

Preferred Products **Catalog**

2014-2015



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



Award-Winning Customer Service

Every customer wants it. Every good business has it.

Our multiple-award-winning Customer Service Center proves that MSA strives for continuous improvement in customer satisfaction. Every year brings positive changes: better-trained associates with more advanced processes, resulting in improved service and faster solutions. Each Customer Service Associate's computer workstation can simultaneously handle a variety of applications, and an automated call distributor monitors and routes call flow to ensure peak performance. Customer Service continues to look for ways to improve its relationship with customers via surveys. Our goal is to provide exceptional customer service, which in turn creates customer loyalty.

The MSA Customer Service Center provides:

- Pre-Sales Support
 - Prepare quotations/bids
 - Product support and recommendations
- Sales Order Support
 - Process purchase orders
 - Provide price and availability information
 - Order status/delivery information
- Post-Sales Support
 - Product support—use and troubleshooting
 - Shipment tracking
 - Order/shipment issue resolution
 - Repair service notifications—return authorizations
 - Credit and corrected invoice requests

Great International Sales

MSA's international sales capabilities start with MSA Sales Representatives who assist in choosing the right products for your applications and local approvals. Our extensive network of distributors, representatives and MSA-affiliate companies covers most major cities worldwide. Highly-trained international customer service associates guide your export orders from placement to delivery. MSA uses all major air and ocean freight forwarders and courier services due to their ability to consolidate multiple orders and minimize freight expenses. Associates understand international inspections, certifications, licensing and other customs issues necessary for successful importation.

To contact MSA International or to find the MSA affiliate company or distributor nearest you, please contact MSA International:

Toll-free in the U.S. 1-800-MSA-7777
Outside the U.S. (+1) 724-776-8626
FAX (+1) 724-741-1553
Email International@MSAsafety.com

To reach our Customer Service Center:

Toll-free .. 1-800-MSA-2222/1-800-MSA-5555 (after-hours emergencies)
FAX 1-800-967-0398
Email orders placeorder@MSAsafety.com
MSA Voice Mail System 1-800-759-6423
Mailing Address Customer Service Center
 MSA Corporate Center
 1000 Cranberry Woods Dr.
 Cranberry Twp, PA 16066

Air-Purifying Respirators	4–11
Air-Line Respirators	12–18
Escape Respirators	19
Self-Contained Breathing Apparatus (SCBA)	20–22
Portable Gas-Detection Instruments	23–26
Head and Face Protection	27–55
Hearing Protection	56–59
Eye Protection	60–66
Fall Protection	67–88
MSA-U® Online Training Center	89
Index	90–91



Air-Purifying Respirators

Advantage® 420 Half-Mask Respirator

- Respirator boasts several features to increase comfort and provide customized fit
- Four-point yoke and harness design promotes easy donning and doffing
- Easily switches between lock-down and drop-down mode
- Designed for easy integration with other personal protective equipment
- Latex-free

	Small	Medium	Large	
ADVANTAGE 420 RESPIRATOR	10102182	10102183	10102184	Advantage 420 Assembly (includes facepiece, head cradle, elastic straps, buckle set, yoke with lever, two (2) inhalation valves, one (1) exhalation valve)

See page 6 for Advantage filters and cartridges and page 7 for flexible pad-style filters.



Advantage 420 Respirator

Advantage 200 LS Half-Mask Respirator

- Lightweight, cost-efficient
- Thermoplastic rubber increases softness and decreases weight
- Multiflex system equalizes facial pressure
- AnthroCurve™ sealing surface conforms to each user's face

	Small	Medium	Large	
ADVANTAGE 200 LS RESPIRATOR	815696	815692	815700	Advantage 200 LS Respirator, with 2-piece neckstrap
	815448	815444	815452	Advantage 200 LS Respirator, with single neckstrap

See page 6 for Advantage filters and cartridges and page 7 for flexible pad-style filters.



Advantage 200 LS Respirator

Comfo Classic® Half-Mask Respirator

- SoftFeel rubber and Silicone facepieces enhance softness, increasing wearer comfort
- Face seal design provides secure, comfortable fit

	Small	Medium	Large	
COMFO CLASSIC RESPIRATOR	808075	808074	808076	Comfo Classic Facepiece, SoftFeel hycar
	808072	808071	808073	Comfo Classic Facepiece, SoftFeel silicone

See page 7 for threaded Comfo cartridges and filters.



Comfo Classic Respirator

Advantage 4000 Series Full-Facepiece Respirators

- Facepieces are compatible with several MSA respirator models for comfortable, cost-efficient, cross-platform performance
- Option of three standard sizes ensures user will find a solid fit
- Standard noseclip reduces lens fogging
- Components lock into place in seconds for quick, convenient performance

	Small	Medium	Large	
ADVANTAGE 4100 FACEPIECES <i>Hycar</i>	10083797	10083793	10083801	Advantage 4100 Facepiece, with polyester net head harness
	10083799	10083795	10083803	Advantage 4100 Facepiece, with rubber head harness
	10108576	10108574	10108578	Advantage 4100 Facepiece, with Kevlar net head harness
ADVANTAGE 4100 FACEPIECES <i>Silicone</i>	10083796	10083792	10083800	Advantage 4100 Facepiece, with polyester net head harness
	10083798	10083794	10083802	Advantage 4100 Facepiece, with rubber head harness
	10108575	10108573	10108577	Advantage 4100 Facepiece, with Kevlar net head harness

See page 6 for Advantage filters and cartridges and page 7 for flexible pad-style filters.



Advantage 4100 Respirator
with polyester net head harness

Advantage 3000 Series Full-Facepiece Respirators

- Full face respirator features state-of-the-art design to lower breathing resistance, while the noseclip reduces fogging and silicone facepiece increases comfort
- Scratch-resistant wraparound lens allows for wide field-of-vision, while adjustable straps offers consistent fit

	Small	Medium	Large	
ADVANTAGE 3200 FACEPIECES	10028996	10028995	10028997	Advantage 3200 Facepiece, with rubber net head harness
	10031340	10031309	10031341	Advantage 3200 Facepiece, with Advantage European-style harness

See page 6 for Advantage filters and cartridges and page 7 for flexible pad-style filters.



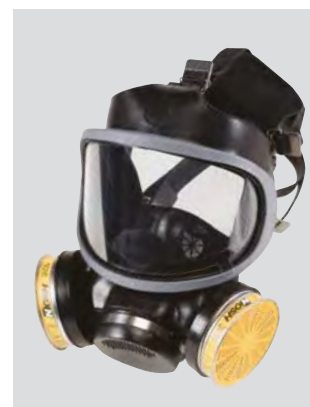
Advantage 3200 Respirator with rubber
harness and chemical cartridges

Ultra-Twin® Full-Facepiece Respirator

- Feature an inturned lip, large chin cup, and 5 headstraps with roller buckles for secure, comfortable fit
- Speaking diaphragm provides clear communications
- Nosecup reduces lens fogging

	Small	Medium	Large	
ULTRA-TWIN FACEPIECES	471298	471286	471310	Ultra-Twin Facepiece, hycar
	480263	480259	480267	Ultra-Twin Facepiece, silicone

See page 7 for Comfo filters and cartridges.



Ultra-Twin Respirator (small) with
GMC threaded metal Comfo Cartridges

Air-Purifying Respirators

Advantage Respirator Cartridges			Acid Gases															
The Advantage line of particulate, chemical and combination cartridges is NIOSH-certified (to 42 CFR, Part 84) and provides lightweight, low-profile performance. Cartridges fit 200 LS and 420 Half-Mask, 1000, 3000 and 4000 Series Full-Facepiece Advantage Respirators.			Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	Filter Type & Efficiency See Definitions below				
MSA Cartridge Description	Re-Order Part Number	Color Coding	OV	CL	SD	CD	HC	HS	AM	MA	FM	HF	MV	P100	R95	N95	See Notes below	
Organic Vapor (GMA)	815355																2,3	
Organic Vapor w/N95 Prefilter (GMA)	815355 w/815394 or 816357																2,3,5	
Organic Vapor w/R95 Prefilter (GMA)	815355 w/815397																2,3,5	
Organic Vapor/P100 (GMA)	815362																2,3,4	
Acid Gas (GMB)	815356																2	
Acid Gas w/N95 Prefilter (GMB)	815356 w/815394 or 816357																2,5	
Acid Gas w/R95 Prefilter (GMB)	815356 w/815397																2,5	
Acid Gas/P100 (GMB)	815363																2,4	
Organic Vapor/Acid Gas (GMC)	815357																2,3	
Organic Vapor/Acid Gas w/N95 Prefilter (GMC)	815357 w/815394 or 816357																2,3,5	
Organic Vapor/Acid Gas w/R95 Prefilter (GMC)	815357 w/815397																2,3,5	
Organic Vapor/Acid Gas/P100 (GMC)	815364																2,3,4	
Ammonia/Methylamine (GMD)	815358																2,3	
Ammonia/Methylamine w/N95 Prefilter (GMD)	815358 w/815394 or 816357																2,3,5	
Ammonia/Methylamine w/R95 Prefilter (GMD)	815358 w/815397																2,3,5	
Ammonia/Methylamine/P100 (GMD)	815365																2,3,4	
Multigas (GME)	815359																2,3	
Multigas w/ N95 Prefilter (GME)	815359 w/815394 or 816357																2,3,5	
Multigas w/R95 Prefilter (GME)	815359 w/815397																2,3,5	
Multigas/P100 (GME)	815366																2,3,4	
Iodine Vapor/P100 (GMI)*	815641																2,4	
Chlorine/Mercury Vapor (Mersorb)	815361																2	
Chlorine/Mercury Vapor w/N95 Prefilter (Mersorb)	815361 w/815394 or 816357																2,5	
Chlorine/Mercury Vapor w/ R95 Prefilter (Mersorb)	815361 w/815397																2,5	
Chlorine/Mercury Vapor/P100 (Mersorb)	815368																2,4	
Low-Profile P100	815369 Pack of 2 10123079 Pack of 100																1,4	
N95 Snap-On Prefilter and Cover	815394 Pack of 10 816357 Box of 50 815392 Reusable Snap-On Cover, 2 in a Package	⚠ WARNING																
R95 Snap-On Prefilter and Cover	815397 Box of 20 815401 Reusable Snap-On Cover, 2 in a Package	An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the cartridge/canister utilizes an end-of-service-life indicator. The change-out schedule must take into account all factors that may influence respiratory protection including specific work practices and other conditions unique to the worker's environment. If using against substances having poor warning properties, there is no secondary means of knowing when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent overexposure, which may include a more conservative change-out schedule or using an air-supplied respirator or SCBA. Failure to follow this warning can result in serious personal injury or death. As a reference, below is a partial list of substances having poor warning properties:																
Definitions																		
N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.		Acrolein Hydrogen cyanide Nitric acid Phosphorus trichloride																
R95-Particulate Filter (95% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply.		Aniline Hydrogen selenide Nitro compounds Stibine																
P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols.		Arsine Methanol Nitrogen oxides Sulfur chloride																
		Bromine Methyl bromide Nitroglycerin Urethane or other diisocyanate-containing paints																
		Carbon monoxide Methyl chloride Nitromethane																
		Diisocyanates Methylene chloride Phosgene Vinyl chloride																
		Dimethyl sulfate Nickel carbonyl Phosphine																
Notes																		
1. 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.																		
2. Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.																		
3. 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.																		
4. 99.97 percent efficient against 0.3 micron DOP.																		
5. Both a prefilter and cover must be used with the cartridge in order to obtain R95 or N95 particulate protection.																		

Comfo Respirator Cartridges

The Comfo line of particulate, chemical and combination cartridges is NIOSH-certified (to 42 CFR, Part 84). Cartridges fit Comfo Classic, Ultra-Twin, Ultra Elite Twin-Cartridge and Duo-Twin Respirators, and certain half-mask and full-face Advantage Respirators with Adapter (P/N 809999).

			Acid Gases												Filter Type & Efficiency			See Notes on p. 12
MSA Cartridge Description	Re-Order Part Number	Color Coding	Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor		P100	R95	N95	
Organic Vapor (GMA)	464031 (10 in pkg.)																	2,3,5
Organic Vapor/P100 (GMA)	815178 (6 in pkg.)																	2,3,4
Organic Vapor/P100 Short Stack (GMA)	815186 (6 in box)																	2,3,4
Acid Gas (GMB)	464032 (10 in box)																	2,5
Acid Gas/P100 (GMB)	815179 (6 in box)																	2,4
Organic Vapor/Acid Gas (GMC)	464046 (10 in pkg.)																	2,3,5
Organic Vapor/Acid Gas/P100 (GMC)	815180 (6 in box)																	2,3,4
Organic Vapor/Acid Gas/P100 Short Stack (GMC)	815188 (6 in box)																	2,3,4
Ammonia/Methylamine (GMD)	464033 (10 in box)																	2,3,5
Ammonia/Methylamine/P100 (GMD)	815181 (6 in box)																	2,3,4
Multigas (GME)	492790 (10 in box)																	2,3,5
Multigas/P100 (GME)	815182 (6 in box)																	2,3,4
Iodine Vapor/P100 (GMI)*	815184 (6 in box)																	2,4
Chlorine/Mercury Vapor (Mersorb)	466204 (10 in box)																	2,5
Chlorine/Mercury Vapor/P100 (Mersorb)	815185 (6 in box)																	2,4
P100	815175 (10 in box)																	1,4
Sparkfoe® P100	815176 (10 in box)																	1,4
Low-Profile P100	815177 (10 in box)																	1,4
Stand-alone and cover N95 and covers required for Comfo Respirators	816662 N95 (10 in pkg.) 816661 N95 (50 in box) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)																	1
Pre-filter and Cover N95	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)																	1
Pre-filter and Cover R95	816287 R95 (20 in box) 489219 R95 Reusable snap-on cover (1 in pkg.; 2 req.)																	1

* Effective against, but not NIOSH-approved for Iodine Vapor. Note: See **WARNING** on previous page.

Flexi-Filter® 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.	Color Coding	P100	P95	N95	Notes
Flexi-Filter P100	818342					1,4
Flexi-Filter P100 w/Nuisance Level OV, Ozone Removal	818343					1,4
Flexi-Filter P100 w/Nuisance Level AG, HF Removal	818344					1,4
Flexi-Filter N95	818346					1
Flexi-Filter N95 w/Nuisance Level OV Removal	818347					1
Flexi-Filter P95	818354					1
Flexi-Filter P95 w/Nuisance Level OV Removal	818355					1

THREADED RESPIRATOR CARTRIDGES FOR ULTRA FILTER RESPIRATORS

10010420	Round Ultra Filter Cartridge, box of 6
10010421	Round Ultra Filter Cartridge, box of 50

Air-Purifying Respirators

OptimAir® Mask-Mounted Powered Air-Purifying Respirator (PAPR) and OptimAir MM2K PAPR with Type HE OptiFilter® XL Filter

- Lightweight, compact design for long-life, high-performance and low maintenance
- Sealed, water-resistant battery fits inside most pockets
- Dual-rate charger recharges fully discharged battery in less than three hours
- Water-resistant HEPA filter for protection against particulate contaminants
- Choice of facepiece model in several configurations
- Facepiece, motor/blower and filter combine to produce high air flow
- Compact, easy to maneuver, simple to decontaminate
- Constant air flow also cools user's face

OptimAir Mask-Mounted PAPR

OptimAir Mask-Mounted PAPR Kits consist of motor/blower, NiMH battery, dual-rate charger, one Type HE OptiFilter XL Cartridge, PVC decon belt, and choice of facepiece. Housing of polycarbonate/ polyester construction and stainless steel connectors result in extreme durability. NIOSH-approved as mask-mounted PAPR. OptimAir Mask-Mounted PAPR offers a full two-year warranty.

OptimAir MM2K PAPR

OptimAir MM2K PAPR assemblies include motor/ blower, NiMH battery, dual-rate battery charger, cable, one Type HE OptiFilter XL Cartridge, belt, and Advantage 3000 Facepiece. OptimAir MM2K PAPR for mold remediation/abatement, asbestos and nuclear applications offers long life, high performance and low maintenance in an economical package. NIOSH-approved as mask-mounted PAPR. MSA OptimAir MM2K PAPR offers a full one-year warranty.



OptimAir Mask-Mounted PAPR



OptimAir MM2K PAPR

Complete Assemblies for OptimAir Mask-Mounted PAPR and OptimAir MM2K PAPR

All assemblies include: motor/blower, NiMH battery, dual-rate battery charger and cable, one Type HE OptiFilter XL Cartridge, waist belt, and choice of facepiece. Upgrade kits (less facepiece) are also available—contact your MSA Distributor.

		OPTIMAIR MASK-MOUNTED PAPR			OPTIMAIR MM2K PAPR		
ADVANTAGE 3100 PAPR	Head Harness	Small	Medium	Large	Small	Medium	Large
	With rubber head harness, silicone	10095181	10095182	10095183	10034152	10034150	10034151
	With Advantage Head Harness, silicone	10095184	10095185	10095186	10034155	10034153	10034154
ADVANTAGE 4100 PAPR	Material	Small	Medium	Large	Small	Medium	Large
	Black silicone with rubber harness	10095193	10095189	10095197	10084547	10084543	10084551
	Black Hycar Rubber with rubber harness	10095194	10095190	10095198	10084548	10084544	10084552
	Black silicone with net harness	10095191	10095187	10095195	10084545	10084541	10084549
	Black Hycar Rubber with net harness	10095192	10095188	10095196	10084546	10084542	10084550

OptiFilter Cartridges for OptimAir Mask-Mounted and MM2K PAPR

	MSA Purifying Element	Purifying Protection Code	Code Color	No. in Box	Part No.
OPTIFILTER CARTRIDGES	OptiFilter XL, Type HE	HE		20	10042346
	OptiFilter XL, Type HE	HE		6	496081

Waist Belts for OptimAir Mask-Mounted and MM2K PAPRs

PVC belt with slide-through friction buckle is comfortable and easy to decontaminate

- **Standard**—P/N 473902 clear polyvinylchloride (PVC) support belt, 52 inches long (for waist sizes of up to 48 inches)
- **Optional**—P/N 492827 polyurethane-coated nylon belt, 67 inches long
- **No-decon applications**—P/N 9961 uncoated nylon web waist belt

OptimAir® TL Powered Air-Purifying Respirator

- Single hip-hugging design for motor blower, cartridges; battery provides lightweight comfort and fit
- Low-profile motor blower offers optimal airflow through a crushproof breathing tube
- Ergonomic battery pack allows for free movement within confined spaces
- Unit automatically adjusts flow rates for altitude changes via an internal pressure sensor
- Cutting-edge design permits fast, accurate change-out of cartridges, hoods and batteries
- Audible and visual alarms indicate low flow condition and low battery voltage
- Available with standard or an extended-life battery
- Less bulk and better weight distribution improves worker efficiency

OptimAir TL Kits

Kits include: motor blower, battery, Smart Charger, breathing tube and decon belt.

OPTIMAIR TL KITS for facepieces	10081114	OptimAir TL Kit with standard battery
	10081115	OptimAir TL Kit with long-life battery
OPTIMAIR TL KITS for hoods	10081116	OptimAir TL Kit with standard battery
	10081117	OptimAir TL Kit with long-life battery



OptimAir TL PAPR with Advantage
4100 Facepiece

Facepieces Only (Single-Port)

	Small	Medium	Large	
ADVANTAGE 4100 FACEPIECE ONLY Also requires RD40 Adapter P/N 10065330	10083796	10083792	10083800	Advantage 4100, black silicone, with polyester net head harness
	10083798	10083794	10083802	Advantage 4100, black silicone, with rubber head harness
	10108575	10108573	10108577	Advantage 4100, black silicone, with Kevlar net head harness
	10083797	10083793	10083801	Advantage 4100, black hycar, with polyester net head harness
	10083799	10083795	10083803	Advantage 4100, black hycar, with rubber head harness
	10108576	10108574	10108578	Advantage 4100, black hycar, with Kevlar net head harness
ULTRA ELITE FACEPIECES ONLY	493072	493028	493116	Ultra Elite, black silicone, with rubber head harness
	493064	493020	493108	Ultra Elite, black hycar, with rubber head harness

OptimAir TL Hoods Note: all hoods are white except where noted.

DESCRIPTION	Tychem® QC (polyethylene-coated Tyvek)	Tychem® SL (Saranex-coated Tyvek)
SINGLE BIB		
4-pack, threaded connector, with suspension	10083329	10083381
20-pack, threaded connector, less suspension	10095739 (WHITE) 10095748 (YELLOW)	10095741
4-pack, standard, with suspension	10083383	10083385
20-pack, standard, less suspension	10095740	10095742
DOUBLE BIB		
4-pack, threaded connector, with suspension	10083330	10083382
20-pack, threaded connector, less suspension	10095743 (WHITE) 10095749 (YELLOW)	10095745
4-pack, standard, with suspension	10083384	10083386
20-pack, standard, less suspension	10095744	10095746

Accessories

FACEPIECE ACCESSORIES	10065330	RD-40 Inlet assembly, required for all Advantage 4100 facepieces	CARTRIDGES	10080455	P100 cartridge (6-pack)
	10049630	Hose for facepiece (OptimAir 3000)		10080454	OV/AG P100 cartridge (6-pack)
	10087129	Flow check device for facepiece only		10080456	AG, AM, FM, P100 cartridge (6-pack)
HOOD SUSPENSIONS	10103864	20-pack		10068152	Spark Guard cartridge cover (single unit) (2 req.)
	10078469	1 each			

Air-Purifying Respirators

Chin-Type Gas Masks

Our lightweight Chin-Type Gas Masks use a replaceable canister to offer protection against particulate matter, vapors, and gases. The small canister and comfortable facepiece allow for downward head movement and high ease-of-use.

Note: Not meant for fire fighting.

- Lightweight, comfortable gas masks offer protection against particulate matter, vapors, and gases
- Small round canister and comfortable facepiece provide easy downward head movement

- Canisters offer protection from: Phosphine/Ammonia/Chlorine-P100, Organic Vapor-P100, Hydrogen Fluoride/Chlorine/P100, Formaldehyde/Acid Gas/Chlorine Dioxide/Hydrogen Sulfide/P100



	Small	Medium	Large	
ADVANTAGE 3100 SINGLE-PORT FACEPIECES	10028999	10028998	10029000	Advantage 3100 Facepiece, black silicone, with rubber head harness
	10031343	10031342	10031344	Advantage 3100 Facepiece, black hycar, with Advantage head harness
ADVANTAGE 4100 SINGLE-PORT FACEPIECES	10083796	10083792	10083800	Advantage 4100 Facepiece, black silicone, with polyester net head harness
	10083797	10083793	10083801	Advantage 4100 Facepiece, black hycar, with polyester net head harness
ULTRAVUE FACEPIECES	480251	480247	480255	Ultravue Facepiece, black silicone
	471218	457126	471230	Ultravue Facepiece, black hycar
ULTRA ELITE FACEPIECES	493072	493028	493116	Ultra Elite Facepiece, black silicone
	493064	493020	493108	Ultra Elite Facepiece, black hycar

Replacement Canisters and Accessories

REPLACEMENT CANISTERS	Single Canister	Box of 12 Canisters	Color Coding	
	10059903*	10094314		Phosphine/Ammonia/Chlorine/P100 Canister (PH/AM/CL) <i>Maximum Escape Conditions:</i> ammonia and chlorine: 0.05 % volume, 5000 ppm phosphine: 0.15% volume, 1500 ppm <i>Approval:</i> TC-14G-0274
	10067469*	10094315		Organic Vapor/P100 Canister (OV) also effective against organic iodides and iodide vapors <i>Maximum Escape Conditions:</i> 0.05 % volume, 5000 ppm <i>Approval:</i> TC-14G-0279
	10067491*	10091352		Hydrogen Fluoride/Chlorine/P100 Canister (HF/CL) <i>Maximum Escape Conditions:</i> hydrogen fluorine: 0.05 % volume, 5000 ppm chlorine: 0.10% volume, 5000 ppm <i>Approval:</i> TC-14G-0280
	10067470*	10094316		Formaldehyde/Acid Gas/Chlorine Dioxide/Hydrogen Sulfide/P100Canister (FM/AG/CD/HS) <i>Maximum Escape Conditions:</i> formaldehyde: 0.05 % volume, 500 ppm acid gases and hydrogen sulfide: 0.50% volume, 5000 ppm chorine dioxide: 0.10% volume, 1000 ppm <i>Approval:</i> TC-14G-0282

* Canister contains a P100-particulate filter (99.97% filter efficiency level) against all particulate amounts.

STORAGE CASES AND STORAGE ACCESSORIES	10075204	For Phosphine/Ammonia/Chlorine/P100 Gas Mask	ADDITIONAL PARTS FOR BELT-MOUNTING	10068195	Belt clip
	10075207	For Organic Vapor/P100 Gas Mask		10068129	Breathing tube
	10075205	For Hydrogen Fluoride/P100 Gas Mask		473902	PVC belt
	10075206	For Formaldehyde/Acid Gas/Chlorine Dioxide/Escape from Hydrogen Sulfide/P100 Gas Mask		9961	Web support belt, uncoated
	10071231	Wall bracket		492827	Polyurethane-coated nylon support belt
				10068152	Spark cover

Riot Control and CBRN Gas Masks

Protect law enforcement and military personnel from a variety of respiratory hazards with this full line of CBRN and riot control gas masks. Featuring flexible lenses, wider field of view, permeation-resistant construction and built-in speaking diaphragms, these masks provide protection with a comfortable fit and superior visibility. Available in a variety of styles and configurations.

- Provides respiratory protection against military warfare, civil unrest and CBRN threats
- High-performance, custom-fit comfort in a variety of military- and riot-style masks
- Attracts, regains and neutralizes contaminants
- Flexible lens with a wider field of view for superior visibility
- Easy on/off and adjustment
- Choose from a variety of styles including total head protection

CBRN and Riot Control Gas Masks

	Small	Medium	Large	
MILLENNIUM® CBRN/ RIOT CONTROL GAS MASK	10051286	10051287	10051288	Millennium Gas Mask, with nose cup, drinking tube, and clear polycarbonate outsert <i>Order either Riot Control or CBRN canisters separately.</i>
ADVANTAGE 1000 RIOT CONTROL GAS MASK	813860	813859	813861	Advantage 1000 Riot Control Mask, complete with canister, nose cup, and identification tag <i>NOTE: the Advantage 1000 Riot Control Mask is NOT CBRN approved and uses Riot Control canisters only.</i>
ULTRA ELITE CBRN GAS MASK	10052776	10052781	10052778	Ultra Elite CBRN Gas Mask, with rubber head harness
	10052780	10052779	10052777	Ultra Elite CBRN Gas Mask, with Speed-ON Head Harness <i>Order CBRN canisters separately.</i>



Millennium® Gas Mask
(for use with CBRN or Riot Control canisters)



Advantage 1000 Riot Control Gas Mask



Ultra Elite CBRN Gas Mask

Gas Mask Canisters and Accessories

RIOT CONTROL CANISTERS	818264	Millennium RC canisters, box of 6
	817590	Advantage 1000 RC canisters, box of 6
CBRN CANISTER	10046570	MSA CBRN canister, for Millennium and Ultra Elite Facepieces
LENS OUTSERT <i>For Millennium Facepiece</i>	10008907	Polycarbonate lens outsert, clear, small
	10008906	Polycarbonate lens outsert, clear, medium/large
	10008909	Polycarbonate lens outsert, tinted, small
	10008908	Polycarbonate lens outsert, tinted, medium/large
LENS OUTSERT <i>For Advantage 1000 Facepiece</i>	806463	Polycarbonate lens outsert, clear, small
	806462	Polycarbonate lens outsert, clear, medium/large
	806465	Polycarbonate lens outsert, tinted, small
	806464	Polycarbonate lens outsert, tinted, medium/large
ESP® II COMMUNICATION SYSTEM <i>For Millennium and Advantage 1000 Facepieces</i>	10026265	ESP II Communications System (1-piece, self-contained, electronic speech projection device) less battery
OTHER ACCESSORIES <i>For Millennium and Advantage 1000 Facepieces</i>	10034184	Gas Mask Pouch, Military Style
	817040	Black Nylon Bag
	816137	Advantage 1000/Millennium Spectacle Kit

Air-Line Respirators

Constant-Flow Air-Line Respirator

This Type-C, supplied-air respirator supplies a continuous flow of air to the facepiece from an external source. The complete assembly is available with either an Ultravue or Ultra Elite Full Facepiece, Comfo Half-Mask Facepiece or Comfo Welder's Facepiece, plus breathing tube, web support belt and air flow control valve.

Features and Benefits

- Supplies long-duration respiratory protection
- Ideal for a wide range of applications including welding, painting and hazardous materials
- Maintains a slight positive pressure of air during both inhalation and exhalation to prevent contaminant seeping inside facepiece
- For use only in non-IDLH environments



Constant Flow Air-Line Respirator with Advantage 4100 Facepiece



Constant Flow Air-Line Respirator with Ultra Elite Facepiece



Constant Flow Air-Line Respirator with Comfo Facepiece



Constant Flow Air-Line Respirator with Welder's Comfo Facepiece

CONSTANT FLOW AIR-LINE RESPIRATOR KITS	Kits include: a Constant Flow Air-Line Respirator with an Advantage 4000 Facepiece (medium size, hycar rubber, polyester net head harness) with a High or Low Pressure Flow Control Valve, breathing tube and nylon belt assembly, Foster Steel quick-disconnects for connecting the respirator to the air-supply hose, a 50 foot section of neoprene air-supply hose complete with Foster Steel plug to attach the air-supply hose to your air source.	10108494	Constant Flow Air-Line Respirator, LOW Pressure Control Valve
		10108593	Constant Flow Air-Line Respirator, HIGH Pressure Control Valve

	Advantage 4000 Facepiece	Ultra Elite Facepiece	Ultravue Facepiece	Comfo Facepiece	Welder's Comfo Facepiece	
CONSTANT FLOW COMPLETE ASSEMBLIES High-pressure control valve (35–40 psig inlet pressure for 8–300 ft of hose)	10088132	810829	460863	460865	460862	with Snap-Tite aluminum quick-disconnect
	10088134	810831	461717	480466	480600	with Foster steel quick-disconnect
	10088136	†	486258	†	†	with Hansen brass quick-disconnect
	10088135	810832	480629	480631	480671	with CEJN Locking chrome-plated brass quick-disconnect
CONSTANT FLOW COMPLETE ASSEMBLIES Low-pressure control valve (10–15 psig inlet pressure for 8–50 ft of hose)	10088107	806775	463300	463302	463281	with Snap-Tite aluminum quick-disconnect
	10088109	806776	480472	480474	480468	with Foster steel quick-disconnect
	10088121	806779	484836	484837	†	with Hansen brass quick-disconnect
	10088110	806777	480637	480639	480645	with CEJN Locking chrome-plated brass quick-disconnect

† Available by special order only. High-pressure control valves are also available with the following special order quick-disconnects: Snap-Tite brass or stainless steel, Foster brass, and Hansen brass, or stainless steel. Low-pressure control valves also available with: Snap-Tite brass or stainless steel, Foster brass, and Hansen brass. Please call your nearest MSA distributor for complete ordering information.

Duo-Flo™ Respirators CF

This combination air-supplied/air-purifying respirator is designed for use in adequately ventilated areas with at least 19.5% oxygen. Featuring a unique, switchable exhalation valve, these units are well suited for abatement work.

- Air-supplied mode permits long service use
- Air-purifying mode is for entry, egress and moving from station to station in a contaminated atmosphere

Duo-Flo Respirator Designed for Torus and Wetwell Abrasive Blasting

MSA's custom designed products for torus and wetwell blasting include the Duo-Flo Respirator with a tight-fitting facepiece, a durable hood that provides head, neck and upper body protection and replacement 3-layer lens covers for workers engaged in abrasive blasting. The Constant Flow Duo-Flo Option is designed to handle both air-supplied and air-purifying (P100) modes of operation. The 3-layer cover lens allows for lens removal without stopping work. The shoulder-length hood is made of cotton-polyester material. It has an elastic neck and Velcro closures for comfortable sealing around the neck.

- APR filter for entry/egress
- Constant flow Airline with Type CE approval for blasting operation
- Customized blasting hood designed specifically for maximum vision and mobility
- Standard Ultravue Facepiece maximizes vision in tight quarters
- Easy integration with Fall Protection
- NIOSH approved



DUO-FLO RESPIRATOR COMPLETE ASSEMBLIES	466095	Constant Flow Duo-Flo Respirator w/full-face Ultravue Facepiece, includes one (1) P100 Ultra Filter
	10091952	Constant Flow Duo-Flo Respirator w/full-face Advantage 4000 Facepiece, includes one (1) P100 Ultra Filter
REPLACEMENT CARTRIDGES	10010420	Round Ultra Filter Cartridge, box of 6
	10010421	Round Ultra Filter Cartridge, box of 50
HOODS	10125492	Torus Blast Hoods, box of 20*
LENS COVERS	10125177	Replacement lens covers 3/stack, package of 5

* Required for Abrasive Blasting Approval

Air-Line Respirators

PremAire® Cadet Supplied-Air Respirator

Get air on demand with this high-performance, Type-C, supplied-air respirator. Mask-mounted regulator responds quickly to breathing requirements. Maintains a slight positive pressure to prevent contaminants from invading the face piece. Ideal for chemical and petrochemical processing, municipal utilities, and asbestos and lead paint abatement, as well as non-IDLH environments such as pharmaceutical applications and hazardous materials clean up.

PremAire Cadet Respirator Kits

These PremAire Cadet Respirator Kits include PremAire Cadet Respirator with Advantage 4000 Facepiece (medium size, hycar rubber, polyester net head harness) with Push-To-Connect Firehawk® Regulator, nylon belt assembly, listed quick-disconnect for connecting respirator to air-supply hose, neoprene air-supply hose 50-foot section complete with corresponding plug to attach air-supply hose to air source.



PREMAIRE CADET KITS	10108493	PremAire Cadet Air-Line Respirator with Foster Steel quick-disconnects, neoprene air-supply hose 50-foot section with Foster Steel Plug
	10108594	PremAire Cadet Air-Line Respirator with Snap-Tite Aluminum quick-disconnects, neoprene air-supply hose 50-foot section with Snap-Tite Aluminum Steel Plug
	10108495	PremAire Cadet Air-Line Respirator with TransportAire™ Portable Air-Supply Assembly: kit includes a PremAire Cadet Respirator with an Advantage 4000 Facepiece (medium size, hycar rubber, polyester net head harness) with Push-To-Connect Firehawk Regulator and nylon belt assembly, Snap-Tite Quick-Disconnect and a low-pressure TransportAire Portable Air Supply with 30-minute carbon fiber cylinder, and eight-foot coiled nylon air-supply hose

PremAire Cadet Respirator Assemblies

All listed configurations include: Ultra Elite Facepiece (medium size, hycar, rubber head harness) or Advantage 4000 Facepiece (medium size, hycar, polyester net head harness) with Push-To-Connect Firehawk Regulator and nylon belt assembly.

PREMAIRE CADET COMPLETE ASSEMBLIES with Ultra Elite Facepiece	10054790	with 30" IP (intermediate pressure) hose, no fittings
	10054793	with 30" IP (intermediate pressure) hose, Snap-Tite AL fittings
	10054791	with 42" IP (intermediate pressure) hose, no fittings
	10054792	with 42" IP (intermediate pressure) hose, Snap-Tite AL fittings
PREMAIRE CADET COMPLETE ASSEMBLIES with Advantage 4000 Facepiece	10081100	with 30" IP (intermediate pressure) hose, no fittings
	10081098	with 30" IP (intermediate pressure) hose, Snap-Tite AL fittings
	10081171	with 42" IP (intermediate pressure) hose, no fittings
	10081099	with 42" IP (intermediate pressure) hose, Snap-Tite AL fittings
PREMAIRE CADET ASSEMBLIES without facepiece	10121413	with 30" IP (intermediate pressure) hose, no fittings
	10121416	with 42" IP (intermediate pressure) hose, no fittings

Facepieces for PremAire Cadet and PremAire Cadet Escape Respirators

MSA offers choice of two facepieces, the Ultra Elite Facepiece or the Advantage 4000 Facepiece for the PremAire Cadet family of respirators. Choose from three facepiece sizes (small, medium, or large) in either hycar or silicone rubber. Nosecups are available in two sizes, standard and large.

Ultra Elite Facepiece



The Ultra Elite Facepiece features:

- One-way check valve preventing exhaled air from entering the mask-mounted regulator
- A rugged polycarbonate lens with scratch-resistant coating
- A mechanical speaking diaphragm for short-range communications
- Five adjustable rubber straps for exceptional head comfort, security, and safety
- Optional heat-resistant Kevlar net-style head harness

	Small	Medium	Large	
ULTRA ELITE FACEPIECES <i>Push-To-Connect Adapter</i>	10037650	10037648	10037652	hycar, rubber head harness, nose cup
	10043417	10043413	10043431	Silicone, rubber head harness, nose cup
	10043419	10043415	10043433	hycar, Speed-ON head harness, nose cup
	10043430	10043416	10043434	Silicone, Speed-ON head harness, nose cup

Advantage 4000 Facepiece



The Advantage 4000 Facepiece features:

- Available adapters to convert the Advantage Facepiece to a Twin-Cartridge Respirator (using Advantage Cartridges) or an RD40 Facepiece
- One-way check valve preventing exhaled air from entering the mask-mounted regulator
- Rugged polycarbonate lens with scratch-resistant coating
- Four-point silicone head harness for exceptional comfort and security
- Optional polyester net or Kevlar net head harness

	Small	Medium	Large	
ADVANTAGE 4000 FACEPIECES <i>Push-To-Connect Adapter</i>	10075911	10075905	10075917	hycar, rubber head harness, nose cup
	10075910	10075904	10075916	Silicone, rubber head harness, nose cup
	10075915	10075909	10075921	hycar, polyester net head harness, nose cup
	10075914	10075908	10075920	Silicone, polyester net head harness, nose cup
	10108547	10108561	10108565	hycar, Kevlar net head harness, nose cup
	10108545	10108549	10108563	Silicone, Kevlar net head harness, nose cup

Air-Line Respirators

PremAire® Cadet Escape Respirator



This combination supplied-air respirator with SCBA is designed especially for use in and escape from IDLH atmospheres. Versatile, comfortable, and affordable, it features a single-assembly first-stage regulator and cylinder valve. Small in size and profile, making it ideal for working in tight places.

Features and Benefits

- One-piece first-stage regulator/cylinder valve assembly
- Downstream design and dual springs for maximum reliability
- Recessed pressure gauge for added protection
- Choice of cylinder hip placement for freedom and versatility
- Standby mount for second-stage regulator



PremAire Cadet Escape Respirator Kits

The PremAire Cadet Escape Respirator Kits below include a PremAire Cadet Escape Respirator with an Advantage 4000 Facepiece (medium size, hycar rubber, polyester net head harness) with Push-To-Connect Firehawk Regulator and nylon harness, aluminum cylinder, and the listed quick-disconnect for connecting the respirator to the air-supply hose, a 50-foot section of neoprene air-supply hose complete with the corresponding plug to attach the air-supply hose to your air source.

PREMAIRE CADET ESCAPE KITS	10108496	PremAire Cadet Escape Air-Line Respirator, 5-minute aluminum egress cylinder, with Hansen Brass Quick-Disconnects, 50 foot section of neoprene air-supply hose with Hansen Brass Plug
	10108592	PremAire Cadet Escape Air-Line Respirator, 10-minute aluminum egress cylinder, with Hansen Brass Quick-Disconnects, 50 foot section of neoprene air-supply hose with Hansen Brass Plug

PremAire Cadet Escape Respirators

PREMAIRE CADET ESCAPE RESPIRATORS	10087895	PremAire Cadet Escape Air-Line Respirator, 5-minute aluminum egress cylinder, nylon strap carrier/harness, less facepiece, less fittings, less case
	10087897	PremAire Cadet Escape Air-Line Respirator, 10-minute aluminum egress cylinder, nylon strap carrier/harness, less facepiece, less fittings, less case
	10092034	PremAire Cadet Escape Air-Line Respirator, 5-minute aluminum egress cylinder, nylon strap carrier/harness, Advantage 4000 Facepiece, hycar, polyester net head harness, Hansen brass fittings, less case
	10092036	PremAire Cadet Escape Air-Line Respirator, 10-minute aluminum egress cylinder, nylon strap carrier/harness, Advantage 4000 Facepiece, hycar, polyester net head harness, Hansen brass fittings, less case
	10093986	PremAire Cadet Escape Air-Line Respirator, 5-minute aluminum egress cylinder, nylon strap carrier/harness, Ultra Elite Facepiece, hycar, rubber head harness, less fittings, with hard case
	10093987	PremAire Cadet Escape Air-Line Respirator, 10-minute aluminum egress cylinder, nylon strap carrier/harness, Ultra Elite Facepiece, hycar, rubber head harness, less fittings, with hard case
	10093988	PremAire Cadet Escape Air-Line Respirator, 5-minute aluminum egress cylinder, nylon strap carrier/harness, Advantage 4000 Facepiece, hycar, polyester net head harness, less fittings, with hard case

Approvals

The PremAire Cadet Escape Respirator is approved by the National Institute for Occupational Safety and Health (NIOSH) as an Open-Circuit, Pressure-Demand, Escape, Self-Contained Breathing Apparatus or Combination, Open-Circuit, Pressure-Demand, Escape, Self-Contained Breathing Apparatus and Type-C, Supplied-Air Respirator (TC-13F-542,543,544,545). The respirator is approved for use at temperatures above -25°F. The compressed-air container shall be fully charged with air meeting the requirements of CGA C-7.1 Grade D or higher quality. When supplied with respirable air through an air-supply hose, the air supply pressure range shall be 70-90 psig, the hose length shall be 8-300 feet, and the air supply shall meet the requirements of CGA C-7.1 Grade D or higher quality.

Industrial Air Cart



The Industrial Air Cart permits up to 4 NIOSH-approved air-line respirators to be connected to 2 one-hour 4,500 psig breathing apparatus cylinders (not included). See table below for cylinder ordering information. A 60-minute cylinder will provide maximum air supply.

Features

- Two-wheel poly powder-coated cart, two sets of double-cylinder straps, air-line hose rack and adjustable pull handle.
- A 5,500 psig pressure regulator reduces the 4,500 psig cylinder air to the proper air-line respirator inlet pressure.
- Low-pressure cylinder alarm whistle.
- An outlet pressure gauge operates in 0-125 psig range.
- Four-outlet manifold is available with 4 outlet fitting options.

Cart Weight and Dimensions

Size: 35" H x 21" W x 15.25" D

Unit Weight: 38.5 pounds without cylinders

For more complete information, see Bulletin 0114-28.

INDUSTRIAL AIR CART	10107537	Industrial air cart equipped with union adapters
	10107779	Industrial air cart equipped with Snap-Tite aluminum quick-disconnects
	10107780	Industrial air cart equipped with Foster steel quick-disconnects
	10107811	Industrial air cart equipped with Hansen brass quick-disconnects
CYLINDERS <i>All cylinder weights shown are approximate.</i>	807586	L-30 carbon-wrapped cylinder, 30-minute NIOSH service life rating, 2216 psig, weight (empty): 8 lb. 0 oz.
	816115	L-30+ carbon-wrapped cylinder, 30-minute NIOSH service life rating, 3000 psig, weight (empty): 9 lb. 8 oz.
	10127944-SP	H-30SL, SuperLite, 30-minute NIOSH service life rating, 4500 psig, weight (empty): 6 lb. 9 oz.
	807570	H-45 carbon-wrapped cylinder, 45-minute NIOSH service life rating, 4500 psig, weight (empty): 9 lb. 7 oz.
	10127945-SP	H-45SL, SuperLite, 45-minute NIOSH service life rating, 4500 psig, weight (empty): 8 lb. 8 oz.
	10127946-SP	H-60SL, SuperLite, 60-minute NIOSH service life rating, 4500 psig, weight (empty): 10 lb. 12 oz.
	469619	Fiberglass hoop-wound cylinder, 30-minute NIOSH service life rating, 2216 psig, weight (empty): 13 lb. 0 oz.
	809872	Aluminum cylinder, 30-minute NIOSH service life rating, 2216 psig, weight (empty): 18 lb. 0 oz.

Breathing Air Distribution System—Point of Attachment Box

The Breathing Air Distribution System point of attachment box is housed in a rugged polymer case. It is equipped with one-stage filtration, a pressure regulator and a four-outlet manifold. The point of attachment box may be used in a portable or stationary position.

POINT OF ATTACHMENT BOX <i>4-outlet</i>	10107536	Point of attachment box, with union adapters
	10107822	Point of attachment box, with Snap-Tite aluminum quick-disconnects
	10107823	Point of attachment box, with Foster steel quick-disconnects
	10107821	Point of attachment box, with Hansen brass quick-disconnects
FILTER CHANGE KIT	10107545	Filter change kit



Portable Grade-D filtration system provides breathing air for up to four air-line respirators

Air-Line Respirators

Breathing Air Distribution System Filtration Box

The Breathing Air Distribution System filtration box is housed in a rugged polymer case. It is equipped with three-stage filtration, a pressure regulator, a four-outlet manifold and a continuous flow 115 VAC carbon monoxide monitor. The filtration box may be used in a portable or stationary position. Two models of filtration boxes are available—one box provides 50 cubic feet of air per minute and a second provides 100 cubic feet of air per minute.

Portable Grade-D filtration system provides breathing air for up to four air-line respirators



	For use in the United States (Carbon monoxide monitor set at 10 ppm)	For use in Canada (Carbon monoxide monitor set at 5 ppm)	
FILTRATION BOXES 50 CFM	10107538	10113347	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
	10107814	10113349	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick-disconnects
	10107812	10113348	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick-disconnects
	10107813	10113346	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick-disconnects
FILTRATION BOXES 100 CFM	10107539	10113345	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
	10107816	10113343	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick-disconnects
	10107817	10113342	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick-disconnects
	10107815	10113344	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick-disconnects

OTHER REPLACEMENT PARTS AND ACCESSORIES	10108138	Upright support bracket, 50 and 100 CFM units
	10107741	Remote audible alarm, 9-12 VDC, with mounted visual strobe and guard, includes 50 ft. cable
	10107527	Calibration Kit (for U.S. models), 20 ppm CO, zero air, regulator and case, 17-liter size
	10107526	Calibration Kit (for Canadian models), 10 ppm CO, zero air, regulator and case, 17-liter size
	10116617	Calibration Gas, 20 ppm CO
	10116618	Calibration Gas, 10 ppm CO
	10116619	Calibration Gas, 0 ppm CO

BREATHING AIR DISTRIBUTION SUPPLY HOSES FOR INLET PORTS <i>from plant air system to filtration box</i>	10113330	Hose, 50 feet, Industrial Interchange Connections, 1/2 inch NPT male and female
	10113341	Hose, 100 feet, Industrial Interchange Connections, 1/2 inch NPT male and female
	10113328	Quick-Disconnect Socket, Hansen Industrial, 1/2 inch male NPT
	10113329	Quick-Disconnect Plug, Hansen Industrial, 1/2 inch male NPT

	50 CFM	100 CFM	
FILTER CHANGE KITS	10107545	10107541	Filter Change Kit, first stage
	10107546	10107542	Filter Change Kit, second stage
	10107544	10107543	Filter Change Kit, third stage



TransAire® 5 and TransAire 10 Escape Respirators

These self-contained devices help personnel escape dangerous and deadly atmospheres, including those with high concentrations of toxic gases or vapors or oxygen deficiency. Low profile, lightweight, and easy to carry, these escape respirators feature one-control operation for a swift exit.

Features and Benefits

- Provides emergency air in toxic or oxygen-deficient conditions; 5- and 10-minute standard-flow air supply
- Compact and lightweight for easy egress from tight spaces
- Fog-reducing hoods in urethane or Teflon easily fit over eyeglasses and facial hair
- Rugged, high-density polyethylene carrying case available
- Washable nylon cloth carrier can be worn on the waist, neck or shoulder

TRANSAIRE 5 ESCAPE RESPIRATOR	10008292	TransAire 5 Escape Respirator complete (includes aluminum cylinder, carrier, hood tube, hood assembly)
	10066739	TransAire 5 Escape Respirator complete, less air (includes aluminum cylinder, carrier, hood tube, hood assembly)
TRANSAIRE 10 ESCAPE RESPIRATOR	10008293	TransAire 10 Escape Respirator complete (includes aluminum cylinder, carrier, hood tube, hood assembly)
	10083327	TransAire 10 Escape Respirator complete (includes fully-wound carbon fiber cylinder, carrier, hood tube, hood assembly)
	10066740	TransAire 10 Escape Respirator complete, less air (includes aluminum cylinder, carrier, hood tube, hood assembly)

Two-unit and single-unit wall mounting cases feature a chemical-resistant ABS plastic case which resists weathering, moisture, and corrosion to ensure escape respirators stay in ready-to-use condition.

ACCESSORIES	696192	Single-unit wall-mounting case
	696193	Two-unit wall-mounting case
	10012530	Single unit carrying case, yellow polyethylene, with handle, for all escape respirators



Custom Air V® Escape Respirators

Escape toxic gasses, vapors or oxygen deficiency with this quick-use, hooded emergency respirator. Features a high flow rate of 72 liters per minute (lpm) and a continuous flow of air from the compressed air cylinder. The flexible urethane hood reduces fogging and fits over eyeglasses and facial hair. Lightweight and easy to carry, the unit can also be wall-mounted, as needed.

Features and Benefits

- Provides emergency air in highly toxic or deadly environments
- 5-minute high-flow cylinder meets stringent air-flow requirements for extremely aerobic escape applications
- Quick-retracting protective cover saves precious time when donning the hood
- Weighs less than 5 pounds

CUSTOM AIR V ESCAPE RESPIRATOR	10008292	Custom Air V Escape Respirator complete (includes fully-wound carbon fiber cylinder, carrier, hood tube, hood assembly)
	10066739	Custom Air V Escape Respirator complete (includes aluminum cylinder, hood tube, hood assembly), less air



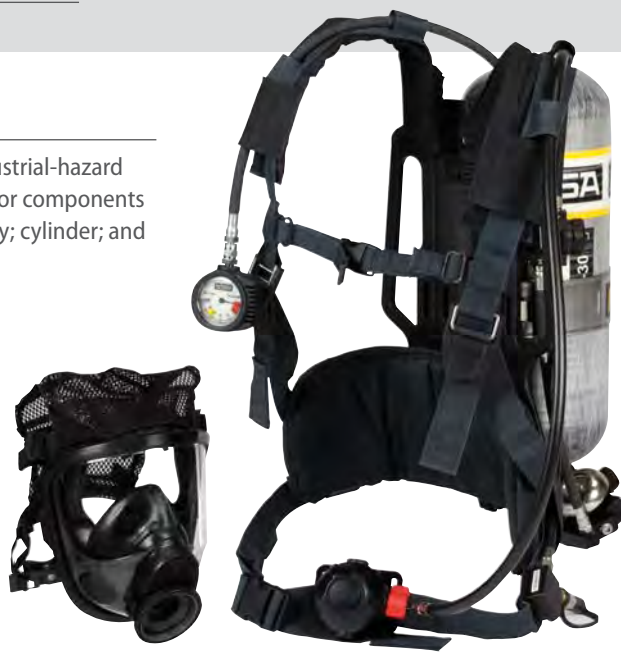
Self-Contained Breathing Apparatus (SCBA)

AirHawk® II Industrial Air Mask

Lightweight, durable and economical, this SCBA is ideal for a variety of industrial-hazard applications. Choose from a variety of options for many of the system's major components including: facepiece; mask-mounted regulator; carrier and harness assembly; cylinder; and end-of-service-time indicator (EOSTI).

Features & Benefits

- Pressure-demand maintains positive air pressure inside facepiece
- Choice of Ultra Elite or Advantage 4000 Facepiece
- Ergonomic carrier and harness assembly for comfortable, stable wear
- Detachable components for easy maintenance
- Easy-release friction buckles



	Hard Case	No Case	Facepiece	Harness Carrier	Cylinder
AIRHAWK II SCBA LOW-PRESSURE (2216 PSIG)	10095800	10095801	Ultra Elite, medium hycar, rubber head harness	Nylon with chest strap	30-min aluminum
	10095802	10095803	Ultra Elite, medium hycar, Speed-ON Head Harness	Nylon with chest strap	30-min carbon
	10095804	CALL	Adv 4000, medium hycar, polyester net head harness	Nylon with chest strap	30-min aluminum
	CALL	10095805	Adv 4000, medium hycar, rubber head harness	Nylon without chest strap	30-min aluminum
	10095806	10095807	Adv 4000, medium hycar, polyester net head harness	Nylon with chest strap	30-min carbon
	CALL	10116783	No facepiece	Nylon with chest strap	No cylinder
AIRHAWK II SCBA HIGH-PRESSURE (4500 PSIG)	10116452	CALL	Ultra Elite, medium hycar, Speed-ON Head Harness	Kevlar with chest strap	45-min carbon low profile
	10116453	CALL	Adv 4000, medium hycar, polyester net head harness	Nylon with chest strap	45-min carbon low profile
	CALL	10116454	Adv 4000, medium hycar, polyester net head harness	Nylon without chest strap	45-min carbon
	CALL	10116781	Adv 4000, medium hycar, rubber head harness	Nylon without chest strap	30-min carbon
	CALL	10116782	No facepiece	Nylon with chest strap	No cylinder

Storage Cabinets

Single-unit wall-mounting case. Chemical resistant ABS plastic case resists weathering, moisture, and corrosion to ensure SCBA stay in ready-to-use condition.

STORAGE CABINETS	10052744	Single case for SCBAs supplied with LP30, HP45, HP60 and low-profile cylinders
	10052745	Single case for SCBAs supplied with H30 cylinders only



FireHawk® M7XT Air Mask

- Durability & performance for critical life-safety personnel.
- Designed to exceed the NFPA 1981 and 1982 2013- edition standards.

Through the NFPA, firefighters strive to improve the durability and performance of SCBA and PASS devices. To this end, the new 2013 edition of the NFPA 1981 and 1982 NFPA standards for self-contained breathing apparatus and personal alert safety systems (PASS) call for low pressure alarm set points at 33 percent of cylinder operating pressure, improved facepiece lens performance against radiant heat, 500° F heat exposure, and standard PASS device alarm sound patterns. In addition, NFPA has raised the bar on voice communication capability, now requiring a measurable, minimum Sound Transmission Index (STI) score for both mechanical and electronic communications.



Self-Contained Breathing Apparatus (SCBA)

SCBA Key Components: Ultra Elite XT Facepieces, I-HUD and Communications *Approvals Pending*

	Small	Medium	Large	
ULTRA ELITE XT FACEPIECE	10149305	10149283	10149327	External HUD Receiver Ready
for Firehawk STC MMR Regulator	10149307	10149285	10149329	External HUD and Communication Ready
ULTRA ELITE XT FACEPIECE	10149306	10149284	10149328	External HUD Receiver Ready
for Firehawk PTC MMR Regulator	10149308	10149286	10149330	External HUD and Communication Ready

	Small	Medium	Large	
I-HUD RECEIVER-READY	10149309	10149287	10149331	Standard I-HUD Receiver-ready
ULTRA ELITE XT FACEPIECE ASSEMBLIES	10149311	10149289	10149333	Communication System-ready
for Firehawk STC MMR Regulator				
I-HUD RECEIVER-READY	10149310	10149288	10149332	Standard I-HUD Receiver-ready
ULTRA ELITE XT FACEPIECE ASSEMBLIES	10149312	10149290	10149334	Communication System-ready
for Firehawk PTC MMR Regulator				

ULTRA ELITE XT COMMUNICATIONS	10144673	Ultra Elite XT Amp c/w Facepiece Bracket and Microphone
	10144676	Ultra Elite XT Amp / Radio Interface c/w Facepiece Bracket and Microphone
	10144672	Ultra Elite XT Amp only
	10144675	Ultra Elite XT Amp / Radio Interface only
	10023055	Microphone Kit, with mounting bracket

SCBA Key Components: FireHawk M7XT Carrier and Harness Assembly *Approvals Pending*

FIREHAWK M7XT CARRIER AND HARNESS ASSEMBLIES	10147450	Low-pressure, with chest strap and swiveling lumbar pad
	10147471	High-pressure, with chest strap and swiveling lumbar pad
	10147448	Low-pressure, with chest strap
	10147449	High-pressure, with chest strap
ACCESSORIES	10083134	Replacement FireHawk M7 and M7XT lumbar pad
	10012167	Chest strap kit

SCBA Key Components: Cylinders

Part No.	Cylinder Type	NIOSH Service Life	Pressure	Weight*
807586-SP	L-30 Carbon-Wrapped	30 minutes	2216 psig	8 lb. 0 oz.
816115-SP	L-30+ Carbon-Wrapped	30 minutes	3000 psig	9 lb. 8 oz.
469619-SP	Fiberglass Hoop-Wound	30 minutes	2216 psig	13 lb. 0 oz.
809872-SP	Aluminum	30 minutes	2216 psig	18 lb. 0 oz.
10127944-SP	H-30 SL, SuperLite Carbon	30 minutes	4500 psig	6 lb. 9 oz.
10127945-SP	H-45 SL, SuperLite Carbon	45 minutes	4500 psig	8 lb. 8 oz.
10127946-SP	H-60 SL, SuperLite Carbon	60 minutes	4500 psig	10 lb. 12 oz.

*All weights shown are approximate.

ALTAIR® 5X Multigas Detector

- Rugged detector tests for 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
- MotionAlert option tells others that user has become immobile
- InstantAlert provides manual alarm to alert others of a dangerous situation
- Large buttons and bright display provide easy operation, even when user is wearing gloves
- 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

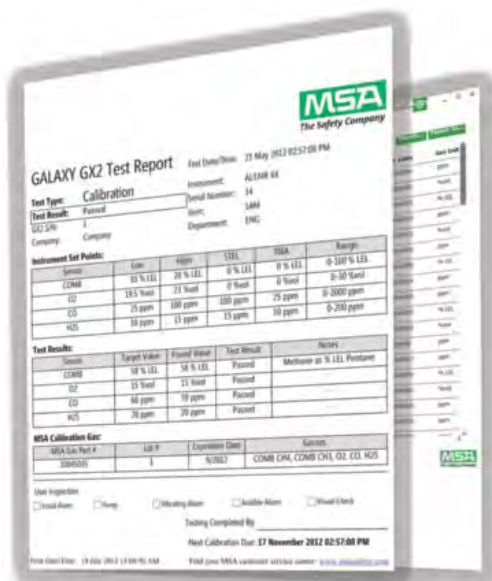


Specifications

Gas Type	Range	Resolution
Combustible	0–100%	LEL 1% LEL
O ₂	0–30% vol	0.1% vol
CO	0–2000 ppm	1 ppm
H ₂ S	0–200 ppm	1 ppm
SO ₂	0–20 ppm	0.1 ppm
Cl ₂	0–10 ppm	0.1 ppm
NH ₃	0–100 ppm	1 ppm
NO ₂	0–20 ppm	0.5 ppm
ClO ₂	0–1 ppm	0.01 ppm
PH ₃	0–5 ppm	0.1 ppm
HCN	0–30 ppm	0.5 ppm
CO ₂	0–10% vol	0.01% vol
Butane	0–25% vol	0.1% vol
Methane	0–100% vol	1% vol
Propane	0–100% vol	1% vol

	Approvals/ U.S.	Approvals/ Canada	Configuration
ALTAIR 5X DETECTORS	Includes 3-year warranty, monochrome display, data logging, charger, integral pump, and tubing		
	10116924	10115118	LEL, O ₂ , CO, H ₂ S
	10116925	10115119	LEL, O ₂ , CO, H ₂ S, SO ₂
ALTAIR 5X DETECTOR INDUSTRIAL KITS	Includes monochrome display, integral pump, 10 ft sampling line, and 1 ft probe		
	10116926	10115120	LEL, O ₂ , CO, H ₂ S
	10116927	10115141	LEL, O ₂ , CO, H ₂ S, SO ₂
ALTAIR 5X DETECTOR DELUXE KITS	Includes color display, integral pump, 10 ft sampling line, and 1ft probe		
	10116928	10115142	LEL, O ₂ , CO, H ₂ S
	10116929	10115143	LEL, O ₂ , CO, H ₂ S, SO ₂
ACCESSORIES	10082834	USB IR receiver	
	10114837	Battery pack, Alkaline	
	10088099	MSA Link Software CD	

MSA Galaxy GX2 and Link Pro Software allows for automated calibration, bump testing and fleet management



ALTAIR 4X Multigas Detector

- Dependable multigas detector tests for LEL, O₂, CO, H₂S and NO₂
- Economical construction saves users more than 50% on calibration gas, replacement sensors and maintenance
- Four-year sensor life means detector lasts 60% longer than the industry average
- Unit uses 50% less calibration gas per minute than the average detectors within the industry
- Two-tox CO/H₂S sensor removes practically all cross-channel interference
- Large buttons and high-contrast screen make operation easy in low-light conditions
- Unit features 95+ db alarm and ultra-bright LEDs
- Exclusive end-of-sensor warning cautions user when unit's sensor must be changed
- MotionAlert option tells others that user has become immobile
- InstantAlert provides manual alarm to alert others of a dangerous situation
- 3 year standard warranty



ALTAIR 4X Multigas Detector charcoal

ALTAIR 4X Multigas Detector phosphorescent

ALTAIR 4X MULTIGAS DETECTORS	10107602	ALTAIR 4X Multigas Detector (LEL, O ₂ , CO, H ₂ S) Charcoal
	10110443	ALTAIR 4X Multigas Detector (LEL, O ₂ , CO) Charcoal
	10110444	ALTAIR 4X Multigas Detector (LEL, O ₂) Charcoal
	10107603	ALTAIR 4X Multigas Detector (LEL, O ₂ , CO, H ₂ S) Phosphorescent
	10110445	ALTAIR 4X Multigas Detector (LEL, O ₂ , CO) Phosphorescent
	10110446	ALTAIR 4X Multigas Detector (LEL, O ₂) Phosphorescent
ACCESSORIES	10069894	Stainless steel suspender clip
	10046528	Universal Pump Probe (UL)
	10088099	MSA Link™ Software CD-ROM
	10082834	JetEye IR Adapter with USB connector
	10050333	Hand aspirator assembly



MSA XCell sensors

Sirius® Multigas Detector

The Sirius Multigas Detector integrates MSA's proprietary patent-pending PID sensor into a durable four-gas detector that's designed and built for safety and reliability across multiple applications and hazards. Fast response times let users constantly monitor for both VOCs and combustible, toxic or oxygen-deficient atmospheres.

- Reliable detection in a single easy to use and durable unit
- Stable zero readings with fast response/clear times



		10.6 eV	LEL	O ₂	CO	H ₂ S	Li Ion	10 ft line	1 ft probe	Ret Line	Bl Boot	Cor Jac	Cal Kit	Data Log	Blk Cas	Std Cap
SIRIUS MULTIGAS DETECTOR KITS (LEL)																
DELUXE KITS																
4-GAS LITHIUM-ION	10051141	■	■	■	■	■	■	■	■	■	■	■	■		■	■
4-GAS LITHIUM-ION DATALOG	10051144	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
INDUSTRIAL KITS																
4-GAS LITHIUM-ION	10051146	■	■	■	■	■	■	■	■	■	■	■				■
4-GAS LITHIUM-ION WITH CAL	10051150	■	■	■	■	■	■	■	■				■	■	■	■

ALTAIR Maintenance-Free Single-Gas Detector

- Sensor options for CO, H₂S, and O₂
- Patented electrochemical sensors and MSA-built button sensors
- Stainless steel and solid electrolyte construction virtually eliminate sensor leakage
- Automatically records the last 25 alarm/test events and can communicate data by connecting to MSA Link via built-in IR communication port
- No-miss triple alarm system includes bright flashing LEDs, piercing audible alarm, and an internal vibrating alarm
- Rubberized armor housing and one-button operation for maximum durability and simplicity

		Instrument Type	First Alarm	Second Alarm
ALTAIR SINGLE-GAS DETECTORS	10092522	Carbon Monoxide (CO)	25 PPM	100 PPM
	10092521	Hydrogen Sulfide (H ₂ S)	10 PPM	15 PPM
	10092523	Oxygen (O ₂)	19.5% VOL	23% VOL
ALTAIR SINGLE-GAS DETECTORS <i>Alternate Set Point Models</i>	10071334	Carbon Monoxide (CO)	30 PPM	60 PPM
	10071335	Carbon Monoxide (CO)	35 PPM	100 PPM
	10071336	Carbon Monoxide (CO)	35 PPM	400 PPM
	10071337	Carbon Monoxide (CO)	50 PPM	200 PPM
	10071338	Carbon Monoxide (CO)	100 PPM	300 PPM
	10071340	Hydrogen Sulfide (H ₂ S)	10 PPM	20 PPM
	10071361	Hydrogen Sulfide (H ₂ S)	5 PPM	10 PPM
	10071362	Hydrogen Sulfide (H ₂ S)	8 PPM	12 PPM
	10071363	Hydrogen Sulfide (H ₂ S)	7 PPM	14 PPM
	10071364	Oxygen (O ₂)	19.5% VOL	18% VOL



ALTAIR Pro Single-Gas Detector

- Gas concentration (CO and H₂S) or percent oxygen displayed on a large, clear, backlit LCD
- Automatically records the last 50 alarm/test events while simultaneously recording peak gas readings or low O₂ readings
- User can read data or change alarm set points by connecting unit to MSA infrared adapter via built-in IR communication port or GX2 calibration stand
- Adjustable alarm set points
- No-miss quad alarm system includes bright flashing LEDs, piercing audible alarm, LCD notification, and an internal vibrating alarm
- Rubberized armor housing and one-button operation for maximum durability and simplicity
- Easy alarm check, bump check, fresh air zero, and calibration
- Easily replaceable batteries and sensors
- Other ALTAIR Pro models are available for detection of NH₃, Cl₂, ClO₂, NO₂, SO₂, HCN and PH₃



		Instrument Type	Low Alarm	High Alarm	STEL	TWA
ALTAIR PRO SINGLE-GAS DETECTORS	10074137	Oxygen (O ₂)	19.50%	23.00%	N/A	N/A
	10074135	Carbon Monoxide (CO)	25 PPM	100 PPM	100 PPM	25 PPM
	10074136	Hydrogen Sulfide (H ₂ S)	10 PPM	15 PPM	15 PPM	10 PPM

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.



Features and Benefits

- Color touchscreen for ease of setup and viewing; no touch operation 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

GALAXY GX2 SYSTEM TEST STAND/ 1 VALVE <i>for use with 1 calibration gas cylinder</i>	10128644	ALTAIR / ALTAIR PRO Single-Gas Detector, no-charging
	10128630	ALTAIR 4/4X Multigas Detector, charging*
	10128642	ALTAIR 4/4X Multigas Detector, no-charging
	10128626	ALTAIR 5/5X Multigas Detector, charging*
	10128628	ALTAIR 5/5X Multigas Detector, no-charging
GALAXY GX2 SYSTEM TEST STAND/ 4 VALVE <i>for use with 1–4 calibration gas cylinders</i>	10128643	ALTAIR / ALTAIR PRO Single-Gas Detector, no-charging
	10128629	ALTAIR 4/4X Multigas Detector, charging*
	10128641	ALTAIR 4/4X Multigas Detector, no-charging
	10128625	ALTAIR 5/5X Multigas Detector, charging*
	10128627	ALTAIR 5/5X Multigas Detector, no-charging
CALIBRATION GAS	10048280	Calibration gas cylinder (34L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S
	10045035	Calibration gas cylinder (54L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S
	10117738	Calibration gas cylinder (58L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 10 ppm SO ₂
	10098855	Calibration gas cylinder (34L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 10 ppm SO ₂
	10103262	Calibration gas cylinder (58L) 1.45% CH ₄ , 15% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 2.5% CO ₂

* Contact your local sales representative regarding availability.

V-Gard® GREEN Protective Helmet



The world's first hard hat made from renewable resources

Both V-Gard GREEN Helmets and traditional V-Gard Helmets, regardless of material, offer the same trusted look and quality customers have come to expect from their V-Gard. V-Gard and V-Gard GREEN helmets are third-party SEI certified as Type I, Class E under ANSI/ISEA Z89.1-2009 and CSA Z94.1-2005. The only difference is the V-Gard GREEN helmet is made with renewable GHDPE, while the traditional V-Gard helmet is made through standard HDPE production methods.



Classification:	Type I
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, shipbuilding, automotive, mining
Application:	General purpose
Shell Material:	Green high-density polyethylene (GHDPE)
Available Styles:	Slotted cap with 4-point Fas-Trac® Ratchet Suspension
Sizes:	Standard (6-1/2" to 8")
Standards:	ANSI/ISEA Z89.1-2009 (Class E); CSA Z94.1-2005 (Class E)
Certification:	Third-party by SEI
Customization:	Logos, striping and MSA accessories available



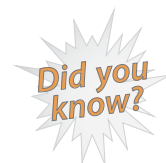
White	Yellow	Blue	Green	Red
10150199	10150200	10150221	10150222	10150223



Head and Face **Protection**

V-Gard Protective Caps and Hats

Classification:	Type I
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, shipbuilding, automotive, mining
Application:	General purpose
Shell Material:	High density polyethylene (HDPE)
Available Styles:	Slotted Cap; Slotted Full-Brim Hat
Sizes:	Cap: Standard (6½ – 8"); Large (7 – 8½") Hat: Standard (6½ – 8")
Standards:	ANSI/ISEA Z89.1-2009 (Class E); CSA Z94.1-2005 (Class E) [as noted]
Certification:	Third-party by SEI
Customization:	Imprinting and striping available



All V-Gard helmets have UV inhibitor molded right in.

V-Gard Caps



V-Gard Hats



Color	Standard V-Gard Slotted Cap			Large V-Gard Slotted Cap		V- Gard Slotted Full-Brim Hat		
	w/ Staz-On Suspension	w/ 1-Touch® Suspension¹	w/ Fas-Trac Suspension¹	w/ Staz-On Suspension	w/ Fas-Trac Suspension¹	w/ Staz-On Suspension	w/ 1-Touch Suspension¹	w/ Fas-Trac Suspension¹
COMPLETE V-GARD ASSEMBLIES								
WHITE	463942	10057441	475358	473284	477482	454733	10058321	475369
BLUE	463943	10057442	475359	476928	477483	454732	10058320	475368
YELLOW	463944	10057443	475360	473285	477484	454730	10058318	475366
ORANGE	463945	10057444	475361	—	—	454734	10058322	496075
RED	463947	10057446	475363	—	—	454736	10058324	475371
GREEN	463946	10057445	475362	—	—	454735	10058323	475370
GRAY	463948	10057447	475364	—	—	454731	10058319	475367
HI-VIZ® ORANGE²	488148	10057420	488146	—	489364	489360	10058326	10021292
HI-VIZ YELLOW-GREEN²	—	10061514	10061512	—	10061513	—	10061516	10061515
BRIGHT LIME GREEN	815558	—	815565	—	—	815562	—	815570
DARK (CANADIAN) BLUE	—	—	802972	—	—	—	—	802975
GOLD	464852	—	475365	—	—	—	—	814053
ROBIN'S EGG BLUE	463111	—	495853	—	—	—	—	—
BROWN	464658	—	495854	—	—	—	—	—
SILVER	484340	—	495855	—	—	—	—	—
TAN	461180	—	—	—	—	—	—	—
BLACK	475235	—	492559	—	—	—	—	C217374
PINK	485364	—	495862	—	—	—	—	—

¹V-Gard Caps and Hats are CSA-certified when assembled with MSA's Fas-Trac or 1-Touch Suspension ONLY.

²V-Gard Cap/Hat meets the voluntary standard for hi-visibility as prescribed by ANSI/ISEA Z89.1-2009. Look for the official hi-visibility marking [HV] on the helmet's ANSI label.

⚠ WARNING

Do not mix suspension and helmet sizes. Make sure the sizes match, i.e., standard-size suspension with standard-size helmet. Use only the indicated MSA suspension and replacement suspension in a MSA helmet. Failure to comply with the above will reduce the energy-absorbing ability of the protective helmet, which can result in serious injury or death.



NFPA 70E is a work practice; it is not a standard and does not specify any test methods. No products "meet" NFPA 70E—the user simply follows the practice of NFPA 70E. When it comes to head protection, NFPA 70E recommends that a user wear a Class E hard hat in order to follow this work practice.

Head and Face **Protection**

Helmet Customization

Put your reputation on ours: add your company logo, slogan or even a picture to your MSA helmet.

MSA offers 14 different helmets (in up to 20 colors), 4 suspensions, 27+ striping options, and multiple logo locations for endless customized helmet possibilities! We've been logoing hard hats for 30 years—longer than anyone else in the business!

Logos

All logos are submitted to MSA Logo Express® Service design team by a MSA distributor. Logo Express Service artists then send an approval form that includes a FREE rendering of the selected hard hat. Once we receive written approval on the logo, we get started on the order!

Striping

Add any of 27+ different reflective and retro-reflective stripes¹ to your helmet. MSA reflective stripes help enhance the visibility of workers in daytime conditions, while retro-reflective stripes offer additional enhancement in nighttime or low-light conditions. Stripes are available in various sizes and shapes, and can be placed on all types of MSA helmets.

Minimum Order Quantities (MOQ)


MSA requires MOQs, by helmet type, for logoing and striping. Qualifying MOQs of custom-imprinted or striped helmets must be of the same size, model and options (i.e., color and suspension). MOQs are:

- 20 for V-Gard, SmoothDome, Topgard and Comfo Cap Helmets
- 16 for Skullgard or Thermalgard Helmets
- 12 for Super-V and Vanguard Helmets
- 40 for Bump Caps



See what a logoed V-Gard Cap, Hat or 500 looks like. Pre-designed logoed hard hat samples are available through the FREE sample Try It program. Contact your MSA sales representative for more details.



The "Try It" sample program provides more than 100 leading MSA Head, Eye, Face and Hearing Protection products, including V-Gard Helmets, V-Gard Accessories, left/RIGHT earmuffs, and Sightgard® eyewear—completely FREE of charge! Look for the  that tells you which products are in the program.



Placing Customized Helmet Orders

In three easy steps, you can get your first order of new logos and/or striping:

1. Complete all sections on the MSA Logo Express Order Form (ID 0617-01 MC/July 2013).
2. See "Artwork Guidelines" (ID 0617-06-MC) for details on artwork submission.
3. Submit an electronic file of your artwork by email (Logo.Express@msasafety.com) or by US Postal Service (MSA Logo Express, 3880 Meadowbrook Rd., Murrysville, PA 15668-1753). Be sure to include a copy of the completed Order Form with your artwork submission.



Questions about Helmet Customization?

Contact your MSA distributor or MSA Logo Express.

EMAIL: Logo.Express@msasafety.com
PHONE: 1-800-MSA-LOGO (1-800-672-5646)
ADDRESS: MSA Logo Express
3880 Meadowbrook Rd.
Murrysville, PA 15668-1753

You can also visit us on the web:

us.msasafety.com/logoexpress

KEYWORD: Logo



¹Most of our retro-reflective stripes meet the Type II requirements under ASTM D4956. ASTM D4956 is the specification for flexible, non-exposed glass bead lens and microprismatic, retroreflective sheeting designed for use on traffic control signs and other devices.

V-Gard 500 Protective Caps

Vented V-Gard 500 Caps provide cooling vents for improved air circulation and comfort; the **Non-Vented V-Gard 500 Caps** provide users with dielectric head protection.

Classification:	Type I
Market(s):	Forestry, general industry, manufacturing, construction, automotive, mining
Application:	General purpose
Shell Material:	Polyethylene
Available Styles:	Vented or Non-Vented Slotted Cap
Sizes:	Standard (6½ – 8")
Standards:	ANSI/ISEA Z89.1-2009 (Vented - Class C; Non-Vented Class E)
Certification:	Third-party by SEI
Customization:	Imprinting and striping available



DESCRIPTION	4-Point Fas-Trac (standard size)	6-Point Fas-Trac (standard size)
VENTED STYLE		
WHITE	10034018	10034027
BLUE	10034019	10034028
YELLOW	10034020	10034029
RED	10034022	10034031
GREEN	10034023	10034032
HI-VIZ ORANGE ¹	10034026	10034035
HI-VIZ YELLOW-GREEN ¹	10074819	10074820
NON-VENTED STYLE		
WHITE	10034088	10034097
REPLACEMENT SUSPENSIONS		
FOR V-GARD 500 CAPS	10034966	10034967

¹Select V-Gard 500 Caps meet the voluntary standard for hi-visibility as prescribed by ANSI/ISEA Z89.1-2009. Look for the official hi-visibility marking [HV] on the helmet's ANSI label.

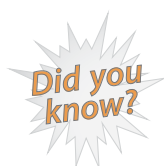
Head and Face **Protection**

Skullgard® Protective Caps and Hats

Classification:	Type I
Market(s):	Steel mills, welding, construction, open-pit mining, oil/gas/petrochemical refineries, rubber manufacturing, steam tunnels
Application:	General purpose; elevated temperature ¹
Shell Material:	Phenolic
Available Styles:	Non-Slotted Cap and Full-Brim Hat
Sizes:	Cap: Standard (6½ – 8"); Large (7 – 8½") Hat: Standard (6½ – 8")
Standards:	ANSI/ISEA Z89.1-2009 (Class G)
Certification:	Third-party by SEI
Customization:	Imprinting and striping available



DESCRIPTION	Skullgard Cap (standard size)			Skullgard Hat (standard size)	
	w/ Staz-On Suspension	w/ Fas-Trac Suspension	w/ Swing-Ratchet Suspension	w/ Staz-On Suspension	w/ Fas-Trac Suspension
SKULLGARD ASSEMBLIES					
NATURAL TAN	454617	475395	816651	454664	475407
WHITE	454618	475396	—	454665	475408
YELLOW	454619	475397	—	454666	—
RED	454620	—	—	—	—
GREEN	454621	—	—	454668	—
GRAY	454622	—	—	—	—
BLUE	454623	—	—	—	—
ORANGE	454626	—	—	454673	—
HI-VIZ RED-ORANGE ²	458702	—	—	—	—



MSA helmets marked "LT" are not only preconditioned to 120°F as all helmets that meet the requirements of ANSI/ISEA Z89.1-2009 are, but they also meet the voluntary requirements for "Lower Temperature." Helmets marked "LT" are conditioned to -22°F and then tested for impact and penetration, as outlined in the Standard. Any helmet NOT marked with "LT" is tested to 0°F.

¹Skullgard Caps and Hats can withstand radiant heat loads up to but not exceeding 350°F.

²Skullgard Cap meets the voluntary standard for hi-visibility as prescribed by ANSI/ISEA Z89.1-2009. Look for the official hi-visibility marking [HV] on the helmet's ANSI label.

Super V® Protective Caps

Classification:	Type II (CSA)
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, shipbuilding, metalworking, automotive, mining
Application:	Lateral protection
Shell Material:	Polyethylene
Available Styles:	Slotted Cap w/foam liner
Sizes:	Standard (6½ – 8")
Standards:	CSA Z94.1-2005 (Class E)
Certification:	Third-party by SEI
Customization:	Imprinting and striping available

DESCRIPTION	w/Fas-Trac Suspension
SUPER V ASSEMBLIES	
WHITE	C217091
YELLOW	C217093
RED	C217095
ORANGE	C217094
BLUE	C217092
NAVY GRAY	C217097
HI-VIZ ORANGE ¹	C217100
GREEN	C217096
GOLD	C217098
BLACK	C217140
SILVER	10025227



⚠ WARNING

Use only MSA's Fas-Trac Suspension designed for Super-V Helmets. Use of any other suspension will reduce the energy-absorbing ability of the protective helmet, which can result in serious personal injury or death.

¹Super V Cap meets the voluntary standard for hi-visibility as prescribed by ANSI/ISEA Z89.1-2009. Look for the official hi-visibility marking [HV] on the helmet's ANSI label.

Bump Caps

Classification:	None
Application:	Non-impact
Markets:	Pest control, meter reading, food/beverage processing, meat packing, auto repair
Shell Material:	Polyethylene
Available Styles:	Non-Slotted Cap w/ plastic suspension
Sizes:	Standard (6½ – 8")
Standards:	Not applicable
Certification:	None
Customization:	Imprinting and striping available (locations limited)

DESCRIPTION	w/Plastic Suspension
BUMP CAP ASSEMBLIES	
WHITE	10033652
BLUE	10033650
YELLOW	10033651
ORANGE	10033654
RED	10033653
GREEN	10033655



Head and Face Protection

Replacement Suspensions for MSA Safety Helmets

MSA Fas-Trac® III 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 Three levels of nape strap adjustment for customized fit.
- 3 Lower nape strap cradles the head. Retention is greatly improved—even when bending over!
- 4 Smooth ratchet rotation and secure hold.

Learn how the Fas-Trac III Suspension can relieve your headaches. Visit MSAsafety.com/FasTrac.



Inspect your suspension frequently. Suspensions should be replaced every 12 months, regardless of inspection results. Replace immediately (along with the helmet), if an impact has occurred.

HELMET TYPE (SIZE)	SUSPENSION TYPE (4-point, unless otherwise noted)				
	Fast-Trac III	Fas-Trac	1-Touch	Staz-On	Swing Ratchet ¹
V-GARD CAP OR HAT (STANDARD)	10148708	—	10061123	10087218	816645
V-GARD CAP (SMALL)	10148706	—	—	467386	—
V-GARD CAP (LARGE)	10148707	—	—	492566	—
V-GARD 500 VENTED OR NON-VENTED (STANDARD)	10148708 (4-point) 10153382 (6-point)	—	—	—	—
SKULLGARD CAP OR HAT (STANDARD)	10153385	473334	10061128	454231	816654
SKULLGARD CAP (LARGE)	—	478454	—	468096	—
TOPGARD CAP OR HAT (STANDARD)	10153384	—	10061127	—	816648
SUPER-V CAP (STANDARD)	—	818276	—	—	—

¹Swing ratchet size is 6-1/2" through 7-5/8"

The new **Fas-Trac III sweatband** accessory helps keep workers cool and dry.

FAS-TRAC III SWEATBAND ACCESSORY	Part No.	Product Specifics
	10153518	<ul style="list-style-type: none">• For use with MSA Fas-Trac® III• Moisture-wicking sweatband accessory• Can be attached/replaced without removing the suspension









⚠ WARNING

Ensure suspension sizes and helmet match by size and manufacturer. Do not mix suspension sizes and helmet sizes (i.e., putting a standard sized suspension in a large helmet or any other mismatched combination). Do not use competitor suspensions in MSA helmets. Use only the indicated MSA suspension in your MSA helmet. Failure to follow these instructions will reduce the energy absorbing ability of the protective helmet to receive impact, and could result in serious injury or death.

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

The V-Gard Accessory System offers helmet-mounted frames for various work conditions and MSA helmets. The sloped design allows liquids, chips and other materials to slide off the frame and away from the line of sight. Each frame, whether used with or without debris control, meets the applicable requirements for ANSI/ISEA Z87.1-2010, EN 166, CSA Z94.3, AS/NZS 1337, and many local standards.¹

Classification:	General purpose
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	High density polyethylene (HDPE)
Color(s):	Black
Available Styles:	Frame for Slotted Caps Universal Frame for Caps
Size:	Fits MSA Safety Caps
Features:	Offered with or without debris control
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

V-GARD FRAMES FOR GENERAL PURPOSES	Part No.	Product Specifics
	10115730 	<ul style="list-style-type: none"> Fits all MSA Slotted Caps Sold with replaceable debris control which creates tight seal between frame and cap Stowable slot adaptors secure frame tightly in slotted MSA caps, and allow frame to work with or without earmuffs² Sliding adjustment blades allow visor to work with most half-mask respirators and other PPE worn under a visor
	10121266 	<ul style="list-style-type: none"> Fits all MSA Slotted Caps³ Debris control sold separately Stowable slot adaptors secure frame tightly in slotted MSA caps, and allow frame to work with or without earmuffs² Sliding adjustment blades allow visor to work with most half-mask respirators and other PPE worn under a visor
	10115822 	<ul style="list-style-type: none"> Fits all MSA Caps (Slotted or Non-Slotted)⁴ 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
	10121268 	<ul style="list-style-type: none"> Fits all MSA Caps (Slotted or Non-Slotted)⁴ Debris control sold separately 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

WARNING

Use V-Gard Frames ONLY with V-Gard Visors, to ensure compliance with safety standards. Misuse can result in death, permanent impairment of sight, or other serious injury.

¹Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.

²Patent pending

³MSA recommends the use of debris control on V-Gard frames when wearing BOTH large V-Gard molded Visors and cap-mounted earmuffs.

⁴MSA does not recommend the use of the V-Gard Universal Frame with the MSA SmoothDome when using cap-mounted muffs and large V-Gard molded Visors. The V-Gard Frame for Slotted Caps should be worn with this particular combination.

Head and Face Protection

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

Classification:	Elevated temperature
Market(s):	Food manufacturing/canneries, steel mills, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing, and steam tunnels
Application(s):	Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
Material:	Polycarbonate
Color(s):	Grey
Available Styles:	Frame for Slotted Caps Universal Frame for Caps
Size:	Fits MSA Safety Caps
Features:	Offered with or without debris control Tested to withstand temperatures of 350°F (176.7°C), reducing warping, cracking or crazing All non-metal construction
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337.
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

V-GARD FRAMES FOR ELEVATED TEMPERATURE APPLICATIONS		Part No.	Product Specifics
		10115821 	<ul style="list-style-type: none"> • Stowable slot adaptors secure frame tightly in slotted MSA caps, and allow frame to work with or without earmuffs² • Sliding adjustment blades allow visor to work with most half-mask respirators and other PPE worn under a visor • Replaceable debris control tested against EN 166 hot solids requirements
		10121267 	<ul style="list-style-type: none"> • Stowable slot adaptors secure frame tightly in slotted MSA caps, and allow frame to work with or without earmuffs • Sliding adjustment blades allow visor to work with most half-mask respirators and other PPE worn under a visor • Debris control sold separately³
		10116552 	<ul style="list-style-type: none"> • Heavy duty flat rubber strap allows easy and secure placement on all MSA caps, including non-slotted models⁴ • Design allows use with other PPE, including MSA earmuffs and respirators • Replaceable debris control tested against EN 166 hot solids requirements
		10124426 	<ul style="list-style-type: none"> • Heavy duty flat rubber strap allows easy and secure placement on all MSA caps, including non-slotted models⁴ • Design allows use with other PPE, including MSA earmuffs and respirators • Debris control sold separately³

¹Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.



²Patent pending

³MSA recommends the use of debris control on V-Gard frames when wearing BOTH large V-Gard molded Visors and cap-mounted earmuffs.



⁴MSA does not recommend the use of the V-Gard Universal Frame with the MSA SmoothDome when using cap-mounted muffs and large V-Gard molded Visors. The V-Gard Frame for Slotted Caps should be worn with this particular combination.

V-Gard Accessory System: V-Gard Frames for Full-Brim Helmets

Classification:	General purpose
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, mining
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	High density polyethylene (HDPE)
Color(s):	Black
Available Styles:	Universal Frame
Size:	Fits MSA Full-Brim Safety Helmets
Features:	Offered without debris control ONLY
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

V-GARD FRAME FOR FULL-BRIM HELMETS FOR GENERAL PURPOSE		Part No.	Product Specifics
		10116627	<ul style="list-style-type: none"> • Heavy duty flat rubber strap allows easy and secure placement on all MSA hats, including non-slotted models • Design allows use with other PPE, including MSA earmuffs and respirators

Classification:	Elevated temperature
Market(s):	Food manufacturing/canneries, steel mills, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing, steam tunnels
Application(s):	Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
Material:	Polycarbonate
Color(s):	Gray
Available Styles:	Universal Frame
Size:	Fits MSA Full-Brim Safety Helmets
Features:	Offered without debris control ONLY Tested to temperatures of 350°F (176.7°C), reducing warping, cracking or crazing All non-metal construction
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10









V-GARD FRAME FOR FULL-BRIM HELMETS FOR ELEVATED TEMPERATURE APPLICATIONS		Part No.	Product Specifics
		10116628	<ul style="list-style-type: none"> • Heavy duty flat rubber strap allows easy and secure placement on all MSA hats, including non-slotted models • Design allows use with other PPE, including MSA earmuffs and respirators

¹Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face Protection

V-Gard Visors: General Purpose




Classification:	General purpose
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	Polycarbonate
Color(s):	Clear
Available Styles:	Contoured or flat; visors and nitrometers; bulk pack
Size:	Varies. See "Product Specifics" in Ordering Information chart.
Features:	Maximum UV protection ("U6") Impact-rated (Z87+)
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166 (2C-1.2 MSA 1B); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

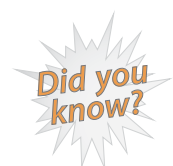
V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS		Part No.	Product Specifics
	 	10115836 	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02mm) • Contoured visor; closer fit and improved resistance to impact and splash hazards
	 	10115837 	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02mm) • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Contoured visor; closer fit and improved resistance to impact and splash hazards
		10120108 	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02mm) • Bulk pack of 20 • Contoured visor; closer fit and improved resistance to impact and splash hazards
		10117750	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02mm) • Flat visor; wider design improved resistance to impact and splash hazards • Does not meet CSA Z94.3
		10117781	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02mm) • Flat nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Wider design improved resistance to impact and splash hazards • Does not meet CSA Z94.3
	 	10115863 	<ul style="list-style-type: none"> • 9.5" (24.1 cm) x 17" (43.2 cm) x .04" (1.02mm) • Contoured visor; closer fit and improved resistance to impact and splash hazards
		10118094	<ul style="list-style-type: none"> • 9.5" (24.1 cm) x 17" (43.2 cm) x .04" (1.02mm) • Flat visor; wider design improved resistance to impact and splash hazards • Does not meet CSA Z94.3

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

V-Gard Visors: General Purpose with Anti-fog/Anti-scratch Coatings

Classification:	General purpose: humid conditions
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
Application(s):	Hot/humid conditions, chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	Polycarbonate with anti-fog/anti-scratch coatings
Color(s):	Clear Green tint
Available Styles:	Contoured; visors and nitrometers
Size:	8" (20.3 cm) x 17" (43.2 cm) x .06" (1.52mm)
Features:	Anti-fog/anti-scratch coatings Impact-rated (Z87+) Maximum UV protection ("U6") Slightly thicker for industrial impact applications
Standards:	ANSI/ISEA Z87.1-2010 and CSA Z94.3
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	5 (except as noted; see "Product Specifics" in Ordering Information chart)

V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS		Part No.	Product Specifics
	 	10115839 	• Contoured visor; closer fit and improved resistance to impact and splash hazards
	 	10115841 	• Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Contoured visor; closer fit and improved resistance to impact and splash hazards • Minimum order quantity: 10
	 	10115842 	• Contoured visor; closer fit and improved resistance to impact and splash hazards • Green tint, reduces glare. Not for use where a Shade infrared (IR) visor is required.
	 	10115843 	• Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Contoured visor; closer fit and improved resistance to impact and splash hazards • Green tint, reduces glare. Not for use where a Shade infrared (IR) visor is required.






All V-Gard polycarbonate clear and green tinted visors, as well as green tint propionate offer maximum UV protection as measured under ANSI/ISEA Z87.1-2010. Just look for the "U6" marking.

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face Protection

V-Gard Visors: General Purpose

Classification:	General purpose
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	Polycarbonate
Color(s):	Clear
Available Styles:	Contoured or flat; visors and nitrometers
Size:	8" (20.3 cm) x17" (43.2 cm) x .06" (1.52mm)
Features:	Impact-rated (Z87+) Maximum UV protection ("U6") Slightly thicker for industrial impact applications
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166 (2C-1.2 MSA 1B); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS		Part No.	Product Specifics
		10115840	• Contoured visor; closer fit and improved resistance to impact and splash hazards
		10117782	• Flat visor; wider design improved resistance to impact and splash hazards • Does not meet CSA Z94.3
		10117783	• Flat nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Wider design improved resistance to impact and splash hazards • Does not meet CSA Z94.3



Only eye/face products marked as Z87+ are impact-rated. The "+" indicates the impact rating. Product literature can be vague, indicating that eye/face products "meet the requirements" of ANSI Z87. If you need a Z87 impact-rated product, be sure to ask the manufacturer if it is marked with "Z87+."

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

V-Gard Visors: Heavy Duty with High-Performance Anti-fog/Anti-scratch Coatings

Classification:	General purpose: heavy duty, humid conditions
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining
Application(s):	Hot/humid conditions, chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing, outdoor work
Material:	Polycarbonate, with EN166-performance-rated anti-fog and anti-scratch coatings
Color(s):	Clear Green tint
Available Styles:	Molded
Size:	10.375" (26.4 cm) x 17" (43.2 cm) x .098" (2.5 mm)
Features:	EN 166 performance-rated anti-fog/anti-scratch (N, K marks, respectively) Impact-rated (Z87+) Maximum UV protection ("U6") Thick for heavy duty industrial impact applications
Standards:	ANSI/ISEA Z87.1-2010; EN 166 (2C-1.2 MSA 1B89KN); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR HEAVY DUTY GENERAL PURPOSE APPLICATIONS	Part No.		Product Specifics
			
		10115853 	<ul style="list-style-type: none"> Molded visor for superior optics under heavy duty use Extended length for greater coverage of neck/face Performs well against many chemicals. Please refer to MSA's Chemical Application Quick Reference Guide (ID 0670-007/MC) for details
		10115854 	<ul style="list-style-type: none"> Molded visor for superior optics under heavy duty use Extended length for greater coverage of neck/face Green tint, helps reduce glare; not for use where a Shade IR visor is required



V-Gard molded, green and clear visors (whether propionate or polycarbonate) offer superior optical quality and resistance to many chemicals. For details on optics, please refer to the MSA White Paper, "Optical Quality Requirements and V-Gard® Visors" (ID 0302-32 MC) available for download from MSA's Asset Library.

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face Protection

V-Gard Accessory System: General Purpose V-Gard Visors (Non-Impact)










Classification:	General purpose: non-impact
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, automotive, mining
Application(s):	Flying chips and other light debris
Material:	Epoxy-coated steel mesh (20 x 20)
Color(s):	Black Aluminum
Available Styles:	Flat
Size:	Varies; see "Product Specifics" in Ordering Information chart.
Features:	General protector (Z87); not for impact hazards
Standards¹:	ANSI/ISEA Z87.1-2010; EN 1731-F; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., and SAI Global Ltd.
Min Order Qty:	10

V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS			Part No.	Product Specifics
			10116557	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) • Visor; plastic-edged mesh • Not for use against splash, impact, elevated temperatures or UV hazards • Can be worn with earmuffs
			10116558	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Plastic-edged mesh • Not for use against splash, impact, elevated temperatures or UV hazards • Can be worn with earmuffs
			10116556	<ul style="list-style-type: none"> • 8" (20.3 cm) x 16.5" (41.9 cm) • Aluminum-bound mesh • Not for use against splash, impact, electrical or UV hazards

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

V-Gard Visors: Heavy Duty Chemical and Splash

Classification:	Chemical and splash: Heavy Duty
Market(s):	General industry, heavy manufacturing, laboratories, chem/petrochemical, agriculture, pharmaceutical, oil and gas, mining
Application(s):	Chipping, splash, chemical mixing, grinding, machining, power fastening, sanding, sawing
Material:	Propionate
Color(s):	Clear
Available Styles:	Molded visor; molded nitrometer
Size:	Varies; see "Product Specifics" in Ordering Information chart.
Features:	Performs well against many types of chemicals. Please refer to MSA's Chemical Application Quick Reference Guide (ID 0670-007/MC) for details. Impact-rated (Z87+)
Standards:	ANSI/ISEA Z87.1-2010; EN 166 (MSA 1B 3); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR CHEMICAL AND SPLASH APPLICATIONS	Part No.		Product Specifics
			10115855  <ul style="list-style-type: none">• 8" (20.3 cm) x 17" (43.2 cm) x .098" (2.5mm)• Visor• Extra-thick to help prevent warping, cracking or crazing under tough conditions
			10115856  <ul style="list-style-type: none">• 8" (20.3 cm) x 17" (43.2 cm) x .098" (2.5mm)• Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors• Extra-thick to help prevent warping, cracking or crazing under tough conditions
			10115851  <ul style="list-style-type: none">• 9.25" (23.5 cm) x 18" (45.7 cm) x .098" (2.5mm)• Visor• Extra-thick to help prevent warping, cracking or crazing under tough conditions• Extended length and width for greater coverage of neck and face



V-Gard propionate visors offer both chemical resistance and impact protection, unlike most propionate visors on the market. Not only are they marked with Z87+, but the clear visors are also compliant with EN166, meaning they were tested at a velocity nearly 32% faster than ANSI/ISEA Z87.1-2010. V-Gard green tint propionate Visors also offer maximum UV protection.

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face **Protection**

V-Gard Visors: Heavy Duty Chemical and Splash (Tinted)





Classification:	Chemical and splash: Heavy Duty
Market(s):	General industry, heavy manufacturing, laboratories, chem/petrochemical, agriculture, pharmaceutical, oil and gas, mining
Application(s):	Outdoor use, chipping, splash, chemical mixing, grinding, machining, sanding, sawing
Material:	Propionate
Color(s):	Green tint
Available Styles:	Molded
Size:	Varies; see "Product Specifics" in Ordering Information chart.
Features:	Maximum UV protection ("U6") Impact-rated (Z87+) Green tint helps alleviate eyestrain and reduces glare
Standards:	ANSI/ISEA Z87.1-2010 and CSA Z94.3
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	5

V-GARD VISORS FOR CHEMICAL AND SPLASH APPLICATIONS			Part No.	Product Specifics
			10115857 	<ul style="list-style-type: none"> • 8" (20.3 cm) x 17" (43.2 cm) x .098" (2.5mm) • Visor • Glare-reducing green tint alleviates eye strain and fatigue; not for use where a Shade IR visor is required • Extra-thick to help prevent warping, cracking or crazing under tough conditions
			10115852 	<ul style="list-style-type: none"> • 9.25" (23.5 cm) x 18" (45.7 cm) x .098" (2.5mm) • Visor • Glare-reducing green tint alleviates eye strain and fatigue; not for use where a Shade IR visor is required • Extra-thick to help prevent warping, cracking or crazing under tough conditions • Extended length and width for greater coverage of neck and face

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

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

Classification:	Elevated temperature
Market(s):	Food manufacturing/canneries, steel mills, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing, steam tunnels
Application(s):	Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
Material:	Polycarbonate with EN166 performance-rated anti-fog and anti-scratch coatings
Color(s):	Clear
Available Styles:	Molded
Size:	Varies; see "Product Specifics" in Ordering Information chart.
Features:	EN166 performance-rated anti-fog/anti-scratch coatings (N, K marks, respectively) Impact-rated (Z87+) Maximum UV protection ("U6") Not for protection against radiant heat or IR hazards.
Standards:	ANSI/ISEA Z87.1-2010; EN 166 (2C-1.2 MSA 1BT89KN); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR ELEVATED TEMPERATURE APPLICATIONS			Part No.	Product Specifics
			10115844 	<ul style="list-style-type: none"> • 9.25" (23.5 cm) x 17" (43.2 cm) x .098" (2.5mm) • Extra-thick visor helps prevent warping, cracking or crazing under tough conditions • Conditioned to a high of 131°F (and a low of 23°F) and then tested to the medium impact rating in the EN166 standard (higher impact speed than ANSI/ISEA Z87.1-2010) • Visors do not reflect IR; not recommended for use against radiant heat hazards
			10115846 	<ul style="list-style-type: none"> • 9.25" (23.5 cm) x 18" (45.7 cm) x .098" (2.5mm) • Extra-thick visor helps prevent warping, cracking or crazing under tough conditions • Extended length for greater coverage of face and neck • Conditioned to a high of 131°F (and a low of 23°F) and then tested to the medium impact rating in the EN166 standard (higher impact speed than ANSI/ISEA Z87.1-2010) • Visors do not reflect IR; not recommended for use against radiant heat hazards



Did you know?






V-Gard molded clear and green tint Visors with anti-fog and anti-scratch coatings offer EN166 "N" and "K" markings, respectively, having passed strenuous testing to confirm performance levels.

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face Protection

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

Classification:	Elevated temperature: heavy duty
Market(s):	Construction, open-pit mining, agriculture, oil/gas/petrochemical refineries
Application(s):	Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
Material:	Polycarbonate
Color(s):	Green tint
Available Styles:	Molded
Size:	Varies; see "Product Specifics" in Ordering Information chart.
Features:	EN166 performance-rated anti-fog/anti-scratch coatings (N, K marks, respectively) Impact-rated (Z87+) Green tint helps alleviate eyestrain and reduces glare Maximum UV protection ("U6") Not for protection against radiant heat or IR hazards.
Standards:	ANSI/ISEA Z87.1-2010; EN 166 (2.2 MSA 1BT89KN); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR ELEVATED TEMPERATURE APPLICATIONS		Part No.	Product Specifics
		 	10115845 • 9.25" (23.5 cm) x 17" (43.2 cm) x .098" (2.5mm) • Extra-thick visor helps prevent warping, cracking or crazing under tough conditions • Conditioned to a high of 131°F (and a low of 23°F) and then tested to the medium impact rating in the EN166 standard (higher impact speed than ANSI/ISEA Z87.1-2010) • Visors do not reflect IR; not recommended for use against radiant heat hazards. • Not for use where a Shade IR visor is required.
		 	10115849 • 9.25" (23.5 cm) x 18" (45.7 cm) x .098" (2.5mm) • Extra-thick visor helps prevent warping, cracking or crazing under tough conditions • Extended length for greater coverage of face and neck • Conditioned to a high of 131°F (and a low of 23°F) and then tested to the medium impact rating in the EN166 standard (higher impact speed than ANSI/ISEA Z87.1-2010) • Visors do not reflect IR; not recommended for use against radiant heat hazards. • Not for use where a Shade IR visor is required.



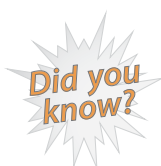
Many people mistakenly believe that green tinted visors offer protection from infrared (IR) radiation. If you need a specific reduction in the transmittance level for IR, look for a visor with a "W" or "R" mark - these are generally known as "shade" visors. Reflectance is another way to reduce the IR transmittance through a lens. See also "V-Gard Visors: Radiant Heat/Elevated Temperature" for information about IR reflectance.

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

V-Gard Visors: Radiant Heat/Elevated Temperature

Classification:	Radiant heat/elevated temperature
Market(s):	Metal industries, glass manufacturing, iron and steel foundries, chemical manufacturing, construction, general manufacturing, textile manufacturing, mining, oil and gas
Application(s):	Grinding, pouring, casting, blowing/melting, rolling, sawing, cutting, crimping, millwrighting, machining/operating, pipelining, pulping
Material:	Polycarbonate
Color(s):	Clear, reflective-coated Green tint, reflective-coated
Available Styles:	Molded
Size:	9.5" (24.1 cm) x 17.75" (45.09 cm) x .07" (1.8 mm)
Features:	Reflects >60% Infrared (IR) radiation (EN166 "R" mark) in the 780nm to 2000nm wavelengths Impact-rated (Z87+) Maximum UV protection ("U6")
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166 (2C-2.5 MSA 1BT3R [clear] and 2-4 MSA 1BT3R [green tint]); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR ELEVATED TEMPERATURE/ RADIANT HEAT APPLICATIONS	Part No.			Product Specifics
		10115848		<ul style="list-style-type: none"> • Clear, reflective-coated • Reflective coating reflects IR and helps dissipate heat • Thick visor helps prevent warping, cracking or crazing under tough conditions • Extended length for greater coverage of face and neck; DO NOT use for welding
		10115850		<ul style="list-style-type: none"> • Green tint, reflective-coated • Reflective coating reflects IR and helps dissipate heat • Green tint helps alleviate eyestrain and reduces glare; not for use where a Shade IR visor is required • Thick visor helps prevent warping, cracking or crazing under tough conditions • Extended length for greater coverage of face and neck; DO NOT use for welding




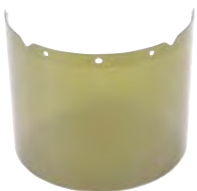

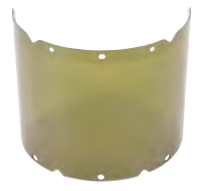


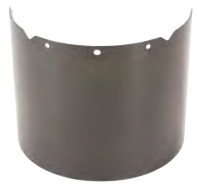


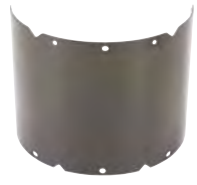

Reflective-coated visors offer protection from irradiance, or the electromagnetic radiation (EMR) energy created in elevated temperature environments. V-Gard Reflective Coated Visors offer an EN166 "R" mark. This means they have been certified to reflect >60% Infrared (IR) radiation in the 780 nm to 2000 nm wavelengths. V-Gard Reflective Visors have been shown to reduce temperatures behind the visor by several hundred degrees, and lower irradiance to below 0.1 kW/m². For details on V-Gard Reflective-Coated Visor performance, please see the MSA White Paper, "Radiant Heat Resistance" (ID 0670-020 MC) and "MSA V-Gard® Reflective-Coated Visors: Radiant Heat Resistance Simplified" (ID 0670-023 MC).

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face **Protection**

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


Classification:	Welding
Market(s):	Fabrication, steel mills, shipbuilding, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing
Application(s):	Welding, metal pouring, gas soldering, light cutting/brazing, manufacturing, impact and debris
Material:	Polycarbonate
Color(s):	Shade 3 IR, green Shade 5 IR, green
Available Styles:	Molded or Nitrometer
Size:	8" (20.3 cm) x 17" (43.2 cm) x .07" (1.8 mm)
Features:	Protection from IR, up to Shade 3 or 5 (as noted) Impact-rated (Z87+)
Standards¹:	ANSI/ISEA Z87.1-2010; EN 166 (4-3/3 MSA 1BT39 [shade 3] and 4-5/5 MSA 1BT39 [shade 5]); CSA Z94.3 and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD VISORS FOR WELDING APPLICATIONS		Part No.	Product Specifics
	 	10115859 	<ul style="list-style-type: none"> • Shade 3 IR • Visor • Thickness helps prevent pitting and warping from heat or weld spatter
		10115860 	<ul style="list-style-type: none"> • Shade 3 IR • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Thickness helps prevent pitting and warping from heat or weld spatter
	 	10115861 	<ul style="list-style-type: none"> • Shade 5 IR • Visor • Thickness helps prevent pitting and warping from heat or weld spatter
	 	10115862 	<ul style="list-style-type: none"> • Shade 5 IR • Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors • Thickness helps prevent pitting and warping from heat or weld spatter

¹Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

V-Gard Visors: Arc Flash Application¹

Classification:	Arc
Market(s):	Manufacturing, utilities, construction, oil/gas/petrochemical
Application(s):	Maintenance, impact and debris, testing/repair
Material:	Polycarbonate
Color(s):	Special tint, light green
Available Styles:	Molded
Size:	9.25" (23.5 cm) x 18" (45.7 cm) x .065" (1.7 cm)
Features:	Rated to 12.9 cal/cm ² (see "Product Specifics" in table below) Impact-rated (Z87+)
Standards²:	ANSI/ISEA Z87.1-2010 ASTM F2178-2008 (Ref: NFPA 70E, HRC 2)
Certification:	Third-party by Intertek and ArcWear
Min Order Qty:	5

V-GARD VISORS FOR ARC FLASH APPLICATIONS		Part No.	Product Specifics
		10115847	<ul style="list-style-type: none"> • Visor • Extended length and width for greater coverage of face and neck • Rated to 12.9 cal/cm² when tested to ASTM F2178-2008 (ref. NFPA 70E-2012, Hazard Risk Category 2), and when worn with a V-Gard Hard Hat (PN 475358) and V-Gard Frame (PN 10121266) • <i>Call MSA Customer Service (800-MSA-2222) for protection levels when using this V-Gard Arc Visor with other V-Gard Frames and MSA Helmet combinations</i>




¹Do not use V-Gard Arc Visors with V-Gard Headgear. These visors are designated for use with specified V-Gard Frames and MSA helmets ONLY. See "V-Gard Headgear" for additional details.

²Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.

Head and Face Protection



V-Gard Visors: Arc Flash Application¹

Classification:	Arc
Market(s):	Manufacturing, utilities, construction, oil/gas/petrochemical
Application(s):	Maintenance, impact and debris, testing/repair
Material:	Polycarbonate
Color(s):	Special tint, light green
Available Styles:	Molded nitrometer
Size:	8" (20.3 cm) x 17.25" (43.8 cm) x .065" (1.7 cm)
Features:	Rated to 11.3 cal/cm ² (see "Product Specifics" in table below) Impact-rated (Z87+)
Standards²:	ANSI/ISEA Z87.1-2010 ASTM F2178-2008 (Ref: NFPA 70E, HRC 2)
Certification:	Third-party by Intertek and ArcWear
Min Order Qty:	5

V-GARD NITROMETER WITH CHIN PROTECTOR FOR ARC FLASH APPLICATIONS		Part No.	Product Specifics
		10118480	<ul style="list-style-type: none">Nitrometer; includes V-Gard Standard Chin Protector (required to achieve arc rating); must be assembled onto nitrometer by userRated to 11.3 cal/cm² when tested to ASTM F2178-2008 (ref. NFPA 70E-2012, Hazard Risk Category 2), and when worn with a V-Gard Hard Hat (PN 475358) and V-Gard Frame (PN 10121266) and V-Gard Standard Chin Protector (PN/10115827)Call MSA Customer Service (800-MSA-2222) for protection levels when using this V-Gard Arc Visor with other V-Gard Frames, V-Gard Chin Protectors and MSA Helmet combinations

V-Gard Chin Protectors³

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

CHIN PROTECTORS		P/N 10115828 Retractable Chin Protector	<ul style="list-style-type: none">3.82" (9.7 cm) in height, when unretractedUnique retractable plates allow greater flexibility of head movement both up and down, as well as side-to-sideOpaque material ensures safety and standards compliance with clear, tinted, shaded and coated V-Gard VisorsMin Order Qty: 5
		P/N 10115827 Standard Chin Protector	<ul style="list-style-type: none">2.86" (7.26 cm) in heightOpaque material ensures safety and standards compliance with clear, tinted, shaded and coated V-Gard VisorsCompact, lightweight design provides additional protection between chin and neck areaMin Order Qty: 5

¹Do not use V-Gard Arc Visors with V-Gard Headgear. These visors are designated for use with specified V-Gard Frames and MSA helmets ONLY. See "V-Gard Headgear" for additional details.


²Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.

³MSA V-Gard Chin Protectors meet the applicable safety requirements as noted on the V-Gard Nitrometer Visor when worn in conjunction with V-Gard Frames and V-Gard Nitrometer Visors.


V-Gard Headgear

V-Gard Headgear can be used for face protection when head protection is not required. V-Gard Headgear is available in two versions: General Purpose and Elevated Temperature (Extended). V-Gard Headgear are designed and approved for use with V-Gard Visors.¹

Classification:	General purpose
Market(s):	General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, metalworking, automotive, mining, chemical industries
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing, laboratory
Material:	High Density Polyethylene (HDPE)
Color(s):	Black
Available Styles:	Ratchet closure
Size:	Standard (6½ – 8)
Standards²:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	10

V-GARD HEADGEAR FOR GENERAL PURPOSE APPLICATIONS	Part No.	Product Specifics
	10127061	<ul style="list-style-type: none"> • Patent-pending, Infini-just lift/closure with grippable knobs that don't unscrew; no parts to lose! • Seven-point crown adjustment • Replaceable, sweat-wicking, cushioned headband helps keep workers dry and cool • Sweat-wicking ratchet cover keeps nape comfortable • For use ONLY with V-Gard Visors; not for use where head protection is required • All non-metal construction

Classification:	Elevated temperature
Market(s):	Food manufacturing/canneries, steel mills, construction, open-pit mining, agriculture, oil/gas/petrochemical refineries, rubber manufacturing, and steam tunnels
Application(s):	Food processing, machine operation, maintenance, millwright, cutting, punching, extrusion, drilling, blasting, casting/conveying, chemical mixing, sanding
Material:	Heat-Resistant Nylon
Color(s):	Gray
Available Styles:	Ratchet closure
Size:	Standard (6½ – 8)
Standards²:	ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337
Certification:	Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.
Min Order Qty:	5

V-GARD HEADGEAR FOR ELEVATED TEMPERATURE APPLICATIONS	Part No.	Product Specifics
	10127062	<ul style="list-style-type: none"> • Extended browguard for additional coverage in high temperatures • Tested to withstand temperatures up to 400°F³ • Patent-pending, Infini-just lift/closure with grippable knobs that don't unscrew; no parts to lose! • Seven-point crown adjustment • Replaceable, sweat-wicking, cushioned headband helps keep workers dry and cool • Sweat-wicking ratchet cover keeps nape comfortable • For use ONLY with V-Gard Visors; not for use where head protection is required • All non-metal construction

WARNING

¹ **DO NOT** use V-Gard Headgear with V-Gard Arc Visors tested to ASTM F2178-2008 Test Method (ref. NFPA 70E-2012, Hazard Risk Category). These visors are designated for use with specified V-Gard Frames and MSA helmet 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.



² Standards requirements met by each V-Gard Frame or Headgear/V-Gard Visor combination designated on each V-Gard Visor.

³ Exposure to extreme heat can cause thermal discomfort. Proper precautions should be taken to prevent heat stress and other injuries.

Head and Face Protection


V-Gard Headgear

V-Gard Headgear Kits offer simple and complete solutions for many general purpose and elevated temperature applications where face protection ONLY is needed.

V-GARD HEADGEAR KITS		P/N 10127063 V-Gard Headgear Kit, General Purpose	Contains: <ul style="list-style-type: none">• V-Gard General Purpose Headgear (PN 10127061)• V-Gard Clear, PC Visor, 8" (20.3 cm) x 17" (43.2 cm) x .04" (1.02 mm) (PN 10115836)
		P/N 10127064 V-Gard Headgear Kit, Elevated Temperature	Contains: <ul style="list-style-type: none">• V-Gard Headgear, Elevated Temperature, Extended (PN 10127062)• V-Gard Clear, Green tint PC, reflective coating, molded, 9.5" (24.1 cm) x 17.75" (45.09 cm) x .07" (1.78 mm) (PN 10115850)

V-Gard Headgear Replacement Sweatband¹

V-Gard Headgear Kits offer simple and complete solutions for many general purpose and elevated temperature applications where face protection ONLY is needed.

V-GARD HEADGEAR REPLACEMENT SEWATBAND		P/N 10127065 V-Gard Headgear Replacement Sweatband	<ul style="list-style-type: none">• Sweat-wicking material over breathable foam helps keep workers cool, dry and comfortable• Hook & loop closure makes replacement easy• Tested to the FR requirements in CSA Z94.3-07• Sold in boxes of 25 (5 packages of 5)
--	--	---	---

¹Use only genuine MSA V-Gard Headgear replacement parts to help ensure compatibility and compliance. MSA does not warrant, guarantee or promote the use of components manufactured by other companies when used in conjunction with MSA products.

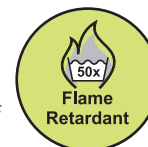








V-Gard Winter Liners

Flame resistant (FR) garments are made of special fibers that allow them to self-extinguish when exposed to flame or thermal ignition. Flame resistance cannot be removed by washing. Unlike many other winter liners in the market, ALL layers of fabric in V-Gard Supreme Liners are flame resistant, affording FR protection throughout the life of the product.¹ For this reason, only V-Gard Supreme Liners offer resistance to arc exposure.



Flame retardant garments have been chemically treated to resist burning when a flame is present. While chemical treatment can wear off after the first wash, all layers of ALL V-Gard Select products offer flame retardancy up to 50 washings.



V-GARD SUPREME LINERS 		P/N 10118421 Flame-Resistant V-Gard Supreme Liner	<ul style="list-style-type: none"> • Multiple layers of flame-resistant fabric • Fabric tested to withstand arc exposure to an ATPV of 8 cal/cm² • Water repellant • Adjustable chinstrap • Inside neck pocket holds warming packet² • Sold in sets of 3 liners per set
	 	P/N 10118425 Flame-Resistant V-Gard Supreme Liner, Extended, 1-piece	<ul style="list-style-type: none"> • Multiple layers of flame-resistant fabric • Fabric tested to withstand arc exposure to an ATPV of 8 cal/cm² • Water repellant • Inside neck pocket holds warming packet² • Extended nape and wraparound collar for tucking into coat/shirt • Quilted flaps allow uncompromised hearing protection levels when using earmuffs • Sold in sets of 3 liners per set
	 	P/N 10118427 Flame-Resistant V-Gard Supreme Liner, 2-piece	<ul style="list-style-type: none"> • Multi-layered flame-resistant top cap • Fabric tested to withstand arc exposure to an ATPV of 8 cal/cm² • Water repellant • Inside neck pocket holds warming packet² • Extended, zipper on/off high-bulk flame-resistant knit bottom • No metal parts • Sold in sets of 3 liners per set






¹Garment care instructions must be followed. ²Warming packets available at most sporting goods retailers; not sold with liners.



Did you know?

According to one of the formal, certifying test houses, winter liners cannot be certified to "NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire," as they are not considered "garments" under this Standard. Please contact MSA Customer Service for details.

Head and Face Protection

V-GARD SELECT LINERS 	 	P/N 10129659 Flame-Retardant V-Gard Select Liner, 2-piece	<ul style="list-style-type: none"> • Double-layered flame retardant top cap, up to 50 washes • Extended, zipper on/off double-layer knit bottom; flame retardant, up to 50 washes • No metal parts • Water repellant • Sold in sets of 12 liners per set
	 	P/N 10129654 Flame-Retardant V-Gard Select Liner, Extended, No Earflaps	<ul style="list-style-type: none"> • Two layers of fabric, flame retardant to 50 washes • Water repellant • Extended nape and wraparound collar for tucking into coat/shirt • For applications where earmuffs are not worn • Sold in sets of 12 liners per set
		P/N 10118420 Flame-Retardant V-Gard Select Liner	<ul style="list-style-type: none"> • Two layers of fabric, flame retardant to 50 washes • Water repellant • Adjustable chinstrap • Quilted flaps allow uncompromised hearing protection levels when using earmuffs • Sold in sets of 12 liners per set
V-GARD VALUE LINERS	 	P/N 10118417 V-Gard Liner Knit Cap	<ul style="list-style-type: none"> • Stylish skullie cap • Design prevents liner from obstructing vision • 100% high bulk acrylic • Sold in sets of 12 liners per set
	 	P/N 10118418 V-Gard Liner Knit Hat-Cap Cover	<ul style="list-style-type: none"> • 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 • Sold in sets of 12 liners per set
	 	P/N 10118419 V-Gard Value Liner	<ul style="list-style-type: none"> • 100% cotton twill • Adjustable chin strap • Sold in sets of 12 liners per set
		P/N 10118422 V-Gard Value Liner, Extended	<ul style="list-style-type: none"> • 100% cotton twill • Extended nape and wraparound collar for tucking into coat/shirt • Sold in sets of 12 liners per set

SunShade Hard Hat Accessory

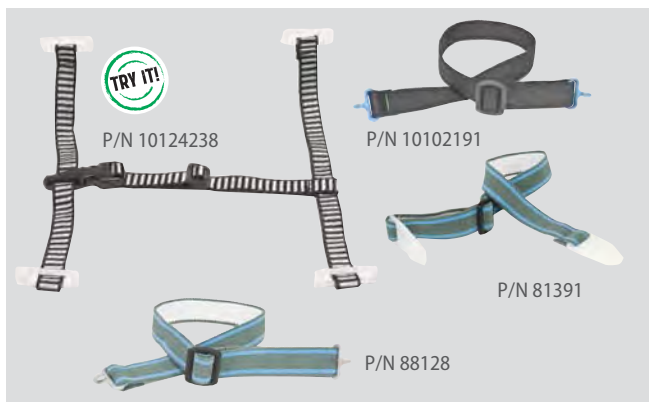


MSA SunShades not only help to protect wearer's ears and neck from sun and heat, but also enhance worker visibility with contrasting color band and reflective striping. Fit most hats and caps. Features include:

- Breathable, bright mesh fabric
- Choice of bright yellow-lime or orange colors
- Hat clips help to keep SunShade from falling or rotating
- Min Order Qty: 5

SUNSHADE HARD HAT ACCESSORY	10098032	SunShade, Yellow-Green, with reflective striping
	10098031	SunShade, Orange, with reflective striping

Chinstraps



Put and keep MSA helmets in their place with these comfortable, adjustable chinstraps.

- 2-, 3- and 4-point chinstraps available
- Non-metal chinstraps keep helmets in place
- Attaches directly to shell or suspension (as noted)
- Flexible construction and adjustable design for long-wearing comfort
- Available in cotton, polyester, nylon, or Nomex® webbing

CHINSTRAPS		
	10124238	Chinstrap, 4-pt, 3/4" polyester webbing, attaches to suspension (pkg of 10)
	10102191 ¹	Chinstrap, 2-pt, 3/4" Nomex webbing, attaches to shell
	81390 ²	Chinstrap, 2-pt, 3/4" cotton webbing, attaches to suspension
	81391 ²	Chinstrap, 2-pt, 3/4" polyester webbing, attaches to suspension
	81329	Chinstrap, 2-pt, 3/4" cotton webbing, attaches to shell
	88128	Chinstrap, 2-pt, 3/4" polyester webbing, attaches to shell
	804629	Chinstrap, 3-pt, 3/4" nylon webbing, for Vanguard helmets only

¹For elevated temperatures; flame-resistant.

²For use with MSA Staz-On suspensions only.

Hearing Protection¹

It is important that hearing protection used in a work environment provides sufficient noise attenuation to protect workers, but not so much protection that users are prevented from hearing their co-workers, alarms and other important signals. If workers must shout to hear each other from three feet away, noise levels are probably 85 dBA or more and hearing protectors are recommended.

For environments with impulse noises, select an electronic muff that not only amplifies sound to a predetermined safe level (82 dBA or lower), but which will also allow workers to communicate and hear relevant sounds, like other workers, machines, and warning signals. However, in most cases, unless the environment has very loud or impulsive noises (such as gunfire or pneumatic equipment), properly selected, fitted and worn passive hearing protectors provide sufficient protection.

Hearing Protection: Cap-Mounted, Electronic

Classification: Cap-mounted, electronic

Market(s): General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, mining, military



Application(s): Hunting/shooting, food processing, construction, airlines, industries with high impulse noises, road maintenance, railroad work, pneumatic tools

Available Styles: left/RIGHT Cut-off
left/RIGHT Cut-off with FM radio (Dual Pro)

Noise Reduction Rating (NRR): 20 dBA

Features: Award-winning product design accounts for varying head, face and ear sizes/shapes
AUX input for connection to external devices, such as a portable media player or comms set
Battery save function and low battery warning
Earmuffs flip up and out of the way when not in use

Standards: Meets ANSI S3.19-1974 standards; Meets CSA Class A standard

CAP-MOUNTED ELECTRONIC HEARING PROTECTION		Product Name	Part No.	Product Specifics
		left/RIGHT CutOff Pro	10111823 (yellow) 10111826 (blue)	<ul style="list-style-type: none">• Amplifies weak sounds, letting speech and important signals through while protecting from high-impulse noise• Designed to work with MSA slotted helmets, including V-Gard Cap, V-Gard 500 Cap, Topgard® Cap, Thermalgard® Cap, and Super-V Cap• Up to 1000-hour battery life• Volume memory
		left/RIGHT Dual Pro	10111832 (blue)	<ul style="list-style-type: none">• The level-dependent left/RIGHT Dual Pro ear muff provides a high level of hearing protection with a built-in FM radio• FM radio offers excellent reception and superior sound quality• Large push buttons for ease of use

¹Hygiene kits available for all products. Visit [MSAafety.com](https://www.MSAafety.com) for details.

Hearing Protection: Helmet-Mounted, Passive

Classification: Helmet-Mounted, Passive

Market(s): General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding, mining, military

Application(s): Confined space, welding, sanding/grinding, power tools, occupations using noisy equipment

Available Styles: For Caps (left/RIGHT, Sound Control)
For Full Brim Slotted Helmets (Sound Control SH)

Noise Reduction Rating (NRR): Varies by product; see "Product Specifics" below. Stated NRR for medium V-Gard Helmets.

Features: Earmuffs flip up and out of the way when not in use

Standards: Meets ANSI S3.19-1974 standards; Meets CSA Class A standard

HELMET-MOUNTED PASSIVE HEARING PROTECTION		Product Name	Part No.	Product Specifics
		left/RIGHT (HIGH)	10087422	<ul style="list-style-type: none"> • NRR 28 dBA • For MSA slotted caps • Distinct bright yellow cups • Dedicated right and left ear cups are designed to fit ears of all shapes and sizes for increased comfort and protection. • Precise fit provides maximum loud noise protection using minimal cup size • Muff cups adjust independently
		left/RIGHT (MED)	10087429	<ul style="list-style-type: none"> • NRR 25 dBA • For MSA slotted caps • Distinct blue cups
		Sound Control HPE	10061272	<ul style="list-style-type: none"> • NRR 27 dBA • For MSA slotted caps • Ideal for airfields, power plants and other areas with intense noise • The highest-rated protection available for low-frequency environments • Super-soft ear cushions help ensure all-day comfort
		Sound Control EXC	10061230	<ul style="list-style-type: none"> • NRR 25 dBA • For MSA slotted caps • Excellent noise attenuation with maximum ear space in cups • Spring design offers low-pressure and a high level of comfort
		Sound Control XLS	10061535	<ul style="list-style-type: none"> • NRR 23 dBA • For MSA slotted caps • Excellent grip makes it easy to adjust the cups, even when wearing gloves
		SoundControl SH	10129327	<ul style="list-style-type: none"> • NRR 25 dBA • For MSA Full Brim Slotted V-Gard Helmets • Three distinct wearing positions for ease of use • Easy cup height adjustment • Does not interfere with Class E rating of V-Gard Full Brim Helmet

Hearing Protection: Headband, Electronic

Classification: Headband, Electronic

Market(s): Oil, gas and petrochemicals, general industry, manufacturing, repair and maintenance, construction, shipbuilding, mining, military, recreational hunting/shooting



Application(s): Confined space, pneumatic machinery or equipment, oil rigs and drilling operations, gun ranges, airport ground personnel, maintenance, mechanics, industrial workers

Available Styles: Supreme Pro X
Supreme Pro

Noise Reduction Rating (NRR): Varies by product; see "Part No." below.

Features: Compresses hazardous noise to safe levels without "chopping" or "cutting off" important sounds, like instructions and warnings
Communicate and hear instructions without removing the hearing protector, regardless of background noise
Microphone and speaker sound levels are limited to a safe 82dB(A)
Compact, lightweight and foldable for easy storage
200-hour battery life with standard AAA batteries
AUX input for connection to external devices, such as a portable media player or comms set
3.5 mm mono cable included

Standards: Meets ANSI S3.19-1974 standards; Meets CSA Class A standard

ELECTRONIC HEADBAND HEARING PROTECTION		Product Name	Part No.	Product Specifics
		Supreme Pro X	10082167 (NRR 18 dBA, headband) 10082166 (NRR 19 dBA, neckband)	<ul style="list-style-type: none"> • Offers an Ingress Protection Rating (IP) of 67, per the International Electrotechnical Commission (IEC) rating scale. Product tested to provide complete protection from dust ingress, and water ingress when immersed up to 1 meter (3 ft). • Well-shielded waterproof microphones for optimum sound direction location • Five-year (5) warranty on electronics.
		Supreme Pro	10061285 (NRR 18 dBA, headband) 10079966 (NRR 19 dBA, neckband)	<ul style="list-style-type: none"> • Splash-resistant • Less costly alternative to Supreme Pro X

Hearing Protection: Headband, Passive

Classification: Headband, passive

Market(s): Automotive, construction, food & beverage manufacturing, manufacturing, metal production & fabrication, military maintenance, repair and operation (MRO), mining, oil & gas, pharmaceutical, transportation







Application(s): Assembly, cleaning, demolition, electrical, sanding & grinding, machine operations, painting, sanding, welding

Available Styles: left/RIGHT
SoundControl
Economuff

Noise Reduction Rating (NRR): Varies by product; see "Product Specifics" below.
















Features: Ease of use and consistent fit

Standards: Meets ANSI S3.19-1974 standards; Meets CSA Class A standard

HEADBAND PASSIVE HEARING PROTECTION		Product Name	Part No.	Product Specifics
		left/RIGHT (HIGH)	10087399	<ul style="list-style-type: none"> • NRR 28 dBA • Distinct bright yellow cups • Dedicated right and left ear cups are designed to fit ears of all shapes and sizes for increased comfort and protection • Precise fit provides maximum loud noise protection using minimal cup size • Muff cups adjust independently
		left/RIGHT (MED)	10087426	<ul style="list-style-type: none"> • NRR 25 dBA • Distinct blue cups
		left/RIGHT (LOW)	10087436	<ul style="list-style-type: none"> • NRR 25 dBA • Distinct white cups
		Sound Control HPE	10061271	<ul style="list-style-type: none"> • NRR 26 dBA • Provides the highest-rated protection available for low-frequency environments • Padded headband and super-soft ear cushions • Wide headband with ventilated padding provides a firm and comfortable fit • Easily adjustable headband force for individual fit
		Sound Control EXC	10061229	<ul style="list-style-type: none"> • NRR 24 dBA • Wide and soft padding provides a firm fit • Adjustable headband force for individual fit • Two-point mounting system ensures pressure is distributed evenly around the cushion
		ECONOMUFF	10004291	<ul style="list-style-type: none"> • NRR 20 dBA • Large earcup openings to fit most ear sizes • Soft, wide cushions for even pressure and extra comfort • Outstanding comfort and protection for the budget-conscious

Sightgard Safety Glasses: Indoor Humid Conditions









Classification:	Indoor: humid environments
Market(s):	Facility maintenance, repair and operations, construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals, transportation, shipbuilding, automotive
Application(s):	Assembly and mechanical, drilling, grinding, machining, painting, sanding, sawing
Material:	Polycarbonate
Features:	Anti-fog coating Clear lenses Impact-rated (Z87+) Anti-scratch coating (as noted)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	12

HUMID INDOOR APPLICATIONS		Model	Part No.	Product Specifics
	 	Alaska	10118473	<ul style="list-style-type: none"> • Frameless; lightweight • Padded, adjustable nosebridge
	 	Arctic™ Elite	10038845	<ul style="list-style-type: none"> • Rubber tipped temples and nosebridge for comfortable, yet secure fit
	 	Aurora™	10026005	<ul style="list-style-type: none"> • Ratchet temple adjustment • Single, 7-base wrap curve lens • Tuff Stuff™ Anti-scratch Coating
	 	Blockz™	10106379	<ul style="list-style-type: none"> • Brow shelf prevents debris from falling into eyes • Sliding temple adjustment • Tuff Stuff Anti-scratch Coating
	 	Essential Adjust 	10119761	<ul style="list-style-type: none"> • Horizontal and vertical temple adjustment
		Pyrenees™ 	10033718	<ul style="list-style-type: none"> • Full side protection • Dual injected, soft-tipped temples
		Voyager™ 	10065849	<ul style="list-style-type: none"> • Single wrap-style lens

¹ CSA International certified models are denoted with a  symbol

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













Classification:	Outdoor: high-glare with UV exposure
Market(s):	Utility work, general industry, manufacturing, construction, oil and gas, forestry, shipbuilding, aviation, mining, transportation
Application(s):	Chipping, chiseling, drilling, grinding, machining, power fastening, sanding, sawing, masonry, UV protection
Material:	Polycarbonate
Features:	Maximum UV protection ("U6") Rich mirrored or dark tinted lenses reduce glare Impact-rated (Z87+) Anti-fog coating (as noted)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	12

OUTDOOR HIGH-GLARE/ UV EXPOSURE APPLICATIONS		Model	Part No.	Product Specifics	
			Alaska	10110420	<ul style="list-style-type: none">• Rich-silver mirror on a grey tint lens reduces light transmission, keeping eyes comfortable in sunlight• Frameless; lightweight• Padded, adjustable nosebridge
			Essential Adjust 	10119762	<ul style="list-style-type: none">• Rich-blue mirrored lens reflects light• Horizontal and vertical temple adjustment
			Espresso GlareGone™	10106383	<ul style="list-style-type: none">• Polarized filter lenses block intense light• Dark brown tint lens helps further reduce glare
			Racer™ Red	10106381	<ul style="list-style-type: none">• Rich-red mirrored lens reflects light and reduces glare without color degradation• Sporty, single, wide-wrap lens• Anti-fog coating

¹ CSA International certified models are denoted with a  symbol

Sightgard Safety Glasses: Indoor/Outdoor











Classification:	Indoor/outdoor
Market(s):	General industry, manufacturing, construction, oil and gas, forestry, shipbuilding, automotive, food and beverage, mining, pharmaceuticals, primary metals, transportation
Application(s):	Assembly and mechanical, chipping, chiseling, cleaning, drilling, grinding, machining, masonry, riveting, sanding, sawing, UV protection
Material:	Polycarbonate, indoor/outdoor or light mirroring
Features:	Maximum UV protection ("U6") Light mirror lenses provide glare reduction without significantly reducing light transmittance Impact-rated (Z87+) Anti-fog and/or anti-scratch coatings (as noted)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	12


INDOOR/OUTDOOR APPLICATIONS		Model	Part No.	Product Specifics
		Arctic	10008179	<ul style="list-style-type: none"> • Blue mirror reduces glare without causing color degradation • Popular, lightweight model • Full side coverage • Anti-scratch coating
		Artic Elite	10059671	<ul style="list-style-type: none"> • Indoor/outdoor mirror allows workers to go from bright to low light conditions • Rubber tipped temples and nosebridge for comfortable, yet secure fit • Anti-fog coating
		Essential Adjust 	10119757	<ul style="list-style-type: none"> • Indoor/outdoor mirror allows workers to go from bright to low light conditions • Horizontal and vertical temple adjustment • Anti-scratch coating
		Essential Adjust 	10119758	<ul style="list-style-type: none"> • Light silver mirror reduces glare • Horizontal and vertical temple adjustment • Anti-fog coating
		Vista™	10070916	<ul style="list-style-type: none"> • Indoor/outdoor mirror allows workers to go from bright to low light conditions • Vertical temple adjustment • Lightweight, single lens • Anti-scratch Coating

¹ CSA International certified models are denoted with a  symbol

Sightgard Safety Glasses: Indoor














Classification:	Indoor: temperate environments
Market(s):	Facility maintenance, repair and operations, general manufacturing and industry
Application(s):	Drilling, grinding, machining, sanding, sawing
Material:	Polycarbonate, clear
Features:	Impact-rated (Z87+) Anti-scratch coating (as noted)
Standards1:	ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	12

TEMPERATE INDOOR APPLICATIONS		Model	Part No.	Product Specifics
	 	Arctic	697514	<ul style="list-style-type: none"> • Frameless and lightweight • Tuff Stuff Anti-scratch Coating • Full side coverage
	 	Discovery™ II 	10106382	<ul style="list-style-type: none"> • Flexible, nylon temple arms adjust to head width • Soft nose bridge • So light, you forget you have them on
	 	Easyflex™	10070917	<ul style="list-style-type: none"> • Temples and frame flex for a custom fit • Tuff Stuff Anti-scratch Coating
	 	Sierra™ 	697550	<ul style="list-style-type: none"> • Classic full coverage look • Adjustable temples • Integral side protection • Tuff Stuff Anti-scratch Coating

¹ CSA International certified models are denoted with a  symbol

Sightgard Safety Glasses: Outdoor with UV Exposure




Classification:	Outdoor: UV exposure
Market(s):	General industry, manufacturing, construction, oil and gas, forestry, shipbuilding
Application(s):	Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing
Material:	Polycarbonate
Features:	Maximum UV protection ("U6") Gray tint lenses offer glare reduction with the least amount of color distortion Impact-rated (Z87+) Anti-fog coating (as noted)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	12

OUTDOOR UV EXPOSURE APPLICATIONS		Model	Part No.	Product Specifics
	 	Alaska	10118474	<ul style="list-style-type: none"> • Frameless; lightweight • Padded, adjustable nosebridge • Anti-fog coating
	 	Essential Adjust 	10119760	<ul style="list-style-type: none"> • Gun metal silver frame with horizontal and vertical temple adjustment • Anti-fog coating
	 	Feather Fit™	10106384	<ul style="list-style-type: none"> • Comfortable rubber flange nosepiece • Rubber temple grips help glasses stay put under hot working conditions
	 	Nuevo Wrap™ 	10106385	<ul style="list-style-type: none"> • Stylish, full wrap coverage • Anti-fog coating
	 	Voyager 	10065850	<ul style="list-style-type: none"> • Single lens • Anti-scratch coating

¹ CSA International certified models are denoted with a  symbol

Sightgard Safety Goggles

Classification:	Chemical and splash
Market(s):	Chemicals, construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals, primary metals, transportation, shipbuilding, automotive
Application(s):	Cleaning, chemical mixing and use, chipping, chiseling, drilling, grinding, machining, painting, power washing, sanding, sawing, splash
Material:	Acetate lens
Features:	Clear Impact-rated (Z87+) Splash-rated (D3)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	6

CHEMICAL AND SPLASH APPLICATIONS		Model	Part No.	Product Specifics
	 	FlexiChem™ iV 	10106281	<ul style="list-style-type: none"> • Soft, pliable goggle body ensures all-day comfort • Indirect vent helps eliminate fogging while retaining splash resistance • Acetate lens resists warping, cracking and crazing from chemical splash • Anti-fog coating • Flame-retardant strap



Classification:	Industrial: impact/splash
Market(s):	Construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals, primary metals, transportation, shipbuilding, automotive
Application(s):	Chipping, chiseling, drilling, grinding, machining, painting, power washing, sanding, sawing, splash
Material:	Polycarbonate
Features:	Clear Anti-fog coating Indirect venting helps to keep lens fog-free Impact-rated (Z87+) Splash-rated (D3)
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3
Certification:	Third-party by Intertek, CSA International, UL
Min Order Qty:	Varies; see "Product Specifics" in Ordering Information chart.

INDUSTRIAL IMPACT/SPLASH APPLICATIONS		Model	Part No.	Product Specifics
	 	Clearvue 200	10029693	<ul style="list-style-type: none"> • Smoke frame helps reduce peripheral light, reducing glare • Min Order Qty: 10
	 	Vault™ 	10106282	<ul style="list-style-type: none"> • Modern styling • Comfortable, thick strap • Tuff Stuff Anti-scratch Coating • Min Order Qty: 6

¹ CSA International certified models are denoted with a  symbol



Sightgard Safety Goggles

Classification:	General purpose: impact/splash
Market(s):	Construction, general manufacturing and industry, oil and gas, pharmaceuticals, transportation, shipbuilding
Application(s):	Splash, chiseling, drilling, grinding, sanding, sawing
Material:	Clear polycarbonate lenses
Features:	Anti-fog coating Impact-rated (Z87+) Splash-rated (D3) Tuff Stuff Anti-scratch Coating
Standards¹:	ANSI/ISEA Z87.1-2010 and CSA Z94.3
Certification:	Third-party by Intertek and CSA International
Min Order Qty:	10

GENERAL PURPOSE IMPACT/SPLASH APPLICATIONS		Model	Part No.	Product Specifics
		Sightgard NV 	10106268	• Non-vented for tighter seal
		Sightgard iV 	10106270	• Indirect-venting helps keep goggles fog-free

Goggle Retainers

Sturdy neoprene-rubber accessory can be used with any protective cap or hat. Retains goggle on headwear when not in use and holds goggle securely when worn for eye protection. **MSA goggle retainers are manufactured for use ONLY with MSA goggles in order to comply with ANSI/ISEA Z87.1-2010.**

GOGGLE RETAINERS		Part No.	Product Specifics
		459458	Goggle Retainer, for caps
		449895	Goggle Retainer, for hats

¹ CSA International certified models are denoted with a  symbol

EVOTECH® Full-Body Harnesses



EVOTECH Full-Body Harness
Part No. 10105942



EVOTECH Construction Harness
Part No. 10112710



EVOTECH Tower Harness
Part No. 10112760

- Breathable padding with moisture-wicking material keeps users cooler
- No binding edge on shoulder padding prevents neck chafing
- Sub-Pelvic Strap with patented variable width webbing provides 50% more surface area for better weight distribution and improved comfort
- Patent-pending leg strap design keeps leg straps in place, increasing mobility and comfort

- Dual-color webbing—red pattern on outside, black on inside—promotes easy identification of twisted webbing
- Patent-pending web management system provides means of storing excess webbing
- 3-position back D-ring allows users to determine optimal lanyard connection position
- Web finials prevent fraying on web ends and simplify threading through buckles

- NanoSphere® coating on webbing repels dirt, grease, moisture, etc.
- Available with Suspension Trauma Safety Step to improve post-fall comfort and help prevent suspension trauma
- Reflective piping integrated into harness webbing increases visibility in low-light environment
- Construction Harness features integral back pad and tool belt with dual-durometer padding for superior comfort in work positioning applications.

For the latest design features that improve user comfort, ease of use, durability, and user safety, choose the **EVOTECH Full Body Harness**. The EVOTECH Harness is RFID enabled, offering the Field ID Safety Network with Field ID access to provide a reliable, on-line inspection and safety compliance (ISCM) management system.

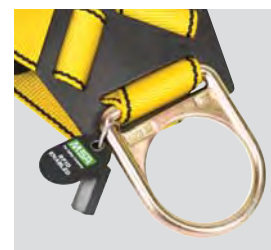
What is Field ID?

Field ID is an extremely simple yet powerful electronic inspection and safety compliance management system. Field ID simplifies and expedites equipment tracking, inspection, and compliance data management for those responsible for administering fall protection programs.

RFID Field Retro Kit Ordering Information

Both kits come with:

- RFID chip
- Two means of attachment to product: Key ring and cable tie. Use either the key ring or cable tie method to securely attach the RFID chip to your product.



RFID FIELD RETRO KIT	10113493	RFID Field Retro Kit, pack of 5
	10113494	RFID Field Retro Kit, pack of 20

EVOTECH® Full Body Harnesses

EVOTECH Harness Ordering Information

PART NO.	D-Ring Configuration		Size		Leg Buckle Type			Chest Buckle Type		Padding			Accessories		Standards
	Back	Back Hips	Std	XLG	Quick-Connect	Tongue Buckle	Qwik-Fit	Quick-Connect	Qwik-Fit	None	Shoulder	Shoulder & Leg	None	Safety Step	
1 10105931	■		■			■		■			■		■		■
2 10105932	■			■		■		■			■		■		■
1 10105933		■	■			■		■			■		■		■
2 10105935		■		■		■		■			■		■		■
1 10105940	■		■		■			■			■		■		■
2 10105941	■			■	■			■			■		■		■
1 10105942		■	■		■			■			■		■		■
2 10105943		■		■	■			■			■		■		■

EVOTECH Construction Harness Ordering Information

	PART NO.	D-Ring Configuration		Size		Leg Buckle Type		Chest Buckle Type		Padding		Standards
		Back, Hips	Back, Chest, Hips	Std	XLG	Quick-Connect	Tongue Buckle	Quick-Connect	Quick-Fit	Shoulder	Shoulder & Leg	OSHA/ANSI/CSA
	10112708	■		■			■	■		■		■
1	10112709	■			■		■	■		■		■
2	10112710		■	■			■	■		■		■
2	10112741		■		■		■	■		■		■
	10112742	■		■		■		■		■		■
	10112743	■			■	■		■		■		■
2	10112744		■	■		■		■		■		■
2	10112745		■		■	■		■		■		■

EVOTECH Tower Harness Ordering Information

PART NO.	Hip D-Ring Style		Size		Leg Buckle Type		Padding		Accessories		Standards
	Standard	Crank	Std	XLG	Quick-Connect	Tongue Buckle	Shoulder	Shoulder & Leg	None	Safety Step	
10112758	■		■			■	■		■		■
10112759	■			■		■	■		■		■
10112772		■	■		■		■		■		■
10112773		■		■	■		■		■		■

Need it NOW! is our fall protection delivery program that's designed to get you the products you need, when you need them — **NOW!**

Two tiers of priority shipping are offered under the **Need it NOW!** delivery program:

- Tier I includes MSA's most popular products. Tier I delivery offers same day or next-day shipping.
- Tier II delivery offers shipping within 5 days.

Products included in this program are identified by the following symbols:

- Symbols with a 1 denote Tier I product status **1** **1**
- Symbols with a 2 denote Tier II product status **2** **2**
- Black symbols denote that the maximum order quantity for priority shipping is 100 units **1** **2**
- Red symbols denote that the maximum order quantity for priority shipping is 50 units **1** **2**

Visit our website at www.MSAsafety.com to view complete program terms and conditions.

Need it
NOW?
Call MSA!

TechnaCurv® Full Body Harnesses



TechnaCurv Harness
Part No. 10041599

TechnaCurv Harness
Part No. 10041609

Value Added



The TechnaCurv Full Body Harness is now RFID-enabled, offering the Field ID Safety Network with Field ID Access to provide a reliable, online inspection and safety compliance (ISCM) management system.

- Features the Curvilinear comfort system
- Resists water, oil, grease, and dirt with Teflon fabric protected webbing which increases the life of the harness
- Uses Visco-Elastic shoulder padding for comfort
- Designed with downward adjusting torso straps to ease fitting
- Features Sorbtek fabric on optional shoulder and sub-pelvic pads
- Available with Secure-Fit buckles
- Tower Harness model available with integral body belt and removable saddle
- Order through MSA's assemble-to-order process to get the options you want

TechnaCurv Harness Common Configurations

PART NO.	Style		D-Ring Configuration			Size		Leg Buckle Type			Chest Buckle Type		Padding			Standards	
	Vesttype	Pullover	Back	Back, Chest, Hips	Back, Hips	Std	XLG	Secure-Fit	Tongue Buckle	Qwik-Fit	Secure-Fit	Qwik-Fit	None	Shoulder	Shoulder & Leg	OSHA/ANSI/CSA	ANSI/OSHA
2 10041517	■		■			■				■		■	■			■	
1 10041591	■		■			■			■			■	■			■	
1 10041592	■		■				■		■			■	■			■	
1 10041595	■				■	■			■			■	■			■	
1 10041599	■		■			■			■			■		■		■	
2 10041603	■				■	■			■			■		■		■	
1 10041607	■			■		■			■			■	■			■	
1 10041609		■		■		■			■				■			■	
2 10041611	■			■		■			■			■		■		■	
2 10041615	■			■		■		■				■			■	■	

TechnaCurv® Full Body Harnesses



TechnaCurv Construction Harness
Part No. 10054402



TechnaCurv Tower Harness
Part No. 10048344



TechnaCurv Construction Harness Ordering Information

PART NO.	Size		Leg Buckle Type		Chest Buckle Type		Webbing Color		Standards
	Std	XLG	Secure-Fit	Tongue Buckle	Secure-Fit	Qwik-Fit	Red	Green	OSHA/ANSI/CSA
2 10054402	■			■		■	■		■
10054720		■		■		■	■		■
10054403	■			■	■		■		■
10054761		■		■	■		■		■
10054719	■		■		■		■		■
10054762		■	■		■		■		■
10063654	■			■		■		■	■
10063656		■		■		■		■	■

TechnaCurv Tower Harness Ordering Information

PART NO.	Style		Size		Leg Buckle Type			Chest Buckle Type		Padding			Standards
	Vesttype	Pullover	Std	XLG	Secure-Fit	Tongue Buckle	Qwik-Fit	Secure-Fit	Qwik-Fit	None	Shoulder	Shoulder & Leg	OSHA/ANSI/CSA
2 10048344	■		■		■				■			■	■
10048345	■			■	■				■			■	■
10048348	■		■			■			■		■		■
10048349	■			■		■			■		■		■
10048342		■	■		■							■	■
10048343		■		■	■							■	■
10048432	■		■				■		■	■			■
10048433	■			■			■		■	■			■

Workman® Full-Body Harnesses



For more complete information
on Workman Products,
see Bulletin 2302-11-MC.

Quality, comfort, and value come together in the Workman line of fall protection products. Workman Full Body and Construction Harnesses feature lightweight components and durable webbing.

- Optimum quality at an economical price
- Yellow polyester webbing for increased visibility
- Color-contrasting thigh and torso straps simplify donning
- Choice of Qwik-Fit or tongue-buckle leg straps for easy adjustment
- Web retainer collars to keep excess webbing neat
- Includes a lanyard keeper for added safety when lanyard leg is not in use
- All Workman Harnesses include a load-indicator to alert you when the harness has been involved in a fall event



Workman Full-Body Harnesses

Workman Harness Ordering Information

PART NO.	D-Ring Configuration				Size				Leg Buckle Type		Standards	
	Back	Back, Chest	Back, Chest, Hips	Back, Hips	XSM	STD	XLG	SXL	Tongue Buckle	Qwik-Fit	OSHA/ANSI/CSA	ANSI/OSHA
1 10072478	■				■					■	■	
1 10072479	■					■				■	■	
1 10072480	■						■			■	■	
2 10072481	■							■		■	■	
1 10072482				■	■					■	■	
1 10072483				■		■				■	■	
2 10072484				■			■			■	■	
2 10072485				■				■		■	■	
1 10072486	■				■				■		■	
1 10072487	■					■			■		■	
1 10072488	■						■		■		■	
2 10072489	■							■	■		■	
1 10072490				■	■				■		■	
1 10072491				■		■			■		■	
2 10072492				■			■		■		■	
2 10072493				■				■	■		■	
10108743		■			■				■		■	
10108744		■				■			■		■	
10108745		■					■		■		■	
10108767			■		■				■		■	
2 10108768			■			■			■		■	
10108769			■				■		■		■	
10108770			■					■	■		■	
2 10108772			■			■				■	■	
10125152			■			■				■		■
10125153			■				■			■		■

Workman Construction Harness Ordering Information

PART NO.	Size				Padding		D-Ring Extension	Standards	
	XSM	STD	XLG	SXL	None	Shoulder		OSHA/ANSI/CSA	ANSI/OSHA
2 10072494	■				■			■	
1 10072495		■			■			■	
1 10072496			■		■			■	
2 10072497				■	■			■	
10077490	■					■		■	
1 10077571		■				■		■	
1 10077572			■			■		■	
1 10077573				■		■		■	
10122507		■				■	■		■
10122707	■					■	■		■
10122745			■			■	■		■
10122746				■		■	■		■

ArcSafe® Full-Body Harnesses



ArcSafe Harness
Part No. 10060101



ArcSafe Harness
Part No. 10070439



ArcSafe Harness
Part No. 10082569

Maintenance and utility workers are protected from the hazard of high-energy electric arc flash while wearing ArcSafe Harnesses. This harness may also be used for retrieval from a confined space. The nylon web loop that is included adds comfort by reducing overall harness weight and also reduces potential of electrical arc to the harness.

- SEI-certified to the requirements of the ASTM F887-05 standard for arc flash protection up to 40 cal/cm²
- Nylon web loop attachment points
- Meets all applicable OSHA regulations and ANSI Z359.1 standards
- Certified to CSA Z259.10-06
- Integral load indicator
- 400 pound capacity
- Y-shaped back web loop locator pad provides comfort by moving the webbing away from the wearer's neck
- Color-coded leg and torso straps simplify donning
- Downward-adjusting torso straps ease adjustment

PART NO.	Style		D-Ring Configuration			Size		Leg Buckle Type		Dielectric Sleeves	Standards
	Vesttype	Crossover	Back	Back, Belay	Back, Belay, Hips	STD	XLG	Tongue Buckle	Qwik-Fit	Upper Body	OSHA/ANSI/CSA
10060101		■	■			■			■		■
10060102		■	■				■		■		■
10077853		■		■		■			■	■	■
10077855		■		■			■		■	■	■
10082569		■			■	■		■		■	■
10082570		■			■		■	■		■	■
10070423	■				■	■		■		■	■
10070424	■				■		■	■		■	■
10070431	■		■			■			■	■	■
10070432	■		■				■		■	■	■
10070439	■				■	■			■	■	■
10070440	■				■		■		■	■	■

Harness Accessories

MSA Harness Accessories maximize user comfort and allow customization of harnesses.



Shoulder Pad
Part No. 10028444



Shoulder Pads
Part No. 10077489



EvoTech Shoulder Pads
Part No. 10111358



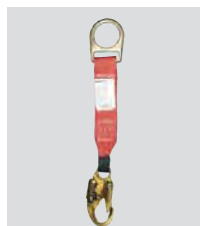
Double D-ring Extension
Part No. 10043147



Lanyard Keepers
Part No. 10113240



Cell Phone Holder
Part No. 10117271



Lanyard Connector Adapter
Part No. 505318



Tool Lanyard
Part No. 10110670



Rescue Etrier
folded (above), extended (left)
Part No. 10063441

Suspension Trauma Safety Steps allows workers to relieve pressure by inserting a foot into the step loops and then standing up in the harness to increase blood flow to the legs.

PADS	507144		Economic Back Support Pad, nylon
	10028444		Shoulder pad
	10077489		Shoulder Pads, 1 set
	10111358		EvoTech Shoulder Pads
D-RING EXTENSIONS	10043147		Double D-Ring Extension, 1" nylon web, sewn loop
	10071688		Single D-Ring Extension, 1" nylon web, sewn loop
LANYARD CONNECTOR ADAPTER	505318	1	Lanyard Connector Adapter, nylon, 1 D-ring, 18" (Back D-Ring Extension)
LANYARD KEEPERS	10113240	1	Lanyard Keepers, MSA Velcro
LANYARD CLIP	SHW26	1	Lanyard Clip (Velcro key ring)
TOOL LANYARD	10110670	1	Tool lanyard
CELL PHONE HOLDER	10117271		Cell phone holder
SUSPENSION TRAUMA SAFETY STEP	10063431	1	Suspension Trauma Safety Step with carabiner
	10063441	1	Suspension Trauma Safety Step without carabiner

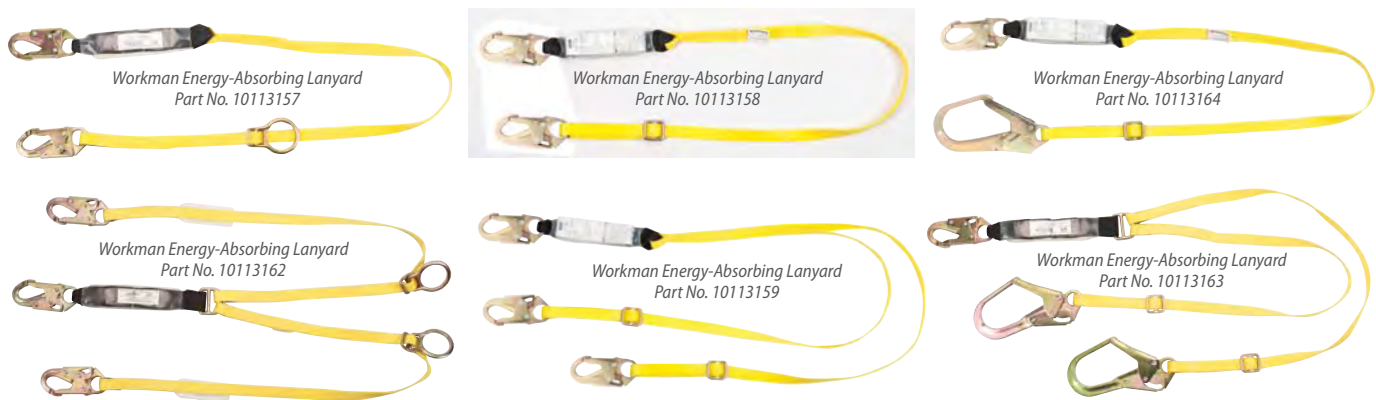
Energy-Absorbing Lanyards

Energy-absorbing lanyards are a component of a personal fall arrest system. They provide a means of connection between the back D-ring of MSA full-body harnesses and a qualified anchorage and anchorage connector. The energy absorber keeps fall arrest forces below ANSI and OSHA limits and deceleration distance is controlled to a maximum of 48 inches. The lanyard is available in web and wire rope configurations with a variety of snaphooks.

Workman Energy-Absorbing Lanyards

When a fall hazard is present, use a lightweight, low-profile Workman Energy-Absorbing Lanyard. The energy absorber not only limits force on the body in a fall, but also on the anchor location. The shock absorber includes a clear, durable protective cover over the labels to increase service life and allow for easy inspection.

- Tear-tape design to keep average fall arrest forces below 900 lbs.
- Choice of single- or twin-leg configurations
- Choice of adjustable or tie-back configurations



PART NO.	Harness Connection	Anchorage Connection	Type			Standards		
			Single-Leg	Twin-Leg	Tie-Back	ANSI 359.13	CSA Z259.11	OSHA
1 10129118	LC	LC	■		■			■
1 10129119	LC	(2) LC		■	■			■
1 10129120	LC	LC	■					■
1 10129151	LC	(2) GL3100		■				■
1 10129152	LC	(2) LC		■				■
1 10129153	LC	GL3100	■					■
1 10113157	36C	36C	■		■	■		■
1 10113158	36C	36C	■			■		■
1 10113159	36C	(2) 36C		■		■		■
1 10113162	36C	(2) 36C		■	■	■		■
1 10113163	36C	(2) 36CL		■		■		■
1 10113164	36C	36CL	■			■		■
1 10072472	36C	36C	■		■		■	■
1 10072473	36C	(2) 36C		■	■		■	■
1 10072474	36C	36C	■				■	■
1 10072475	36C	(2) 36CL		■			■	■
1 10073708	36C	(2) 36C		■			■	■
1 10076124	36C	36CL	■				■	■

ArcSafe Energy-Absorbing Lanyards

Providing electrical arc flash protection, ArcSafe Lanyards use a tear-tape design to keep fall arrest forces and deceleration distances below ANSI, OSHA, and CSA limitations. ArcSafe Energy-Absorbing Lanyards connect the back D-ring of MSA full-body harnesses to a qualified anchorage and anchorage connector.

- Limits average fall arrest forces to 900 pounds or less
- Constructed of nylon webbing and length is adjustable
- Includes sewn loop on shock-absorber end and 36C snaphook on lanyard leg
- Incorporates a protective cover over the energy-absorber



Part No. 10107200



Part No. 10107201

PART NO.	Harness Connection	Anchorage Connection	Type			Standards		
			Single-Leg	Twin-Leg	Heavy Worker	ANSI Z359.13	CSA Z259.11	OSHA
1 10060139	Hitch Loop	36C	■				■	■
1 10060140	Hitch Loop	(2) 36C		■			■	■
10088253	Hitch Loop	(2) 36CL		■	■			■
1 10107200	Hitch Loop	36C	■			■		■
1 10107201	Hitch Loop	(2) 36C		■		■		■
10107202	Hitch Loop	(2) 36CL		■		■		■

FP5K® Tie-Back Energy-Absorbing Lanyards

The dependable FP5K Tie-Back Energy-Absorbing Lanyard uses an FP5K Carabiner which can be tied back to the lanyard. This product uses the Sure-Stop energy absorber to keep fall arrest forces within the limitations set by ANSI, OSHA, and CSA. It's unique carabiner body shape helps avoid confusion with standard connectors not designed for tie-back applications.

- 5,000 lb gate strength in any direction allows the FP5K carabiner to be tied back directly to the lanyard
- Monster-Edge Webbing with 12,000 pound minimum breaking strength
- Internal wear indicator consists of two yellow threads that, when visible, alert a user when the lanyard should be removed from service due to severe abrasion
- Available in both single- and twin-leg configurations



Part No. 10107207



Part No. 10107208



Part No. 10107209



Part No. 10107210

PART NO.	Harness Connection	Anchorage Connection	Adjustable Web	Fixed Cable	Type			Standards		
					Single-Leg	Twin-Leg	Heavy Worker	ANSI Z359.13	CSA Z259.11	OSHA
1 10107207	36C	FP5K	■		■			■		■
1 10107208	36C	FP5K	■			■		■		■
1 10047084	36C	FP5K	■		■				■	■
1 10047085	36C	FP5K	■			■			■	■

Diamond™ Energy-Absorbing Lanyards and Expanyards

Raising the standard for energy-absorbing lanyards, the FP Diamond Energy-Absorbing Lanyard's light weight and streamlined design contains a strong and durable polyester sheath that's abrasion and UV-resistant. FP Diamond Energy-Absorbing Lanyards connect the back D-ring of MSA full-body harnesses to a qualified anchorage and anchorage connector. The energy absorber keeps fall arrest forces and deceleration distances below ANSI, CSA, and OSHA limits.

- Keeps average fall arrest forces below 900 lbs
- Durable polyester sheath for increased abrasion and UV resistance
- Highly visible deployment tag
- Pouchless design for lighter weight and comfortable wear
- Single- and twin-leg configurations
- Single-leg FP Diamond is bi-directional to make training easier
- Twin-leg FP Diamond allows for 100% tie off



Part No. 10023932



Part No. 10045936



Part No. 10045938

PART NO.	Harness Connection	Anchorage Connection	Material	Type					Length (ft)				Standards		
			Polyester	Single-Leg	Twin-Leg	Triple-Leg	Expanyard		4	4.5	5	6	ANSI 359.13	CSA Z259.11	OSHA
1 10023932	36C	36C	■	■								■		■	■
1 10023933	36C	36CL	■	■								■		■	■
1 10023970	36CS	(2) 36C	■		■							■		■	■
1 10023971	36CS	(2) 36CL	■		■							■		■	■
1 10045936	36C	36C	■	■			■					■		■	■
1 10045938	36CS	(2) 36CL	■		■		■					■		■	■
2 10088065	36C	36C	■	■								■	■		■
1 10088067	36C	36C	■	■			■					■			■
1 10088072	36C	(2) 36CL	■		■							■			■
2 10088077	36CS	(3) 36CL	■			■		■							■

Thermatek® Energy-Absorbing Lanyard

Specially designed for high-heat applications, Thermatek® Energy-Absorbing Lanyards feature a Tuffweld protective cover over the energy-absorber and a Kevlar back-up strap inside the energy-absorbing pouch. Energy Absorbing Lanyards connect the back D-ring of MSA full-body harnesses to a qualified anchorage and anchorage connector. The energy absorber keeps fall arrest forces and deceleration distances within the limitations set by ANSI, CSA, and OSHA.

- Designed to hold up to heat and for use in the welding industry
- Tuffweld protective cover that is superior to Nomex
- Kevlar back-up strap is resistant to charring and burning
- Thermatek 12 lanyard model arrests a free-fall up to 12 feet and keeps fall arrest forces below OSHA limits



Thermatek Cable Energy-Absorbing Lanyard Ordering Information

PART NO.	Harness Connection	Anchorage Connection	Type			Length		Standards		
			Single-Leg	E4	E6 Heavy Worker	5 ft	6 ft	ANSI Z359.13	CSA Z259.11	OSHA
1 10088246	36C	36C	■				■	■		■
10088250										
1 10023485	36C	36C	■				■		■	■
10152844										
10027104	36C	36C	■			■				■
10152845										
10099974										
10118812	36C	36C			■		■		■	
10118813										

Thermatek Web Energy-Absorbing Lanyard Ordering Information

PART NO.	Harness Connection	Anchorage Connection	Type			Standards		
			Fixed	Single-Leg	Twin-Leg	ANSI Z359.13	CSA Z259.11-05 E4	OSHA
10106935	36C	36C	■	■				■
10107853	36C	(2) 36C	■		■			■
10118737	36C	36CL	■	■				■
10118738	36C	(2) 36CL	■		■			■

Restraint Lanyards

Restraint lanyards are primarily used for travel restriction (to restrain a worker from reaching a fall hazard) and work positioning (stabilizing a worker at an elevated location) applications. All restraint lanyards meet applicable OSHA regulations. Compliance to CSA is noted in the tables below.



PART NO.	Material			Type				Harness Connection	Anchorage Connection	Length					Standards		
	Web	Nylon	Polyester	Single	Twin	Adj	Fixed			2 ft	3 ft	4 ft	5 ft	6 ft	ANSI Z359.13	CSA Z259.11-05 E4	OSHA
1 505204	1"	■		■		■		36C	36C					■		■	■
2 10056763	1"	■			■		■	36C	(2) FP5K				■			■	■
2 SWL3268704LS	1"	■		■			■	36C	36C			■				■	■
2 505088	1"	■		■		■		36C	36C					■			■

Workman Personal Fall Limiters (PFL)



The Workman Personal Fall Limiter (PFL) and the Workman Twin Leg Personal Fall Limiter are two of the most versatile fall protection devices available on the market today. The Workman PFL has a fast acting brake mechanism and the Workman Twin Leg PFL offers a great alternative to twin-leg energy-absorbing lanyards.

- Rugged, impact-absorbing protective bumpers for added durability
- A 400 lb. working capacity eliminates the need to custom order a product for a worker exceeding 310 lbs
- ATO ordering flexibility allows you to order the exact and only options you want

WORKMAN PFL— WEB VERSION						
PART NO.	Description	PFL Connection	Lifeline Connection	Standards		
				CSA Z259.2.2	ANSI Z359.14-2012	OSHA
1 10093348	Workman PFL, 12' line length	None	LI Snaphook			■
1 10093349	Workman PFL, 12' line length	None	LC Snaphook			■
1 10093350	Workman PFL, 12' line length	1" Steel Carabiner	LC Snaphook			■
2 10093352	Workman PFL, 12' line length	Back D Connector	LC Snaphook			■
1 10093353	Workman PFL, 12' line length	1" Steel Carabiner	36C Snaphook		■	■
1 10093354	Workman PFL, 12' line length	None	36C Snaphook		■	■
2 10093356	Workman PFL, 10' line length	None	36C Snaphook	■		■
2 10093357	Workman PFL, 10' line length	1" Steel Carabiner	36C Snaphook	■		■

WORKMAN PFL— CABLE VERSION						
PART NO.	Description	PFL Connection	Lifeline Connection	Standards		
				CSA Z259.2.2	ANSI Z359.14-2012	OSHA
2 10104793	Workman PFL, 12' line length	1" Steel Carabiner	36C Snaphook		■	■

WORKMAN TWIN-LEG PFL— WEB VERSION						
PART NO.	Description	Lifeline Connection	Standards			
			CSA Z259.2.1 - Type 1	ANSI Z359.14-2012	OSHA	
1 10118937	Workman Twin-Leg PFL, 6' line length	36CL snaphook	■	■	■	
1 10120050	Workman Twin-Leg PFL, 6' line length	AL36CL snaphook	■	■	■	
1 10120052	Workman Twin-Leg PFL, 6' line length	36C snaphook	■	■	■	
	10129903	Workman Twin-Leg PFL, 6' line length	LC snaphook			■
1 10125271	Workman Twin-Leg Tie-Back PFL, 6' line length	FP5K Snaphook	■	■	■	
1 10125272	Workman Twin-Leg Tie-Back PFL, 7.5' line length	FP5K Snaphook	■		■	

Workman Self-Retracting Lanyard (SRL)

With lightweight design, durable thermoplastic housing and impact-absorbing bumpers, the Workman SRL will not only be accepted by users, but also provides years of dependable service.

- RFID-enabled product for simplified product tracking and inspection
- 400-lb working capacity for increased versatility
- Integral, ergonomic carrying handle for easier transport and installation
- Available with galvanized or stainless steel lifeline to fit your varied applications
- Swivel snaphook with load indicator at lifeline end greatly limits twisting of cable; also alerts users that the Workman SRL has been involved in a fall
- Available in 30-ft and 50-ft lengths to provide the mobility you need
- Certification to ANSI Z359.14-2012 and CSA Z259.2.2 for compliance and peace of mind
- Meets all OSHA requirements

WORKMAN SELF-RETRACTING LANYARDS	10119507	1	Workman SRL, 30-ft, galvanized cable, 36CS snaphook
	10120724	1	Workman SRL, 30-ft, stainless steel cable, 36CS snaphook
	10121834	1	Workman SRL, 50-ft, galvanized cable, 36CS snaphook
	10121778	1	Workman SRL, 50-ft, stainless steel cable, 36CS snaphook



Dyna-Lock® Self-Retracting Lanyards (SRLs)

The MSA Dyna-Lock Self-Retracting Lanyards (SRL) are fast-acting fall arresters that limit free-fall distance, deceleration distance and fall arrest forces while allowing user freedom of movement. The Dyna-Lock SRL is ideal for climbing applications where vertical mobility is needed.

- Three independent locking mechanisms provide proven dependability in corrosive or freezing environments
- Integral energy absorber limits average fall arrest forces to 900 lbs or less
- Visual impact loading indicator on snaphook alerts the user when the unit has been subjected to a load
- Wire rope available in galvanized or stainless steel
- Swivel snaphook to prevent birdcaging or kinking of lifeline
- Roller nozzle reduces wear on cable
- Durable stainless steel and extruded aluminum housing on web Dyna-Lock SRLs
- Durable galvanized steel housing on cable Dyna-Lock SRLs
- Integral carrying/mounting handle
- 4.5 feet per second locking speed



	PART NO.	Description	Length	Standards	
				CSA Z259.2.2/OSHA	ANSI Z359.14-2012/OSHA
1	506615	Nylon Web	20'		■
1	10017931	Stainless Steel Wire Rope	20'		■
1	506202	Galvanized Wire Rope	30'		■
2	506203	Stainless Steel Wire Rope	30'		■
1	506204	Galvanized Wire Rope	50'		■
2	506205	Stainless Steel Wire Rope	50'		■
2	10017933	Stainless Steel Wire Rope	20' (6M)	■	
2	10006468	Galvanized Wire Rope	50' (16M)	■	

Anchorage Connectors

- Have a minimum breaking strength of 5,000 lb.
- Are compatible for use with MSA fall arrest and confined space entry/retrieval components
- Meet ANSI Z359.1-2007 and all applicable OSHA regulations



Part No. 10042794



Part No. 10042792

PointGuard™ Anchorage Connector Strap

- PointGuard Concrete Anchorage Connector Strap couples a single personal fall arrest system to an anchorage
- PointGuard Residential Anchorage Connector Strap provides a secure point of attachment for residential construction applications

POINTGUARD ANCHORAGE CONNECTOR STRAP	10042792	1	PointGuard residential anchorage connector strap, 3' with D-ring
	10042794	1	PointGuard concrete anchorage connector strap, 4' with D-ring



Part No. 505282



Part No. SFP2267503



Part No. SFP2267402



Part No.
SFP3267504

Anchorage Connector Straps/Anchorage Slings

- Anchorage Connector Strap provides a temporary means of connecting to an anchor point
- Double D-ring Anchorage Connector Strap is used as a removable anchor strap for connection to an anchorage point
- SuretyMan Anchorage Sling is sewn into an endless loop that can be hitched to an anchorage point using various configurations

ANCHORAGE CONNECTOR STRAPS	505282	1	Anchorage connector strap, nylon, 5' length
	10023490	1	Anchorage connector strap, double D-ring, 5' length
	SFP2267504		Anchorage connector strap, double D-ring 4' length
	SFP2267503	1	Anchorage connector strap, double D-ring 3' length
ANCHORAGE SLINGS	SFP2267402		SuretyMan anchorage sling, 2' length
	SFP2267404		SuretyMan anchorage sling, 4' length
	SFP2267406		SuretyMan anchorage sling, 6' length
	SFP3267504	1	Anchorage cable sling, 4' length
	SFP3267506	1	Anchorage cable sling, 6' length

Anchorage Connector Components

For use in fall arrest and confined space entry applications.

- Anchorage Connector Extension features a 3,600 lb rated snaphook on one end and a 3" O-ring on the other
- Bolt D-ring with Hole Anchorage Connector is a permanent anchor connector designed for coupling a single fall arrest system to an anchorage such as beams or girders
- D-Plate Anchorage Connector provides a permanent anchorage point



Anchorage
Connector
Extension
Part No. 505233



D-Plate Anchorage
Connector
Part No. 506632



Bolt D-ring with Hole
Part No. 10003213

ANCHORAGE CONNECTOR COMPONENTS	505233	1	Anchorage connector extension, 5', 36C, O-ring
	10003213	1	Bolt D-ring with hole only
	506632	1	D-plate anchorage connector, zinc-plated steel

Anchorage Connectors



10K MEGA Swivel (D-Ring only)
Part No. 10144954



MEGA Swivel Hybrid
Part No. 10144957



5K MEGA Swivel (Steel)
Part No. 10144944



Weld-on Puck
Part No. 10144958
(shown with 10K MEGA swivel D-Ring)



5k Drop-Through Anchorage Connector
Part No. 10144960



5K Removable Concrete Anchor
Part No. 10081594



10K Removable Concrete Anchor
Part No. 10081570



5K Toggle Lok Anchor
Part No. 10144961

5K MEGA ANCHORAGE CONNECTORS <i>zinc-plated steel</i>	10144944		5K MEGA anchorage connector kit (steel)
	10144945		5K MEGA anchorage connector kit (concrete)
	10144946		5K MEGA D-ring
	10144947		5K MEGA bolt (steel)
	10144948		5K MEGA bolt (concrete)
5K MEGA ANCHORAGE CONNECTORS <i>stainless steel</i>	10144949		5K MEGA anchorage connector kit SST (steel)
	10144950		5K MEGA anchorage connector kit SST (concrete)
	10144951		5K MEGA SST D-ring
	10144952		5K MEGA SST bolt (steel)
	10144953		5K MEGA SST bolt (concrete)
10K MEGA SWIVEL ANCHORAGE CONNECTORS <i>zinc</i>	10129084		10K MEGA swivel anchorage connector (steel)
	10129085		10K MEGA swivel anchorage connector (concrete)
	10144954		10K MEGA D-ring
	10144955		10K MEGA bolt, Grade 8 (steel)
	10144956		10K MEGA bolt (concrete)
	10144957		10K MEGA swivel hybrid kit
REMOVABLE CONCRETE ANCHORS	10081594	1	5K removable concrete anchor
	10081570	1	10K removable concrete anchor
ANCHORAGE CONNECTORS	10144958		10K Weld-on puck, for MEGA swivel
	10144959		10K Backplate, for MEGA swivel
	10144960		5K Drop-through anchorage connector, 8.5 feet
	10144961		5K Toggle Lok anchor
	10144962		5K MEGA SST install tool for concrete bolt anchorage connector

Anchorage Connectors



Workman FP Stryder
Part No. 10144431



Workman XL FP Stryder
Part No. 10144432



BeamGrip
Part No. 506682,
shown with Part No. 506643
and Part No. 506673
(not included)



BeamGlide Trolley
Removable Model
Part No. 506266

Beam Grips and BeamGlide™ Trolley

- Workman FP Stryder/Beam Grips attach to I-beam flange—no tools required
- BeamGlide Trolley provides horizontal mobility and keeps anchorage connector directly overhead—fits all beams

WORKMAN FP STRYDER	10144431	1	Workman FP Stryder Anchorage Connector, Standard version, fits beam flange widths from 4" to 13.5"
	10144432		Workman FP Stryder Anchorage Connector, XL version, fits beam flange widths from 14" to 23.5"
BEAM GRIPS	506682		BeamGrip for beams with flange width: 3.94" to 5.64" flange thickness: .205" to .659"
	415171		BeamGrip for beams with flange width: 5.525" to 8.07" flange thickness: .36" to 1.09"
	415172		BeamGrip for beams with flange width: 8.06" to 10.475" flange thickness: .56" to .935"
	415173		BeamGrip for beams with flange width: 10.265" to 12.8" flange thickness: .605" to 1.25"
	506643		D-Ring insert for BeamGrip
	506673		Swivel D-Ring
	10072789		506682 BeamGrip with swivel D-Ring
BEAMGLIDE TROLLEY	506266		BeamGlide Trolley, removable model (customer must provide specs)
	506252		BeamGlide Trolley, permanent model (customer must provide specs)
	506379		Trolley End Stops (pair)



Rail-Slider
Part No. SFPRS6000

Rail-Slider™

- Rail-Slider Provides fall protection during horizontal movement on railway bridges (carabiner required—see p. 66)

RAIL-SLIDER	SFPRS6000	2	Rail-Slider, steel, galvanized, for 80 - 136 # rail, used on train/crane type rail
	10030608		Rail-Slider, steel, galvanized, for 141 # rail, used on train/crane type rail

Carabiners

MSA offers a wide variety of carabiners for almost every application. All carabiners have a minimum breaking strength of 5,000 lbs.



Part No. 506259

1



Part No. SRCC641

1



Part No. 10089205

1



Part No. SRCA722



Part No. 506572



Part No. 10089207

1



Part No. SRCA883



Part No. SRCA613



Part No. 506308



Part No. 10089209



Part No. SRCC740



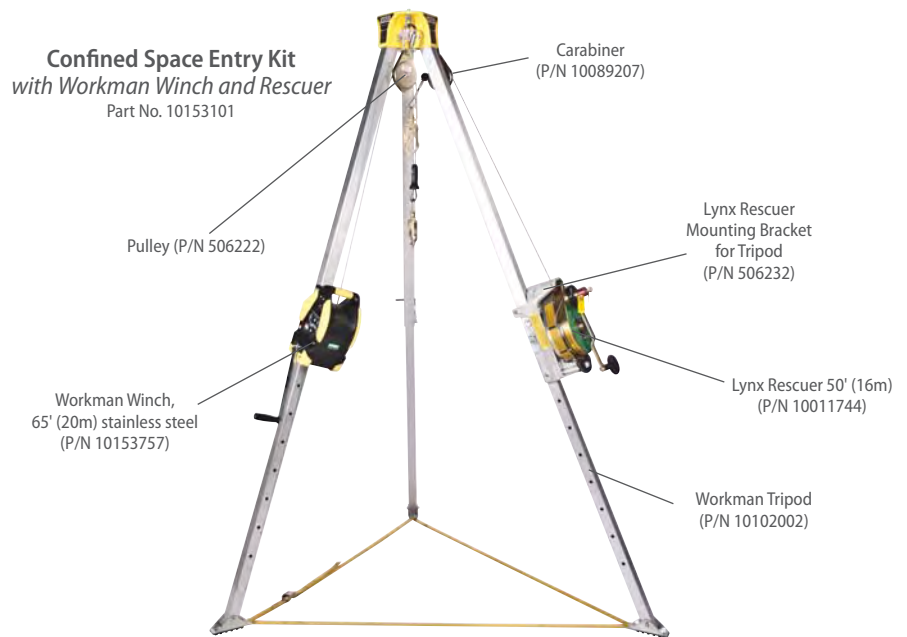
Part No. SRCC642

1

Workman Tripod and Workman Confined Space Entry Kits



Workman Tripod
Part No. 10102002



**Confined Space Entry Kit
with Workman Winch and Rescuer**
Part No. 10153101

MSA Tripods make confined space entry with vertical descent easy. The Workman Tripod features an 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

Complete confined space entry kits for multiple confined space applications.

- Allow for non-entry rescue of a confined space entrant
- Lift and lower materials and personnel via the hoist while having the ability to use an SRL
- Great portability

WORKMAN TRIPOD	10102002	2	Workman Tripod
CONFINED SPACE ENTRY KITS	10153101		Workman Tripod, 65-ft (20 m) winch, stainless steel cable, 50-ft (16 m) Lynx Rescuer, ANSI
	10153102		Workman Tripod, 65-ft (20 m) winch, stainless steel cable, 50-ft (16 m) Dynevac® II Rescuer, ANSI
	10153141		Workman Tripod, 65-ft (20 m) winch, stainless steel cable, 50-ft (16 m) Lynx Rescuer, CSA
	10153142		Workman Tripod, 65-ft (20 m) winch, stainless steel cable, 50-ft (16 m) Dynevac II Rescuer, CSA
	10153723		Workman Tripod, 65-ft (20 m) winch, galvanized cable, 50-ft (16 m) Lynx Rescuer, ANSI
	10153724		Workman Tripod, 65-ft (20 m) winch, galvanized cable, 50-ft (16 m) Dynevac II, ANSI
	10153725		Workman Tripod, 65-ft (20 m) winch, galvanized cable, 50-ft (16 m) Lynx Rescuer, CSA
	10153726		Workman Tripod, 65-ft (20 m) winch, galvanized cable, 50-ft (16 m) Dynevac II, CSA
	10105271	2	Confined Space Entry Kit with Lynx Hoist and Lynx Rescuer, 50'
REPLACEMENT PARTS AND ACCESSORIES	10105612		Leg base support strap
	10089207		Carabiner
	506222		Pulley
	10011744		Lynx Rescuer, 50'
	10013077		Replacement key for Lynx Rescuer
	10016569		Workman Winch, 65', stainless steel
	506232		Lynx Rescuer mounting bracket
	10105656		Tripod duffel bag
	507151		Hoist/Rescuer carrying bag

Gravity Dyna-Line® Temporary Synthetic Horizontal Lifeline



Designed for easy installation and removal, the Dyna-Line Horizontal Lifeline (HLL) is the temporary horizontal lifeline system created for a wide range of applications. Can be mounted to any suitable 5,000-pound 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. The Dyna-Line is the ultimate system for your crews.

- Highly visible 12-strand red rope will not hockle and minimizes fall distance due to its low stretch properties
- Can be used with any suitable 5000 lb. rated anchorage
- Single-Worker or Two-Worker system
- Load indicator on the Single-Worker kit and an energy absorber on the Two-Worker system clearly indicates that the system has seen fall arrest forces and should be removed from use
- Can be rigged using many standard components, reducing the need for special or engineered equipment
- Lengths up to 200 ft. System comes in a handy bucket for lengths up to 60 ft.

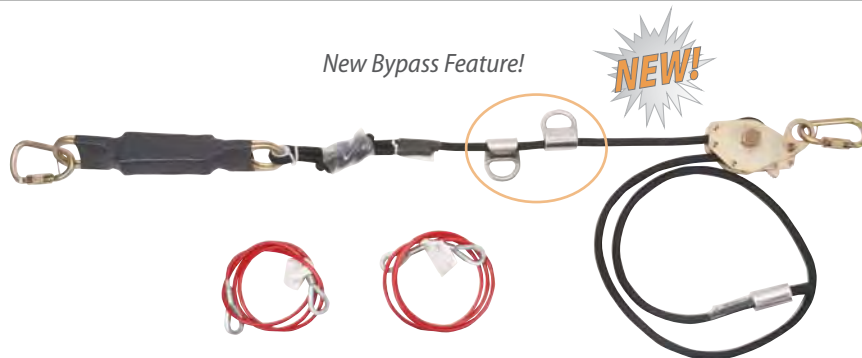
Dyna-Line Rope HLL Minimum Clearance Required Below Working Surface				
Line Length	1-Worker System		2-Worker System	
	6' Lanyard	SRL	6' Lanyard	SRL
10 ft	14'10"	12'5"	15'10"	13'2"
20 ft	15'9"	13'8"	17'2"	14'9"
30 ft	16'10"	15'1"	19'4"	16'6"
40 ft	18'	16'4"	21'4"	18'3"
50 ft	19'3"	17'6"	23'2"	20'1"
60 ft	20'6"	18'9"	25'1"	22'

- Clearances based on Lifeline 4' above working surface
- Calculations based on tests using 220 lb test torso

DYNA-LINE TEMPORARY HORIZONTAL LIFELINE <i>For single worker</i>	10013150	Dyna-Line Temporary HLL for single worker, 30' rope (9m), without bypass
	10013151	Dyna-Line Temporary HLL for single worker, 60' rope (18m), without bypass
	10022826	Dyna-Line Temporary HLL for single worker, 200' rope (61m), without bypass
DYNA-LINE TEMPORARY HORIZONTAL LIFELINE <i>For two workers</i>	10150413*	Dyna-Line Temporary HLL for two workers, 30' rope* (9m), with bypass
	10150414*	Dyna-Line Temporary HLL for two workers, 60' rope* (18m), with bypass
	10150415*	Dyna-Line Temporary HLL for two workers, 100' rope* (30m), with bypass
	10013152*	Dyna-Line Temporary HLL for two workers, 30' rope* (9m), without bypass
	10013153*	Dyna-Line Temporary HLL for two workers, 60' rope* (18m), without bypass
	10019085*	Dyna-Line Temporary HLL for two workers, 100' rope* (30m), without bypass
	10022827*	Dyna-Line Temporary HLL for two workers, 200' rope* (61m), without bypass

* Includes anchor straps

Gravity Sure-Line™ Temporary Synthetic Horizontal Lifeline



SureLine Temporary Horizontal Lifeline for Two Workers
Part No. SHL1009060BLK

Designed for quick and easy installation at temporary work sites, the Sure-Line Horizontal Lifeline (HLL) is suspended between two approved anchor points to provide worker fall protection during horizontal movement. This lightweight system is rated for two people.

- Incorporates a combination clamp/thimble that allows for effortless tensioning of the lifeline
- Available in 20 ft, 40 ft, or 60 ft lengths in two models (with and without turnbuckles)
- Includes an integral energy absorber

SureLine Rope HLL
Minimum Clearance Required Below Working Surface

Line Length	1-Worker System		2-Worker System	
	6' Lanyard	SRL	6' Lanyard	SRL
10 ft	14'3"	12'5"	14'7"	13'2"
20 ft	15'6"	13'9"	17'	15'
30 ft	17'1"	15'2"	19'4"	16'7"
40 ft	18'6"	16'5"	21'8"	18'4"
50 ft	20'	17'8"	24'2"	20'3"
60 ft	21'5"	19'1"	26'	22'2"

- Clearances based on Lifeline 4' above working surface
- Calculations based on tests using 220 lb test torso

SURELINE TEMPORARY HORIZONTAL LIFELINE	10150423	SureLine Temporary HLL, 40' (11m) black rope, with bypass
	10150424	SureLine Temporary HLL, 60' (11m) black rope, with bypass
	SHL1009035BLK	SureLine Temporary HLL, 35' (11m) black rope, without bypass
	SHL1009060BLK	SureLine Temporary HLL, 60' (18m) black rope, without bypass



Bypass Shuttles allow users to pass each other on the same system while maintaining 100% tie-off.

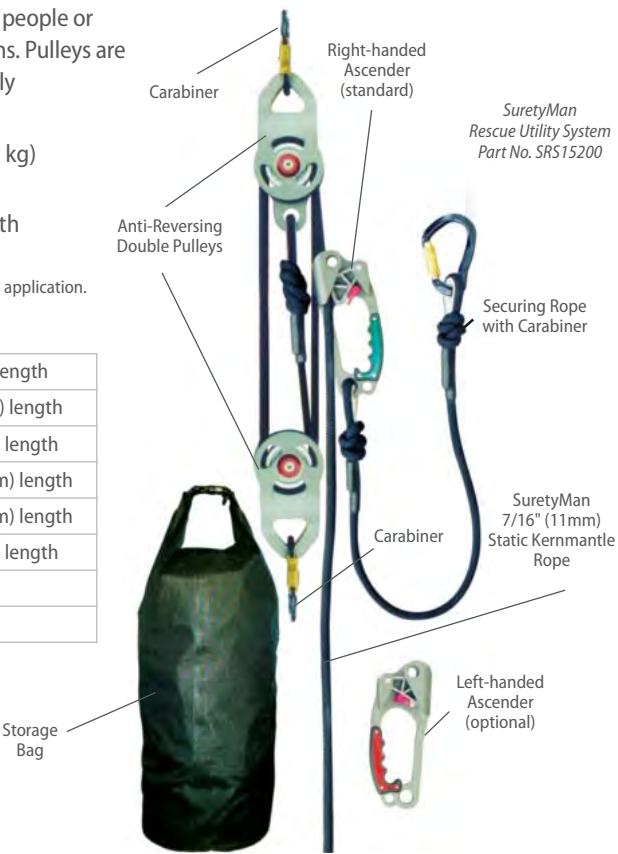
SuretyMan Rescue Utility System

The SuretyMan 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 17 pounds (7.7 kg)
- Rated capacity of 600 pounds (272 kg) for personnel and materials
- Offers a standard rope length of 200 feet (66m) with a maximum rope length of 800 feet (267m)

NOTE: Due to 4:1 mechanical advantage, user should order system with 4 times the rope necessary for the application. For example, a 50' application requires 200' of rope.

SURETYMAN RESCUE UTILITY SYSTEM	SRS15200	2	SuretyMan Rescue Utility System, 200' (61m) length
	SRS15300		SuretyMan Rescue Utility System, 300' (91.4m) length
	SRS15400		SuretyMan Rescue Utility System, 400' (122m) length
	10093608		SuretyMan Rescue Utility System, 500' (152.4m) length
	10033360		SuretyMan Rescue Utility System, 600' (182.9m) length
	10101135		SuretyMan Rescue Utility System, 800' (272m) length
	10037101		Left-hand ascender with securing rope
	10035698		Right-hand ascender with securing rope



Bucket Truck Evacuation Kit

The Bucket Truck Evacuation Kit was created to provide all necessary equipment to allow a worker to safely evacuate an aerial bucket that has become inoperative.

BUCKET TRUCK EVACUATION KIT	SKITSMT001	Bucket Truck Evacuation Kit
	Bucket Truck Evacuation Kit includes:	
	SRB430205	#2 Rope Bag
	SCE405010	10-ft Synthetic Ladder with Swivel Snaphook
	SSB22040	Boom Anchor Strap
	SDC726075	Anthron system, which includes anthron device, carabiners (2), 75' (22m) 7/16" rope





www.msasafety.com/msau

What is MSA-U?

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

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




The screenshot shows the MSA-U Training Center web application. At the top, there is a navigation bar with the MSA-U logo, the text 'MSA-U TRAINING CENTER', and the MSA logo with 'The Safety Company' tagline. Below the navigation bar, there is a 'Welcome!' message and links for 'Home | My Account | Logout'.

The main content area is divided into several sections:

- My Courses:** A list of courses including 'MSA-U TRAINING CENTER', 'Confined Space - Tech, Apps & Stride', 'Workman Web Personal Fall Limiting Fall Prot.', 'Advantage 420 Respirator - Parts, Features & Use', 'ALTAIR 4 MultiGas Detector - EMI', 'ALTAIR 4 MultiGas Detector - Care & Use', and 'ALTAIR 4 MultiGas Detector - P&B'.
- Course categories:** A list of categories including 'MSA-U', 'Air-Purifying Respirators', 'CBRNE Detection', 'Fall Protection Equipment', 'Head Protection', 'Permanent Gas & Flame Detection', 'Portable Gas Detection', 'Supplied Air Respirators', 'Thermal Imaging Cameras', and 'V - Retired Products'.
- My Certificates/Training:** A section with links for 'View Certificates (4 new 10/26/11)' and 'Historical Records'.
- NOTICE:** A green notice box stating: 'In order to receive credit for passing a course and to view/print the certificate, you must click "get certificate" after clicking on the certificate image within the course.' Below this, it says: 'Once that step is complete the certificate remains available to view/print by clicking on the "View Certificates" link within the "My Certificates/Training" block shown above.'
- Search:** A search bar with a 'Go' button.
- Training News:** A section with a 'New' icon and a link to 'MSA Link Pro Software Series: Comfo Classic Half-Mask Respirator - Care & Use; TransAir Escape Respirators - Care & Use'.
- Calendar:** A calendar for March 2011, showing the days of the week and the dates.
- Follow Us:** A section with social media icons for Facebook, YouTube, and Twitter.

At the bottom of the page, there is a footer with the text 'Home My Account Logout' and '© MSA 2011. All Rights Reserved'.

Part Number Index

10003213.....81	10034028.....31	10051288.....11	10068152.....9, 10	10075921.....15	10087429.....57	10095745.....9	10107813.....18
10004291.....59	10034029.....31	10052744.....20	10068195.....10	10076124.....75	10087436.....59	10095746.....9	10107814.....18
10006468.....80	10034031.....31	10052745.....20	10069894.....24	10077489.....74	10087895.....16	10095748.....9	10107815.....18
10008179.....62	10034032.....31	10052776.....11	10070423.....73	10077490.....72	10087897.....16	10095800.....20	10107816.....18
10008292.....19	10034035.....31	10052777.....11	10070424.....73	10077571.....72	10088065.....77	10095801.....20	10107817.....18
10008293.....19	10034088.....31	10052778.....11	10070431.....73	10077572.....72	10088067.....77	10095802.....20	10107821.....17
10008906.....11	10034097.....31	10052779.....11	10070432.....73	10077573.....72	10088072.....77	10095803.....20	10107822.....17
10008907.....11	10034150.....8	10052780.....11	10070439.....73	10077853.....73	10088077.....77	10095804.....20	10107823.....17
10008908.....11	10034151.....8	10052781.....11	10070440.....73	10077855.....73	10088099.....23, 24	10095805.....20	10107853.....78
10008909.....11	10034152.....8	10054402.....70	10070916.....62	10078469.....9	10088107.....12	10095806.....20	10108138.....18
10010420.....7, 13	10034153.....8	10054403.....70	10070917.....63	10079966.....58	10088109.....12	10095807.....20	10108493.....14
10010421.....7, 13	10034154.....8	10054719.....70	10071231.....10	10080454.....9	10088110.....12	10098031.....55	10108494.....12
10011744.....85	10034155.....8	10054720.....70	10071334.....25	10080455.....9	10088121.....12	10098032.....55	10108495.....14
10012167.....22	10034184.....11	10054761.....70	10071335.....25	10080456.....9	10088132.....12	10098855.....26	10108496.....16
10012530.....19	10034966.....31, 34	10054762.....70	10071336.....25	10081098.....14	10088134.....12	10101135.....88	10108545.....15
10013077.....85	10034967.....31, 34	10054790.....14	10071337.....25	10081099.....14	10088135.....12	10102002.....85	10108547.....15
10013150.....86	10035698.....88	10054791.....14	10071338.....25	10081100.....14	10088136.....12	10102182.....4	10108549.....15
10013151.....86	10037101.....88	10054792.....14	10071340.....25	10081114.....9	10088246.....78	10102183.....4	10108561.....15
10013152.....86	10037648.....15	10054793.....14	10071361.....25	10081115.....9	10088247.....78	10102184.....4	10108563.....15
10013153.....86	10037650.....15	10056763.....78	10071362.....25	10081116.....9	10088248.....78	10102191.....55	10108565.....15
10016569.....85	10037652.....15	10057420.....29	10071363.....25	10081117.....9	10088253.....76	10102182.....26	10108573.....5, 9
10017931.....80	10038845.....60	10057441.....29	10071364.....25	10081171.....14	10089205.....84	10103864.....9	10108574.....5, 9
10017933.....80	10041517.....69	10057442.....29	10071688.....74	10081570.....82	10089207.....84, 85	10104793.....79	10108575.....5, 9
10019085.....86	10041591.....69	10057443.....29	10072472.....75	10081594.....82	10089209.....84	10105271.....85	10108576.....5, 9
10021292.....29	10041592.....69	10057444.....29	10072473.....75	10082166.....58	10091352.....10	10105612.....85	10108577.....5, 9
10022826.....86	10041595.....69	10057445.....29	10072474.....75	10082167.....58	10091952.....13	10105656.....85	10108578.....5, 9
10022827.....86	10041599.....69	10057446.....29	10072475.....75	10082569.....73	10092034.....16	10105931.....68	10108592.....16
10023055.....22	10041603.....69	10057447.....29	10072478.....72	10082570.....73	10092036.....16	10105932.....68	10108593.....12
10023485.....78	10041607.....69	10058318.....29	10072479.....72	10082834.....23, 24	10092521.....25	10105933.....68	10108594.....14
10023490.....81	10041609.....69	10058319.....29	10072480.....72	10083134.....22	10092522.....25	10105935.....68	10108743.....72
10023932.....77	10041611.....69	10058320.....29	10072481.....72	10083327.....19	10092523.....25	10105940.....68	10108744.....72
10023933.....77	10041615.....69	10058321.....29	10072482.....72	10083329.....9	10093348.....79	10105941.....68	10108745.....72
10023970.....77	10042346.....8	10058322.....29	10072483.....72	10083330.....9	10093349.....79	10105942.....68	10108767.....72
10023971.....77	10042792.....81	10058323.....29	10072484.....72	10083381.....9	10093350.....79	10105943.....68	10108768.....72
10025227.....33	10042794.....81	10058324.....29	10072485.....72	10083382.....9	10093352.....79	10106268.....66	10108769.....72
10026005.....60	10043147.....74	10058326.....29	10072486.....72	10083383.....9	10093353.....79	10106270.....66	10108770.....72
10026060.....78	10043413.....15	10059671.....62	10072487.....72	10083384.....9	10093354.....79	10106281.....65	10108772.....72
10026265.....11	10043415.....15	10059903.....10	10072488.....72	10083385.....9	10093356.....79	10106282.....65	10110420.....61
10027104.....78	10043416.....15	10060101.....73	10072489.....72	10083386.....9	10093357.....79	10106379.....60	10110443.....24
10028444.....74	10043417.....15	10060102.....73	10072490.....72	10083792.....5, 9, 10	10093608.....88	10106381.....61	10110444.....24
10028995.....5	10043419.....15	10060139.....76	10072491.....72	10083793.....5, 9	10093986.....16	10106382.....63	10110445.....24
10028996.....5	10043430.....15	10060140.....76	10072492.....72	10083794.....5, 9	10093987.....16	10106383.....61	10110446.....24
10028997.....5	10043431.....15	10061123.....34	10072493.....72	10083795.....5, 9	10093988.....16	10106384.....64	10110670.....74
10028998.....10	10043433.....15	10061127.....34	10072494.....72	10083796.....5, 9, 10	10094314.....10	10106385.....64	10111358.....74
10028999.....10	10043434.....15	10061128.....34	10072495.....72	10083797.....5, 9	10094315.....10	10106935.....78	10111823.....56
10029000.....10	10045035.....26	10061229.....59	10072496.....72	10083798.....5, 9	10094316.....10	10107200.....76	10111826.....56
10029693.....65	10045936.....77	10061230.....57	10072497.....72	10083799.....5, 9	10095181.....8	10107201.....76	10111832.....56
10030608.....83	10045938.....77	10061271.....59	10072789.....83	10083800.....5, 9, 10	10095182.....8	10107202.....76	10112708.....68
10031309.....5	10046528.....24	10061272.....57	10073708.....75	10083801.....5, 9	10095183.....8	10107207.....76	10112709.....68
10031340.....5	10046570.....11	10061285.....58	10074135.....25	10083802.....5, 9	10095184.....8	10107208.....76	10112710.....68
10031341.....5	10047084.....76	10061512.....29	10074136.....25	10083803.....5, 9	10095185.....8	10107526.....18	10112741.....68
10031342.....10	10047085.....76	10061513.....29	10074137.....25	10084541.....8	10095186.....8	10107527.....18	10112742.....68
10031343.....10	10048280.....26	10061514.....29	10074819.....31	10084542.....8	10095187.....8	10107536.....17	10112743.....68
10031344.....10	10048342.....70	10061515.....29	10074820.....31	10084543.....8	10095188.....8	10107537.....17	10112744.....68
10033360.....88	10048343.....70	10061516.....29	10075204.....10	10084544.....8	10095189.....8	10107538.....18	10112745.....68
10033650.....33	10048344.....70	10061535.....57	10075205.....10	10084545.....8	10095190.....8	10107539.....18	10112758.....68
10033651.....33	10048345.....70	10063431.....74	10075206.....10	10084546.....8	10095191.....8	10107541.....18	10112759.....68
10033652.....33	10048348.....70	10063441.....74	10075207.....10	10084547.....8	10095192.....8	10107542.....18	10112772.....68
10033653.....33	10048349.....70	10063654.....70	10075904.....15	10084548.....8	10095193.....8	10107543.....18	10112773.....68
10033654.....33	10048432.....70	10063656.....70	10075905.....15	10084549.....8	10095194.....8	10107544.....18	10113157.....75
10033655.....33	10048433.....70	10065330.....9	10075908.....15	10084550.....8	10095195.....8	10107545.....17, 18	10113158.....75
10033718.....60	10049630.....9	10065849.....60	10075909.....15	10084551.....8	10095196.....8	10107546.....18	10113159.....75
10034018.....31	10050333.....24	10065850.....64	10075910.....15	10084552.....8	10095197.....8	10107602.....24	10113162.....75
10034019.....31	10051141.....24	10066739.....19	10075911.....15	10087129.....9	10095198.....8	10107603.....24	10113163.....75
10034020.....31	10051144.....24	10066740.....19	10075914.....15	10087218.....34	10095739.....9	10107741.....18	10113164.....75
10034022.....31	10051146.....24	10067469.....10	10075915.....15	10087220.....34	10095740.....9	10107779.....17	10113240.....74
10034023.....31	10051150.....24	10067470.....10	10075916.....15	10087399.....59	10095741.....9	10107780.....17	10113328.....18
10034026.....31	10051286.....11	10067491.....10	10075917.....15	10087422.....57	10095742.....9	10107811.....17	10113329.....18
10034027.....31	10051287.....11	10068129.....10	10075920.....15	10087426.....59	10095744.....9	10107812.....18	10113330.....18

10113341	10116927	10128628	10149334	471286	493064	815175	C217096
10113342	10116928	10128629	10150199	471298	493072	815176	C217097
10113343	10116929	10128630	10150200	471310	493108	815177	C217098
10113344	10117244	10128641	10150221	473284	493116	815178	C217100
10113345	10117271	10128642	10150222	473285	495853	815179	C217140
10113346	10117738	10128643	10150223	473333	495854	815180	C217374
10113347	10117750	10128644	10150413	473334	495855	815181	SCE405010
10113348	10117781	10129084	10150414	473902	495862	815182	SDC726075
10113349	10117782	10129085	10150415	475235	496075	815184	SFP2267402
10113493	10117783	10129118	10150423	475358	496081	815185	SFP2267404
10113494	10118094	10129119	10150424	475359	505088	815186	SFP2267406
10114837	10118417	10129120	415171	475360	505204	815188	SFP2267503
10115109	10118418	10129151	415172	475361	505233	815185	SFP2267504
10115110	10118419	10129152	415173	475362	505282	815356	SFP3267504
10115118	10118420	10129153	449895	475363	505318	815357	SFP3267506
10115119	10118421	10129327	454231	475364	506202	815358	SFPRS6000
10115120	10118422	10129654	454617	475365	506203	815359	SHL1009035BLK
10115141	10118425	10129659	454618	475366	506204	815361	SHL1009060BLK
10115142	10118427	10129903	454619	475367	506205	815362	SHW26
10115143	10118473	10144431	454620	475368	506222	815363	SKITSMT001
10115730	10118474	10144432	454621	475369	506232	815364	SRB430205
10115821	10118480	10144672	454622	475370	506252	815365	SRCA613
10115822	10118737	10144673	454623	475371	506259	815366	SRCA722
10115827	10118738	10144675	454626	475395	506266	815368	SRCA883
10115828	10118812	10144676	454644	475396	506308	815369	SRCC641
10115836	10118937	10144944	454665	475397	506379	815392	SRCC642
10115837	10119507	10144945	454666	475407	506572	815394	SRCC740
10115839	10119757	10144946	454668	475408	506615	815397	SRS15200
10115840	10119758	10144947	454673	476928	506632	815401	SRS15300
10115841	10119760	10144948	454730	477482	506643	815444	SRS15400
10115842	10119761	10144949	454731	477483	506673	815448	SSB22040
10115843	10119762	10144950	454732	477484	506682	815452	SWL3268704LS
10115844	10120050	10144951	454733	478454	507144	815558	
10115845	10120052	10144952	454734	480247	507151	815562	
10115846	10120108	10144953	454735	480251	696192	815565	
10115847	10120724	10144954	454736	480255	696193	815570	
10115848	10121266	10144955	457126	480259	697514	815641	
10115849	10121267	10144956	458702	480263	697550	815692	
10115850	10121268	10144957	459458	480267	802972	815696	
10115851	10121413	10144958	460862	480466	802975	815700	
10115852	10121416	10144959	460863	480468	804629	816115	
10115853	10121778	10144960	460865	480472	806462	816115-SP	
10115854	10121834	10144961	461180	480474	806463	816137	
10115855	10122507	10144962	461717	480600	806464	816287	
10115856	10122707	10147448	463111	480629	806465	816357	
10115857	10122745	10147449	463281	480631	806775	816645	
10115859	10122746	10147450	463300	480637	806776	816648	
10115860	10123079	10147471	463302	480639	806777	816651	
10115861	10124238	10149283	463942	480645	806779	816654	
10115862	10124426	10149284	463943	480671	807570	816661	
10115863	10125152	10149285	463944	484340	807586	816662	
10116452	10125153	10149286	463945	484836	807586-SP	817040	
10116453	10125177	10149287	463946	484837	808071	817590	
10116454	10125271	10149288	463947	485364	808072	818264	
10116552	10125272	10149289	463948	486258	808073	818276	
10116556	10125297	10149290	464031	488146	808074	818342	
10116557	10125298	10149305	464032	488148	808075	818343	
10116558	10125492	10149306	464033	489219	808076	818344	
10116617	10127061	10149307	464046	489353	809872	818346	
10116618	10127062	10149309	464658	489360	809872-SP	818347	
10116619	10127063	10149310	464852	489364	810829	818354	
10116627	10127064	10149311	466095	492559	810831	818355	
10116628	10127065	10149312	466204	492566	810832	88128	
10116781	10127944-SP	10149327	467386	492567	813859	9961	
10116782	10127945-SP	10149328	468096	492568	813860	C217091	
10116783	10127946-SP	10149329	469619	492790	813861	C217092	
10116924	10128625	10149330	469619-SP	492827	81390	C217093	
10116925	10128626	10149331	471218	493020	81391	C217094	
10116926	10128627	10149332	471230	493028	814053	C217095	

MSA—The Safety Company

Our business is safety. We've been the world's leading manufacturer of high-quality safety products since 1914. MSA products may be simple to use and maintain, but they're also highly-sophisticated devices and protective gear — the result of countless R&D hours, relentless testing, and an unwavering commitment to quality that saves lives and protects thousands of men and women each and every day. Many of our most popular products integrate multiple combinations of electronics, mechanical systems, and advanced materials to ensure that users around the world remain protected in even the most hazardous of situations.

Our dedication to safety has been the key to our impressive year-over-year growth. In 8 of the past 10 years we've achieved record growth numbers, with annual revenues of more than \$1 billion.

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families, and their communities may live in health throughout the world.

MSA: Because every life has a purpose.

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



ID 5555-540-MC / Apr 2014
© MSA 2014 Printed in U.S.A.

MSA Corporate Center
1000 Cranberry Woods Drive
Cranberry Township, PA 16066 USA
Phone 724-776-8600
www.MSAafety.com

U.S. Customer Service Center
Phone 1-800-MSA-2222
Fax 1-800-967-0398

MSA Canada
Phone 1-800-672-2222
Fax 1-800-967-0398

MSA Mexico
Phone 01 800 672 7222
Fax 52 - 44 2227 3943

MSA International
Phone 724-776-8626
Toll Free 1-800-672-7777
Fax 724-741-1559

Offices and representatives worldwide
For further information: