigging diagrams are on the side of the Anthron device, which can be installed or removed at any point on the rope and has a working load of 136 kg
- Can also be inverted so that the device can be attached to an approved anchor, and the rope end attached to an injured worker. In this orientation, the injured worker can be lowered while being controlled by a rescuer

| PART NO: | Description |
|-------------|------------------------------|
| 229680-15.0 | 15.0M Kernmantle Rope Length |
| 229680-25.0 | 25.0M Kernmantle Rope Length |
| 229680-30.0 | 30.0M Kernmantle Rope Length |
| 229680-50.0 | 50.0M Kernmantle Rope Length |

Latchways® R20 Rescue Pole



- The Latchways® R20 Rescue Pole is an ideal compact solution to facilitate a remote access rescue.
- Telescoping pole is constructed from Fibre Reinforced Plastic (FRP) and allows remote reach extension from 800mm to 3400mm.
- Suitable for use with Rope Rescue Systems to execute a simple rescue plan quickly.
- Comes standard with a durable storage bag.

| PART NO: | Description |
|----------|----------------------------|
| 68099-00 | Latchways® R20 Rescue Pole |

Confined **Space Entry Kits**

Confined Space Kits come complete with all the essentials required for a safe entry, exit and retrieval from a confined space. Intuitively designed, the Workman® range of products minimises extensive user training and setup time by being simple, easy to use and fast to assemble. Kits come standard with a Workman® Premier Harness (medium), Workman® Tripod, duffel bag and spreader bar.

Kits include all components required for assembly.

Confined Space Entry Kit with Workman® Winch and Workman® Rescuer

| PART NO. | 8'Tripod | 15m Workman® Rescuer | 20m Workman® Winch | Pulleys | Karabiners | Workman® Premier Full Body Harness | Workman® Spreader Bar | Workman® Tripod Duffel Bag |
|----------|----------|----------------------|--------------------|---------|------------|------------------------------------|-----------------------|----------------------------|
| 768392 | ■ | ■ | ■ | 2 | 2 | ■ | ■ | ■ |

Confined Space Entry Kits with Rescue Safe Retrieval System

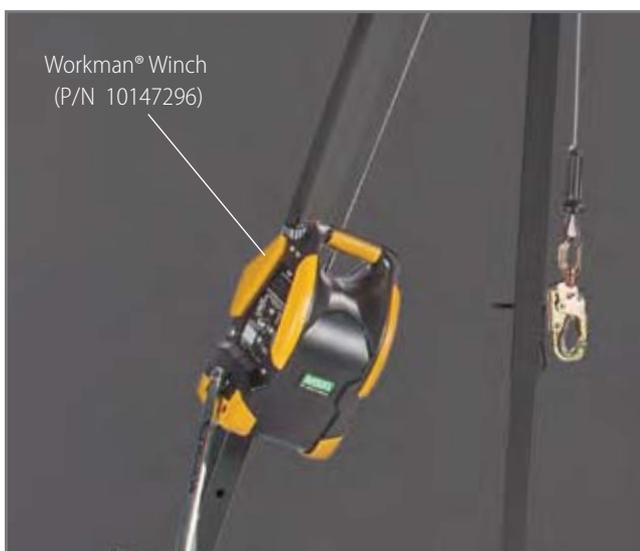
| PART NO. | 8'Tripod | Rescue Safe Retrieval Rope Kit 3:1, 15M Travel | Rescue Safe Retrieval Rope Kit 4:1, 15M Travel | Workman® Premier Full Body Harness | Workman® Spreader Bar | Workman® Tripod Duffel Bag |
|----------|----------|--|--|------------------------------------|-----------------------|----------------------------|
| 767790 | ■ | ■ | | ■ | ■ | ■ |
| 767791 | ■ | | ■ | ■ | ■ | ■ |

Confined Space Entry Kit with Workman® Winch

| PART NO. | 8'Tripod | 20m Workman® Winch | 30m Workman® Winch | Pulleys | Karabiners | Workman® Premier Full Body Harness | Workman® Spreader Bar | Workman® Tripod Duffel Bag |
|----------|----------|--------------------|--------------------|---------|------------|------------------------------------|-----------------------|----------------------------|
| 767939 | ■ | ■ | | 1 | 2 | ■ | ■ | ■ |
| 768017 | ■ | | ■ | 1 | 2 | ■ | ■ | ■ |

Confined Space Entry Kit with Workman® Rescuer

| PART NO. | 8'Tripod | 15m Workman® Rescuer | Pulleys | Karabiners | Workman® Premier Full Body Harness | Workman® Spreader Bar | Workman® Tripod Duffel Bag |
|----------|----------|----------------------|---------|------------|------------------------------------|-----------------------|----------------------------|
| 768384 | ■ | ■ | 1 | 2 | ■ | ■ | ■ |



Confined Space Entry Kit Components



Fall Protection Accessories

Suspension Trauma Safety Step



- Lightweight web ladder design to reduce the onset of suspension trauma during post-fall suspension
- Loops allow user to flex leg muscles and relieve leg strap pressure while suspended prior to rescue
- When connected to the fall arrest connection that the fall has occurred on, force and pressure is transferred back onto the anchor point, rather than onto the body

| PART NO: | Description |
|----------|-------------------|
| 10063431 | With Karabiner |
| 10063441 | Without Karabiner |

Bosun Chair



- Best method to sit suspended for long durations
- Padded seat ensures comfort during use
- Adjustable web assembly for added security

| PART NO: | Description |
|------------|-------------|
| SSH3505017 | Bosun Chair |

Yoke Extension



- Harness accessory that can be used as a dorsal extension to the rear D-Ring or Type 1 device when connected to the front D-ring during ladder climbing
- Extension is 300mm in length and features a double action snaphook at one end and a D-ring connection at the other

| PART NO: | Description |
|-----------|----------------|
| 229810SGL | Yoke Extension |

Wrist Tool Loop



This economical tool strap attaches to a users wrist and the cord at the opposite end secures the tool

| PART NO: | Description |
|----------|-----------------|
| 763160BK | Tool Wrist Loop |

Hands Off Chisel Grip Tool Holder



| PART NO: | Description |
|----------|-------------------|
| 10040018 | Chisel Grip |
| 10042431 | Replacement Strap |

- Keeps hands away from the point of contact
- Ergonomically designed to match the specific shape of the human hand for a comfortable and firm grip
- Easy adjustment to hold a variety of chisels and stakes up to 1" in diameter
- Vibration absorbing handle
- Spark resistant

Ergonomic Tool Holders



- Holds wrenches, chisels etc
- Vibration absorbing design
- Eases awkward hand positioning

| PART NO: | Description |
|----------|--------------|
| 507005 | Length 460mm |

Ladder Tie Down Strap



Can be used on most ladders for added stability

| PART NO: | Description |
|----------|-----------------------|
| 229816 | Ladder Tie Down Strap |

Hooks and Karabiners

| PART NO: | Description | Item No. |
|------------|---|----------|
| 229200SSTL | Karabiner, Triple Action, Steel, 18mm Gate | 1 |
| 229202TL | Karabiner, Autolock, Steel, 18mm Gate | 2 |
| 229407TL | Karabiner, Autolock, Steel 56mm Gate | 3 |
| 229200TL | Karabiner, Autolock, Steel 23mm Gate | 4 |
| 765804 | Snaphook, Double Action, Alloy, 20mm Gate | 5 |
| 229704M | Snaphook, Double Action, Steel, 55mm Gate | 6 |
| 765805 | Snaphook, Double Action, Alloy, 60mm Gate | 7 |
| 763159 | Snaphook, Double Action, Steel, 20mm Gate | 8 |
| 764315 | Karabiner, Captive Bar, Triple Action, Steel, 25mm Gate | 9 |
| 764802 | Karabiner, Captive Eye, Autolock, Steel, 18mm Gate | 10 |
| 229704SG | Karabiner, Screwgate, Alloy, 25mm Gate | 11 |
| 765807 | Karabiner, Screwgate, Alloy, 15mm Gate | 12 |
| 765802 | Delta Rapid, Steel, 15mm Gate | 13 |



Fall Protection Training and Service

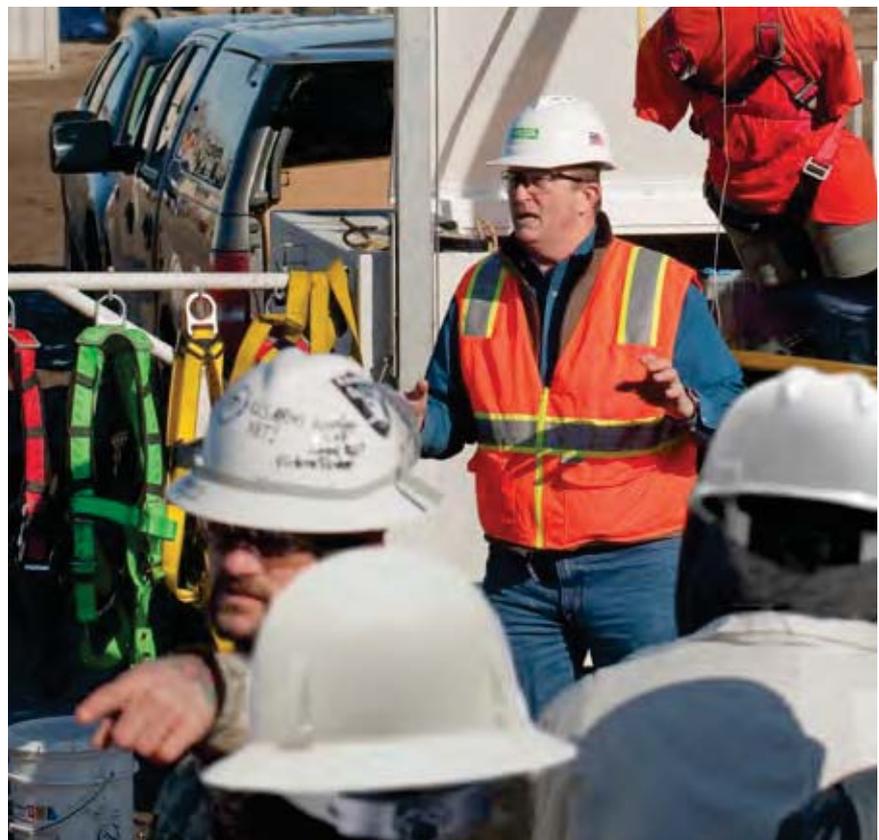
In addition to our product offering, MSA can also assist you with your Fall Protection Training and Service requirements.

Offering Registered Training Organisation (RTO) accredited height safety training including:

- Working Safely at Heights
- Perform Inspection/Height Safety Equipment Inspector
- Enter and Work in a Confined Space

Our tailored programs can be conducted onsite or at our facility to meet your working needs.

Our Service Department is also available to assist you with inspection, recertification and repair needs for our products.



Safety **Clothing/Hand and Arm Protection**



Industrial Safety Apparel Hand Protection



MSA provides a select range of high quality safety apparel and gloves. Our fabrics and finished garments are independently tested to ensure MSA's compliance to the highest applicable standards. Our manufacturing facilities produce to controlled, high standards ensuring ongoing consistent quality and product performance.

MSA's quality raw materials are combined to provide a consistent ongoing high performance. Our hand protection products are compliant to the European CE, AS/NZS 2161 standards wherever possible.

*Because every life has a **purpose...***

Safety Clothing

Disposable Coveralls

MicroTech™ Chemical Disposable Coveralls

Manufactured from premium breathable, soft fabric, high structural strength with excellent tensile and tear resistance, ultra low linting, anti-static treated and breathable (helping prevent heat stress). Offers protection against fibers and hazardous particles, water-based liquid chemicals, aerosols, biological hazards, virus and blood borne pathogens. The MicroTech™ Coveralls are lightweight, durable with superior soft comfort.

Complete with elastic hood, wrists, waist and ankles. Double reinforced zipper cover flap for additional protection, with peel off self adhesive tape providing increased protection. It also has reinforced crotch pleats, double bound surge seam, providing superior tear resistance.

Independently tested the MicroTech™ Coveralls are Certified Compliant to **Type 6** (Limited Liquid Chemical Splash - Light Sprays) and **Type 5** (Solid Dry Particulate Chemical Protection), Category 3 (PPE of complex design) in addition to EN 1149-1 (Anti-Static), EN14126 Protection Against Infective Agents and EN1073-2 (Radioactive Contamination).

| MicroTech™ White | | MicroTech™ Orange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------|--|---------|------------------------------|---------|------------------------------|---------|------------------------------|---------|-----------------------------|----------|------------------------------|-----------|------------------------------|------------|------------------------------|--|---|----------|--|---------|-------------------------------|---------|-------------------------------|---------|-------------------------------|---------|------------------------------|----------|-------------------------------|-----------|-------------------------------|------------|-------------------------------|
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| PART NO: | Description (Individually packed in cartons of 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353S | MicroTech MCT56W - White Sml | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353M | MicroTech MCT56W - White Med | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353L | MicroTech MCT56W - White Lge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353X | MicroTech MCT56W - White XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353XX | MicroTech MCT56W - White 2XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353XXX | MicroTech MCT56W - White 3XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765353XXXX | MicroTech MCT56W - White 4XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART NO: | Description (Individually packed in cartons of 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500S | MicroTech MCT56O - Orange Sml | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500M | MicroTech MCT56O - Orange Med | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500L | MicroTech MCT56O - Orange Lge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500X | MicroTech MCT56O - Orange XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500XX | MicroTech MCT56O - Orange 2XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500XXX | MicroTech MCT56O - Orange 3XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765500XXXX | MicroTech MCT56O - Orange 4XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Litefit Navy/White Disposable Coveralls

Litefit White and Navy disposable coveralls manufactured with premium breathable SMS fabric. Litefit are antistatic (AS/NZS 1149.1) treated lightweight and breathable providing excellent wearer comfort and protection against hazardous dust, particulate matter and providing a good level of repellency against water based liquid light sprays. Complete with elasticised hood, wrists, ankle and back of waist. Double layer zip flap preventing entanglement and reinforced crotch pleats provide greater tear resistance.

| Litefit White | | Litefit Navy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------|--|---------|-------------------------|---------|--------------------------|---------|-------------------------|---------|----------------------|----------|-----------------------|-----------|-----------------------|------------|-----------------------|---|---|----------|--|---------|------------------------|---------|-------------------------|---------|------------------------|---------|---------------------|----------|----------------------|-----------|----------------------|------------|----------------------|
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| PART NO: | Description (Individually packed in cartons of 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298S | Litefit - White - Small | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298M | Litefit - White - Medium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298L | Litefit - White - Large | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298X | Litefit - White - XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298XX | Litefit - White - 2XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298XXX | Litefit - White - 3XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229298XXXX | Litefit - White - 4XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART NO: | Description (Individually packed in cartons of 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601S | Litefit - Navy - Small | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601M | Litefit - Navy - Medium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601L | Litefit - Navy - Large | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601X | Litefit - Navy - XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601XX | Litefit - Navy - 2XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601XXX | Litefit - Navy - 3XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 227601XXXX | Litefit - Navy - 4XL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Chemical Type C Disposable Coveralls

Made from Tyvek with additional properties for protection against inorganic acids and bases, blood, blood borne pathogens and body fluids.

Type C Disposable Coveralls

| PART NO: | Description (Individually packed in cartons of 25) |
|-----------|--|
| 229516M | Chemical Type C Disposable Coveralls - Med |
| 229516L | Chemical Type C Disposable Coveralls - Lge |
| 229516X | Chemical Type C Disposable Coveralls - XL |
| 229516XX | Chemical Type C Disposable Coveralls - 2XL |
| 229516XXX | Chemical Type C Disposable Coveralls - 3XL |

Hand and Arm Protection

Australian/New Zealand Occupational Protective Glove Standards

Overview

The Australian/New Zealand Glove Standards AS/NZS 2161 have been reproduced from the equivalent European Standards.

AS/NZS 2161 consists of the following:

AS/NZS 2161.2 Occupational Protective Gloves - General Requirements (EN 420)

This standard covers the general requirements for Glove Construction, Ergonomy, Design & Sizing, Innocuousness of Protective Gloves, High Visibility, Comfort & Efficiency, Marking & Information applicable to all Occupational Protective Gloves.

Defined as follows:

General Requirements:

- Protective Gloves are designed, manufactured and are suitable for its intended use.
- When the glove construction includes seams, the material & strength of the seams shall be such that the overall performance of the glove is not significantly decreased.
- Protective Gloves provide protection when used to the manufactures instructions, without harm to the end user when so used.
- Glove sizing conforms to specifications in relation to hand circumference & minimum length requirement.
- Marking information covering the name, trademark or other means of identification, code/part number, size.
- Packaging information requirements & instructions for use.

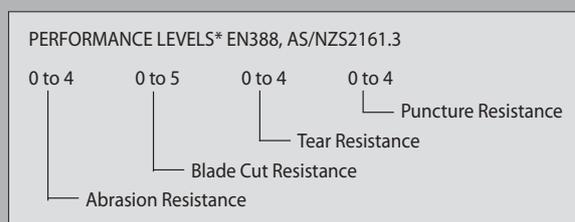
AS/NZS 2161.3 Occupational Protective Gloves - Protection Against Mechanical Risks (EN 388).

This standard specifies requirements, test methods, marking & information for protective gloves against the mechanical risk of Abrasion, Blade Cut, Tear & Puncture.

Defined as follows:

- Abrasion Resistance - Is a measure of the number of cycles required for breakthrough to occur. Breakthrough is understood to mean when a hole is worn through the test specimen.
- Blade Cut Resistance - Is a measure of the materials cut resistance index. Specimens are cut by a counter-rotating circular blade, which moves with an alternating motion under a specified load.
- Tear Resistance - Is a measure of the force necessary to propagate a tear in a specimen slit halfway along its length.
- Puncture Resistance - Is a measure of the force exerted by a steel stylus of defined dimensions to puncture a test specimen held on a retaining device.

Test results are reported as performance ratings, the higher the rating the greater resistance/protection.



MECHANICAL HAZARDS EN 388



MICRO-ORGANISMS EN 374



RADIOACTIVE CONTAMINATION EN 421



COLD HAZARDS EN 511



HEAT AND FIRE EN 407



SPECIFIC CHEMICAL PROTECTION EN 374 :2003

| Letter Code | Chemical product (EN 374: 2003) |
|-------------|---------------------------------|
| A | Methanol |
| B | Acetone |
| C | Acetonitrile |
| D | Dichloromethane |
| E | Carbon disulphide |
| F | Toluene |
| G | Diethylamine |
| H | Tetrahydrofurane |
| I | Ethyl acetate |
| J | n-Heptane |
| K | Sodium hydroxide 40% |
| L | Sulphuric acid 96% |



GENERAL CHEMICAL PROTECTION EN 374 :1994

| Protection Index | Breakthrough Time | Chemical Tested |
|------------------|-------------------|-------------------------|
| 1 | >10 minutes | Sodium Hydroxide 25% |
| 2 | >30 minutes | Sodium Hypochlorite 25% |
| 3 | >60 minutes | Sulphuric Acid 25% |
| 4 | >120 minutes | White Spirit |
| 5 | >240 minutes | |
| 6 | >480 minutes | |

Cut Resistant Gloves, Cotton and Leather Gloves

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|---|----------|---|---|
| MECHANICS NEXT GENERATION GLOVE |  | 768156M | Mechanic Next Generation Med | <ul style="list-style-type: none"> • Double coated for chemical, oil and abrasion resistance. • Non-slip sandy nitrile finish. • High visibility fabric provides both safety and breathability. • Vibration-resistant padded palm. • Reinforced back of hand / fingers for impact resistance. • Thumb crotch reinforced by DuPont's Kevlar for extra durability. • Knitted wrist with Velcro closure. • CE Standard compliant EN 388 rating 4241 (Protection Against Mechanical Hazards). |
| | | 768156L | Mechanic Next Generation Lge | |
| | | 768156X | Mechanic Next Generation XL | |
| | | 768156XX | Mechanic Next Generation XXL | |
| | | | | |
| MECHANICS GLOVE |  | 765447S | Gel Inserts Velcro - S | <ul style="list-style-type: none"> • EVA Foam inserts absorbs impact and reduce wearer fatigue. • Knuckle bar protection with high-density webbing. • Pulse guard with Velcro closing tab protects the inside wrist area. • Reinforced double stitching and synthetic leather palm increase durability and abrasion resistance. • CE standard compliant EN388 - 2112 Protection against Mechanical Hazards. <p>Carton Quantity - 72</p> |
| | | 765447M | Gel Inserts Velcro - M | |
| | | 765447L | Gel Inserts Velcro - L | |
| | | 765447X | Gel Inserts Velcro - XL | |
| | | 765447XX | Gel Inserts Velcro - XXL | |
| | | | | |
| SPLIT LEATHER PREMIUM CANDY STRIPE GLOVES |  | 220815 | Select Split Leather, Rubberised Cuff - Premium | <ul style="list-style-type: none"> • Quality Leather split palm. • Generous men's hand size. • Candy striped cotton back for airflow. • Knuckle bar and fingertip protection. • Suitable for the following applications: Building and maintenance, material handling, warehousing, light engineering. <p>Carton Quantity - 120</p> |
| | | 762075 | Leather Cotton - Budget | |
| SPLIT LEATHER AND COTTON POLISHERS |  | 220812 | Split Leather and Cotton Polishers | <ul style="list-style-type: none"> • Quality select split leather, double reinforced leather palm and thumb, forefinger and knuckle bar protection. Canvas back and cuff, generous large size. • Construction. • General Purpose. • Maintenance. • Lumber Industry. • Mining. <p>Carton Quantity - 120</p> |
| | | | | |
| MUSTANG GLOVES |  | 226545 | Leather Double Palm | <ul style="list-style-type: none"> • Quality select split leather, canvas back and cuff, knuckle bar protection, generous large size. • Construction. • General Purpose. • Maintenance. • Lumber Industry. • Mining. <p>Carton Quantity - 120</p> |
| | | | | |
| PIGSKIN SPLIT LEATHER DRIVER |  | 221434 | Pigskin Driver - L | <ul style="list-style-type: none"> • Selected split. • Large hand size. • Unlined. • Shirred Wrist, Wing Thumb. <p>Carton Quantity - 120</p> |
| | | | | |

Leather Gloves

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|---|---|---|--|
| GRAND PRIX DRIVERS GLOVES |  | 225030S 225030M 225030 225030X | Grand Prix Drivers Gloves - S Grand Prix Drivers Gloves - M Grand Prix Drivers Gloves - L Grand Prix Drivers Gloves - XL | <ul style="list-style-type: none"> • "A" Grade Cow Grain Leather Glove. • Functional elastic shirred wrist. • Reinforced stitching for greater seam strength. • CE Standard compliant. • EN388/03 (Protective Gloves against Mechanical Hazards EN388/3213) and EN 420/03 (Gloves General Requirements). • Manufactured to CE standards sizing requirement. • Excellent durability and abrasive resistance. • Wing thumb, offering comfort and good flexibility. <p>Carton Quantity - 120</p> |
| COW GRAIN EXTENDED CUFF |  | 765443M 765443L 765443X | Cow Grain Extended Cuff - M Cow Grain Extended Cuff - L Cow Grain Extended Cuff - XL | <ul style="list-style-type: none"> • Select quality B/C leather cow grain. • 30cm overall length. • Elastic Shirred Wrist. • Wing Thumb. <p>Carton Quantity - 120</p> |
| FREEZER FUR LINED GLOVE |  | 225499 | Freezer Fur Lined - L | <ul style="list-style-type: none"> • Select B/C Cow Grade Leather. • Synthetic Fur Lined. • Elastic Shirred Cuff. • Wing Thumb. <p>Carton Quantity - 60</p> |
| RODEO GLOVE |  | 227507 | Rodeo Glove - Leather - L | <ul style="list-style-type: none"> • Rodeo Drivers Glove. • Cow Grain B/C Leather Palm. • Split Leather Back. • Keystone Thumb. • Shirred Wrist. <p>Carton Quantity - 120</p> |
| GRAIN PALM SPLIT LEATHER BACK DRIVER |  | 229835M 229835 229835X | Leather Natural - M Leather Natural - L Leather Natural - XL | <ul style="list-style-type: none"> • Select Quality Cow Grain and Split Leather. • Natural Colour. • Grain Leather Palm and Forefinger. • Split Leather Back. • 3 sizes Med, Large and X Large. • Wing Thumb, Shirred Wrist. <p>Carton Quantity - 120</p> |

Nitrile, Latex and PVC Gloves

| | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|--|--|---|
| FLEXIFIT FOAM NITRILE BLACK/ GREY GLOVE   | 765134 765135 765136 765137 765265 765266 765267 765268 | Grey - Sml Grey - Med Grey - Lge Grey - XL Black - Sml Black - Med Black - Lge Black - XL | <ul style="list-style-type: none"> Flexifit Gloves offer excellent abrasion resistance, ultra lightweight with superior secure grip in dry, wet and oily conditions. CE compliant EN 388-03 (Protection Against Mechanical Hazards). Oil Resistant Foam Nitrile palm coating on a stretch seamless low lint nylon liner. Black or grey foam nitrile coating. Close comfortable fit. Low lint nylon liner. Elasticised knit wrist. Machine washable. <p>Carton Quantity - 120</p> |
| LATEX PALM DIPPED "GLASS GRIPPER"   | 220216 | Knit Wrist - Premium | <ul style="list-style-type: none"> CE Standards Compliant EN 388 (Protection Against Mechanical Risks). Excellent durability and grip. Soft jersey lining. Flexible, high abrasion resistance. Knitted cuff. Natural latex coated. <p>Carton Quantity - 120</p> |
| HEAVY NITRILE PALM COATED OPEN/KNIT CUFF   | 227003M 227003L 227003X 227004S 227004M 227004L 227004X | Open Cuff - Med Open Cuff - Lge Open Cuff - XL Knit Cuff - Sml Knit Cuff - Med Knit Cuff - Lge Knit Cuff - XL | <ul style="list-style-type: none"> CE compliant EN 388-03 (Protection Against Mechanical Hazards). Nitrile palm coated. Knit Wrist or Open Cuff. Soft jersey liner. Excellent grip and dexterity. Comfortable ergonomic fit and good flexibility. <p>Carton Quantity - 120</p> |
| LIGHT NITRILE PALM COATED GLOVE   | 227002S 227002M 227002L 227002X | Knit Wrist - Sml Knit Wrist - Med Knit Wrist - Lge Knit Wrist - XL | <ul style="list-style-type: none"> CE compliant EN 388-03 (Protection Against Mechanical Hazards). Good grip and abrasion resistance. Comfort jersey lining. 27cm overall length. Multi-purpose, hard wearing. Knit wrist. <p>Carton Quantity - 120</p> |
| NITROSOLVE FLOCKLINED CHEMICAL GLOVE    | 226836S 226836M 226836L 226836X 226836XX | Flocklined Chemical Glove - S Flocklined Chemical Glove - M Flocklined Chemical Glove - L Flocklined Chemical Glove - XL Flocklined Chemical Glove - 2XL | <ul style="list-style-type: none"> Unsupported highly flexible. Latex free flock lined. Enhanced dexterity, stretch and durability. 33cm overall length x 0.40mm thickness. <p>Carton Quantity - 120</p> |

Safety Clothing/Hand and Arm Protection

PVC Gloves

| | | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---------------------------------------|---|----------------|---|---|
| FULLY COATED PVC SINGLE DIPPED GLOVES |  | 221741 | Open Cuff - 27 cm - Red | <ul style="list-style-type: none"> • CE compliant EN 388-03 (Protection Against Mechanical Hazards). • EN 374-03 (General Chemical Protection). • Abrasion resistance. • Wet and Dry grip. • 27cm or 45cm overall length. • Cotton lining. • Flexible, Durable. • Size - Large. <p>Carton Quantity (27 cm) - 120</p> <p>Carton Quantity (45cm) - 60</p> |
| | | 220615 | Open Cuff - 45 cm - Red | |
| GREEN DOUBLE DIPPED PVC GLOVE |  | 762515 | Green Double Dipped PVC Glove - 27 cm | <ul style="list-style-type: none"> • CE compliant EN 388-03 (Protection Against Mechanical Hazards). • CE compliant EN 374-03 (General Chemical Protection). • Interlock Lining. • Fully Coated. <p>Carton Quantity (27 cm) - 120</p> <p>Carton Quantity (45cm) - 60</p> |
| | | 762514 | Green Double Dipped PVC Glove - 45 cm | |
| METALGARD GLOVE |  | 220875 | Hand Size - 8.5 (Lge) - 27cm | <p>Ideal for the heavy manufacturing industry to handle metal plates and castings. Manufactured using MSA's exclusive high density resin/plasticiser ration formulation for extra durability and abrasion resistance. Green in colour, fully coated. Available in a choice of sizes and lengths. EN 388 (4221) - Protection against Mechanical Hazards. CE Compliant - EN 374 (Class 312) General chemical protection.</p> <p>Carton Quantity - 60</p> |
| | | 220876 | Hand Size - 9.5 (XL) - 27cm | |
| | | 767461 | Hand Size - 10.5 (2XL) - 27cm | |
| | | 220879 | Hand Size - 8.5 (Lge) - 35 cm | |
| | | 220880 | Hand Size - 9.5 (XL) - 35cm | |
| | | 767460 | Hand Size - 10.5 (2XL) - 35cm | |
| | | 220881 | Hand Size - 8.5 (Lge) - 45 cm | |
| | | 220882 | Hand Size - 9.5 (XL) - 45cm | |
| | | 767459 | Hand Size - 10.5 (2XL) - 45cm | |
| | | SOLVGARD GLOVE |  | |
| 224249 | Hand Size - 9.5 (XL) - 27cm | | | |
| 767452 | Hand Size - 10.5 (2XL) - 27cm | | | |
| 224252 | Hand Size - 8.5 (Lge) - 35 cm | | | |
| 224253 | Hand Size - 9.5 (XL) - 35cm | | | |
| 767453 | Hand Size - 10.5 (2XL) - 35cm | | | |
| 224336 | Hand Size - 8.5 (Lge) - 45 cm | | | |
| 224337 | Hand Size - 9.5 (XL) - 45cm | | | |
| 767458 | Hand Size - 10.5 (2XL) - 45cm | | | |

Welding Gloves

| | PART NO. | DESCRIPTION | PRODUCT SPECIFICATIONS |
|---|----------|---------------------------|---|
| FLASHMASTER TIGMATE  | 227765L | Flashmaster TIGmate - Lge | <ul style="list-style-type: none"> • Premium Grade Goat Select Grain. • Full Dexterity. • Kevlar Sewn. • 32cm Overall Length. • EN 388 (2111) Protection against Mechanical Hazards. Carton Quantity - 60 |
| BLUE WELDING GAUNTLET  | 228370 | Reinforced Palm | <ul style="list-style-type: none"> • Kevlar Stitching. • Reinforced Double Palm and Thumb. • Full Lining. • Generous Hand Size. • Quality Split Cow Leather. • Comfort with Heavy Duty Palm Protection. • 40cm Overall Length. Carton Quantity - 40 |
| PREMIUM QUALITY WELDING GAUNTLET  | 224518 | Welding Gauntlet - Lge | <ul style="list-style-type: none"> • Select Quality Split Leather. • Reinforced Palm and Thumb. • Full Lining. • Generous Hand Size. • 40cm overall length. Carton Quantity - 60 |

MSA Wasp Killer

Wasp Killer



- Easy to use trigger release.
- Operates with a powerful 4 meter jet which ensures the operator is positioned at a safe distance from disturbed insects.
- Ideal for Electrical workers, builders, gardeners and arborists.

MSA Wasp Killer is registered by the Australian Pesticides and Veterinary Medicines Authority.

Registered No. - 53310. Approval No. of label - 53310/1200

| PART NO: | Description |
|----------|-------------------------|
| 229299 | Wasp Killer - Box of 12 |

| | | | | | |
|--|----|--|----|---|----|
| Training and Service Solutions | 2 | Filters for Advantage® 200LS, Advantage® 1000, Advantage® 420, and Advantage® 3200 Twin Filter Respirators | 22 | Model RP Regulators | 41 |
| Respiratory Protection | 3 | Advantage® Respirator Cartridges | 22 | Gas Miser® Demand Regulator: The Intelligent Regulator | 42 |
| Supplied Air Respirators | 4 | Flexi-Filter® Particulate Pads for Advantage Respirators | 22 | Portable Instruments | 42 |
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| AirGo Pro Series Breathing Apparatus | 7 | W65 | 26 | Chillgard® Refrigerant Monitors (HVAC+R) | 46 |
| AirGo Pro SingleLine with Hose in Hose Technology | 7 | Powered Air Purifying Respirators | 26 | Chillgard® RT Refrigerant Monitor | 46 |
| AirGo Pro Series with Separate Demand Valve and Gauge Line | 7 | Optimair™ 3000 and Responder™ CBRN | 26 | Chillgard® NH ₃ (Ammonia) | 46 |
| AirGo ProMaXX Series Breathing Apparatus | 7 | Powered Air Respirators | 26 | Chillgard® M-100 | 46 |
| AirGo ProMaXX SingleLine with Hose in Hose Technology | 7 | OptimAir™ 3000 | 26 | Flame Detection | 47 |
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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 warning or cautions provided have been thoroughly read and understood. Only they contain the complete and detail information concerning proper use and care of these products.

ID/AUNZ2016

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