Firefighting and Rescue Products, Portable Instruments and Head Protection From MSA

AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

SCHEDULE 539 SOLUTIONS AND MORE (SAM)

GSA
FSS Contractor

MSA

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**AUTHORIZED FEDERAL
SUPPLY SCHEDULE PRICE LIST**

**SCHEDULE 539
SOLUTIONS AND MORE (SAM)**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!™, a menu-driven database system. The INTERNET address for GSA Advantage!™ is: http://www.GSAAdvantage.gov.

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules button at fss.gsa.gov

**FSC 42 FOR FIRE FIGHTING AND RESCUE EQUIPMENT
URBAN AND WILDLAND
(SINS 465–10, 465–17, 465–22 and 567–99)**

**CONTRACT NUMBER:
GS-07F-9628G**

**CONTRACT PERIOD:
June 17, 2002 through June 16, 2007**

**SUPPLEMENT AO44 EFFECTIVE
January 6, 2005**

ORDERING SOURCE:

Mine Safety Appliances Company
P.O. Box 426, Pittsburgh, PA 15230–0426
Fax: 1–800–967–0398
1–800–MSA–2222
info@MSAnet.com
www.MSAGSA.com

BUSINESS SIZE: Large

PRICES SHOWN HEREIN ARE NET (DISCOUNT DEDUCTED)

INFORMATION FOR ORDERING ACTIVITIES

1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SIN): 465-10 pp. 3-47; 465-17 pp. 48-51; 465-22 pp. 52-104; and 567–99 pp. 46-47

1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR THIS SIN (Government price based on a unit of one):

    Model/Part Number: WASHER
    P/N 10014635
    GSA Net Price (with discount applied): $0.07

1c. SERVICES UNDER THIS SCHEDULE ARE LISTED IN SIN 567–99, pp. 46-47

2. MAXIMUM ORDER*: $100,000.00
*If the "best value" selection places your order over the maximum order, identified in this catalog/ price list, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8.404.

3. MINIMUM ORDER: $100.00

4. GEOGRAPHIC COVERAGE: 48 Contiguous United States and District of Columbia

5. POINT OF PRODUCTION:

Mine Safety Appliances Company
3880 Meadowbrook Road
Murrysville, PA 15668-2937 (Westmoreland County)

Mine Safety Appliances Company
352 White Street
Jacksonville, NC 28546-6797 (Onslow County)

Mine Safety Appliances Company
1420 Mars Evans City Road
Evans City, PA 16033-9397 (Butler County)

Mine Safety Appliances Company
Rose Manufacturing, Company
2250 South Tejon Street
Englewood, CO 80110-1000 (Arapahoe County)

MSA-Surety
2115 91st Avenue
Edmonton, Alberta, Canada T6P1L1

6. BASIC DISCOUNT OR NET GOVERNMENT PRICE: The pricing shown in this schedule reflects the GSA net price (discounts have already been applied.)

7. QUANTITY DISCOUNT: None (see Maximum Order above)

8. PROMPT PAYMENT TERMS: Net 30

9a. GOVERNMENT PURCHASE CARD (GPC): GPC is accepted at or below the micro-purchase threshold

9b. GPC is accepted above the micro-purchase threshold

10. FOREIGN ITEMS: All ear muffs produced in Finland

11a. TIME OF DELIVERY: 60 days after receipt of order (ARO)

11b. EXPEDITED DELIVERY: All items in this price list are available for faster delivery on an order by order basis dependent upon availability of parts. Clause I-FSS-140-B of the contract applies. Agencies can contact contractor's representative to possibly effect faster delivery and to determine rates.

11c. OVERNIGHT & 2-DAY DELIVERY: See 11b. Expedited above.

11d. URGENT REQUIREMENTS: See 11b. Expedited above.

12. FOB POINT: Destination - Continental US

13a. ORDERING ADDRESS, TELEPHONE AND FAX NUMBER:

Mine Safety Appliances Company
P.O. Box 426
Pittsburgh, PA 15230-0426
Phone: 1-800-MSA-2222
Fax: 1–800–967–0398

13b. ORDERING PROCEDURES: For supplies and services, the ordering procedures, information on blanket purchase agreements (BPAs) and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules)

14. PAYMENT ADDRESS:

Mine Safety Appliances Company
P.O. Box 640348
Pittsburgh, PA 15264-0348

15. WARRANTY PROVISION: Commercial

16. EXPORT PACKING CHARGES: In accordance with clause F-FSS-736-A, Export Traffic Release

17. TERMS AND CONDITIONS OF GPC ACCEPTANCE: Payment by Government Purchase Card (GPC accepted without additional discount).

18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR: Self-Contained Breathing Apparatus: Certification as an MSA C.A.R.E. Technician is required to perform maintenance and repairs of MSA Self-Contained Breathing Apparatus. Please call the toll-free number to obtain course information.

Air Purifying Respirators/Gas Masks/Fall Protection Products: Not applicable.

19. TERMS AND CONDITIONS OF INSTALLATION: N/A

20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE): MSA Suggested Price List, effective 1 January 2005.

20a. TERMS AND CONDITIONS FOR ANY OTHER SOURCE: N/A

21. LIST OF SERVICE AND DISTRIBUTION POINTS: Call 1-866-MSA-1001

22. LIST OF PARTICIPATING DEALERS: N/A

23. PREVENTIVE MAINTENANCE: See data included with product.

24a. ENVIRONMENTAL ATTRIBUTES: N/A

24b. ELECTRICAL INFORMATION AND TECHNOLOGY (EIT): Compliant to Section 508

25. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER: 086673175

26. CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE: CCR registered

GENERAL HARNESS INFORMATION

A fall arrest system must always include a full body harness and means of connection between the harness and a qualified anchorage point or anchorage connector. Such connecting means may consist of a lanyard, energy (shock) absorber, fall arrester (rope grab), lifeline, self-retracting lanyard, or qualified combinations of these.

Attachment Points

FALL ARREST SYSTEMS are an assembly of components and subsystems, including the necessary connectors, used to arrest the user in a fall from a working height and suspend the user until rescue can be effected.

SUSPENSION & RETRIEVAL SYSTEMS permit workers to sit and work safely while elevated. The system is designed to raise or lower, and support a worker at an elevated work station. This system alone cannot be relied upon to provide proper fall arrest protection.

RESTRAINT SYSTEMS are an assembly of components and subsystems, including the necessary connectors, used to: (a) stabilize and partially support the user at an elevated work location and allow free use of both hands; (b) restrict the user's motion so as to prevent reaching a location where a fall hazard exists.

PERSONNEL-RIDING SYSTEMS provide a quick means of raising a user out of, or lowering a worker into, a working environment. The system supports full body weight for a short period of time, but should not be used for suspension. A retrieval system by itself may not provide all the protection a worker requires. Fall arrest and/or restraint systems may also be required.

Product Sizing

Most harnesses listed in this catalog are Standard (STD) Size. Other sizes are available for weight capacities up to 360 lbs.* Custom harnesses are available up to a 400 lb weight capacity at no additional charge (custom harnesses with weight capacities of 361–400 lbs are priced at the SXL harness size).

*360 lb weight capacity excludes all Gravity Harnesses and Derrick Harnesses. These harnesses must be custom ordered for weight capacities above 310 lbs.

Why do we have harness sizes?

Universal or One-Size-Fits-All harnesses do not offer proper fit for all users. We offer different size harnesses to provide you with the best possible fit, and optimum safety and comfort. If you have any questions on selecting the proper harness size, please contact our Customer Service Center at 1-800-672-2222.

Customized Harness Information

Customize your Pullover and Vestype Harnesses with these convenient accessories and features. These additional options must be ordered at the same time you order your Full Body Harness. (Additional charges apply.)

- **Lanyard Retainer Clip** keep lanyard neat when not in use by attaching the snaphook to this retaining clip.
- **Label Logo**—customize harnesses and lanyards with your company's logo, safety message or other important information on the harness label.

⚠ WARNING

As of January 1, 1998, OSHA prohibits the use of a body belt for fall arrest in the construction industry. A full body harness must be used for fall arrest applications.

Failure to follow this warning will violate OSHA regulations and can result in serious personal injury or death.

⚠ WARNING

Restraint Systems, Suspension Systems, and Personnel-Riding Systems must be used only for the applications for which they were designed. DO NOT rely on them to provide fall arrest or any other kind of protection.

Failure to follow this warning could result in serious personal injury or death.

SEI Certification

SEI Certification is an independent third-party certification to the ANSI Z359.1 and ANSI A10.14 standards. SEI is a leader in safety equipment certification, which provides the assurance that your equipment meets the most current quality and performance standards in the industry.

SEI
SAFETY EQUIPMENT INSTITUTE

Firefighting and Rescue Equipment from MSA
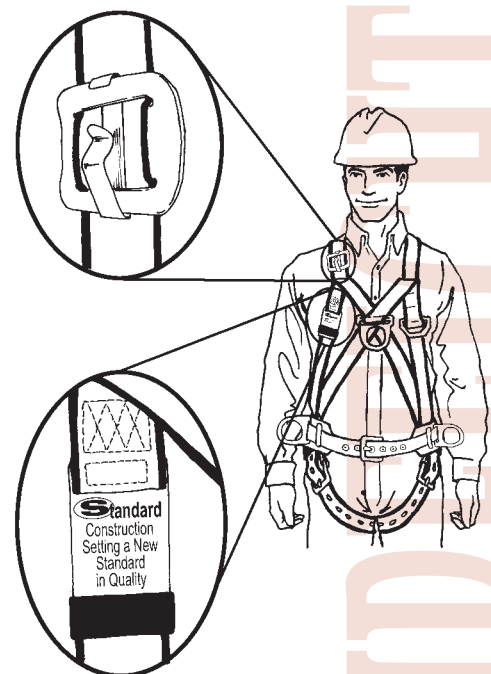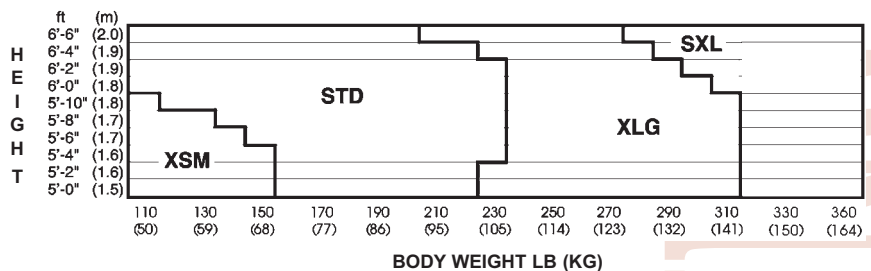
TECHNACURV™ FULL BODY HARNESS

The TechnaCurv Full Body Harness throws a curve to the ordinary harness with many new features never before seen in a full body harness:

• Curvilinear Comfort System
• Secure-Fit buckles
• Visco-Elastic Shoulder padding
• Sorbtek fabric on shoulder and sub-pelvic pads
• Innovative web design

In addition to the features above, the TechnaCurv harness is designed with downward adjusting torso straps on most models to ease adjustment. This is also the first harness on the market that allows you to order exactly the options you want, and only the options you want, through our Assemble-to-Order process. All these features combine to provide you with the most comfortable, versatile, unique, and safe harness available today. The TechnaCurv Harness meets all applicable OSHA regulations, ANSI standards, and is CSA certified.

Webbing

• Soft, Flexible webbing allows the harness to move with you as you work for increased comfort.
• An innovative pattern design offers a cool, sporty appearance that breaks the mold of the industrial styling of other harnesses.

Shoulder Pads & Sub-pelvic Pad

Sorbtek™ Fabric:

• A highly breathable, lightweight material designed to wick moisture away from the body.

Visco-Elastic Shoulder Padding:

• More comfortable than traditional foam padding, which was developed by NASA.
• Does not have memory and will not break down over time, offering superior comfort throughout the life of the harness.
• Automatically adjusts to every curve of your body
• Compression molding process allows for the incorporation of comfort ridges. These comfort ridges provide more air circulation around the padding to keep you cooler.

## The Curvilinear Comfort System features:

Curvilinear Torso Webbing

■ This patent-pending process curves the webbing around the neck area to help prevent chafing and discomfort on the neck that can be caused by some standard harnesses.

Combined with

Adjustable Y Back D-Locator Pad

■ Allows complete adjustment of the back D-ring to provide proper harness fit
■ Assists in moving the shoulder webbing away form the neck, providing additional comfort to the user.
■ Ribbed web slots in back pad allow for easy back D Ring adjustment.
■ A special polymer blend allows for optimal strength and minimal weight, giving you a lighter harness.

To provide you with total comfort!

User's Neck
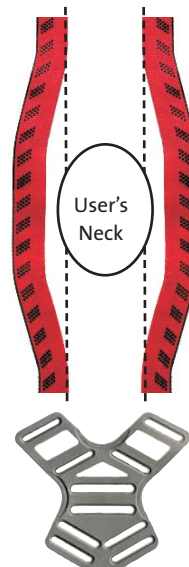
Secure-Fit Buckle

• Designed to ease donning, doffing, and adjustment.
• Single hand operation.
• Buckle release tabs move in opposite directions and are recessed inside the outer buckle dimensions to prevent accidental disengagement.
• Positive engagement windows allow you to see that the buckle is properly engaged. No need to try and listen for a "click" on a noisy job site.

Comfort Ridges

Positive Engagement Window

Sub-pelvic Pad

TechnaCurv Harness Ordering Information

All harnesses listed below are Standard Size.*

Part No.	Style	Chest Strap	Leg Straps	Pads	D-Ring(s)	Gov't Net Price
10041517	Vest	Qwik-Fit	Qwik-Fi	—	Back	$49.12
10041518	Pullover	—	Qwik-Fit	—	Back	$49.77
10041591	Vest	Qwik-Fit	Tongue Buckle	—	Back	$54.68
10041593	Pullover	—	Tongue Buckle	—	Back	$55.34
10041595	Vest	Qwik-Fit	Tongue Buckle	—	Back and Hip	$57.96
10041597	Pullover	—	Tongue Buckle	—	Back and Hip	$57.63
10041599	Vest	Qwik-Fit	Tongue Buckle	Shoulder	Back	$67.78
10041601	Pullover	—	Tongue Buckle	Shoulder	Back	$68.43
10041603	Vest	Qwik-Fit	Tongue Buckle	Shoulder	Back and Hip	$71.05
10041605	Pullover	—	Tongue Buckle	Shoulder	Back and Hip	$70.73
10041607	Vest	Qwik-Fit	Tongue Buckle		Back, Chest and Hip	$65.00
10041609	Pullover	—	Tongue Buckle		Back, Chest and Hip	$59.10
10041611	Vest Style,	Qwik-Fit	Tongue Buckle	Shoulder	Back, Chest and Hip	$78.09
10041613	Pullover	—	Tongue Buckle	Shoulder	Back, Chest and Hip	$72.20
10041615	Vest	Qwik-Fit	Secure-Fit, Sub-pelvic	Shoulder	Back, Chest and Hip	$100.85
10041617	Pullover	—	Secure-Fit, Sub-pelvic	Shoulder	Back, Chest and Hip	$94.96

Additional sizes available. Contact MSA Customer Service Center at 1-800-MSA-2222 for full details.

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Firefighting and Rescue Equipment from MSA

TECHNACURV TOWER HARNESS

In addition to the exciting features of the TechnaCurv Harness, the TechnaCurv Tower Harness:

• Utilizes variable width webbing in the sub-pelvic area to increase comfort and support when work positioning

• Incorporates an integral body belt and a removable saddle

  – Body Belt and saddle are constructed using a dual durometer pad and Sorbtek fabric for ultimate comfort

  – Body Belt includes two side D-rings and two accessory rings

  – Removable Saddle includes two side D-rings; saddle height is adjustable

• D-ring position is adjustable

Style	Part No.	Gov't Net Price	Leg Straps	Pads	D-Ring(s)
Vestype	10048344	$186.64	Secure-Fit	Shoulder, Sub-pelvic	Chest and Hip
Pullover	10048342	$195.81	Secure-Fit	Shoulder, Sub-pelvic	Chest and Hip
Vestype	10048348	$163.88	Tongue Buckle	Shoulder	Chest and Hip
Pullover	10048346	$173.05	Tongue Buckle	Shoulder	Chest and Hip
Vestype	10048432	$195.81	Quik-Fit	—	Chest and Hip
Pullover	10048350	$154.39	Quik-Fit	—	Chest and Hip

All harneeses listed above are Standard Size.

TECHNACURV CONSTRUCTION HARNESSES NEW!

TechnaCurv Construction Harnesses offer all of the exciting features of the TechnaCurv Harness with the added flexibility of incorporating a tool belt. There are two construction harnesses to choose from:

• With integral belt that includes a Dual-Durometer back pad for superior comfort

• With Belt Loops for total flexibility of adding any belt of your choice

Vestype	Gov't Net Price	Chest Padding	Buckle	Leg Buckles	Belt Loops	D-Ring(s)
10053001	$71.72	Shoulder	Qwik-Fit	Qwik-Fit	—	Back
10053002	$81.04	Shoulder	Secure-Fit	Qwik-Fit	—	Back
10053003	$74.98	Shoulder	Qwik-Fit	Tongue	—	Back
10053004	$86.61	Shoulder	Secure-Fit	Tongue	—	Back
10053005	$100.69	Shoulder	Secure-Fit	Secure-Fit	—	Back
10053006	$74.49	Shoulder	Qwik-Fit	Qwik-Fit	—	Back and Hip
10053007	$84.32	Shoulder	Secure-Fit	Qwik-Fit	—	Back and Hip
10053008	$80.06	Shoulder	Qwik-Fit	Tongue	—	Back and Hip
10053009	$89.88	Shoulder	Secure-Fit	Tongue	—	Back and Hip
10053010	$103.96	Shoulder	Secure-Fit	Secure-Fit	—	Back and Hip
10054402	$110.02	Shoulder	Qwik-Fit	Tongue	Integral Belt	Back and Hip
10054403	$120.50	Shoulder	Secure-Fit	Tongue	Integral Belt	Back and Hip
10054719	$144.07	Shoulder	Secure-Fit	Secure-Fit	Integral Belt	Back and Hip

All harneeses listed above are Standard Size and include saddle.

Belt Loops

"NO METAL ABOVE THE WAIST" TECHNACURV HARNESS NEW!

This harness was designed to keep all metal below the waist to reduce the potential for arc flashes. This potential is further reduced by adding the plastic covers over the metal components of the harness. In addition to the many features of the TechnaCurv Full Body Harness, the No Metal Above the Waist TechnaCurv Harness adds the following features:

• Fabric dorsal connector

• Hardware covers on metal components

• Meets or exceeds OSHA, ANSI Z359.1, and is CSA certified

• Fabric positioning loops

• Approximate weight is just 3.5 lbs

Desciption	Part No.	Gov't Net Price
TechnaCurv, no metal above waist, XSM	10050098	$69.24
TechnaCurv, no metal above waist, STD	10050125	$69.24
TechnaCurv, no metal above waist, XLG	10050126	$71.37
TechnaCurv, no metal above waist, SXL	10050127	$69.64

MSA

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR TECHNACURVE FULL BODY HARNESS

Assemble-to-Order (ATO) System: You Make the Choices

The ATO System makes it easy to "custom order" a Technacurve Full Body Harness, configured exactly the way you want it.

Prices are 34.51% discount off 2005 Price List.

- ATO orders ready to ship in 2–5 days after receipt of order.
- Harnesses ordered using the ATO System are non-returnable.
- If a Vest-Style Harness with a Chest D-ring is selected, the Secure-Fit Buckle is not available as an option for the Chest Strap. (All Tower Style Harnesses include a Chest D-ring.)
- If the CSA approval option is selected, the Dyna-Brake option is not available as an integral shock absorber.
- Tower Harness Styles include back pad, tool belt and saddle. (Tool Belt options listed in ATO are not available on Tower Harness.)
- Only D-ring Configuration Options 3 and 4 are available on the Tower Harness Style.

Total Technacurve List Price

$ _____ = _____

All Pricing in U.S. Dollars

Quantity

Part Number

A-NGH-

Firefighting and Rescue Equipment from MSA

FP PRO™ HARNESSES

FP Pro Harness

The FP Pro Harness provides comfortable protection even after long hours of use in extreme conditions due to its super lightweight features and durable webbing. The harness is available in cross-chest and vest styles, with optional hip D-rings for work positioning, and fits a wide range of body types and sizes. Color-contrasting thigh and torso straps simplify donning.

The FP Pro Harness has the following features :

- Bright red polyester webbing for high visibility
- Lightweight design for increased comfort
- Meets ANSI A10.14 and OSHA standards
- CSA certified

Description	Leg Straps	D-Ring Back	Hip	Part No.	Gov't Net Price
Cross-Chest style, Standard size	Qwik-Fit	1	0	415842	$26.93
Cross-Chest style, X-Large size	Qwik-Fit	1	0	415844	$28.28
Cross-Chest style, Standard size	Qwik-Fit	1	2	415944	$34.01
Cross-Chest style, X-Large size	Qwik-Fit	1	2	415946	$35.72
Vest style, Standard size	Qwik-Fit	1	0	415947	$30.06
Vest style, X-Large size	Qwik-Fit	1	0	415949	$31.25
Vest style, Standard size	Qwik-Fit	1	2	415950	$37.56
Vest style, X-Large size	Qwik-Fit	1	2	415952	$39.44
Cross-Chest style, Standard size	Tongue Buckle	1	0	10033830	$33.67
Cross-Chest style, Standard size	Tongue Buckle	1	2	10033833	$40.67
Vest style, Standard size	Tongue Buckle	1	0	10033836	$36.51
Vest style, Standard size	Tongue Buckle	1	2	10033839	$44.30

Additional sizes available. See Sizing Chart on p. 3.

FP Pro Harness with Integral Tool Belt

- Kit includes harness with tool belt support straps and modular tool belt
- 1 kit part number simplifies ordering

Description	D-Rings Back	Hip	Part No.	Government Net Price
Cross-Chest style w/tool belt support straps, Std size	1	0	10030850	$31.56
Vest style w/tool belt support straps, Std size	1	0	10030851	$34.04
Cross-Chest style Kit w/modular tool belt, Std size	1	0	10030852	$121.15
Vest style Kit w/modular tool belt, Std size	1	0	10030853	$127.70

Additional sizes available. See Sizing Chart on p. 3.

Modular Tool Belt

Description	Part No.	Government Net Price
Modular general accessory bag	10028398	$9.82
Modular tool bag belt slip, standard length	10028400	$1.96
Modular tool bag, left side	10028401	$24.98
Modular tool bag, right side	10028402	$24.98
Large black polyester belt for modular tool bags	10029231	$11.65

Additional belt sizes available. See Chart on p. 3.

FP Pro Construction Vestype™ Harness with Integral Back Pad & Belt

The FP Pro Construction Harness provides comfortable protection even after long hours of use in extreme conditions due to its super lightweight features and durable webbing. Additional features now available include:

- 6" Integral Back Pad provides additional comfort and support for work positioning applications
- 1-3/4" removable belt allows for easy attachment of tool pouches
- Covered label pack to protect labels from the environment and increase service life

Part No.	Gov't Net Price	Size	Leg Straps	D-rings Back	Hip
10043033	$66.30	STD	tongue	1	2
10057086	$66.30	XS	tongue	1	2
10057087	$66.30	XL	tongue	1	2
10057089	$72.93	Super XL	tongue	1	2

Web retainer collar to keep excess webbing neat

Easy to use adjuster buckles

Qwik-Fit leg straps allow for easy adjustment

Strong, durable, lightweight webbing

Color contrasting torso & leg straps to simplify donning

Single pass friction belt with modular tool bags

Firefighting and Rescue Equipment from MSA

FP TRADES™ HARNESSES

Thermatek™ Harness

The Thermatek Harness is a Vest-Style Harness with many features, including:

- High visibility green webbing
- Kevlar (60%) / Nomex (40%) blend webbing that is resistant to chemicals, weld splatter, and other high heat applications
- Bright, contrasting colors of webbing and stitching allows for easier inspection
- Qwik-Fit Leg Straps for easy donning
- Meets ANSI A10.14 and OSHA standards

Description	Size	Part No.	Government Net Price
D-Rings: Back & Hip; Leg Straps: Qwik-Fit	STD	10020062	$143.24
D-Rings: Back & Hip; Leg Straps: Qwik-Fit	SXL	10020065	$163.82
D-Rings: Back & Hip; Leg Straps: Qwik-Fit	XL	10020066	$154.46
D-Rings: Back & Hip; Leg Straps: Qwik-Fit	XSM	10020067	$136.19

No-Metal-Above-the-Waist Harness

The "No-Metal-Above-the-Waist" Harness has the same features as the classic Pullover Harness, plus additional features, including:

- Easy donning and doffing
- Integral Dyna-Brake® Shock Absorber at the Back D-ring location
- Available with positioning loops
- Meets ANSI Z359.1, ANSI A10.14, and OSHA standards
- Single adjustment point below the waist

Description	Size	Leg Straps	Positioning Loops	Attachment Points Back	Attachment Points Hip	Part No.	Gov't Net Price
Nylon, integral Dyna-Brake shock-absorber,	STD	Tongue Buckle	—	1	0	415838	$67.24
Nylon, integral Dyna-Brake shock-absorber,	XLG	Tongue Buckle	—	1	0	501390	$60.04
Nylon, integral Dyna-Brake shock-absorber,	STD	Tongue Buckle	2	1	0	10022571	$62.21
Nylon, integral Dyna-Brake shock-absorber,	XLG	Tongue Buckle	2	1	0	10022572	$62.21
Nylon, back web loop D-ring,	STD	Tongue Buckle	2	1	0	10022573	$64.18
Nylon, integral Dyna-Brake shock-absorber,	XLG	Tongue Buckle	2	1	0	10022574	$64.83

PremAire® Rescue Harness

The PremAire Rescue Harness is a Vest Style harness designed to integrate with the MSA PremAire Breathing Apparatus. The harness utilizes two steel clips and two Velco straps for quick attachment of the PremAire Belt. The steel clips and Velcro straps are positioned to provide proper weight distribution of the breathing apparatus.

- Available in Kevlar or polyester webbing
- Kevlar version offers excellent chemical and heat resistance
- Contrasting webbing and stitching colors for easy inspection
- Meets ANSI Z359.1 and applicable OSHA standards

Material	Leg Straps	Size	Part No.	Gov't Net Price
Kevlar	Qwik-Fit	STD	10025330	$158.88
Kevlar	Qwik-Fit	XSM	10025299	$151.97
Kevlar	Qwik-Fit	XLG	10025331	$169.24
Kevlar	Qwik-Fit	SXL	10025332	$179.60

Material	Leg Straps	Size	Part No.	Gov't Net Price
Polyester	Tongue buckle	STD	10026113	$62.17
Polyester	Tongue buckle	XSM	10026112	$62.17
Polyester	Tongue buckle	XLG	10026114	$62.17
Polyester	Tongue buckle	SXL	10026115	$65.63

Additional sizes available. See Sizing Chart on p.3.

Tactical™ Harness

The Tactical Harness has the same great features as the Classic Pullover harness including easy donning and doffing, great comfort, and sub-pelvic support. Available with tongue buckle leg straps, the Tactical Harness has many additional features including waist level rescue loop. Other features include:

- Black webbing to decrease visibility
- Gray stitching for easy inspection
- Black vinyl-coated hardware connection points (back D-ring, chest D-ring, hip D-rings, and tongue buckles on leg strap) for sound deadening
- Wide sub-pelvic straps for improved comfort in suspension
- Rescue loop for controlled upright and inverted descents
- Meets ANSI Z 359.1 and applicable OSHA standards

Description	Size	Part No.	Government Net Price
Tactical Harness	STD	10021371	$91.68
Tactical Harness	XSM	10021372	$91.68
Tactical Harness	XL	10021373	$91.68
Tactical Harness	SXL	10021374	$91.68

Description	Size	Part No.	Government Net Price
SWAT Harness	STD	10023109	$91.68
SWAT Harness	XSM	10023180	$91.68
SWAT Harness	XL	10023181	$91.68
SWAT Harness	SXL	10023182	$91.68

MSA

FP Trades Harness & Tool Belt Kit

MSA FP Trades Harnesses and Occidental Leather tool belts combine the best available products on the market into one versatile, easy to order kit. The kits include a polyester Vestype harness with tool belt support straps, and your choice of Leather Occidental Tool Belts or Nylon/Leather Occidental Tool Belts. Meets applicable ANSI and OSHA standards. Other features of the harness kits include:

- Comfortable harness shoulder pad
- Convenient harness lanyard clip
- Highly visible medical information card
- Single part number for simplified ordering

Description	Size	Part No.	Government Net Price
Vestype Harness with XL Leather tool belt	STD	10028433	$216.11
Vestype Harness with LGE Leather tool belt	STD	10028434	$216.11
Vestype Harness with MED Leather tool belt	XSM	10028432	$216.11
Vestype Harness with XXL Leather tool belt	XLG	10028435	$213.49
Vestype Harness with XL Nylon/Leather tool belt	STD	10028429	$189.91
Vestype Harness with LGE Nylon/Leather tool belt	STD	10028430	$189.91
Vestype Harness with MED Nylon/Leather tool belt	XSM	10028428	$189.91
Vestype Harness with XXL Nylon/Leather tool belt	XLG	10028431	$187.29

For harness sizes see Sizing Chart on p 3. For belt sizes see Classic Harness Belt Size Chart on p. 11.
Also available in Leather tool belt with nylon pouches.

FP Trades Harness Kits proudly feature tool belts from:

FP Trades Harness & Tool Belt Kit Replacement Components

Description	Part No.	Government Net Price
SXL Vestype Harness	10028363	$62.52
XLG Vestype Harness	10028364	$59.05
STD Vestype Harness	10028365	$58.48
XSM Vestype Harness	10028366	$55.04
Shoulder Pad	10028444	$4.68
XXL Nylon/Leather tool belt	10028390	$128.58
XLG Nylon/Leather tool belt	10028391	$128.58
LGE Nylon/Leather tool belt	10028392	$130.98
MED Nylon/Leather tool belt	10028393	$128.58

Description	Part No.	Government Net Price
XXL Leather tool belt	10028394	$154.30
XLG Leather tool belt	10028395	$154.30
LGE Leather tool belt	10028396	$154.30
MED Leather tool belt	10028397	$154.30
Medical Information Label Kit (includes medical information label and medical information alert sticker)	10029028	$1.38

medical information label (left) and medical information alert sticker (right)

FP RESCUE™ HARNESSES

Vulcan™ Rescue Harness

The Vulcan Rescue Harness design allows for rescue capabilities in applications that may include hazardous environments such as: smoke, gases, fumes and the possibility of a fall. Capable of integrating with the MSA Vulcan SCBA Backplate, the Vulcan Rescue Harness permits the user to wear a single harness with a MSA SCBA for total comfort.

The Vulcan Rescue Harness features:

- Side entry vest style harness for ease of donning
- Tongue buckle leg straps for quick and easy adjustment
- Front, back & shoulder D-rings
- Front belay loop for rescue/rapelling
- Attachment points for Vulcan SCBA unit
- Meets ANSI Z359.1, ANSI A10.14, and all applicable OSHA regulations
- CSA and NFPA certified

Description	Waist	Height	Part No.	Government Net Price
Vulcan Rescue Harness, size Standard	30" - 44"	5'1" - 7'3"	10013403	$235.76
Vulcan Rescue Harness, size X-Small	25" - 40"	4'4" - 6'7"	10013653	$225.93
Vulcan Rescue Harness, size X-Large	40" - 53"	5'1" - 7'3"	10013654	$235.76
Vulcan Rescue Harness, size Super X-Large	48" - 60"	5'1" - 7'3"	10013655	$239.03

Firefighting and Rescue Equipment from MSA

FP CLASSICS™ HARNESSES

Pullover® Harnesses

The patented Rose Pullover Harness incorporates true sub-pelvic support for incredible comfort while suspending. The Rose Pullover Harness features:

- Single point of adjustment for easy donning and doffing
- Molds to body shape for comfort all day long
- Meets ANSI Z359.1, ANSI A10.14, and OSHA requirements
- Available in a variety of D-Ring Configurations

Vestype™ Harnesses

The Rose Vestype Harness is a traditional harness style, worn like a vest. The Vestype Harness features:

- 3 points of adjustment for easy donning and doffing
- True sub-pelvic support
- Meets ANSI Z359.1, ANSI A10.14, and OSHA requirements
- Leg Straps available in Tongue Buckle and Qwik-Fit™ Configurations
- Available in a variety of D-Ring Configurations

Parachute-Style Harness

- Constructed of soft 2" wide pebble weave nylon webbing
- Waist belts available in single-pass friction or tongue buckle configuration
- Thigh straps connect with friction buckles
- Back and Shoulder D-rings are standard
- Hip D-rings are available
- Meets ANSI A10.14 and OSHA standards

Classic Pullover Harness

Classic Pullover & Vestype Harness Ordering Information

All harnesses listed here are Standard (STD) size. Other sizes are available. See Sizing Chart on p. 11.

Style Pullover	Style Vestype	Webbing Nylon	Webbing Poly	Leg Buckles Friction	Leg Buckles Tongue	Leg Buckles Qwik-Fit	D-Rings Back	D-Rings Chest	D-Rings Hip	D-Rings Shoulder	Part No.	Gov't Net Price
X		X		X			1	0	2	0	502717	$45.41
X		X		X			1	0	0	0	502720	$43.35
X		X			X		1	1	2	0	502733	$52.63
X			X		X		1	1	2	0	502734	$52.63
X		X			X		1	0	0	0	502736	$47.94
X			X		X		1	0	0	0	502737	$47.47
X		X			X		1	0	2	0	502740	$50.91
X			X		X		1	0	2	0	502741	$50.91
X		X			X		1	1	2	2	502742	$61.92
X		X			X		1	1	0	0	502744	$49.19
X					X		1	1	0	0	502745	$49.19
	X				X		1	0	0	0	502753	$49.53
	X	X			X		1	0	0	0	502757	$49.53
	X	X			X		1	0	2	0	502765	$52.98
	X	X			X		1	1	0	0	502769	$56.84
	X	X			X		1	1	2	0	502771	$59.53
	X		X			X	1	0	0	0	502790	$41.97
	X	X				X	1	0	0	0	502791	$42.02
X		X				X	1	1	2	0	502800	$47.47
X		X				X	1	1	0	0	502822	$40.60
X		X				X	1	0	0	0	502824	$39.90
X		X				X	1	0	2	0	502826	$43.69
	X	X				X	1	1	2	0	502843	$51.73
	X	X				X	1	0	2	0	502847	$45.85

Classic Vestype Harness

Classic Parachute Harness Ordering Information

Nylon	Waist Belt	Thigh Straps	D-Rings Back	D-Rings Chest	D-Rings Hip	D-Rings Shoulder	Part No.	Gov't Net Price
X	friction buckle	friction buckle	1	0	0	2	502525	$65.10
X	friction buckle	friction buckle	1	0	2	2	502618	$78.59
X	friction buckle	friction buckle	1	0	0	2	502644	$78.59

Classic Parachute Harness

Classic Tradesman™ Harness

Great for prolonged work positioning and comfort when carrying heavy tool loads. Available as a kit or as individual components. Kits include Harness, either Vestype or Pullover, Custom Back Pad, Body Belt, and Tool Belt Support Straps. Meets applicable ANSI and OSHA standards. Models with CSA part numbers are CSA certified.
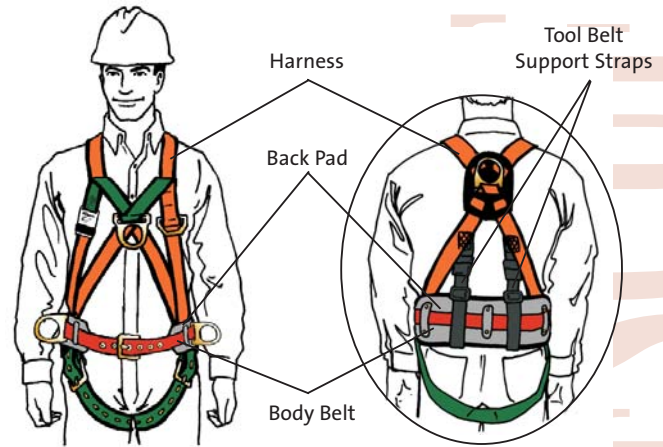
- Tradesman Harness Components
  All these components are included in the Tradesman Harness Kit.
  Back Pad and Body Belts may also be ordered separately.

Harness Type	Leg Buckles	D-Rings Back	D-Rings Chest	Part No.	Government Net Price
Vestype	tongue buckles	1	0	415225	$127.70
Pullover	tongue buckles	1	1	415236	$121.81

Additional harness configurations are available upon request

Part numbers for MED sizes shown. Sizes XSM, SML, LGE, and XLG are also available.

Tradesman Harness Components:
All these components come in the Tradesman Harness Kits. Back Pad and Body Belts may also be ordered separately.

Tradesman Harness Components

Description	Part No.	Government Net Price
Combination deluxe leather Back Support Pad with polyester tongue buckle Belt, small	415265	$78.59
Combination deluxe leather Back Support Pad with polyester tongue buckle Belt, medium	415264	$80.69
Combination deluxe leather Back Support Pad with polyester tongue buckle Belt, large	415263	$81.86
Combination deluxe leather Back Support Pad with polyester tongue buckle Belt, x-large	415266	$81.86
One replacement Tool Belt Support Strap for back pad (one size fits all)	507175	$3.60

Description	Small	Medium	Large	X-Large	Government Net Price
1X"polyester tongue buckle Belt	415422	415421	415420	415423	$16.17
Deluxe leather Back Support Pad, requires 1X" belt (see item above) to attach to harness	415805	415804	415803	415806	$64.18

Classic Harness Belt Size Chart

	X-Small	Small	Medium	Large	X-Large	XX-Large
Waist (inches)	26–35	32–41	36–45	40–49	44–53	50–59

Body Belt included in the Tradesman Harness Kit

Deluxe Leather Back Support Pad

Gravity™ Vest Style Harness

The Gravity Vest Style Harness design is the traditional choice for confined space rescue and fall arrest. The back D-ring ensures the user is in an up-right position, eliminating the need for shoulder D-rings and a spreader bar for confined space applications. Available in nylon, polyester, and reflective nylon. Tongue buckle leg straps available upon request. Meets ANSI Z 359.1 and OSHA standards, and is CSA certified.

Gravity™ Cross-Over Harness

The Gravity Cross-Over Harness is a multi-purpose full body harness. The unique cross-over design allows for adjustment of both the back and chest D-rings. The harness is suitable for controlled descent, positioning, ladder climbing, rescue, and fall arrest. Available in nylon, polyester, and reflective nylon. Meets ANSI Z 359.1 and OSHA standards, and is CSA certified.

Gravity Vest Style Harness

Gravity Cross-Over Harness

Gravity Harness Belt Size Chart

	XSM	SM	MED	LG	XL	XXL
Waist (inches)	26–35	32–41	36–45	40–49	44–53	50–59

Gravity Vest Style Harness Ordering Information

Nylon Harnesses are constructed with red/blue webbing, and polyester harnesses are constructed with red/black webbing. All harnesses listed below are Standard (STD) size and all harnesses with belts have a large belt. Other harness and belt sizes are available. See Harness Sizing Chart (p.11) and Gravity Harness Belt Size Chart (p.3). All harnesses listed below have Qwik-Fit chest straps.

Webbing Nylon	Polyester	Belt (Large)	Leg Buckles Tongue	Qwik-Fit	D-Rings Back	Chest	Hip	Shoulder	Part No.	Government Net Price
X				X	1	0	0	0	SSH30420-060	$41.65
X			X		1	0	0	0	SSH30425-060	$44.49
	X			X	1	0	0	0	SSH30430-064	$41.65
	X		X		1	0	0	0	SSH30435-064	$44.49
X				X	1	2	0	0	SSH30520-050	$55.66
X			X		1	2	0	0	SSH30525-000	$57.39
X				X	1	0	0	2	SSH30620-050	$53.03
	X			X	1	0	0	2	SSH30630-064	$49.65
X		X		X	1	0	2	0	SSH30720D-22	$68.76
X		X	X		1	0	2	0	SSH30725D	$68.76
X		X		X	1	1	0	0	SSH30820D	$68.38
X		X	X		1	1	0	0	SSH30825D	$82.30
	X	X		X	1	1	0	0	SSH30830C	$68.38
X		X		X	1	1	2	0	SSH31420D-22	$77.27
X		X	X		1	1	2	0	SSH31425C	$77.27

Gravity Cross-Over Harness Ordering Information

Nylon Harnesses are constructed with red/blue webbing, and polyester harnesses are constructed with red/black webbing. All harnesses listed below are Standard (STD) size and have Qwik-Fit chest straps. Other sizes are available; see sizing chart on p. 11.

Webbing Nylon	Polyester	Leg Buckles Tongue	Qwik-Fit	D-Rings Back	Chest	Hip	Shoulder	Part No.	Government Net Price
X			X	1	0	0	0	SSH70920-000	$47.83
	X	X		1	0	0	0	SSH70935-004	$51.08
X			X	1	1	2	0	SSH80920-000	$56.97
X		X		1	1	2	0	SSH80925-000	$57.52
	X		X	1	1	2	0	SSH80935-004	$56.97
X			X	1	1	0	0	SSH90920-000	$49.12
X		X		1	1	0	2	SSH90925-000	$52.57
	X		X	1	1	0	2	SSH90930-004	$49.12

HARNESS ACCESSORIES

Miscellaneous Harness Accessories

A Back Pad snaps into the hip D-rings of Pullover and Vestype Harnesses and adds additional lower lumbar support while work positioning. Comfort pads may be snapped around the shoulder straps or thigh straps of the harness to add comfort during long periods of suspension or work positioning. D-ring cover protects work surfaces from scratches.

Description	Part No.	Gov't Net Price
Lanyard Connector Adapter, nylon, 1 D-ring, 18"	505318	$19.65
Lanyard Pouch with hook and pile fastener	507119	$10.42
Economic Back Support Pad	507144	$22.92
Comfort Pads for shoulders/thighs	507147	$14.08
Comfort Pad, nylon,black, size small to medium	SSB30074-039	$37.92
Comfort Pad, nylon,black, size large to x-large	SSB30074-040	$37.92
Protective D-ring cover	507158	$5.27
Shoulder pad	10028444	$4.68

Top: Comfort Pads
Middle: Back Pad
Bottom: Shoulder Pad

Sure-Float Flotation Device

Sure-Float provides worker protection without compromising freedom of movement for those workers requiring a general purpose floatation device. The Sure-Float flotation device utilizes a unique sliding adjustment device ensures a perfect fit. Manual activation is standard, automatic activation is available upon request. Sized for adults over 80 lbs. (36 kg) and a chest size of 30"-52" (76 cm-132 cm). The Sure-Float is U.S. Coast Guard Approved Type III.

Sure-Float Flotation Device

Description	Part No.	Gov't Net Price
Sure-Float flotation device	SWS38MSTD	$133.65
CO_2 Re-Arming Kit with pin for Sure-Float device	SWS38MRP	$15.37

Firefighting and Rescue Equipment from MSA

BODY BELTS

Body belts are used for restraint (travel restraint or work positioning) and must never be used for fall arrest.

- Available in nylon or polyester webbing
- Available with Single Pass Friction Buckle or Tongue Buckles
- 3" or 4" wide body pad available for most models
- D-rings are available on back for travel restriction and on hips for work positioning
- Multi-Purpose Body Belts include a 3" wide body pad and seat strap for additional comfort while work positioning for long periods

Single Pass Friction Buckle Nylon Belt with 1 Fixed D-ring

Tongue Buckle Nylon Belt with 2 Fixed D-rings

Tongue Buckle Miner's Belt with 1 Fixed D-ring & straps for attaching battery & respirator packs

Description	Part No.	Government Net Price
Nylon, Single Pass (STD Size), 3" Body Pad, 1 Fixed D-ring	502510	$18.58
Nylon, Single Pass (STD Size), 1 Floating D-ring	502516	$15.13
Nylon, Single Pass (STD Size), 2 Floating D-rings	502517	$19.95
Nylon, Single Pass (STD Size), Saddle Belt for Tree Trimmers	502531	$53.37
Nylon, Single Pass (STD Size), 1 Fixed D-ring	502643	$18.34
Nylon, Single Pass (STD Size), 2 Fixed D-rings	502593	$22.02
Nylon, Tongue Buckle, 3" Body Pad, 2 Fixed D-rings, Size Large	415275	$30.96
Nylon, Tongue Buckle, 3" Body Pad, 2 Fixed D-rings, Size Medium	415276	$30.96
Nylon, Tongue Buckle, 3" Body Pad, 1 Fixed D-rings, Size Large	415289	$26.14
Nylon, Tongue Buckle, 3" Body Pad, 1 Fixed D-rings, Size Medium	415290	$26.14
Nylon, Tongue Buckle, 1 Floating D-rings, Size Large	415301	$20.64
Nylon, Tongue Buckle, 1 Floating D-rings, Size Medium	415302	$20.64
Nylon, Tongue Buckle, 1 Fixed D-rings, Size Large	415330	$22.02
Nylon, Tongue Buckle, 1 Fixed D-rings, Size Medium	415331	$22.02
Nylon, Tongue Buckle, 2 Fixed D-rings, Size Large	415342	$26.14
Nylon, Tongue Buckle, 2 Fixed D-rings, Size Medium	415343	$26.14
Miner's Belt, Nylon, Tongue Buckle, Size Large	415335	$31.43
Miner's Belt, Nylon, Tongue Buckle, Size Medium	415336	$27.52

Body Belt Sizing Chart

	WAIST SIZE	
	Single Pass Buckle	Tongue Buckle
XSM	21-31"	26-35"
SML	—	32-41"
MED	—	36-45"
STD	31-47"	—
LGE	—	40-49"
XLG	41-55"	44-53"

SNAPHOOK INFORMATION

Many of the lanyards listed feature the HL2000 snaphook, an economical, easy to use favorite. However, MSA produces a wide variety of snaphooks for all applications, and most products are available with your choice of snaphook. Dual action, self-locking snaphooks are zinc plated making them highly corrosive resistant. Proof tested to 3,600 lbs, all snaphooks have a minimum breaking strength of 5,000 lbs, and meet ANSI Z359.1 standards and OSHA regulations.

HL2000 Snaphook
¾ (19mm) gate opening
Made of forged alloy steel
Easy to open with one hand or gloves
Economical

RL20 Snaphook
Exceeds ANSI Z359.1 standards
MSA patented design
25/32" (20mm) gate opening
Made of forged alloy steel

Coated RL20 Snaphook
Exceeds ANSI Z39.1 standards
Corrosion resistant coating
Stainless steel gate spring
25/32" (20mm) gate opening

HL64 Snaphook
2½" (63.5mm) gate opening
Made of forged alloy steel

GL3100 Snaphook
Compatible with most concrete forms
2¼" (57.2mm) gate opening
Made of stamped alloy steel

Firefighting and Rescue Equipment from MSA

SHOCK ABSORBING LANYARDS

Energy absorbing lanyards are a component of a personal fall arrest system. They provide a means of connection between the back (dorsal) 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 42 inches. The lanyard is available in strap, rope, and wire rope configurations with a variety of snaphooks.

FP Diamond™ Shock Absorbing Lanyard

The FP Diamond shock absorbing lanyard raises the standard for shock absorbing lanyards with these exciting features:

- Keeps fall arrest forces below 900 lbs
- Available in a single or twin-leg configuration
- Meets ANSI Z359.1 and OSHA standards
- CSA certified*

To order, see FP Diamond ATO Matirx below.

Lightweight, streamlined design

Aquaseal coating to provide water, stain, and mildew resistance

Part No. 10023932

Strong & durable web sheath for increased abrasion and UV resistance
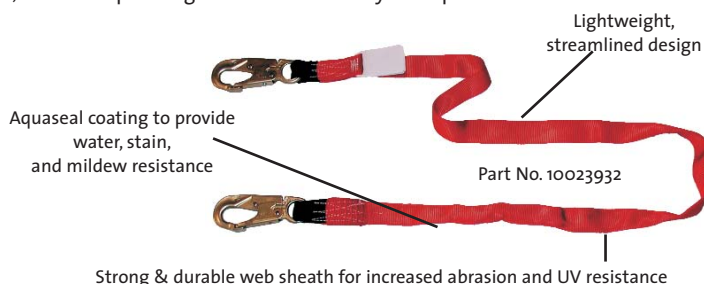
FP Diamond™ Expanyard

The FP Diamond expanyard raises the standard for shock absorbing lanyards with these exciting features:

- Durable polyester sheath for increased abrasion and UV resistance
- Teflon coated to provide water, stain, and mildew resistance
- Keeps fall arrest forces below 900 lbs
- Available in a single or twin-leg configuration
- Highly visible deployment tag
- Comfortable, light weight, pouchless design
- Elastic design reduces trip hazards and snag hazards
- Meets OSHA regulations, ANSI A10.14, ANSI Z359.1, and is CSA certified

Part No. 10045936
6' Expanyard
HL2000 harness/ HL2000 anchorage connections

FP Diampnd Expanyards—Single-piece Construction, 6' Fixed Length, Polyester

Hardware	Twin-Leg	Part No	Gov't Net Price
HL2000/HL2000		10045936	$32.74
SwivelHL2000/(2) HL64	X	10045938	$87.43
SwivelHL2000/(2) GL3100	X	10047290	$98.89

For other configurations, see FP Diamond ATO Matrix below.

Part No. 10045938
6' Twin-Leg Expanyard
HL2000 harness connection and HL64 anchorage connections

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR FP DIAMOND SHOCK ABSORBING LANYARDS AND FP DIAMOND EXPANYARDS

Assemble-to-Order (ATO) System: You Make the Choices

The ATO System makes it easy to "custom order" an FP Diamond Shock-Absorbing Lanyard/Expanyard, configured exactly the way you want it.

Approval			Style of Lanyard			Single/Twin Leg			Anchor Connector			Anchor Connector (2nd Leg—Twin Only)			User Connector			Length		
N	Non-CSA	0.00	1	Non-Expanyard	27.51	1	Single	0.00	01	HL2000 Snaphook	2.62	00	None	0.00	01	Hitch Loop*	0.00	0	4'	0.00
C	CSA	0.00	2	Expanyard	27.51	2	Twin	19.65	02	RL20 Snaphook	7.20	01	HL2000 Snaphook	2.62	02	HL2000 Snaphook	2.62	1	5'	0.00
									03	Coated RL20 Snaphook	8.35	02	RL20 Snaphook	7.20	03	RL20 Snaphook	7.20	2	6'	0.00
									04	HL64 Snaphook	12.12	03	Coated RL20 Snaphook	8.35	04	Coated RL20 Snaphook	8.35	3	10'*	2.62
									05	GL3100 Snaphook*	17.85	04	HL64 Snaphook	12.12	05	Swivel HL2000 Snaphook	16.05			
									06	LS Snaphook	3.93	05	GL3100 Snaphook*	17.85	06	LS Snaphook	3.93			
									07	LI Snaphook*	9.17	06	LS Snaphook	3.93	07	LI Snaphook*	9.17			
									08	AL64 Snaphook*	23.90	07	LI Snaphook*	9.17	08	Swivel LS Snaphook	16.65			
									09	FPSK	15.06	08	AL64 Snaphook*	23.90						
												09	FPSK	15.06						

+ $ _____   + $ _____   + $ _____   + $ _____   + $ _____   + $ _____   + $ _____

A-DIA _____

Part No.

Quantity

= **Total FP Diamond Lanyard List Price**

$ _____

All pricing in US dollars

* Options are not CSA approved.

- ATO orders ready to ship in 2–5 days after receipt of order.
- The only user connector option available for twin-leg models is the Swivel HL2000 (Option 5)
- Diamond Expanyard is not available in 5' length

Prices are 34.51% discount off 2005 Price List.

MSA

Dyna-Might™ Shock Absorbing Lanyard

The Dyna-Might lanyard incorporates the innovative technology of the Dyna-Brake lanyard with the advantage of a lightweight, low-profile body. A durable Olefin cover provides extraordinary abrasion, heat, and cold resistance. The Dyna-Might lanyard meets all applicable ANSI and OSHA standards.

Dyna-Might Lanyards with 1" Strap, 6' Length, Nylon

Hardware	Twin-Leg	Adjustable	Fixed	Part No.	Government Net Price
HL2000/HL2000		x		501044	$24.33
HL2000/HL2000			x	501054	$25.97
RL20/2 HL2000	x		x	501589	$38.14

Dyna-Might Lanyards with ½" Rope, 6' Length, Nylon

Hardware	Adjustable	Fixed	Part No.	Government Net Price
HL2000/HL2000	x		501017	$29.92
HL2000/HL2000		x	501303	$28.27

Dyna-Might Lanyard with ¼" Wire Rope, Vinyl Coated, 6' Length

Hardware	Fixed	Part No.	Government Net Price
HL2000/HL2000	X	501168	$32.38

Onyx™ Shock-Absorbing Lanyard

The Onyx lanyard is a sleek, innovative design in shock absorbing lanyards! The lightest weight lanyard available, the Onyx lanyard features a strong, durable sheath. It is also bi-directional, making it even easier to train your personnel. This longer-wearing lanyard is also available in a Twin-Leg configuration. Meets ANSI A10.14 and OSHA regulations.

Onyx Shock Absorbing Lanyards, Strap, 6' Length
Nylon, single piece constuction, 6' fixed length, shock absorbing lanyard

Hardware	Twin-Leg	Part No.	Government Net Price
HL2000/HL2000		10003020	$26.25
RL20/RL20		10003021	$32.47
HL2000/HL64		10003022	$50.30
HL2000/(2) HL2000	X	10012311	$51.11
RL20/(2) RL20	X	10012312	$60.10
HL2000/(2) HL64	X	10012313	$99.26

Onyx™ Shock-Absorbing Lanyard

Onyx™ Twin-Leg Shock-Absorbing Lanyard
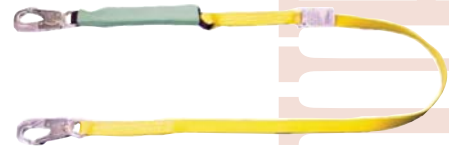
Tie-Back™ Shock Absorbing Lanyard

The integral adjustable D-ring of the MSA Tie-Back lanyard allows for a compatible means of connection, minimizes the potential for roll-out, and eliminates the necessity of a separate anchorage connector. The integral adjustable D-ring allows the MSA Tie-Back Lanyard to accommodate a wide variety of anchorage point shapes and sizes.

The MSA Tie-Back Lanyard features:

• Integral Dyna-Might shock absorber or Dyna-Brake shock absorber
• Available in Twin-Leg configuration for 100% tie-off
• Maximum arrest force of 900 lbf
• Meets all applicable ANSI and OSHA standards

Tie-Back Shock Absorbing Lanyard, Strap, 6' Fixed Length, Nylon

Shock-Absorber	Hardware	Twin-Leg	Part No.	Government Net Price
Dyna-Brake	HL2000/HL2000		10021670	$32.55
Dyna-Brake	HL2000/(2) HL2000	X	10021671	$51.29
Dyna-Brake	HL2000/HL64		10021672	$60.02
Dyna-Brake	HL2000/(2) HL64	X	10021673	$70.35
Dyna-Might	HL2000/HL2000		10011792	$30.57
Dyna-Might	HL2000/(2) HL2000	X	10011793	$48.00
Dyna-Might	HL2000/HL64		10011794	$40.11
Dyna-Might	HL2000/(2) HL64	X	10011795	$71.67

Tie-Back™ Shock-Absorbing Lanyard

Tie-Back™ Twin-Leg Shock-Absorbing Lanyard

Firefighting and Rescue Equipment from MSA

FP5K™ Shock Absorbing Lanyard and FPK Restraint Lanyard

- Uses the FP5K Carabiner, a new Tie-back lanyard connector with a 5000 pound gate strength in any direction and a 1" Gate Opening
- Available in web or cable version
- Web version utilizes Monster-Edge™ Webbing with 12,000 pound minimum breaking strength and increased abrasion resistance
- Utilizes the Sure-Stop Shock Absorber to keep fall arrest forces below 900 lbs
- Available in both single and twin leg configurations
- Meets OSHA regulations, ANSI A10.14 & ANSI Z359.1, and is CSA certified.

Part No. 10047084
6' Adjustable Length,
HL2000 snaphook/FP5K carabiner

Part No. 10047087
6' Fixed Length,
Twin-Leg Cable
HL2000 snaphook in center/
FP5K carabiners on each leg

NEW!

Part No. 10056762
5' Adjustable Length,
LS snaphook/FP5K carabiner

FP5K Tie-Back Shock Absorbing Lanyards, 6' Length

Part No.	Material	Fixed	Adjustable	Length	Hardware	Twin-Leg	Gov't Net Price
10047084	Nylon Web		X	6'	HL2000 one end/FP5K Carabiner other end		$43.55
10047085	Nylon Web		X	6'	HL2000 in center/FP5K Carabiner each leg	X	$67.12
10047086	Cable	X		6'	HL2000 one end/FP5K Carabiner other end		$46.50
10047087	Cable	X		6'	HL2000 in center/FP5K Carabiner each leg	X	$75.64
10056762	Nylon Web		X	5'	LS Snaphook in center/FP5K Carabiner other end		$32.74
10056763	Nylon Web		X	5'	HL2000 in center/FP5K Carabiner each leg	X	$50.43

Thermatek™ Shock-Absorbing Lanyard

The Thermatek shock absorbing lanyard was specifically designed to take the heat and for use in the welding industry. This specialized shock-absorbing lanyard features:

- Tuffweld protective cover on the shock absorber that is superior to Nomex
- Resistance to charring and burning
- Unique shock absorber design that incorporates a Kelar back-up strap
- Thermatek 12 lanyard model is designed to arrest a free-fall up to 12', and keep fall arrest forces below OSHA limits

Model	Hardware	Part No.	Government Net Price
Thermatek 6 lanyard	HL2000/HL2000	10023485	$52.10
Thermatek 6 lanyard	RL20/RL20	10026049	$57.66
Thermatek 12 lanyard	HL2000/HL2000	10026048	$56.27
Thermatek 12 lanyard	RL20/RL20	10026060	$61.83

"No Metal Above The Waist" Shock Absorbing Lanyard

The "No Metal Above the Waist" shock absorbing lanyard was specifically designed to work in conjunction with the "No Metal Above the Waist" harness, which was designed for the utility industry worker. To maintain the "No Metal Above the Waist" configuration, this shock absorbing lanyard has a 9" sewn loop on one end which attaches to the back (dorsal) attachment point on the "No Metal Above the Waist" harness.

Dyna-Brake, polyester 1" strap, fixed 6' length

| Hardware	Twin-Leg	Part No.	Government Net Price
Sewn Loop/RL20		501580	$30.96
Sewn Loop(2) RL20	x	501581	$45.15

FP Diamond™ Shock Absorbing Lanyard

- Keeps fall arrest forces below 900 lbs
- Available in a single or twin-leg configuration
- Meets ANSI Z359.1 and OSHA standards

FP Diamond Shock Absorbing Lanyards
Polyester, single piece constuction, fixed length, shock absorbing lanyard

Lightweight, streamlined design

Aquaseal coating to provide water, stain, and mildew resistance

Strong & durable web sheath for increased abrasion and UV resistance

Hardware	Twin-Leg	Length 5'	Length 6'	Length 10'	Part No.	Government Net Price
HL2000/HL2000			X		10023932	$27.83
HL2000/HL64			X		10023933	$42.24
HL2000/(2) HL2000	X		X		10023970	$55.01
HL2000/(2) HL64	X		X		10023971	$74.00
HL2000/HL2000				X	10023938	$35.36
HL2000/HL64				X	10023939	$44.86
HL2000/HL2000		X			10023936	$27.83
HL2000/(2) HL2000	X	X			10023937	$55.01
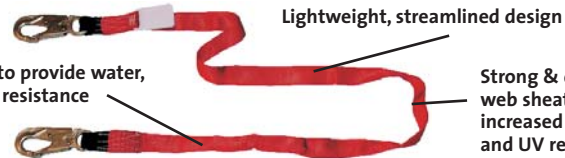
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Firefighting and Rescue Equipment from MSA

Dyna-Brake® Shock Absorbing Lanyard (Nylon/Polyester)

- Strong and durable
- Uses rip-stitch technology to keep fall arrest forces below OSHA and ANSI requirements
- Available in single or twin-leg configurations and with a variety of snaphooks
- Meets ANSI Z359.1, ANSI A10.14, and OSHA standards

P/N 10015877

P/N 10021663

Webbing	Hardware	Part No.	Gov't Net Price
6' x adj. 1" wide nylon webbing	HL2000 self-locking snaphooks	10021663	$28.81
6' x adj. 1" wide nylon web twin lanyard	HL2000 self-locking snaphook on one end and 2 GL3100 self-locking snaphooks on other ends	10015877*	$68.76
6' x adj. 1" wide nylon web twin lanyard	RL20 self-locking snaphooks	501562	$52.06
6' x adj. 1" wide polyester web twin lanyard	RL20 self-locking snaphooks	501563	$50.43

*Compatible with most concrete forms

Dyna-Brake® Shock Absorbing Lanyard (Rope/Wire)

P/N 10021656

P/N 10021655

P/N 10021653

Webbing	Hardware	Part No.	Government Net Price
1/2" dia. nylon rope, adjustable, 6' length	HL2000/HL2000	10021656	$33.45
1/2" dia. nylon rope, fixed, 6' length	HL2000/HL2000	10021657	$30.12
1/4" dia. vinyl-coated wire rope, 6' length	HL2000/HL2000	10021655	$30.78
1/4" dia. vinyl-coated wire rope, twin leg, 6' length	HL2000/(2) HL2000	10021653	$52.80

Dyna-Brake® Energy Absorbing Sub-Assembly

The Dyna-Brake Sub-Assembly may be connected to a compatible lanyard to create a non-integral lanyard connector subsystem for fall arrest.

- 22" length
- HL2000 self-locking snaphook and D-ring
- Nylon webbing

Description	Part No.	Government Net Price
Dyna-Brake, Nylon, 22" length, D-Ring one end, HL2000 Snaphook other end	10021654	$31.43

Expanyard™ Dyna-Brake Energy Absorbing Lanyards

The Expanyard Energy Absorbing Lanyard is designed to stretch to a six-foot length. When relaxed, it stays close to the user's body, reducing the possibility of trips and snags.

P/N 10015900

P/N 10013456

Dyna-Brake Lanyards with 1 inch strap, 6 foot length

Material Nylon	Polyester	Hardware	Twin-Leg	Expandable	Adjustable	Fixed	Part No.	Government Net Price
X		HL2000/(2) HL64	X		X		10021661	$57.30
X		HL2000/HL64			X		10021662	$35.69
X		HL2000/HL2000			X		10021663	$28.81
X		HL2000/HL2000				X	10021664	$25.21
	X	HL2000/HL2000			X		10021665	$33.83
	X	HL2000/HL2000				X	10021666	$31.90
X		HL2000/(2) HL2000	X			X	10021667	$47.58
X		HL2000/(2) HL2000	X		X		10021668	$38.31
	X	HL2000/(2) HL2000	X		X		10021669	$39.29
X		HL2000/HL2000		X			10015900	$33.20
X		HL2000/(2) HL2000	X	X			10013456	$68.12
X		HL2000/(2) GL3100	X		X		10015877	$68.76
X		RL20/HL64			X		416014	$26.93
X		RL20/RL20			X		501222	$35.36
X		RL20/RL20				X	501226	$34.38
X		RL20/RL20			X		501235	$35.36
X		RL20/(2) RL20	X			X	501561	$50.43
X		RL20/(2) RL20	X		X		501562	$52.06
	X	RL20/(2) RL20	X		X		501563	$50.43

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Snaphook Information for Sure-Stop™ Lanyards

Many of the Sure-Stop lanyards listed feature the SHWS31690LS standard snaphook. However, MSA provides a wide variety of snaphooks for all applications, and most lanyards are available with your choice of shaphooks. All snaphooks are proof-tested to 3,600 lbs with a minimum breaking strength of 5,000 lbs.
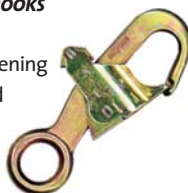
Standard Snaphook
SHWS31690LS

- 20mm gate opening
- Made of forged alloy steel
- Easy to use
- Meets ANSI & OSHA standards

Optional Snaphooks
SHWS3175RM

- 20mm gate opening
- Made of forged alloy steel
- Meets ANSI & OSHA standards

SHWS3501701(Ll)

- Lightweight
- Economical
- Easy to use
- Meets ANSI & OSHA standards

SHWS5394

- 2½" gate opening
- Made of forged alloy steel
- Meets ANSI & OSHA standard

Sure-Stop™ Shock-Absorbing Lanyards

- Uses a tear tape design to keep fall arrest forces below ANSI and OSHA requirements
- Meets ANSI Z359.1 and applicable OSHA regulations
- Available in single or twin-leg configurations

P/N SWLPO640A

P/N SWL40687-04/LS

P/N SWL404002-06

P/N SWL60645B

Sure-Stop Lanyards with 1¾-inch Nylon Strap, 4' Length

Hardware	Adjustable	Fixed	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS		X	SWL20687-04/LS	$25.87
SHWS31690LS/SHWS5394		X	SWL20681-04/LS	$29.06
SHWS31690LS/SHWS31690LS	X		SWL20688-04/LS	$29.33

Sure-Stop Lanyards with 1-inch Strap

Hardware	Material Nylon	Polyester	Length 4'	6'	Twin-Leg	Expandable	Fixed	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS	X		X				X	SWL40687-04/LS	$28.49
Sewn Loop/(2) SHWS3501701		X		X	X		X	SWLP0645A	$43.55
Sewn Loop/(2) SHWS31690LS		X		X	X		X	SWLP0635A	$29.95
Sewn Loop/SHWS31690LS		X		X			X	SWLP0630A	$24.22
Sewn Loop/(2) SHWS3501701	X			X	X	X		SWL60645B	$52.03
SHWS31690LS/(2) SHWS31690LS	X			X	X		X	SWL404002-06/LS	$24.52

Sure-Stop Lanyards with ⅝-inch Nylon Rope, 4' Fixed Length

Hardware	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS	SNL40484-04/LS	$32.09
SHWS31690LS/SHWS5394	SNL40681-04/LS	$44.01

P/N SNL40484-04/LS

Sure-Stop Lanyards with ¼-inch Cable, 4' Fixed Length

Hardware	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS	SCL40673-04/LS	$36.16
SHWS31690LS/SHWS5394	SCL40681-04/LS	$45.36

P/N SCL40673-04/LS

Sure-Stop Shock-Absorbing Devices, Nylon

Hardware	Part No.	Government Net Price
Soft Loop/SHWS31690LS	SSA4001/LS	$16.20
D-ring/SHWS31690LS	SSA4002/LS	$18.64
Soft Loop/D-ring	SSA4003	$13.75

P/N SSA4003

P/N SSA4002/LS

Firefighting and Rescue Equipment from MSA

RESTRAINT LANYARDS

P/N 505204

P/N 505166

P/N 505063

Restraint lanyards are primarily used for travel restriction and work positioning. Lanyards for travel restriction are used to restrain a worker from reaching a fall hazard. Lanyards for work positioning are used for stabilizing a worker at an elevation. They can be ordered in fixed or adjustable lengths. Each lanyard comes with a forged steel, zinc-plated self-locking snaphook attached to each end. Meets ANSI and OSHA standards.

Restraint Lanyards with 1-3/4" Strap

| Material | | | Length | | | | | Government |
Nylon	Polyester	Hardware	4'	6'	Adjustable	Fixed	Part No.	Net Price
x		LS Snap/LS Snap	x			x	SWL2268704LS	$25.87
x		LS Snap/LS Snap		x		x	SWL2268706LS	$14.08
x		LS Snap/LS Snap		x	x		SWL2268806LS	$19.97

Restraint Lanyards with 1" Strap

| Material | | | Length | | | | | | Government |
Nylon	Polyester	Hardware	4'	6'	10'	Adjustable	Fixed	Part No.	Net Price
x		HL2000/HL2000			x	x		415100	$15.72
x		HL2000/HL2000		x		x	x	505088	$14.41
x		HL2000/HL2000		x			x	505097	$12.44
x		RL20/RL20		x			x	505197	$21.28
x		RL20/RL20		x		x		505204	$22.27
x		LS Snap/LS Snap	x				x	SWL3268704LS	$57.18
x		LS Snap/LS Snap		x			x	SWL3268706LS	$21.71

Restraint Lanyards with 5/8" Rope

| Material | | | Length | | | | | Government |
Nylon	Polyester	Hardware	4'	6'	Adjustable	Fixed	Part No.	Net Price
x		R20/RL20	x			x	415108	$26.20
x		HL/2000/H?2000		x		x	505166	$19.65
x		RL20/RL20		x	x		505202	$29.14
x		RL20/RL20		x		x	505203	$27.50
x		LS Snap/LS Snap		x		x	SNL3248406LS	$20.96

Restraint Lanyards with 1/2" Rope

| Material | | | Length | | | | | | Government |
Nylon	Polyester	Hardware	6'	15'	25'	Adjustable	Fixed	Part No.	Net Price
x		HL2000/HL2000		x			x	415055	$22.02
x		HL2000/HL2000			x	x		415088	$26.83
x		HL2000/HL2000	x				x	505002	$17.03
x		HL2000/HL2000	x			x		505012	$18.66
	x	HL2000/HL2000	x				x	505057	$18.35
x		RL20/RL20	x				x	505200	$26.20
x		RL20/RL20	x			x		505201	$27.83
	x	HL2000/HL2000	x			x		505048	$19.04

Restraint Lanyard with 1/4" Wire Rope, Vinyl Coated

Hardware	5' Length	Fixed	Part No.	Government Net Price
HL2000/HL2000	x	x	505063	$22.19

P/N 505201

Rebar Assembly

P/N SCH31875-11

Description	Part No.	Government Net Price
Rebar strap assembly, large snaphook with 2.5" (64mm) gate	415957	$52.10
Rebar chain assembly, large snaphook with 2.5" (64mm) gate	415989	$76.82
Rebar chain assembly, GL3100 snaphook with 2.25" (57mm) gate	10044811	$41.91
Rebar web assembly, 18" legs with sliding large snaphook	SCH31875-11	$35.42
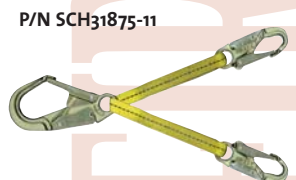
Lineman's Pole Strap

Description	Part No.	Government Net Price
Lineman's pole strap, nylon, adjustable to maximum length of 70"	415834	$62.25
Lineman's pole strap, nylon, adjustable to maximum length of 90"	415833	$59.86
Lineman's pole 1-3/4" strap, nylon, fixed 5' length	SSB30501A-05	$49.91
Lineman's pole 1-3/4" strap, nylon, fixed 6' length	SSB30501A-06	$51.14

P/N SSB30501A-06

Restraint Lanyards with Sewn Loop

P/N 505194

Description	Part No.	Government Net Price
Expanyard nylon, sewn loop one end, RL20 snaphook on other end, 6'	415827	$20.64
Lanyard, nylon, sewn loop one end, HL2000 snaphook on other end, 6' fixed length	505165	$9.50
Lanyard, nylon, sewn loop one end, RL20 snaphook on other end, 6', fixed length	505194	$14.08
Lanyard, nylon, sewn loop one end, RL20 snaphook on other end, 6' adjustable length	505217	$15.06

Sure-Stop™ Restraint Lanyards

P/N SWL22687-04/LS

P/N SWL22783-02/LS

Sure-Stop Restraint Lanyards with 1¾" Strap, Nylon

Hardware	Twin-Leg	2'	4'	Adjustable	Fixed	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS			x		x	SWL22687-04/LS	$14.08
SHWS31690LS/SHWS5394			x		x	SWL22681-04/LS	$29.06
SHWS31690LS/SHWS31690LS			x	x		SWL22688-04/LS	$19.97
SHWS31690LS/(2) SHWS5394	x	x			x	SWL22783-02/LS	$38.65

Sure-Stop Restraint Lanyards with 5/8" Rope, Nylon, 4' Fixed Length

P/N SNL32484-04/LS

Hardware	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS	SNL32485-04/LS	$20.96
SHWS31690LS/SHWS5394	SNL32681-04/LS	$33.91

Sure-Stop Restraint Lanyards with 1/4" Cable, 4' Fixed Length

P/N SCL32673-04/LS

Hardware	Part No.	Government Net Price
SHWS31690LS/SHWS31690LS	SCL32673-04/LS	$21.40
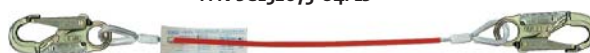
ROPE GRABS AND VERTICAL LIFELINES

FP Pro Rope Grab

Unique, versatile, lightweight and affordable, the FP Pro Rope Grab features:

• Hands-free operation while ascending or descending

• Ultra-smooth travel action

• Cam and hinge design allows for a a quick, easy installation on the rope

• Available with either polyester or polyester/polypropylene blend rope

Rope Grab with Shock-Absorbing Lanyard

Description	Part No.	Government Net Price
Rope Grab with Dyna-Brake shock absorbing lanyard, 3' length	415940	$88.41
Rope Grab with 12" fixed, nylon, lanyard	415941	$76.42
Rope Grab kit with 50'-5/8" rope, polyester, anchorage connector strap	415942	$152.82
Rope Grab kit with 100' rope	415943	$203.01
Rope Grab kit with 50'-5/8" rope, polyester/polypropylene nylon anchorage connector strap	415964	$151.47
Rope Grab kit with 100' rope	415965	$172.93
Rope Grab replacement lanyard with shock absorber	416065	$34.71
Rope Grab replacement lanyard, 12" strap	416066	$22.92

FP Pro Vertical Lifeline

5/8" rope, polyester with RL20 snaphook on one end

Length	Part No.	Government Net Price
25'	415865	$31.26
50'	415869	$48.63
75'	415870	$62.52
100'	415871	$78.90
150'	415872	$103.82
200'	415873	$128.46

5/8" rope, polyester/polypropylene, w/twist lock carabiner on one end

Length	Part No.	Government Net Price
25'	416048	$30.57
50'	416049	$40.99
75'	416050	$51.41
100'	416051	$61.83
150'	416052	$82.67
200'	416053	$103.51

Carabiner —

Termination Plate

Sure-Stop Vertical Lifeline

Sure-Grab Fall Arrester
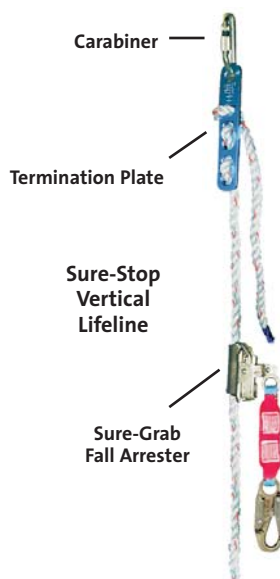
Sure-Grab™ Rope Grab and Lifeline

The SVLR78 Sure-Grab device and lifeline is used to provide temporary fall protection on ladders or when climbing vertical structures. This system can also be used to provide a secondary lifeline for suspended positioning systems used by building/structure inspectors, window cleaners, and maintenance personnel. The Sure-Grab device moves freely up or down an approved 5/8" (16 mm) diameter lifeline. When sudden downward movement occurs, a camming lever is activated arresting the fall. The device can be installed or removed from the lifeline at any point along its length. Meets and exceeds ANSI Z359.1 and OSHA standards. Sure-Grab rope grabs are CSA certified.

Sure-Grab™ Rope Grab

Description	Part No.	Government Net Price
Rope grab fall arrester, automatic/manual, 0pen body, c/w 1-3/4" x 12" web lanyard, SHWS31690LS snaphook	SVLR78/LS	$86.81
Rope grab fall arrester, automatic/manual, open body, c/w 1-3/4" x 2 ft, shock absorber, SHWS31690LS snaphook	SVLR78-4001LS-02	$101.09
CSA rope grab kit #1 Includes: Sure-Grab (SVLR78/LS) and 60' Vertical Lifeline (SLLPB672-060/LS)	10030433	$129.67
CSA rope grab kit #2 Includes: Sure-Grab (SVLR78-4001LS-02) and a 60' Vertical Lifeline (SLLPB672-060/LS)	10030600	$152.84

Sure-Stop™ Vertical Lifeline Ordering Information

Description	Part No.	Government Net Price
Lifeline, nylon, white, 3-strand, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLNL672-060/LS	$48.30
Lifeline, nylon, black, 3-strand, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLNB672-060/LS	$78.71
Lifeline, polyester, white, 3-strand, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLPL672-060/LS	$55.66
Lifeline, Sure-D-Braid, orange, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLNY672-060/LS	$104.14
Lifeline, polyester/polypropylene blended, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLPB672-060/LS	$45.84
Lifeline, polysteel green, 5/8" x 60', with SHWS31690LS snaphook on one end	SLLPS672-060/LS	$36.67
5/8" Termination Plate	SRIW1000	$22.92

Note: 5/8" x 60' = 16mm x 20m

Firefighting and Rescue Equipment from MSA

ANCHORAGE CONNECTORS

- Have a minimum breaking strength of 5,000 lb.
- Meet ANSI Z359.1, ANSI A10.14, and OSHA standards
- Compatible for use with MSA fall arrest and confined space entry/retrieval components

Anchorage Connector Strap

- Std. 5 ft. length, custom lengths available
- D-ring on one end and a sewn loop on the other end

Wire Clasp

- 3 sizes available to accommodate a wide range of structures
- Easy, simple installation

BeamGrip™

- Attaches to I-beam flange— no tools required
- Optional D-ring insert (P/N 506643) and/or swivel D-ring (P/N 506673) can provide anchorage connection for one or two person (D-rings sold separately)

D-Plate Anchorage Connector

- Provides permanent anchorage point
- Bolts to beams or columns
- Also available with 8"x 8" back plate made of black anodized aluminum for attachment to concrete walls

Adjustable Beam Grip

- Quick, easy installation to I-beams with 4" to 12" flange width
- Integral strap and D-ring allows compatible means of connection

Anchorage Connector Chain

- Quick, easy installklation to I-beams with 4" to 12" flange width
- Integral strap and D-ring allows compatible means of connection

Permanent Roof Anchor

- All steel construction
- Fits all pitches of roof trusses or rafters
- Easy to install without specialtools

Large Hook with Strap

- Large 2½" throat-opening hook with integral strap and D-ring
- Compatible with all MSA lanyards and vertical lifelines

Large Hook with Shock-Absorber

- Large 2½" throat-opening hook with integral shock-absorber and D-ring
- Compatible with all MSA lanyards and vertical lifelines

Bolt D-Ring with Hole

- Permanent anchorage connector
- Attaches to bottom of I-beam flange, user supplies belt
- Designed for horizontal installation

Rail-Rider™

- Designed for use on railroad and crane ASCE, ARA, and AREA rail sections between 85–136 lb/yd. Not to be use on headless rails
- Compatible with snaphook or carabiner connectors

BeamGlide™ Trolley

- Provides horizontal mobility— keeps anchorage connector directly overhead
- Sizing to fit all beams

Thermatek™ Anchorage Connnector Strap

- Kevlar webbing and stitching
- Contrasting colors of webbing and stitching allows for easier inspection
- Heat- and burn-resistant

Double D-Ring Anchorage Connector Strap

- Standard 5 ft. length, custom lengths available
- Standard D-ring on one end and a large D-ring on the other end

Boom Belt

- Attaches to boom arm
- Adjustable
- Allows for quick & easy inspection

Anchorage Chocker Sling

- Available in nylon or polyester
- 3 sizes available
- Quick & easy installation
- Lightweight

Rail-Slider™

- Provides fall protection during horizontal movement on railway bridges
- Quick and easy installation
- 2 sizes available

Suretyman™ Anchorage Sling

- 1" nylon tube webbing sewn into an endless loop
- Available in 2', 4', and 6' lengths
- Can be hitched to an anchorage point using various configurations

PointGuard™ Anchorage Connector

- Installs in seconds; cut and throw away when finished
- 2 models: Residential (2 variants) or Concrete Construction (2 variants)
- Durable: 1 fl polyester webbing and 5000 lb minimum breaking strength
- Available with or without a steel D-Ring

Description	Part No.	Gov't Net Price
1/4" wire rope, vinyl coated, fixed length 5', RL20 snaphook one end, O-ring on the other endzx	505233	$23.32
Anchorage connector strap, nylon, 5'	505282	$17.48
Anchorage connector strap, polyester, 5'	505298	$18.00
Anchorage connector strap for RCD system, polyester'	505314	$31.65
Shackle, 5" D-bolt anchor	506212	$13.58
Small wire clasp - 3 1/8" diameter	10003207	$26.20
Medium wire clasp - 4 1/8" diameter	10003208	$27.83
Large wire clasp - 5 1/2" diameter	10003209	$29.47
BeamGrip for beams with flange width:		
3.94" to 5.64", flange thickness: .215" to .622"	506682	$153.90
5.5" to 8.0", flange thickness: .44" to .56"	415171	$153.90
8.06" to 10.475", flange thickness: .66" to .76"	415172	$180.09
10.265" to 12.8", flange thickness: .85" to .99"	415173	$160.44
D-plate anchorage connector, zinc-plated steel	506632	$9.22
D-plate anchorage connector, stainless steel	506633	$65.36
D-plate, anchor, with galvanized aluminum back-plate	506669	$36.67
D-plate, anchor, with anodized aluminum back-plate	506672	$36.02
Adjustable beam grip	10003210	$145.89
D-ring fitting BeamGrip, anchor connector	506643	$52.39
Anchorage D-ring, swivel mount, zinc plated	506673	$26.09
Anchorage connector chain	10003206	$74.62
3' PointGuard Residential Anchorage Strap w/D-ring	10042792	$5.73
3' PointGuard Residential Anchorage Strap w/sewn loop	10042793	$4.58
4' PointGuard Residential Anchorage Strap w/D-ring	10042794	$6.39
4' PointGuard Residential Anchorage Strap w/sewn loop	10042795	$5.24

Description	Part No.	Gov't Net Price
Permanent roof anchor - 2"x 4"	10016468	$15.23
Permanent roof anchor - 2"x 6"	10017593	$16.04
Permanent roof anchor - 2"x 8"	10017594	$16.37
Permanent roof anchor - 2"x 10"	10017595	$18.50
Permanent roof anchor - 2"x 12"	10017596	$19.45
HL64 snaphook with 2.5" gate w/strap anchorage connector	10002820	$26.20
HL64 snaphook with 2.5" gate with shock absorber	10002821	$39.29
Bolt D-ring with hole only	10003213	$19.65
RailRider, 85–136 lbs/yd of rail	506634	$350.36
BeamGlide Trolley, fixed, specify beam size	506252	$321.30
BeamGlide Trolley, removeable, ball pin lock, specify beam size	506266	$327.44
Trolley end stops, pair	506379	$57.62
Thermatek anchorage connctor strap	10023487	$43.77
Replacement wear pad for Thermatek anch. connector strap	10026763	$3.79
Double D-ring anch. connector strap w/D-ring on each end	10023490	$20.64
Boom belt, 1W" nylon webbing, adjustable, one size fits all	SSB22040	$13.10
Anchorage chocker sling, 16" nylon	SFP22-N-002B	$5.24
Anchorage chocker sling, 24" nylon	SFP22-N-002C	$5.89
Anchorage chocker sling, 16" polyester	SFP22-P-002B	$5.24
Anchorage chocker sling, 24" polyester	SFP22-P-002C	$5.89
Anchorage chocker sling, 36" polyester	SFP22-P-002D	$6.55
Suretyman anchorage sling, 4' length	SFP22674-04	$10.73
Rail-Slider, steel, galvanized, for 141 # rail, used on train-/crane-type rail*	10030608	$65.49
Rail-Slider, steel, galvanized, for 80–136 # rail, used on train-/crane-type rail*	SFPRS6000	$65.49

*carabiner required - sold separately

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Firefighting and Rescue Equipment from MSA

CARABINERS

 Part No. 506259
 Part No. 506308
 Part No. SRCC643
 Part No. SRCC734G
 Part No. SRCC641
 Part No. SRCC642

Description	Part No.	Gov't Net Price
$7/8$" gate, twist lock, aluminum	506259	$14.41
$7/8$" gate, twist lock, steel	506572	$13.10
2" gate, twist lock, steel	506308	$19.65
$9/16$" gate (small), autolocking, steel, with captive eye	SRCC413	$14.41
$3/4$" gate (medium), autolocking, aluminum	SRCA613	$19.65
$3/4$" gate (medium), autolocking, aluminum	SRCA853	$19.65
1" gate (large), autolocking, steel	SRCC643	$15.72

Description	Part No.	Gov't Net Price
2.1" gate (extra large), autolocking, steel	SRCC734G	$42.57
2.1" gate (extra large), autolocking, aluminum	SRCA722	$42.57
Autolocking, steel, with captive eye	SRCC963	$19.65
Large D design, 1.2" gate, screwgate, steel	SRCC641	$13.75
Large D design, 1.2" gate, auto-locking, steel	SRCC642	$17.03
Large D design, 1" gate, super-safe, steel	SRCC202	$15.39

MANSAFE FREESTANDING CONSTANT FORCE POST

- Does not attach to the working surface
- Used on nominally flat roofs up to a maximum pitch of 5 degrees
- Tested and approved for use on concrete, single ply membrane, asphalt-sanded, asphalt-stone chipped, and steel roof profiles
- Installer will never have to lift more than 55 lbs (25 kg) at any time
- Post is omni directional

Description	Part No.	Government Net Price
ManSafe Freestanding Constant Force Post	10055719	$1995.78

FALL PROTECTION KITS

Bucket-O-Safety® Kit

All the basic safety needs conveniently packaged in a handy 6-gallon bucket. The Bucket-O-Safety Kit is great for outfitting construction crews, and safe, dry storage of equipment for the work crew. Includes:

- FP Pro Vest-Style harness
- White V-Gard hard hat with Staz-On suspension
- Sightgard protective eyewear with scratch-resistant lens, adjustable temples, integrated side shields, and anti-fog coating
- Onyx 6-ft lanyard with HL2000 snaphooks
- SoundControl re-usable silicone earplugs

Description	Part No.	Government Net Price
Bucket-O-Safety	10013102	$76.42

FP Pro™ Roofers' Kit

Includes:

- FP Pro Vest-Style Harness is a lightweight, durable, abrasion-resistant harness with a handy donning and adjusting instruction card in English, Spanish and French.
- Lifeline with Locking Carabiner permits safety and ease of mind while working.
- Rope Grab is a lightweight and affordable fall arrest device that allows workers hands-free operation while descending or ascending.
- Roof Anchors & Woodscrews are disposable Roof Anchors constructed fromheavy-gauge steel with a galvanized finish. Each comes with 8 galvanized flathead woodscrews.
- Durable black nylon totebag makes getting your equipment to the job site easy.

All FP Pro products are fully compliant with applicable OSHA regulations and ANSI A10.14.

Description	Part No.	Government Net Price
FP Pro Roofers' Kit	416067	$189.89
Roof Anchors, 3 pack, boxed with woodscrews	416068	$16.10
Roof Anchors, bulk package of 24	416077	$88.91
Roof Anchors Display Package (contains 8 3-pack roof anchors with woodscrews)	416069	$145.17

Thermatek™ Kit

Includes:

- Thermatek Harness, standard size, made of a Kevlar/Nomex blend webbing that is resistant to chemicals, weld splatter, and other high heat exposures.
- Thermatek Shock Absorbing Lanyard features a burn resistant Tuffweld protective cover that is superior to Nomex. The Thermatek 12 lanyard model is designed to arrest a freefall up to 12' and keep fall arrest forces below OSHA limits.
- Thermatek Anchorage Connector Strap with Kevlar webbing and stitching has a replaceable wear pad to protect webbing from abrasion.
- Carrying Bag for convenience.

Description	Part No.	Government Net Price
Thermatek Kit with Thermatek 6 lanyard (HL2000 Snaphooks)	10026061	$229.25
Thermatek Kit with Thermatek 12 lanyard (HL2000 Snaphooks)	10026062	$232.72
Thermatek Kit with Thermatek 6 lanyard (RL20 Snaphooks)	10026063	$236.19
Thermatek Kit with Thermatek 12 lanyard (RL20 Snaphooks)	10026064	$239.67

FALL PROTECTION KITS, continued

FP Pro™ Harnesses/Onyx™ Lanyard Kits

Two great products in one easy to order kit! These kits are available with your choice of a Cross Chest or Vest Style FP Pro Harness with or without hip D-rings, and with a single or twin leg Onyx Shock Absorbing Lanyard.

Description	D-Rings Back	D-Rings Hip	Part No.	Gov't Net Price
Cross-Chest Style, STD size, Qwik-fit leg straps, Onyx Lanyard	1	0	10033393	$51.94
Cross-Chest Style, STD size, Qwik-fit leg straps, Onyx Lanyard	1	2	10033392	$58.68
Vest Style, STD size, Qwik-fit leg straps, Onyx Lanyard	1	0	10033398	$54.64
Vest Style, STD size, Qwik-fit leg straps, Onyx Lanyard	1	2	10033397	$62.06
Cross-Chest Style, STD size, Qwik-fit leg straps, Onyx Twin Leg Lanyard	1	0	10033399	$76.22
Cross-Chest Style, STD size, Qwik-fit leg straps, Onyx Twin Leg Lanyard	1	2	10033396	$82.97
Vest Style, STD size, Qwik-fit leg straps, Onyx Twin Leg Lanyard	1	0	10033395	$78.92
Vest Style, STD size, Qwik-fit leg straps, Onyx Twin Leg Lanyard	1	2	10033394	$86.34
Cross-Chest, STD size, Tongue Buckle leg straps, Onyx Lanyard	1	0	10039544	$67.45
Cross-Chest, STD size, Tongue Buckle leg straps, Onyx Lanyard	1	2	10039547	$74.66
Vest Style, STD size, Qwik-fit chest strap and Tongue Buckle leg straps, Onyx Lanyard	1	0	10039550	$70.15
Vest Style, STD size, Qwik-fit chest strap and Tongue Buckle leg straps, Onyx Lanyard	1	2	10039553	$77.93

Additional sizes available. See Sizing Chart.

Stage Rigger's Kit

This Kit provides 100% protection while transferring from the vertical system (Dyna-Lock SRL P/N 506204) to a horizontal system (Sure-Line P/N SHL 1009-060-BLK). The all-black harness and shock-absorbing offers an unobtrusive appearance for concert and theatrical stage rigging operations.

The Carabiners (part no. SRCC643) are utilized for two functions:

• Positioning the user from the ladder rung of the stage rigging ladder via front attachment

• Provides a connection between the Stage Shock-Absorbing and the horizontal lifeline

Kit Includes:

• Gravity full body harness, P/N SSH80920-001
• Carabiner (2) P/N SRCC643
• Waistbelt (Large) P/N SSB9025D-021 (additional sizes are available)
• Stage shock-absorbing, P/N SWL202-04/RM
• Storage bag P/N SRB48623-2

Description	Part No.	Government Net Price
Stage Riggers Kit	10030603	$150.62

Remote Connect/Disconnect System

The Remote Connect/Disconnect system (RCD) may be used to secure an anchorage connector strap and install a fall arrest system to a qualified overhead anchorage point from ground level.

The RCD system consists of

• 15-foot telescoping pole with incremental adjustments
• Anchorage connector strap designed for use with the system
• Strap tool designed for easy installation and removal of the anchorage connector strap
• Connect/disconnect tool designed for connecting and disconnecting lifelines and lanyards
• Water-resistant nylon tote bag for storage of the system

The RCD system is compatible for use with any MSA Lifeline that uses RL20 Snaphooks and the Dyna-Lock Backpacker SRL. Optional rescue tools may be purchased.

Description	Part No.	Government Net Price
RCD system (contains telescoping pole, connect/disconnect tool, remote anchorage strap tool, remote anchorage connector strap, tote bag	501443	$458.41
Anchorage connector strap for RCD system, polyester	505314	$31.65
RCD telescoping pole	506507	$111.75
RCD connect/disconnect tool	506508	$211.56
RCD strap tool	506509	$91.51
RCD connect tool (rescue)	506589	$71.55
RCD knife tool (rescue)	506591	$142.95
RCD pole, fiberglass, multi-adjustable, modified (hastings pole)	506639	$202.50
Universal head adapter RCD to hastings pole	506640	$46.78
RCD pole, fiberglass, adjustable, unmodified (hastings pole)	506642	$172.28

Firefighting and Rescue Equipment from MSA

SELF-RETRACTING LANYARDS

Aptura™ LT12 SRL

MSA has set a new standard in the mechanical fall protection market with the Aptura LT12 Self-Retracting Lanyard (SRL). Never before has the market seen such a state-of-the-art device with so many standard features. With its solid design and fast acting brake mechanism, you can be confident that the Aptura LT12 SRL will be there to protect you when you need it most. Features include:

- A field-replaceable lifeline
- A 400 pound working capacity
- Integral load indicator
- A durable, engineered thermoplastic housing
- A lightweight design starting at 2.4 lbs
- No annual factory recertification required
- Integral swivel at SRL connector
- Meets ANSI A10.14, ANSI Z359.1, and all applicable OSHA standards, and is CSA certified

All these features and more combine to give you the lightest weight, most versatile SRL available on the market today.

Aptura™ LT12 SRLs

Line Length	SRL Connection	Field Lifeline Connection	Replacement Line	Part No.	Gov't Net Price
12'	None	Sewn Loop	Yes	10044227	$68.11
12'	None	LI Snap	Yes	10042171	$77.28
12'	Back D	HL2000	Yes	10044228	$82.84
12'	None	HL2000	Yes	10044229	$70.73
12'	1" Steel Carabiner	HL2000	Yes	10044320	$83.82
10'	None	Sewn Loop	Yes	10045784*	$68.11
10'	None	LI Snap	Yes	10045783*	$77.28
10'	Back D	HL2000	Yes	10045785*	$82.84
10'	None	HL2000	Yes	10045786*	$70.73
10'	1" Steel Carabiner	HL2000	Yes	10045787*	$83.82

* CSA Certified.

Aptura™ LT12 Lifeline Replacement Kits

Line Length	Connection	Part No.	Gov't Net Price
12'	Sewn Loop	10044752	$11.51
12'	HL2000 Snap	10044701	$14.73
12'	HL2000 Swivel Snap	10044702	$25.54
12'	RL20 Snap	10044703	$18.99
12'	RL20 Swivel Snap	10044704	$37.33
12'	LI Snap	10044705	$20.96
12'	1" Steel Carabiner	10044706	$24.89
12'	1" Aluminum Carabiner	10044707	$32.74
12'	1" Steel Swivel Carabiner	10044708	$37.66
12'	LS Snap	10044709	$15.39
12'	AL64 Snap	10044770	$35.36
10'	LI Snap	10045889*	$20.96
10'	Sewn Loop	10045940*	$11.46

* CSA Certified.

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR APTURA LT SELF-RETRACTING LANYARD

Prices are 34.51% discount off 2005 Price List.

Assemble-to-Order (ATO) System: You Make the Choices

The ATO System makes it easy to "custom order" the Aptura SRL, configured exactly the way you want it.

Approval			Line Length			SRL Connector			Lifeline Connector			Field Replacement Line		
N	Non-CSA	$68.11	01	6'	$0.00	00	None	$0.00	00	None	$0.00	0	No	$0.00
C	CSA	$68.11	02	7'	$0.00	01	Back D-Ring Connector (P/N SRCC413)	$12.12	01	HL2000 Snaphook (P/N 10002490)	$2.62	1	Yes	$0.00
			03	8'	$0.00	02	1" Aluminum Carabiner (P/N SRCA853)	$21.28	02	Swivel HL2000 Snaphook (P/N 10023769)	$13.75			
			04	9'	$0.00	03	1" Steel Carabiner (P/N SRCC643)	$13.10	03	RL20 Snaphook (P/N 520603)	$7.20			
			05	10'	$0.00	04	2" Aluminum Carabiner (P/N SRCA722)	$37.98	04	Swivel RL20 Snaphook (P/N 520691)	$25.87			
			06	11'	$0.00	05	2" Steel Carabiner (P/N 506308)	$26.20	05	LI Aluminum Snaphook (P/N 10014393)	$9.17			
			07	12'	$0.00				06	1" Steel Carabiner (P/N SRCC643)	$13.10			
			08	13'	$106.09				07	1" Aluminum Carabiner (P/N SRCA853)	$21.28			
			09	14'	$106.09				08	1" Steel Swivel Carabiner (P/N 10021804)	$25.87			
			10	15'	$106.09				09	LS Snaphook (P/N SHWSS31690LS)	$3.93			
			11	16'	$106.09				10	AL64 Snaphook* (P/N 10043811)	$23.90			
			12	17'	$106.09				11	LS Swivel Snaphook (P/N 10053393)	$20.30			
			13	18'	$106.09									
			14	19'	$106.09									
			15	20'	$106.09									
			16	21'	$106.09									
			17	22'	$106.09									
			18	23'	$106.09									
			19	24'	$106.09									
			20	25'	$106.09									
			21	26'	$106.09									
			22	27'	$106.09									
			23	28'	$106.09									
			24	29'	$106.09									
			25	30'	$106.09									

- ATO orders ready to ship in 2–5 days after receipt of order.
- SRLs ordered using the ATO System are non-returnable.
- Line lengths available from 6' to 30' in 1-foot increments.
- All line lengths from 13' to 30' cost $106.09.
- If the CSA Approval Option is chosen, the APTURA SRL line length is limited to 10' due to CSA requirements.

* Only available with Back D-Ring Connector

+ $\_\_\_\_$ + $\_\_\_\_$ + $\_\_\_\_$ + $\_\_\_\_$ + $\_\_\_\_$ + $\_\_\_\_$

A-APT _____

Part No.

Quantity

= **Total Aptura SRL List Price**

$____

All pricing in US dollars

Dyna-Lock Self-Retracting Lanyards

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. Meets ANSI Z359.1, ANSI A10.14, and applicable OSHA standards.

No Factory Re-certification on MSA Mechanical Products

Capacity (working load)

For 20' web, 50', 70', and 95' cable Dyna-Lock Models:
- Maximum: 400 lbs (181 kg)
- Minimum: 75 lbs (34 kg)

For 20' cable Dyna-Lock, Short-Stop, and Sure-Lock Models:
- Maximum: 310 lbs (140 kg)
- Minimum: 75 lbs (34 kg)

Arrest Force
- 75–310 lbs < 900 lbf
- 311–400 lbs < 1800 lbf

Arrest Distance
- 75–310 lbs < 40 in
- 311–400 lbs < 54 in

DYNA-LOCK SRLs RATED TO A CAPACITY OF 400 LBS*
*400 lbs capacity applies to the following models: 20' web Dyna-Lock, 50', 70', & 95' cable Dyna-Locks.

Description	Part No.	Gov't Net Price
Dyna-Lock SRL, galvanized wire rope, RL20S, 10M (30')	506202	$478.06
Dyna-Lock SRL, galvanized wire rope, RL20S, 16M (50')	506204	$523.90
Dyna-Lock SRL, galvanized wire rope, RL20S, 22M (70')	506206	$654.88
Dyna-Lock SRL, galvanized wire rope, RL20S, 30M (95')	506208	$687.62
Dyna-Lock SRL, stainless steel wire rope, RL20S, 10M (30')	506203	$510.80
Dyna-Lock SRL, stainless steel wire rope, RL20S, 16M (50')	506205	$543.55
Dyna-Lock SRL, stainless steel wire rope, RL20S, 22M (70')	506207	$687.62
Dyna-Lock SRL, stainless steel wire rope, RL20S, 30M (95')	506209	$720.36
Dyna-Lock SRL, stainless steel wire rope, RL20S, Roughneck™ version, 10M (30')	506330	$687.62
Dyna-Lock SRL, stainless steel wire rope, RL20S, Roughneck™ version, 16M (50')	506331	$720.36
Dyna-Lock SRL, stainless steel wire rope, RL20S, Roughneck™ version, 22M (70')	506332	$785.85
Dyna-Lock SRL, stainless steel wire rope, RL20S, Roughneck™ version, 30M (95')	506333	$818.59
20' Strap Dyna-Lock, nylon, RL20S	506615	$229.21
20' Wire Rope Dyna-Lock, stainless steel, RL20S	10017931	$288.15

Dyna-Lock® SRL with 50' Galvanized Wire Rope

Dyna-Lock® SRL with 20' Wire Rope

Dyna-Lock® SRL with 20' Strap

Backpacker™ SRL

Description	Part No.	Government Net Price
Backpacker 20' strap Dyna-Lock, nylon, RL20S	506619	$278.32

Short-Stop® SRL

Description	Part No.	Government Net Price
Short-Stop 10' web, nylon	10004277	$92.85
Adapter for Short-Stop, provides full remote connect/disconnect capability for the Short-Stop	10007933	$36.78
Short-Stop 10' web, nylon, swivel shackle (eye to eye) on top end	10027500	$86.69
Short-Stop 10' web, nylon, captive carabiner connector on top end	10021840	$106.64

Backpacker™

Short-Stop®

Sure-Lock™ SRL

Description	Part No.	Government Net Price
Sure-Lock 7' strap, swivel, autolock carabiners both ends	SFP6902-002	$116.59
Sure-Lock 7' strap, SHWS3175RM/SHWS31693	SFP6902-007	$102.65

Sure-Lock Optional Top/Bottom Hardware

Description	Part No.	Government Net Price
Carabiner, steel, autolock	SRCC413	$14.41
Snaphook, locking, swivel	SHWS31693	$19.10
Swivel, steel	SHWFL28FD	$16.90
Swivel belt connector (fits 1-1/4" belt)	SHWFL29	$40.40
Screw lock 5/16" quick link	SMI420560	$3.45

P/N SFP6902-002

P/N SFP6902-007

CONFINED SPACE EQUIPMENT

MSA confined space entry/retrieval equipment systems are designed for fall arrest, lifting and lowering, rescue, and workpositioning applications. They incorporate an anchorage connector, fall arrest component, a personnel and materials handling hoist, and associated hardware to rig the systemn foruse. The systems can be used for leading edge work, maintenance and entry/retrieval from manholes, tank cars, silos, tanks, vaults, pits, vats, and other confined space applications.

Lynx™ Rescuer, Field Resettable Model with Lockout
- Self-retracting lanyard device with emergency retrieval capabilties
- User is able to reset device from retreival mode to fall arrest mode
- The easiet, quickest field-reset mechanism on the market
- Same unit can be used in the field and for training situations
- Lock feature with key allows more control over who can reset unit to fall arrest mode
- Confined space entry provides fall arrest andf emergency lifting and lowering
- Meets all applicable ANSI and OSHA standards

Description	Part No.	Government Net Price
16M (50') Self-Retracting Lanyard with Emergency Rescuer, 3/16" diameter stainless steel line. With proper inspection, system may be reused after fall arrest and/or retrieval.	10011744	$1047.80
30M (95') Self-Retracting Lanyard with Emergency Rescuer, 3/16" diameter stainless steel line. With proper inspection, system may be reused after fall arrest and/or retrieval.	10011745	$1244.26

Dynevac® II SRL, Field-Resettable Model
- Self-retracting lanyard with emergency retrieval capabilities
- The easiest, quickest reset mechanism on the market
- Allows user to reset device from retrieval mode to fall arrest mode
- Same unit can be used in the field and for training situations
- Has same proven rescue system as the original Dynevac SRL
- Confined space entry provides fall arrest and emergency lifting and lowering

Description	Part No.	Government Net Price
16M (50') Dynevac II SRL with Emergency Rescuer, 3/16" diameter, stainless steel line. With proper inspection, system may be reused after fall arrest and/or retrieval.	10007782	$1113.29
30M (95') Dynevac II SRL with Emergency Rescuer, 3/16" diameter, stainless steel line. With proper inspection, system may be reused after fall arrest and/or retrieval.	10007783	$1375.24

Lynx Hoist Personnel/Material Hoist
- A rugged, versatile and economical hoist for lifting, lowering and positioning of personnel and materials
- Designed for a maximum work load of 310 lbs for personnel and 620 lbs for materials
- Anti-backlash crank handle with a lifting/lowering speed of 25 ft per minute.
- Load-limiting clutch prevents loading hoist
- Emergency drive allows manual bypass of load-limiting clutch for extra lifting capacity in an emergency
- Primary gear backed up by two independent secondary brakes
- Air drive adapter enables powered lifting/lowering with separate air-powered drive assembly

Description	Part No.	Gov' Net Price
Side Mount with Emergency Drive and Air Drive Adapter,		
50' Galvanized Wire Rope	10016569	$902.43
105' Galvanized Wire Rope	10016568	$1000.35
50' Stainless Steel Wire Rope	10016567	$1000.35
105' Stainless Steel Wire Wire Rope	10016566	$1028.14
Boom Mount with Emergency Drive and Air Drive Adapter,		
50' Galvanized Wire Rope	10016683	$1125.40
105' Galvanized Wire Rope	10016682	$1153.19
50' Stainless Steel Wire Rope	10016681	$1153.19
105' Stainless Steel Wire Wire Rope	10016680	$1180.98
Socket Mount with Emergency Drive and Air Drive Adapter,		
50' GalvanizedWire Rope	10016695	$1208.24
105' Galvanized Wire Rope	10016694	$1231.17
50' Stainless Steel Wire Rope	10016693	$1231.17
105' Stainless Steel Wire Wire Rope	10016684	$1270.46
Air Drive Assembly	506420	$2030.11
Side Mount Pulley/Bracket Assembly for Lynx Tripod	506473	$125.22

Lynx Hoist

Meets all applicable ANSI and OSHA standards

Side Mount Hoist Pulley and Bracket Assembly
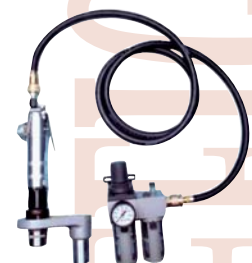
Air Drive for powered lifting/lowering

Lynx Boom Mount Hoist

Firefighting and Rescue Equipment from MSA

Folding Davit and Base

The Folding Davit and Base is a portable, economical anchorage connector used where a tripod will not work. It's available with a zinc-plated alloy-steel davit arm and your choice of zinc-plated carbon steel or stainless steel Davit Base. This lightweight device provides a 24-inch reach and 77 inches of head clearance. It pivots 360° and can readily maneuver personnel and materials between spaces below the deck where it is mounted. The Folding Davit may be carried from base to base and installed in minutes. Meets or exceeds ANSI Z359.1, ANSI A10.14, and applicable OSHA requirements.

Column Davit and Base

The Column Davit and Base are used for more permanent conditions where a tripod will not work. Available with a zinc-plated alloy-steel Davit arm and zinc-plated carbon steel or stainless steel bases. Provides a 30-inch reach and 77 inches of head clearance. May be mounted to horizontal, vertical, and subsurface appropriate anchorage points. Pivots 360°. Meets or exceeds applicable OSHA requirements.

Folding Davit and Base

Column Davit and Base

Davitruck™ System

Rose Davitruck™ System

The Rose Davitruck™ System is a vehicle-mounted davit which provides a mobile Fall Rescue Work System. It connects to a standard Class III (2" x 2") trailer hitch and can be erected and stowed in minutes. Constructed of zinc-plated steel, it provides a 5,000 lb anchorage connector for rigging a personal fall arrest system. Meets or exceeds ANSI Z359.1, ANSI A10.14, and applicable OSHA requirements.

Description	Part No.	Government Net Price
Davitruck (Vehicle-Mounted Davit)	506356	$2324.81
Bracket for Mounting 10M (30')/ 16M (50') Dyna-Lock, Dynevac II, & Dynevac to Davitruck	506622	$162.80
Same as Above Bracket, but for 22M (70')/ 30M (95')	506362	$138.17
Column Davit Arm, 30" Reach, 77" Working Height, Boom Arm swivels to extend over work area	506568	$658.57
Vertical Davit Mounting Receptacle for Column Davit Arm	506344	$327.44
Surface Mounting Receptacle for Column Davit Arm	506492	$510.80
Column Davit Arm for Subsurface Mounting, 30" Reach, 77" Working Height, 108" Total Vertical Height for subsurface mounting.	415001	$776.03
Subsurface Mounting Receptacle for Column Davit Arm (Part No. 415001)	506488	$284.87
Folding Davit Arm, 24" Reach, 77" Working Height, Swivels to extend over work area, folds for ease of transport & storage	506613	$386.38
Folding Davit Base	506614	$227.74
Folding Davit Base, Stainless Steel	506623	$552.54
Bracket for mounting 10M (30')/16M (50') Dyna-Lock & Dynevac to Folding Davit	506622	$162.80
Bracket for mounting 10M (30')/16M (50') Dyna-Lock & Dynevac to Folding Davit	506362	$138.17
Vertical Davit Arm - Ladder Mount	506668	$169.94
Receptacle for Vertical Davit Arm - Ladder Mount (Bolts to Ladder)	506667	$115.26
Push-Pull Davit - Ladder Mount, Bolts to Ladder and Retracts to Allow Hatch Cover to Close, Extends 60" above hatch when extended.	415837	$415.56
Stanchion Davit Arm for Surface Mounting, 60" Length (end to end)	506677	$148.38
Stanchion Davit Surface Mounting Base Receptacle	506678	$157.17
Stanchion Davit Arm for I-Beam Mounting, 90" Length (end to end)	415953	$180.61
Stanchion Davit I-Beam Mounting Base Receptacle	415954	$151.36
Davit Brackets Note: These brackets can be used with the Column Davit Arm (506568) and Column Davit Arm for subsurface mounting (415001).		
Bracket for mounting 10M (30')/ 16M (50') Dyna-Lock , Dynevac II, & Dynevac to Column Davit, Aluminum, (Requires Part No. 506590)	506232	$122.47
Same as Above, but for 22M (70')/ 30M (95')	506216	$123.65
Bracket for mounting Dyna-Lock, Dynevac II, or Dynevac to Column Davit, (Requires Part No. 506216 or 506232)	506590	$271.77
Holster - stores Boom Mount Hoist when not in use	506603	$84.23
General Mechanical Accessories		
Cab mounting bracket to use with 20' strap Dyna-Lock, tp mount on forklifts	506232	$122.47
1/4" rope, nylon, tag line, 30'	505230	$22.87
1" rope, nylon, tag line, 30'	505292	$15.28
Confined Space Accessories		
Bosun's Chair, Suspension Seat, Nylon, with Spreader Bar	501012	$101.51
Pulley, Swivel Mount with Pin	506674	$106.98
Wristlets, Nylon	507002	$22.79
1/2" Rope, Nylon, thimble center, 6' each leg, RL20 snaphooks on each end no Spreader Bar	505199	$28.85
1/2" Rope, Nylon, thimble center, 6' each leg, HL2000 snaphooks on each end, 14" Spreader Bar	507128	$32.74

MSA

CONFINED SPACE ENTRY KITS

(see Data Sheet 2300-18)

Lynx Tripod Kit #1   **Lynx Tripod Kit #2**   **Lynx Tripod Kit #2**   **Lynx Davit Kit #1**   **Lynx Davit Kit #2**

Confined Space Entry Kits make it easy for you to order the system which best suits your confined space needs. The Confined Space Entry Kits feature:

• A variety of Kits to meet your needs, including 3 Tripod Kits and 2 Folding Davit Kits

• Single Part Number for simplified ordering

• Confined Space Kits with Lynx Rescuer allow for non-entry rescue of a confined space entrant

• Tripod and Davit Kits allow for great portability

• Includes a training video

• Contains equipment bags for ease of carrying and storage

Description	Part No.	Government Net Price
Confined Space Entry Kit - Tripod #1 *Kit includes:* Lynx 8' Tripod (P/N 10020050), Lynx Rescuer 16m (P/N 10011744) Lynx Rescuer Mounting Bracket for Tripod (P/N 506232) Split Mount Pulley (P/N 506222), Tripod Carrying Bag 8' (P/N 507149) Lynx Rescuer carrying bag (P/N 507151), Confined Space Training Video (P/N 10007825)	10023966	$1787.81
Confined Space Entry Kit - Tripod #2 *Kit includes:* Lynx 8' Tripod (P/N 10020050), Side Mount Lynx Hoist, with 50' galv. line (P/N 10016569) Side Mount Lynx Hoist, Pulley Bracket Assembly (P/N 506473) Tripod Carrying Bag 8' (P/N 507149), Lynx Hoist carrying bag (P/N 507151) Confined Space Training Video (P/N 10007825)	10023967	$1650.29
Confined Space Entry Kit - Tripod #3 *Kit includes:* Lynx 8' Tripod (P/N 10020050), Lynx Rescuer 16m (P/N 10011744) Lynx Rescuer Mounting Bracket for Tripod (P/N 506232), Split Mount Pulley (P/N 506222) Side Mount Lynx Hoist, with 50' galv. line (P/N 10016569) Side Mount Lynx Hoist, Pulley Bracket Assembly (P/N 506473) Tripod Carrying Bag 8' (P/N 507149), Lynx Rescuer & Lynx Hoist carrying bag (P/N 507151) (Qty. 2) Confined Space Training Video (P/N 10007825)	10023968	$2920.74
Confined Space Entry Kit - Davit #1 *Kit includes:* Folding Davit Base (P/N 506614), Folding Davit Arm (P/N 506613) Side Mount Lynx Hoist, with 50' galv. line (P/N 10016569), Split Mount Pulley (P/N 506222) Lynx Hoist carrying bag (P/N 507151), Confined Space Training Video (P/N 10007825)	10023969	$1689.93
Confined Space Entry Kit - Davit #2 *Kit includes:* Folding Davit Base (P/N 506614), Folding Davit Arm (P/N 506613) Lynx Rescuer 16m (P/N 10011744), Lynx Rescuer Mounting Bracket (P/N 506622) Side Mount Lynx Hoist, with 50' galv. line (P/N 10016569), Split Mount Pulley (P/N 506222) Lynx Rescuer & Lynx Hoist carrying bag (P/N 507151) (Qty. 2) Confined Space Training Video (P/N 10007825)	10024020	$2930.57
Confined Space Training Video	10007825	$4.01

Firefighting and Rescue Equipment from MSA

DESCENT DEVICES

Manually Controlled Dynescape® Descender

The manually controlled Dynescape Descender is a rescue and evacuation device designed to descend the user to ground level using the user's or rescuer's control. The user has the ability to control the descent speed of the device by gripping the descent handle and rotating it upward. The user/rescuer has the ability to control the descent speed.

Automatic Dynescape® Descender

The Automatic Dynescape Descender is a rescue and evacuation device designed to automatically lower the user to ground level from a height. A frictional brake governs the extraction of the wire rope to a maximum of 6 feet per second.

Description	Part No.	Government Net Price
Manual Dynescape Descender System *Includes:* 50' rope, anchorage connector strap, carabiner, carry bag	506416	$409.37
Manual Dynescape Descender System *Includes:* 100' rope, anchorage connector strap, carabiner, carry bag	415811	$430.71
Manual Dynescape Descender System *Includes:* 150' rope, anchorage connector strap, carabiner, carry bag	415812	$456.42
Automatic Dynescape Descender, 50' wire rope	506630	$1140.14
Automatic Dynescape Descender, 150' wire rope	506262	$1376.02

Anthron Descender

The Anthron Descent Controller is a manually operated controlled descent device. It is most commonly used for suspended work positioning, self evacuation, or rescue operations. The device utilizes a cam assembly that provides friction on the rope to hold a load, or allow the load to descend at a controlled rate. To begin descent, the user depresses the control lever on the Anthron. If the control lever is fully depressed in a panic situation, the descent will stop. Other features include:

• Proper roping/rigging diagrams on the side of the Anthron Descender
• Device can be installed/removed at any point on the rope
• Working load of 300 lbs (136 kg)
• System consists of a 7/16" (11mm) rope, the Anthron Descender, and 2 carabiners

Description	Part No.	Government Net Price
Anthron system includes: Anthron descender, 2 carabiners, 50' rope	SDC726-050	$183.37
Anthron system includes: Anthron descender, 2 carabiners, 100' rope	SDC726-100	$216.11
Anthron system includes: Anthron descender, 2 carabiners, 150' rope	SDC726-150	$248.85
Anthron descender	SDSD-25	$72.04
Replacement rope, 7/16" (11mm) Static Kernmantle synthetic 50' length 100' length 150' length	SDC716-050 SDC716-100 SDC716-150	$74.57 $95.66 $130.17
Rope/equipment bag, holds 300' (90m) rope	SRB431101	$101.72
Rope/equipment bag, #3 Cordura, orange, holds 300' (90m) rope	SRB430305	$31.49

LADDER CLIMBING EQUIPMENT

Sure-Climb™ Temporary Cable System

The Sure-Climb Temporary Ladder Cable System is designed to provide fall protection when climbing or descending ladders or vertical structures up to 300' in height. The Sure-Climb temporary system:

• Is available in 2 versions; with an integral shock absorber, or with an energy-absorbing top mounting bracket
• Includes an integral, adjustable line weight
• Uses a stainless steel fall arrester (ordered separately)
• Uses a 5/16" galvanized steel cable
• Meets all applicable OSHA regulations and ANSI standards

Additional Lengths available from 50 ft. up to 200 ft. in fifty foot increments

Description	Part No.	Government Net Price
Sure-Climb System with integral shock absorber, 100 ft (30 m)	SFPLS353/100	$151.95
Sure-Climb System with integral shock absorber, 200 ft (60 m)	SFPLS353/200	$182.99
Sure-Climb Slider (fall arrester) with carabiner (sold separately)	SFPLS350-020	$189.51
Sure-Climb System with energy-absorbing top mounting bracket, 100 ft (30 m)	SFPLS350/100	$258.68
Sure-Climb System with energy-absorbing top mounting bracket, 100 ft (30 m)	SFPLS354/100	$197.46
Sure-Climb System with energy-absorbing top mounting bracket, 200 ft (60 m)	SFPLS350/200	$327.44

Manual Dynescape Descender

Automatic Dynescape Descender

Anthron Descender

Anthron Systems and Replacement Ropes available in lengths of 25' increments from 50' up to 300'

Sure-Climb System with Integral Shock Absorber

Sure-Climb Slider (sold separately)

Sure-Climb™ Permanent Cable System

The Sure-Climb Permanent Ladder Cable System is designed to provide fall protection when climbing or descending ladders or vertical structures up to 300 ft in height. Applications include telecommunication towers, light poles, water towers, hydroelectric towers, stacks and any other climbable structure. The Sure-Climb permanent system:

- Includes energy-absorbing galvanized steel top and bottom mounting brackets
- Uses a 5/16" galvanized steel cable
- Incorporates cable guides to minimize cable vibration and wear
- Meets all applicable OSHA regulations and ANSI standards

Description	Part No.	Government Net Price
Sure-Climb System 50 ft (16m)	SFPLS350/50	$216.11
Sure-Climb System 100 ft (30m)	SFPLS350/100	$258.68
Sure-Climb System 150 ft (45m)	SFPLS350/150	$288.15
Sure-Climb System 200 ft (60m)	SFPLS350/200	$327.44
Sure-Climb Slider (Fall Arrester) with Carabiner	SFPLS350-020	$189.51

Additional lengths available from 20 ft. up to 300 ft. in 10 ft. increments.

Latchways Ladderlatch™ Permanent Cable System

The Latchways LadderLatch™ Permanent Cable Systems are designed to provide fall protection when climbing or descending ladders or vertical structures. The flexibility of the design allows a system to be installed so that it follows the contours of the structure, including horizontal and inclined sections. The variety of mounting brackets allow for quick and easy installation to almost any type of structure. This allows the system to be installed by your own personnel; however, installation services are available from MSA upon request. Other features of the LadderLatch system include:

- Lifeline that will support up to 4 workers
- LadderLatch fall arrester that can be attached or detached at any point on the cable
- Wide variety of mounting brackets available
- Top anchor extension assembly to extend lifeline approximately 4 ft. above ladder
- Cable guide to reduce cable vibration and wear
- Line tensioning device with proper line tension indicator
- System components made of stainless steel
- Meets applicable OSHA regulations and ANSI standards

Description	Part No.	Government Net Price
LadderLatch unit	SFPLM3000L	$345.34
Top anchor extension assembly	SFPLM30001	call for prices
Bottom anchor assembly	SFPLM30002	call for prices
Wire guide assembly	SFPLM30003	call for prices
Top anchor extension mounting bracket kit for round rungs (kit includes 2 brackets)	SFPLM30004	call for prices
Top anchor extension mounting bracket kit for square or angled rungs (kit includes 2 brackets)	SFPLM30005	call for prices
Bottom anchor bracket for round rungs	SFPLM30006	call for prices
Bottom anchor bracket for square or angled rungs	SFPLM30007	call for prices
Wire guide mounting bracket for round rungs	SFPLM30008	call for prices
Wire guide mounting bracket for square or angled rungs	SFPLM30009	call for prices
Top anchor assembly (including V-Xtenda)	SFPLM300011	call for prices
Top anchor mounting bracket kit for square or angled rungs (kit includes 2 brackets)	SFPLM300012	call for prices
Top anchor mounting bracket kit for round rungs (kit includes 2 brackets)	SFPLM300013	call for prices
Cable, 5/16" 7 x 7 stainless steel (ordered per foot)	SLM84000	call for prices
Cable, 5/16" 1 x 19 stainless steel (ordered per foot)	SLM30000	call for prices

Sure-Climb Permanent Cable System

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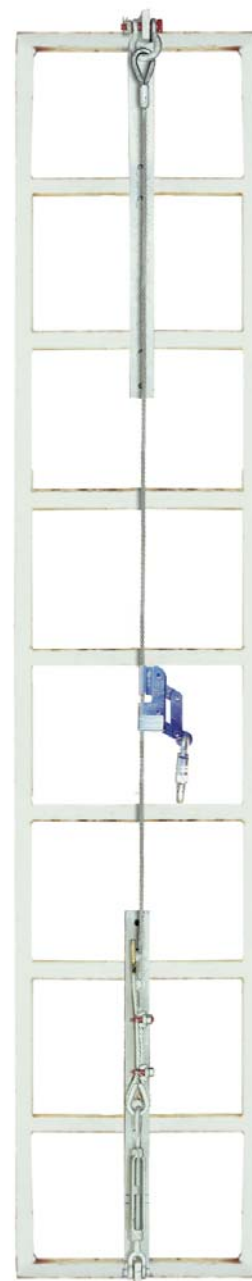
Dyna-Glide™ Climbing Protection System

(see Data Sheet 1300-22)

The Dyna-Glide Climbing Protection System is a rigid rail climbing system used to prevent and/or arrest falls from heights while enhancing the way a climber is able to perform the necessary work. Our systems can be mounted to already-installed ladders, to corners of lattice towers, and to other suitably strong structures your crew needs to climb. Using different Rose mounting assemblies, Dyna-Glide systems can be attached to almost any structure that it's permissible to climb. In addition, systems can be constructed to continuously protect climbers—whether they're traveling vertically, horizontally, or around curves, corners, or obstacles.

The Dyna-Glide Climbing Protection System has many benefits, including:

Dyna-Glide Fall Arrester

Ungated Top Endstop

Gated Top Endstop

Gated Bottom Endstop

LRC Combination

Pivot Davit

- Limits total fall distance to inches – shock loads are below the threshold of injury and well below maximum limits set by OSHA
- Offers components for complete rescue systems
- Allows for vertical and horizontal mobility
- Uses galvanized or stainless steel for corrosion resistance
- Offers your choice of Ladder Rail Combination (LRC) or rail only systems
- Provides smooth travel – there's no binding of the Fall Arrester inside the rail
- Rail and LRC Sections are available in straight or curved sections – enough choices to fit almost any size or shape of structure

- Offers many different configurations – plus all of the accessories and mounting brackets to fit virtually any application
- Eliminates concern of system slippage found in frictional design systems – all because of our Mechanical Design
- Offers product life of 20+ years – that's at least 3 times the life (3–7 years) of standard cable systems
- Offers sufficient foot-clearance on either side of rail for easy climbing (Integral rail of Ladder/Rail Combination System)
- Uses rugged steel members which can direct potential fall arrest loads into ground rather than into the structure – reduces stress to, and prevents damage to, structure during climbing operations

- Orients fallen worker in upright position, face towards climbing structure
- Operates using detachable, lightweight, stainless steel and aluminum mechanism for hands-free ascent and descent. A simple, durable, easy-to-use Fall Arrest System
- Shows a decade-plus track record of performing in some of the most severe weather conditions in the world

Description	Part No.	Government Net Price
Straight Notched Rail, Galvanized Standard Length 7' 4D/bg"	506270	$22.27
Straight Notched Rail, Stainless Steel	506288	$69.74
Rung Mount Assembly, Galvanized	506273	$5.89
Rung Mount Assembly, Stainless Steel	506286	$33.71
Gated Top End Stop, Stainless Steel	506274	$33.40
Gated Bottom End Stop, Stainless Steel	506275	$36.67
Fall Arrester	506277	$189.91
Straight Notched Rail, Galvanized Standard Length 7' 4D/bg"	506280	$16.26
Mounting Base Angle Corner, Galvanized	506282	$155.10
Mounting Angle Corner, Galvanized	506283	$96.11
Ungated Top End Stop, Stainless Steel	506312	$12.63
Rail Connector, Galvanized	506329	$4.58
Rail Connector, Stainless Steel	506334	$26.20

Description	Part No.	Government Net Price
Horizontal Gated End Stop, Stainless Steel	506337	$37.79
Pivot Davit	506357	$262.60
Pivot Davit with Ring	506414	$235.76
Ladder/Rail Combination (LRC) Standoff Bracket, Galvanized, Standard Length 7' 4D/bg"	506388	$65.49
Ladder/Rail Combination (LRC) Standoff Bracket, Bottom, Galvanized	506389	$171.33
Ladder/Rail Combination (LRC), Galvanized	506390	$105.24
LRC Side Rail Connector, Galvanized	506391	$5.89
LRC Standoff Bracket & Assembly, Galvanized Twin Arm and Adjustable Plate Assembly	506392	$49.20
Ice Scraper Assembly	506405	$151.36

MSA

TEMPORARY HORIZONTAL LIFELINES

Dyna-Line™ Horizontal Lifeline

Designed for easy installation and removal, the Dyna-Line is a temporary horizontal lifeline system created for a wide range of applications. The system may be mounted to any suitable 5,000 lb rated anchorage. The highly visible 12 strand red rope will not hockle and minimizes fall distance due to its low stretch properties. The system is available in a Single Worker or Two Worker system at 30 ft and 60 ft rope lengths; however, lengths up to 200 ft are available through special order. Meets all OSHA requirements and ANSI A10.14 standards.

Description	Part No.	Government Net Price
Dyna-Line Horizontal Lifeline for single worker, 30 ft rope	10013150	$214.66
Dyna-Line Horizontal Lifeline for single worker, 60 ft rope	10013151	$240.80
Dyna-Line Horizontal Lifeline for single worker, 100 ft rope	10019084	$282.09
Dyna-Line Horizontal Lifeline for single worker, 200 ft rope	10022826	$385.29
Dyna-Line Horizontal Lifeline for two workers, 30 ft rope*	10013152	$300.66
Dyna-Line Horizontal Lifeline for two workers, 60 ft rope*	10013153	$326.81
Dyna-Line Horizontal Lifeline for two workers, 100 ft rope*	10019085	$368.09
Dyna-Line Horizontal Lifeline for two workers, 200 ft rope*	10022827	$471.29

* Dyna-Line Two Worker system includes 2 polyester anchorage straps.

Sure-Line™ Horizontal Lifeline

The Sure-Line temporary Horizontal Lifeline is a lightweight cable system that is suspended between two approved anchor points to provide worker fall protection during horizontal movement. Designed for quick and easy installation at temporary work sites, the Sure-Line system:

- Includes an integral shock absorber
- Available in 20 ft, 40 ft, or 60 ft lengths
- Incorporates a combination clamp/thimble that allows for effortless tensioning o f lifeline
- Available in 2 models, with or without turnbuckle
- Rated for up to 2 people

Sure-Line Steel Cable System

Description	Part No.	Government Net Price
Steel Cable Horizontal Lifeline System with turnbuckle, 20 ft (6 m)	SHL2009/020	$199.80
Steel Cable Horizontal Lifeline System with turnbuckle, 40 ft (12 m)	SHL2009/040	$219.78
Steel Cable Horizontal Lifeline System with turnbuckle, 60 ft (18 m)	SHL2009/060	$239.76
Iron Worker Cable Horizontal Lifeline System without turnbuckle, 60 ft (18 m)	SHL2009/060-IW	$191.32

PERMANENT HORIZONTAL LIFELINES

Horizon™ Horizontal Lifeline

The MSA Horizon Horizontal Lifeline anchorage connecting system is designed for portability, versatility, ease of installation and ease of use. The system may be mounted to existing overhead steel beams or to newly constructed steel structure where overhead anchorage points are not available. Horizontal travel through intermediate supports is achieved without disconnection of the worker's personal fall arrest system. The system may accommodate up to five persons. The unique shock absorber reduces dynamic forces transmitted to the anchorage points. Stanchion system may be installed on the top or bottom flange of an I-beam. Meets OSHA requirements.

Horizontal Lifeline—Basic Below Beam Mount (60-ft Kit shown)
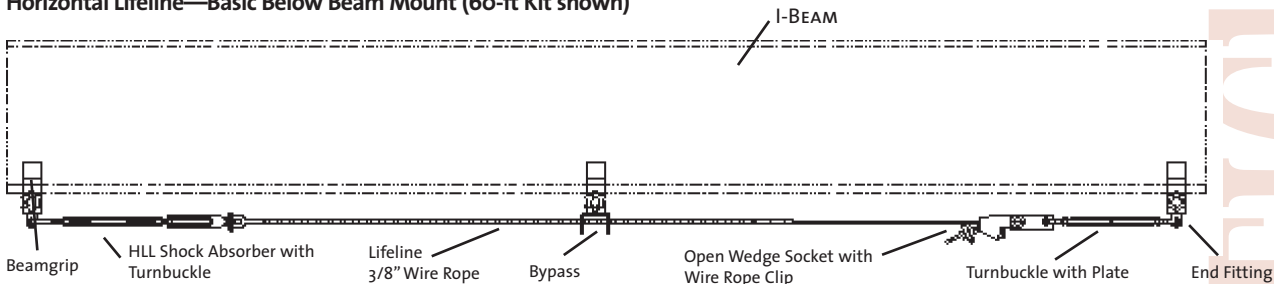
Basic Below Beam Mount Sub-System

Description	Part No.	Gov't Net Price
Beamgrip for beams with flange width: 3.94" to 5.64" flange thickness: .215" to .622"	506682	$153.90
Beamgrip for beams with flange width: 5.5" to 8.0" flange thickness: .44" to .56"	415171	$153.90
Beamgrip for beams with flange width: 8.06" to 10.475" flange thickness: .66" to .76"	415172	$180.09
Beamgrip for beams with flange width: 10.265" to 12.8"flange thickness: .85" to .99"	415173	$160.44
Horizontal lifeline shock absorber	415836	$163.25

Description	Part No.	Gov't Net Price
3/8" open wedge socket	506563	$57.71
Beamgrip bypass fitting	506636	$43.90
Beamgrip end fitting	506637	$36.02
3/8" wire rope*, 30' galvanized	506648	$104.78
12" turn buckle with plate	506662	$72.04
Snatch block pulley for 3/8" wire rope	506663	$104.78
Snatch block pulley for 1/2" wire rope	506254	$159.91
Snatch block pulley for 5/8" wire rope	506255	$180.09

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Firefighting and Rescue Equipment from MSA

Below Beam Horizontal Lifeline Kits   Choose from 4 kits.
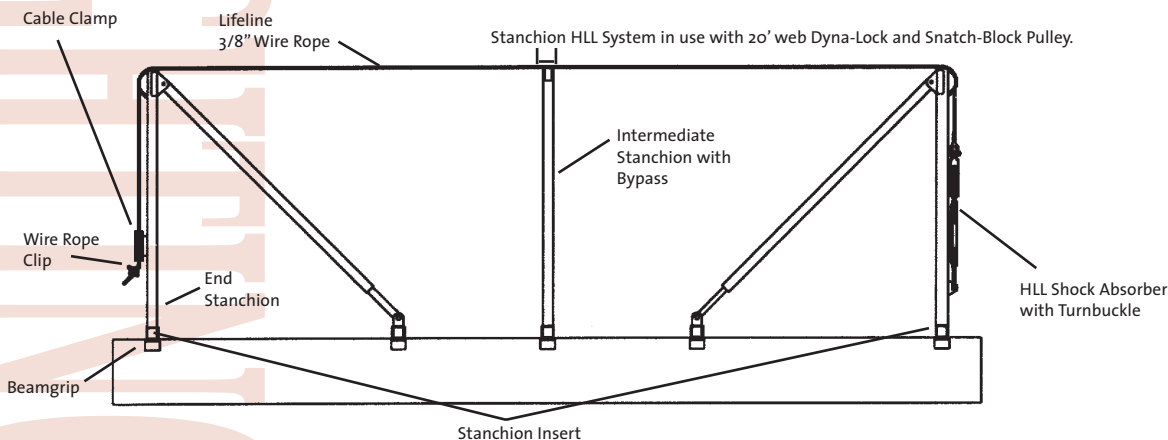
30 ft kits include:
- 2 beamgrips (choose from P/N 415171 or P/N 415172)
- 2 end fittings (P/N 506637)
- Shock absorber (P/N 415836)
- Lifeline (P/N 506648 - 30 ft)
- Open wedge socket (P/N 506563)
- Turnbuckle (P/N 506662)

60 ft kits include:
- 3 beamgrips (choose from P/N 415171 or P/N 415172)
- 2 end fittings (P/N 506637)
- Shock absorber (P/N 415836)
- Lifeline (P/N 506648 - 60 ft)
- Open wedge socket (P/N 506563)
- Turnbuckle (P/N 506662)
- Manual Bypass (P/N 506636)

Description	Part No.	Government Net Price
HLL Kit #1, 30' Below Beam system, for I-beams with: flange width 5.5" - 8", flange thickness .44" - .56"	10030270	$776.03
HLL Kit #2, 60' Below Beam system, for I-beams with: flange width 5.5" - 8", flange thickness .44" - .56"	10030271	$972.49
HLL Kit #3, 30' Below Beam system, for I-beams with: flange width 8.06" - 10.475", flange thickness .66"- .76"	10030272	$828.42
HLL Kit #4, 60' Below Beam system, for I-beams with: flange width 8.06" - 10.475", flange thickness .66"- .76"	10030273	$1051.07

Horizontal Lifeline—Basic Stanchion Mount (60-ft Kit shown)

Cable Clamp — Lifeline 3/8" Wire Rope — Stanchion HLL System in use with 20' web Dyna-Lock and Snatch-Block Pulley. — Intermediate Stanchion with Bypass — Wire Rope Clip — End Stanchion — HLL Shock Absorber with Turnbuckle — Beamgrip — Stanchion Insert

Basic Stanchion Mount Sub-System

Description	Part No.	Government Net Price
Beamgrip for beams with flange width: 3.94" to 5.64", flange thickness: .215" to .622"	506682	$153.90
Horizontal lifeline shock absorber	415836	$163.25
Cable clamp	506645	$78.59
Beamgrip end stanchion	506646	$442.04
Beamgrip bypass stanchion	506647	$195.99
3/8" wire rope*, 30' galvanized	506648	$104.78

Description	Part No.	Government Net Price
Wire rope clip 3/8"	506649	$3.27
Snatch block pulley for 3/8" wire rope	506663	$104.78
Snatch block pulley for 1/2" wire rope	506254	$159.91
Snatch block pulley for 5/8" wire rope	506255	$180.09
Beamgrip stanchion insert	506665	$76.83
Stanchion (optional) A-frame design, galvanized steel, clamp on	SHLAR-D6A	$458.41

Stanchion Horizontal LifelineKits   Choose from 4 kits.

30 ft kits include:
- 4 beamgrips (choose from P/N 415171 or P/N 415172)
- 2 end stanchions (P/N 506646)
- 2 Stanchion inserts (P/N 506665)
- Lifeline (P/N 506648 - 30 ft)
- Wire rope clip (P/N 506649)
- Cable clamp (P/N 506645)
- Shock absorber with turnbuckle (P/N 415836)

60 ft kits include:
- 5 beamgrips (choose from P/N 415171 or P/N 415172)
- 2 end stanchions (P/N 506646)
- 2 Stanchion inserts (P/N 506665)
- Lifeline (P/N 506648 - 60 ft)
- Wire rope clip (P/N 506649)
- Cable clamp (P/N 506645)
- Shock absorber with turnbuckle (P/N 415836)
- Intermediate Stanchion with Manual Bypass (P/N 506647)

| Description	Part No.	Government Net Price
HLL Kit #5, 30' Stanchion system, for I-beams with: flange width 5.5" - 8", flange thickness .44" - .56"	10030274	$1669.31
HLL Kit #6, 60' Stanchion system, for I-beams with: flange width 5.5" - 8", flange thickness .44" - .56"	10030275	$2128.96
HLL Kit #7, 30' Stanchion system, for I-beams with: flange width 8.06" - 10.475", flange thickness .66"- .76"	10030276	$1669.31
HLL Kit #8, 60' Stanchion system, for I-beams with: flange width 8.06" - 10.475", flange thickness .66"- .76"	10030277	$2128.96

Horizon Rebar Anchorage

The Horizon Rebar Anchorage provides a secure horizontal lifeline attachment to rebar. Additional Horizon Rebar Anchorage features include:

- Quick & easy set up
- No special tools required for installation
- Sturdy tubular steel construction
- One rebar anchorage can support a horizontal lifeline in 2 directions
- Can be used in conjunction with multiple lifelines to create a perimeter for leading edge work
- Fits most common rebar sizes
- Easy to use J-bolt fasteners with speed nuts for secure attachment to rebar
- Supports up to 4 workers per system with in-line shock absorber, maximum of 2 workers per span
- Meets applicable OSHA and ANSI standards

Description	Part No.	Government Net Price
Horizon Rebar Anchorage (includes 2 frames, 8 J-bolts, 8 speed nuts, and hardware to fasten frames)	10018424	$425.67
J-bolt replacement kit (includes 4 J-bolts and 4-speed nuts)	10018425	$22.92
Intermediate support for rebar anchorage (1 double clevis) [Note: this part number must be ordered in conjunction with 10018424 for a complete intermediate support bracket]	10018925	$25.73
Installation and use of Horizon Rebar Anchorage video	10020164	$6.68
Open wedge socket	506563	$57.71
Turnbuckle with plate	506662	$72.04
HLL shock absorber with turnbuckle	415836	$163.25
3/8" galvanized wire rope lifeline (30 ft. length) (add $1.50/ft. for length over 30 ft.)	506648	$104.78
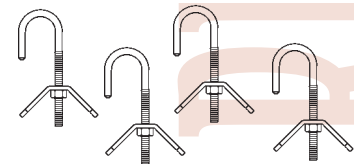
J-Bolt Replacement Kit Part No. 10018425

Turnbuckle with Plate Part No. 506662

HLL Shock Absorber with Turnbuckle Part No. 415836
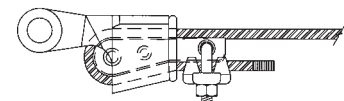
Open Wedge Socket Part No. 506563

Intermediate Support for Rebar Anchorage

Single Span System (top view)

Exploded view of J-bolt attached to rebar

Single Span System (side view)

Cable P/N 506648
HLL Shock Absorber P/N 415836
Open Wedge Socket P/N 506563
Turnbuckle Part No. 506662
Rebar
Rebar Anchorage P/N 10018424

Single leg of Horizon Rebar Anchorage

Two-Span System with Intermediate Support

Exploded view of Intermediate Support

Complete Horizon Rebar Anchorage Assembly

35
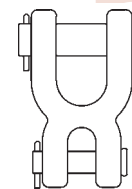
Sure-Rail™ Horizontal Lifeline

The Sure-Rail system is a rigid horizontal lifeline system typically a used in areas when there is limited clearance below the working surface. The system consists of galvanized steel 1/2 x 2 x 10 rail sections, a rail trolley, end stops, and various mounting hardware. The rails are anchored to a supporting structure, while the trolley provides a mobile connection point for the user. The rail sections are affixed to an approved anchorage at 5-ft intervals. End-stops prevent accidental detachment of the trolley from the rail.

The Sure-Rail system is available in many standard configurations, but can also be customized to fit your application (for custom applications, please call 877-677-6688). For example, a swing are option can be installed that allows the system to retract against a wall wen not in use with the assistance of p neumatic cylinders (Possible interference that would require this option, would be an overhead crane moving in a perpendicular direction to the fall protection system).

- Ease of movement (smooth trolley action)
- Little or no deflection in the rail limits fall distance and fall arrest forces on the body
- Design that allows for even distribution of fall arrest forces to the structure
- Twin track configuration that allows users to bypass each other without having to disconnect and re-connect
- Spring loaded end- stops for easy insertion/removal of the trolley
- Aluminum trolley with stainless steel wheels
- Bent rails available for travel around corners

Sure-Rail Truck/Rail Car Loading Kits

Custom fabrication of structure is not included in kits.

Sure-Rail 60' Kit - P/N 10030601
60' single track

Qty.	Product (Part No.)	Qty.	Product (Part No.)
6	1/2" x 2" rail (SHLSR-002-10-00)	2	Anti-slip off collars (SHLSR-008-01)
6	Splice joining hardware (SHLSR-005-01)	1	Sure-Rail Trolley (SHLSR-001-04)
12	Spacers (SHLSR-006-01)	1	Carabiner (SRCC643)
12	Standard anchorage bolts (SHLSR-007-03)		

Sure-Rail 80' Kit - P/N 10030602
80' single track

Qty.	Product (Part No.)	Qty.	Product (Part No.)
8	1/2" x 2" rail (SHLSR-002-10-00)	2	Anti-slip off collars (SHLSR-008-01)
8	Splice joining hardware (SHLSR-005-01)	1	Sure-Rail Trolley (SHLSR-001-04)
16	Spacers (SHLSR-006-01)	1	Carabiner (SRCC643)
16	Standard anchorage bolts (SHLSR-007-03		

Description	Part No.	Government Net Price
Sure-Rail Trolley, Heavy Duty (required for retractable lifeline)	SHLSR-001-04	$302.12
Sure-Rail, galvanized, predrilled, 1/2" (12mm) x 2" (50mm) x 10 ft (3m)	SHLSR-002-10-00	$63.52
Sure-Rail Splice, galvanized, with bars and hardware [required every 10 ft (3m)]	SHLSR-005-01	$20.30
Sure-Rail Spacer, galvanized [required every 5 ft (1.5m)]	SHLSR-006-01	$2.72
Sure-Rail Anchorage Bolt, galvanized [required every 5 ft (1.5m)]	SHLSR-007-03	$2.76
Sure-Rail Anti-Slip Off Collar, steel, painted (required at both ends of system)	SHLSR-008-01	$67.03
Sure-Rail Truck/RailCar Loading 60 ft Kit	10030601	$998.68
Sure-Rail Truck/RailCar Loading 80 ft Kit	10030602	$1087.09

Sure-Rail Bolt P/N SHLSR-007-03
Sure-Rail Trolley P/N SHLSR-001-04
Carabiner P/N 506259
20' Cable Dyna-Lock SRL P/N 10017931
Sure-Rail P/N SHLSR-002-10-00
Sure-Rail Anti-Slip off Collar P/N SHLSR-008-01
Sure-Rail P/N SHLSR-005-01
Sure-Rail System
Sure-Rail Spacer P/N SHLSR-006-01
Sure-Rail Bolt P/N SHLSR-007-03
Top View
Side View

Sure-Rail Truck Loading Application
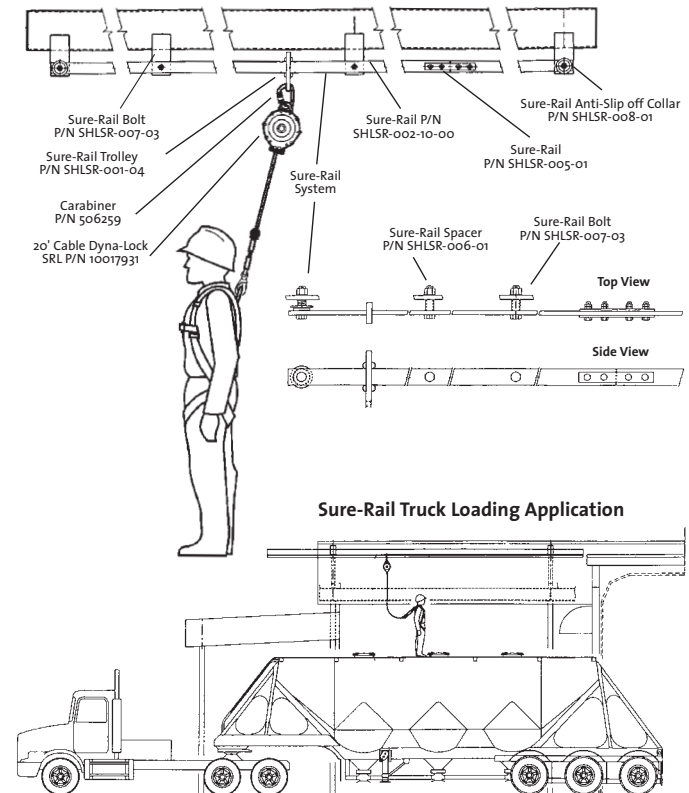
Sure-Rail

Sure-Rail Railcar Loading Application
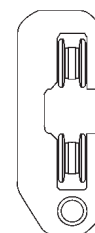
Sure-Rail Trolley (HD) P/N SHLSR-001-04

FP RESCUE™ COMPONENTS

MSA Rescue Carabiners
- Traditional Large "D" design
- Developed for fire and rescue communitites
- Certified to meet NFPA 199301995, Class "G"
- The RCC642 auto-locking model meets ANSI Z359.1-1992
- Carbon steel, zinc-plated
- Gate opening 1.2" (32mm)
- Weight approximately 11 oz (311g)
- Strength 12,364 lb (55kN)
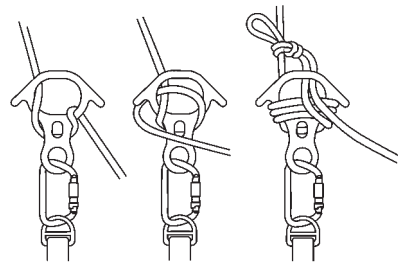
P/N SRCC641
• 1.2" gate opening
• Steel
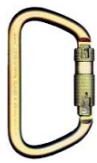
P/N SRCC642
• 1.2" gate opening
• Autolocking
• Steel

SuretyMan™ Rescue Eight
- Designed for the fire service, rescue, and police tactical operations
- Designed for rope diameters from 7/16" (11 mm) to 5/8" (16 mm)
- Available in aluminum or steel
- Weight 1.5 lb (675 g)
- Strength 6,720 lb (30 kN)

Suretyman Rescue Eight, Steel P/N SRSF5045

Suretyman™ RQ3 Q-Eight
- Ears/cleat are positioned to make tie off very easy and safe
- Ears/cleat still prevent larks footing (girth hitch)
- Designed for 7/16" (11 mm) diameter rope (will work with 1/2" (12 mm) diameter rope)
- Aluminum, anodized gold
- Strength 13,000 lbs (58 kN)
- Weight 8 oz (.24 kg)

Suretyman RQ3 Q-Eight P/N SRSF FE2120

Suretyman™ Hand Ascender
- Machined from high grade aluminum alloy with a steel carn assembly
- Large hand grip/handle to ease operation
- Accepts ropes from 1/4" (7mm) to 1/2" (12mm)
- Can be attached to carabiners, ascender slings, or a combination
- Color coded Left/Right
- Strength 2,500 lbs (11kN)
- Weight 13 oz (365g)

Suretyman Hand Ascender (left) P/N SRP210 (right) P/N SRP220

The Ropeman™ Ascender
- Smallest, lightest mechanical ascender on the market
- Revolutionary in the design of ascenders
- Aluminum side plates and carn
- Used in conjunction with a carabiner
- Weight 3.5 oz (100g)
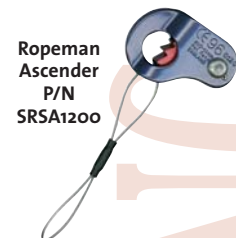
Ropeman Ascender P/N SRSA1200

Locking off the Figure 8 descender

The lower Ropeman should be equipped with a second longer sling which will act as a foot loop.

The climber ascends the rope by standing in the foot loop.

Locking off the Q-8

Description	Part No.	Government Net Price
Carabiner, 1/2" (32mm) gate, steel	SRCC641	$13.75
Carabiner, 1.2" (32mm) gate, steel, auto-locking	SRCC642	$17.03
Suretyman Rescue Eight, steel	SRSF5045	$24.23
Suretyman Rescue Eight, aluminum	SRSF5077	$20.30
Suretyman RQ3 Q-Eight	SRSF FE2120	$57.20
Suretyman Hand Ascender, left-hand	SRP210	$49.34
Suretyman Hand Ascender, right-hand	SRP220	$49.34
Ropeman ascender (requires carabiner)	SRSA1200	$22.92

Firefighting and Rescue Equipment from MSA

FP RESCUE™ PULLEYS

Suretyman™ RQ3 Pulleys

The Suretyman line of RQ3 Pulleys have been designed to meet the rigorous standards of the professional rescuer. Attention to detail such as high grade aluminum side plates and sheaves, oilite bearings, stainless steel bolts, washers and lock nuts make these some of the best pulleys available. The aluminum side plates swivel and rotate to allow the pulley to be attached anywhere along the rope. The top holes of the side plates are large enough to accept three carabiners. We have standardized the Prusik design (squared corners of the side plates) to provide rope security with Prusik hitch. Pulleys accept 3/8" (1cm) to 1/2" (1.3cm) static kernmantle ropes. Side plates are powder coated. Strength: 2" (5cm) Single or Double 8, 100 lb (36kN), 4" Single or Double 11,200 lb. (49kN).

P/N SPPPU8710

Suretyman™ Stainless Steel Pulley

The Suretyman Stainless Steel Pulley has a unique design that eliminates the need for a carabiner for attachment. A stainless steel detent pin with a locking feature locks the side plates. Sealed all bearing provides maximum efficiency. Size: 3.5" (9cm). Strength: 8,960 lb (40kN).

P/N SPPPU8708

Suretyman™ Mini Knot Passing Pulley

The Suretyman/RQ3 Mini Knot Passing Pulley was designed for the professional rescue team concerned with size and weight. The Suretyman/RQ3 Mini Knot Passing Pulley features:

P/N SPPPU8720

- Ample room for the passing of knots
- Aluminum sheave (that will not score like some of the plastic sheaves)
- Locking pin
- Half the size and weight of some of the larger, bulkier knot passing pulleys
- Size: 9-1/2" (24cm) tall, 4" (10cm) wide, 3" (7.6cm) deep
- Weight: 1.9 lbs. (,89kg)

P/N SPPRL 4000

P/N SMI420560
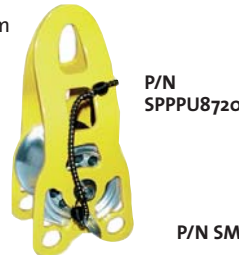
Suretyman™ Edge Roller

The Suretyman/RQ3 Edge Roller, the best way to protect your rope from sharp edges and reduce rope friction. The edge roller has the same high quality construction as our RQ3 Rescue Pulleys. The 6" x 10" (15.3cm x 24.4cm) base is rubber covered to reduce slippage,. The bottom and side plate feature attachment holes for ease of security. Two edge rollers are required (sold separately)., Two quick links are required (sold separately). Edge roller is 4" (10cm) tall. Weight: 2.8 lbs. (1.3kg).
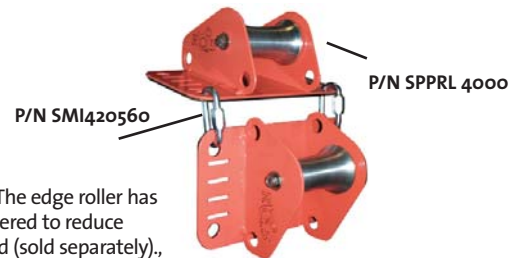
Suretyman™ Rigging Plates

The RQ3 Stealth Rigging Plate's unique design is by an RQ3 Master Instructor. Anchor on the point and the wings will rotate toward the load for a straighter line of pull. Material: aluminum. Weight: .46 lb (250g). Strength: 11,000 lbs (48kN). Color: Teal.

The RQ3 Stretcher Rigging Plate is designed for organizing litter rigging points. Your rigging becomes uncluttered and the chance of error is greatly reduced. Material: aluminum. Weight: .74 lb (330g). Strength: 12,200 lbs (54kN). Color: Teal.

Stealth Rigging Plate
Part No. SRSPR 5980

Stealth Rigging Plate
Part No. SRSPR 5990

Description	Part No.	Government Net Price
Suretyman Pulley, 2" (5cm) single, Std/Prusik, orange, aluminum, weight: .54 lb (230g)	SPPPU8700	$62.94
Suretyman Pulley, 4" (10cm) single, Std/Prusik,yellow, aluminum, weight: 1.2 lb (545g)	SPPPU8710	$91.68
Suretyman Pulley, 2" (5cm) double, Std/Prusik,orange, aluminum, weight: .83 lb (375g)	SPPPU8708	$93.52
Suretyman Pulley, 4" (10cm) double, Std/Prusik,orange, aluminum, weight: 1.8 lb (840g)	SPPPU8717	$108.95
Suretyman Mini Knot Passing Pulley, yellow, weight: 1.9 lb (.89kg)	SPPPU8720	$146.14
Suretyman Edge Roller, aluminum,weight: 2.8 lb (1.3kg)-[two required]	SPPRL 4000	$125.19
Quick Link 5/16" (8mm) for use with Suretyman Edge Roller - [two required]	SMI420560	$3.45
Suretyman/RQ3 Stealth Rigging Plate, aluminum, teal	SRSPR 5990	$42.66
Suretyman/RQ3 Stretcher Rigging Plate, aluminum, teal	SRSPR 5980	$78.33

FP RESCUE™ PRODUCTS

Stretcher Bridle

The Stretcher Bridle is made of 1-3/4" (4.45cm) nylon webbing and is available in a 4-point bridle or a 5-point bridle version.

Stretcher Bridle (stretcher not included) P/N SRS36382

Description	Part No.	Gov't Net Price
Stretcher Bridle, 5-point configuration, SRS36381 1-3/4" (4.45cm) nylon webbing		$52.39
Stretcher Bridle, 4-point configuration, SRS36382 1-3/4" (4.45cm) nylon webbing		$39.29

Rescue Ladders

Synthetic rope Rescue ladder with reinforced fiberglass rungs. Applications include: confined space access, theatrical stage rigging, mine access, and many others. Our steel cable ladder meets and exceeds the ESTA (Entertainment Services and Technology Association) ladder standard for stage work and theatrical rigging.

Description	Part No.	Gov't Net Price
Rescue ladder, synthetic rope, 20 ft (6.1m)	SCE400-020	$491.16

Rescue Ladder-Synthetic Rope P/N SCE4000-020

MSA

FP RESCUE™ ROPE

Static Kernmantle Ropes

These ropes are 100% permanent solution dyed color with contrasting marker stripe. Superior flexibility and knotability, provided by a unique double-twist cable core construction, gives superior resistance to abrasion that is up to four times greater than other static kernmantle ropes. These ropes are designed with load absorbing capabilities to provide additional safety in the event a dynamic force is applied.

Description	Part No.	Government Net Price
3/8" (10mm), polyester, 5,500 lb (2,495kg), red/blue tracer	SRP323	$0.82/ft
7/16" (11mm), nylon, 6,500 lb (2,948kg), black	SRP508760	$0.82/ft
1/2" (12mm), nylon, 9,100 lb (4,128kg), orange/yellow tracer	SRP504860SL	$0.82/ft
1/2" (12mm), polyester, 9,100 lb (4,128kg), red	SRP530961	$1.03/ft
3/8" (10mm), nylon, 5,000 lb (2,269kg), white/blue tracer	SRP510660SL	$0.65/ft
7/16" (11mm), nylon, 6,000 lb (2,722kg), olive	SRP544000	$0.81/ft
1/2" (12mm), nylon, 9,000 lb (4,083kg), blue/white tracer	SRP504866SL	$0.88/ft
1/2" (12mm), nylon, 9,000 lb (4,083kg), red/white tracer	SRP504863SL	$0.98/ft

All ropes are ordered by the foot.

Rope Identification System

7/16" & 1/2" ropes listed above will meet NFPA standards with the addition of the Rope Identification System. This system consists of a special label that carries all necessary NFPA information and a serial number. The serial number is attached to the rope by a shrink wrap. The shrink-wrapped serial number provides traceability if the label is ever lost, so a new label can be issued. The Rope Identification System must be ordered with the rope. Please specify these part numbers with your rope order if you require a rope that meets the NFPA standard.

Description	Part No.	Government Net Price
7/16" (11mm) NFPA Life Safety Rope Tag, with serial number, shrink tube	SRS598016	$2.13
1/2" (12mm) JFPA Life Safety Rope Tag, with serial number, shrink tube	SRS598012	$2.13

Prusik & Accessory Cords

Prusik cords have the same high quality and long wear design as rescue ropes. Size selection should be based upon diameter of the main line. The flexible cord is both strong and highly resistant to abrasion. Prusik cords and accessory cords are identical.

Description	Part No.	Government Net Price
5mm Accessory Cord, nylon, 1,275 lbs (578kg) strength	SRP500500	$0.25/ft
5.5mm Titian™ Cord, Spectra@ Core, 4,500 lbs (2,042kg) strength	SRP5020550	$1.09/ft
7mm Accessory Cord, nylon. Use with 3/8"-1/2" (1cm-1.3cm) main line, red 2,600 lb (1,179kg)	SRP500700	$0.43/ft
8mm Accessory Cord, nylon. Use with 1/2"-5/8" (1.3cm-1.6cm) main line, black, 3,100 lb (1,406kg)	SRP500860	$0.46/ft
9mm Accessory Cord, nylon. Use with 1/2"-5/8" (1.3cm-1.6cm) main line, 3,600 lb (1,632kg)	SRP500900	$0.59/ft

Rope Storage Bags

Rope Storage Bags are made of tough Cordura nylon fabric. Features include a drawstring top, handle/shoulder strap, and carabiner loops at top and bottom. In the bottom of the bag there is an inside loop for the end of the rope, or it can pass through the bottom grommet. Available in orange and black colors.

Description	Part No.	Government Net Price
Rope Bag #1, orange, holds 120 ft/ 1/2" (36.6m/12mm) rope	SRB430101	$19.98
Rope Bag #1, black, holds 120 ft/ 1/2" (36.6m/12mm) rope	SRB430105	$19.98
Rope Bag #2, orange, holds 200 ft/ 1/2" (60.1m/12mm) rope	SRB430201	$21.79
Rope Bag #2, black, holds 200 ft/ 1/2" (60.1m/12mm) rope	SRB430205	$21.79
Rope Bag #3, orange, holds 300 ft/ 1/2" (91.4m/12mm) rope	SRB430301	$31.49
Rope Bag #3, black, holds 300 ft/ 1/2" (91.4m/12mm) rope	SRB430305	$31.49
Rope Bag #6, orange, holds 600 ft/ 1/2" (182.8m/12mm) rope	SRB430601	$42.99
Rope Bag #6, black, holds 600 ft/ 1/2" (182.8m/12mm) rope	SRB430605	$42.99
Rope/Equipment Bag, orange	SRB431101	$101.72
Emergency Rescue Bag, red	SRB4400	$41.96

Rope Bag #6
P/N SRB430601

Back View

Front View

MSA

FP RESCUE™ TRIPODS

Bridge Rescue Frame

The bridge Rescue Frame is a portable emergency anchorage for retrieval of railway bridge workers from below the bridge deck. In most cases, the worker cannot be lowered; therefore, the anchor point must be above the level of the bridge deck and positioned in such a way that retrieval is possible. Aluminum construction.

Description	Part No.	Government Net Price
Bridge rescue frame, standard configuration	SCE108-001	$1000.81
Bridge rescue frame, optional rail connector for tripod configuration	SCE108-015	$88.41
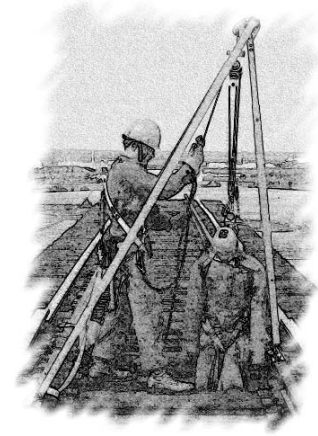
FP RESCUE™ MECHANICALS

Sky Hook Hoist/System

The Sky Hook Hoist/System was designed to simplify confined space and remote rescues requiring a device with lifting and lowering capability. The heart of the system is a two-speed, self-tailing, manual winch with a removable handle for compact storage. The Sky Hook hoist utilizes any length of standard 1/2" (12mm) static kernmantle rope used throughout the rescue and fire department community,. The winch requires minimum maintenance providing a gear ratio of 2.2 to 1 and 6 to 1, and a power ratio of 13.5 to 1 and 40 to 1.

The winch is mounted to a versatile base plate which also features a Guide Roller Assembly (GRA) which allows for easy placement or removal of the specified static kernmantle rope. The GRA is designed with attachment holes which will accept single and/or tandem Prusiks. When the Prusik safety is attached and the rope is loaded, the unit provides the user the ability to remove or replace the load rope and change to a second rope minimizing time and equipment needed to duplicate the raising and lowering system.

The base plate can connect quickly to the Sure-Strong or Lynx Tripod legs, but has the flexibility to be attached to a variety of structures via tiedown holes.

Optional Trailer Hitch Extension Bar

The Sky Hook Tripod System can be vehicle mounted (vehicle requires trailer hitch receiver) for roadside rescue. The Trailer Hitch Extension Bar can swing/articulate 90 degrees. Powder coated, black.

Description	Part No.	Government Net Price
Sky Hook hoist, with capstan protective cover	SRS071	$2870.04
Trailer hitch extension bar for Sky Hook hoist	SRS073	$506.09

Trailer Hitch Extension Bar
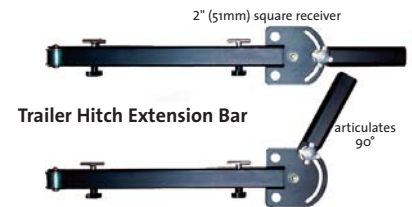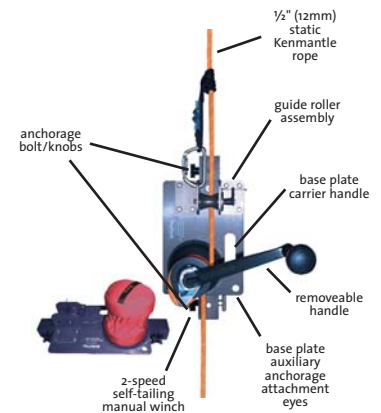
FP RESCUE™ KITS

Fire-Fighters Bailout Kit

The Fire-Fighters Bailout Kit was created as a tool for emergency egress for a fire fighter trapped in an upper floor of a building. This kit is lightweight and easy to use.

Fire Fighters Bailout Kit includes:

• 2 Suretyman aluminum auto-locking carabiners (P/N - SRCA853)
• 60 ft (18.3m) 9mm rope
• Mini Q-Eight
• Small stuff sack

| Description	Part No.	Government Net Price
Fire-Fighters Bailout Kit	10030026	$98.23

Fire-Fighter Bailout Kit

Confined Space/Head First Extraction System

The Confined Space/Head First Extraction System (HFES) is a specialized rescue product designed for those extreme cases where the rescuer has no other option, but to be lowered head first into a confined space to perform a rescue. These cases are rare, but can happen when someone has fallen into a restrictive confined space such as a well or drain system. The system allows the rescuer to be lowered comfortably into a confined space head first, harness the victim, and raise both victim and rescuer out of the confined space. This small, compact system can be used with any confined space retrieval equipment such as tripods and davits.

The HFES consists of the following components:
- Adjustable Lifting Strap
- Adjustable Victim Strap
- 1 Pair of Ankle Harnesses
- 2 Carabiners
- Storage Bag

Description	Part No.	Government Net Price
Confined space/head first extraction system	SRS3100	$123.77
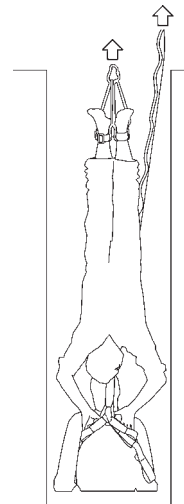
Top: pair of ankle harnesses
Left: 2 carabiners
Right: storagr bag (lifting strap and victim strap not pictured)

Rescue Pole/Remote Hook

The Rescue Pole/Remote Hook is designed as a rescue tool for the retrieval of a worker suspended in a fall arrest system or for remote rescue access. In most cases, the need for the rescuer to go to the fallen worker (victim) is limited. The Rescue Pole can be used in a wide variety of rescue applications and will serve as an excellent tool to help perform a safer, efficient rescue.

The system consists of an adjustable fiberglass pole, pole adapter, and remote hook. A nylon storage bag is optional.

Description	Part No.	Government Net Price
Adjustable pole, fiberglass 6 ft (1.8m) to 12 ft (3.6m)	SFP675-009	$52.07
Adjustable pole, fiberglass 8 ft (2.4m) to 24 ft (7.3m)	SFP675-012	$101.69
Remote hook, aluminum, with web sling	SRCA401	$26.85
Pole adapter, aluminum/rubber	SCE109-001	$29.47
Pole adapter, 6 ft (1.8m), aluminum/rubber	SCE109-003	$69.89
Storage bag for FP675-009	SRB675-009	$29.36
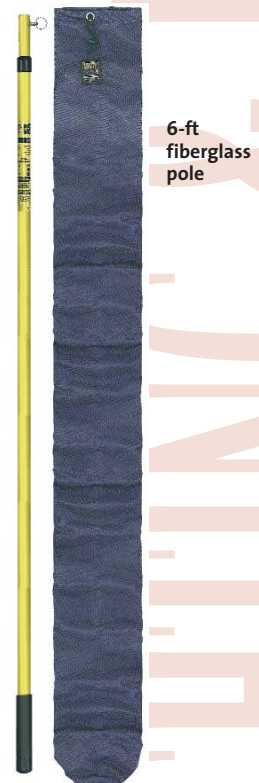
6-ft fiberglass pole

Emergency Rescue Bag System

The Emergency Rescue Bag System is designed for rescue on electrical and communication towers. Developed for use in restrictive environments, the extremely lightweight system was primarily designed for tower rescue; however, the system can be used to perform rescues on almost any vertical structure. The Emergency Rescue Bag System consists of a pre-rigged lowering System that comes in a variety of lengths. The users of this product must receive training by an approved trainer.

Description	Part No.	Government Net Price
Emergency Rescue Bag System, 20 ft (6m), demo unit	SRS323-020	$212.83
Emergency Rescue Bag System, 150 ft (45m)	SRS323-150	$425.67
Emergency Rescue Bag System, 300 ft (90m)	SRS323-300	$622.13

Suretyman™ Rescue Utility System

The Suretyman Rescue Utility System incorporates all the features professionals have come to expect from a first class rescue system. The system is primarily used for raising and lowering people or equipment in rescue and industrial work access and is ideal for confined space applications.

The Suretyman Rescue Utility System features:

- Pulleys equipped with a built-in anti-reversing lock
- Only a 10 lb force is all that is required to hold a 220 lb (90kg) load
- Suretyman ascender attached to both the operating rope and the user via a securing rope— if the operating rope accidently releases, the ascender automatically stops the descent
- Rapid deployment
- Virtually maintenance free
- Rated for 2-person load
- Compact and light weight with a standard system weight of 17 lb (7.7kg)
- Versatile for rescue & access
- Multi-purpose ascent or descent
- Rated capacity of 600 lbs (272kg) for personnel and materials
- Standard rope length of 200 ft (66m) with a maximum rope length of 600 ft (200m)

Description	Part No.	Government Net Price
Suretyman Rescue Utility System (200' length)	SRS15-200A	$720.36

Please Note: Due to a 4:1 mechanical advantage, the user should order the Rescue Utility System with 4 times the length of rope necessary for their application. For example, the 200' system listed above provides a 50' working length. A 600' system provides a 150' working length.

SKED Basic Rescue System

The best solution for confined space, high angle or technical rescue, and traditional land based applications, the Sked stretcher is a revolutionary design which provides outstanding patient protection and security. When the patient is secured, the stretcher becomes rigid. The durable plastic provides protection for the patient while allowing extrication through the most demanding confined spaces. The stretcher is rolled for storage in a tough cordura backpack which is included in the system.

Each Sked Basic Rescue System comes complete with:

- Sked Stretcher
- Cordura backpack/towing harness
- Horizontal lift slings
- Vertical lift sling
- Tow strap
- Removable webbing handles

Description	Part No.	Government Net Price
Sked Basic Rescue System, international orange	SRSSK-200	$594.07

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. The kit includes:

- #2 Rope Bag (P/N - SRB430205)
- 10 ft Synthetic Ladder with Swivel Snaphook (P/N - SCE405-010)
- Boom Anchor Strap (P/N - SSB22040)
- Anthron system (P/N - SDC726-075) which includes Anthron device, Carabiners (2), 75 ft (22m) 7/16" rope

Description	Part No.	Government Net Price
Bucket Truck Evacuation Kit	SKIT-SMT-001	$411.44

Fall Protection Rescue Kit

The Fall Protection Rescue kit is designed to be an "out of the bag" rescue system. This kit combines a remote hook and extension pole with a rescue utility system. The remote hook and extension pole allows for remote attachment of a rescue line to a victim. The Rescue Utility System allows a rescuer to raise or lower the victim to safety. This kit should be used with a back-up system (not included).

Fall Protection Rescue Kit includes:

- Adjustable Pole, 6 ft (1.8m) to 12 ft (3.6m) (P/N - SFP675-009)
- Pole Adapter (P/N - SCE109-001) converts pole to hold remote hook
- Remote Hook (P/N - SRCA401) for remote attachment
- Storage Bag (P/N - SRB675-009) for pole and remote hook
- Rescue Utility System (P/N - SRS15-200) - raising and lowering system with a 4:1 mechanical advantage

Description	Part No.	Government Net Price
Fall Protection Rescue Kit	10030025	$851.34

Please Note: Due to a 4:1 mechanical advantage, the user should order the Rescue Utility System with 4 times the length of rope necessary for their application. For example, the 200' system listed above provides a 50' working length. A 600' system provides a 150' working length.

Pole Adapter

Rescue Utility System

Remote Hook

Adjustable Pole

Storage Bag

Basic High Angle Rescue Kits

The Basic High Angle Rescue Kits were designed for the Fire Department planning to assemble a high angle rescue team. A complete high angle rescue system consists of two kits: a **Belay System Kit**, and a **Raising/Lowering System Kit**.

The Belay system kit includes:

- 3 large "D" shaped rescue carabiners (P/N SRCC641) - NFPA approved Class G
- 200 ft (61m) 1/2"rope, orange and white (P/N - SRP504866oL) - NFPA approved
- 33 ft (10m) 9mm accessory cord (P/N - SRP500900) for making load- release hitch
- 65" (1.65m) 8mm accessory cord & 53" (1.35m) accessory cord (P/N - SRP500860) make-up the tandem Prusiks
- 6 ft (1.8m) Suretyman anchorage sling (P/N - SFP22674-06)
- #3 rope bag, orange (P/N - SRB430301)

The Raising/Lowering System includes:

- 6 large "D" shaped rescue carabiners (P/N - SRCA641) - NFPA approved Class G
- Stealth rigging plate (P/N - SRSPR5990)
- 200 ft (61m) 1/2" rope, red (P/N SRP504863SL) - NFPA approved
- 33 ft (10m) 9mm accessory cord (P/N - SRP500900) for making load-release hitch
- 65" (1.65m) 8mm accessory cord & 53" (1.35m) accessory cord (P/N - SRP500860) make-up the tandem Prusiks
- 53" (1.35m) 8mm accessory cord (P/N - SRP500860) for creating the Prusik for connecting the raising system
- 2 Single Pulleys, 4" (100mm) (P/N - SPPPU8710) - Prusik minding pulleys
- Brake Bar Rack (P/N SRS14001) - lowering device is NFPA approved
- 6ft (1.8m) Suretyman anchorage sling (P/N - SFP22674-06)
- #3 rope bag, black (P/N - SRB430305)

Description	Part No.	Government Net Price
Belay System Kit	10030023	$309.61
Raising/Lowering System Kit	10030024	$622.13

Belay System Kit

53" 8 mm Accessory Cords

Storage Bag

1/2" Rope

Anchorage Sling

Carabiners

9 mm Accessory Cord

65" 8 mm Accessory Cords

Raising/Lowering System Kit

Pulleys

1/2" Rope

Storage Bag

Brake Bar Rack

Stealth Rigging Plate

Anchorage Sling

Carabiners

9 mm Accessory Cord

8 mm Accessory Cords

Firefighting and Rescue Equipment from MSA

PORTABLE LADDERS

With Aluminum Rungs, 1" Strap, Nylon, with 2 Small Loops at one end

Length	Part No.	Government Net Price
10'	415019	$91.68
12'	415020	$118.60
15'	415021	$144.01
16'	415906	$152.48
18'	415907	$169.43
20'	415022	$186.37
25'	415023	$230.93
30'	415024	$271.08
36'	415908	$321.93
40'	415025	$355.82
45'	415909	$398.17
50'	415026	$440.53
60'	10004920	$555.53

With Wooden Rungs, 1/2" Rope, Nylon, with 2 Small Loops at one end

Length	Part No.	Government Net Price
10'	415028	$104.78
12'	415029	$117.88
15'	415030	$144.07
16'	415911	$157.17
20'	415031	$183.37
25'	415032	$229.21
30'	415033	$288.15
36'	415913	$340.54
40'	415914	$366.73
50'	415034	$464.96
80'	415916	$733.46
100'	415035	$916.83

Portable Ladder Standoff Brackets

Portable Ladder Standoff 3.5"

Ladder Accessories

Description	Part No.	Government Net Price
Ladder Polegrip Kit, Yellow	503210	$7.93
Ladder WallGrip Kit	503211	$5.39
Ladder Lash, Nylon, Yellow	503253	$22.92
Portable Ladder Standoff Brackets	507010	$27.55
Portable Ladder Standoff 3.5"	507189	$26.97

GENERAL ACCESSORIES

Ergonomic Tool Holders

• Holds wrenches, chisels, etc.
• Vibration-absorbing design
• Attach to broom handles and mops for better grip
• Eases awkward hand positioning

Description	Part No.	Government Net Price
Tool Holder, 18"	507005	$23.58
Tool Holder, spark resistant, 18"	507006	$31.43

Equipment Bags

Description	Part No.	Government Net Price
Tripod Carrying Bag 8'	507149	$89.11
Tripod Carrying Bag 10'	507180	$110.61
Dynevac , Lynx Rescuer, Dyna-Hoist, Lynx Hoist, Dyna-Lock Carrying Bag	507151	$36.12
Dynescape Carrying Bag	507313	$23.33
RCD Large Tote Bag	507405	$47.54

Hands-Off™ Chisel Grip **NEW!**

• Keeps hands away from the point of contact.
• Ergonomically designed to match the specific shape of the human hand for more comfortable, firmer grip.
• Permits faster, safer, more accurate work.
• Easy adjustment to hold a variety of chisels and stakes up to 1" in diameter.
• Vibration-absorbing handle.
• Easing of awkward hand positioning.
• Economical.
• Spark resistant.

Description	Part No.	Government Net Price
Hands-Off Chisel Grip, 6"	10040018	$4.94
Replacement Strap Assembly	10042431	$2.10

Videos

Description	Part No.	Government Net Price
Harnesses—Donning and Doffing Instructions for the Pullover, Vestype, FP Pro & Tradesman Harnesses	10007823	$4.01
RCD System—Instructional	10007824	$4.01
Assembling the Fall-Rescue Work System	10007825	$4.01
Davit Systems	10007826	$4.01
Dyna-Line	10016664	$4.01
Rebar Anchorage Connector	10020164	$6.68
Gravity Harnesses	SFPVIDEO009	$6.68

MSA

SAFETY AT HEIGHTS TRAINING

Course Facilities

Courses are conducted at the our National Training Center in Englewood, Colorado. Located at the foot of the great Rocky Mountains near Denver, the center houses an advanced state-of-the-art training structure and classroom. MSA holds courses throughout the year, allowing students the flexibility to attend the course of their choice as their schedule permits. We can also bring any training course to you upon request.

Fundamentals of Safety at Heights

• For At-Risk Workers, Supervisors, and Managers
• Hands-on and application-oriented exercises
• The chance to experience a controlled fall using an energy-absorbing lanyard
• 2-day format

Key topics include:

• Dynamics of a fall
• Impact forces
• Fall hazard recognition
• Selection, application, and use of fall protection systems
• Procedures for continuous Safety at Heights

Competent Person for Equipment Inspection

• For At-Risk Workers, Supervisors, and Managers
• 1-day format
• Physical inspection of fall protection equipment
• Emphasis on the formal equipment inspection process

Key topics include:

• Formal inspection and documentation process
• Identification of hazards impacting equipment integrity
• Equipment cleaning, storage and disposal
• OSHA and ANSI inspection requirements

Safety at Heights Management & Rescue Planning

• For Supervisors, Safety Professionals, and Managers
• Perform rescue simulations from an elevated structure
• Emphasis on assessment, implementation, and management of a fall hazard control program
• Emphasis on planning for rescue after a fall
• 1-day format

Key topics include:

• Fall hazard survey and profile
• Fall protection systems selection
• At-Risk Worker selection and issues
• Regulatory and standards review (OSHA, ANSI)
• Rescue equipment, personnel, and training considerations
• Round-table discussion of fall protection issues

Competent Person for Safety at Heights

• For Supervisors, Safety Professionals, and Managers
• Comprised of the Fundamentals, Inspection, and Management & Rescue Planning courses
• 4-day format

Tower Climbing Safety

• For At-Risk Workers, Supervisors, and Safety Professionals
• 1-day format
• Experience a controlled fall using an energy-absorbing lanyard system
• Hands-on exercises utilizing various tower climbing scenarios

Key topics include:

• Selection, application, and use of fall protection systems
• Regulatory and standards (OSHA) review
• Dynamics of a fall

Custom Training Courses

• Focus on safety issues unique to your company
• Hands-on training in your daily work environment
• Compliment your existing safety program
• Custom training structures at your facility

Engineered Services

At MSA, we offer a solutions-oriented menu of services that can be tailored to suit your business, helping solve your unique height safety problem. Our services allow the flexibility to help you plan and budget your fall protection and confined space programs and to phase in your safety program at a pace that is best for your company.

When you choose MSA as your partner for fall protection you choose a company with over 65 years of experience in the industry. Our engineers are dedicated to the field of safety at heights, and you can take comfort in knowing that you have the solid reputation and backing of the largest safety company in the world, Mine Safety Appliances.

Safety At Heights solutions available from our Engineered Services include:

• Fall protection audit and hazard identification survey
• Audit report with solution identification
• Structural analyses for appropriate anchor points
• Custom product fabrication for unique applications
• Installation of all products; custom and standard
• On-site inspection services for permanently installed equipment
• Certification of self-installed systems

Training Programs

Description	Part No.	Government Net Price
Fundamentals of Safety at Heights	415807	$343.81
Competent Person for Equipment Inspection	415809	$268.50
Safety at Heights Management & Rescue Planning	415810	$268.50
Competent Person for Safety at Heights	415808	$870.98
Tower Climbing Safety	415815	$268.50

MSA ENGINEERED SERVICES & TRAINING

MSA provides any combination of the following options to our customers who have unique fall protection problems to solve:

Engineering Services
MSA retains engineers who are experienced in the application and design of fall protection systems. The engineer can provide an initial analysis and scope of work during a site visit, design and draft engineered drawings, and follow up with a construction site review to ensure the fall protection system has been installed as per the engineered drawings.

Fabrication
Certified fabricators are utilized to build the necessary reinforcing components or new support structures (custom finished to match existing) for the fall protection systems installed. Fabricated components comply with all applicable governing codes or standards.

Installation
MSA's trained and certified installation crews are located around North America to allow MSA to respond to a customer's service needs whether it be a new installation or an inspection and recertification of an existing fall protection system.

Training
MSA continues to address the increasing demand for technical training in fall protection, fall retrieval, and rescue. MSA is commited to delivery of high quality training programs at a reasonable cost. Programs are tailored to focus on the unique issues found in each industry.

A Simple Equation
Engineering + Fabrication + Installation + Training = COMPLETE TURNKEY SERVICE
MSA installation department manages the above steps to provide a complete turnkey fall protection service to help make our customers' fall protection programs successful. The Installations division uses its experience and knowledge of previous practical applications to meet the demands of the growing client list in the forestry, construction, oil & gas, petrochemical, mining, manufacturing, utilities, entertainment, and railway industries across North America.
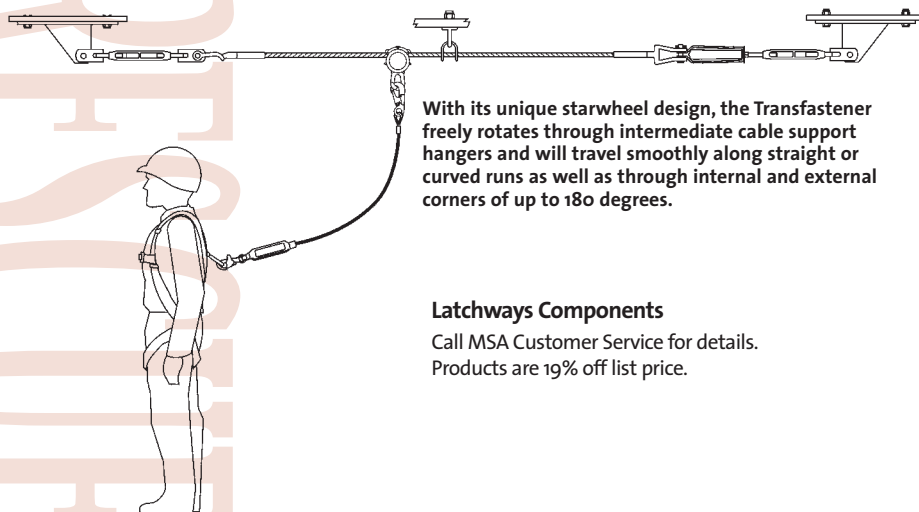
LATCHWAYS MANSAFE® HORIZONTAL LIFELINE

The Latchways ManSafe® Horizontal Lifeline systems are designed to operate horizontally, around corners, and up or down inclines to offer continuous worker protection regardless of the building type or structure.

ManSafe Horizonta Lifeline features include:

- Unsurpassed system flexibility
- Can support up to 6 workers per lifeline
- Unique Latchways Transfastener rotates freely through intermediate supports to enable hands-free operation
- Transfastener can be removed/installed at any point along the lifeline
- Integral shock absorber limits fall arrest forces
- Stainless steel components for durability

As an authorized Latchways installer, MSA can provide the fall hazard analysis, engineering services, custom product fabrication, system installation, system certification, and training necessary to make your fall protection program a success.
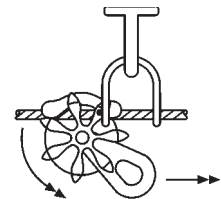
Each Latchways Mansafe system must be individually designed to meet your specific application. The Latchways Horizontal Lifeline systems can only be installed by Latchways trained and certified professionals. Please call 1-877-677-6688 and let us help you specify the system that will meet your needs.

Transfastener engages first leg of hanger. The starwheels start to rotate backwards, allowing the slipper to slide along the wire between hangar legs.

Transfastener moves forward and the starwheels continue to rotate while remaining in contact with the slipper which is passing through hanger loops.
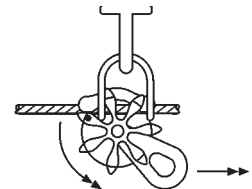
With its unique starwheel design, the Transfastener freely rotates through intermediate cable support hangers and will travel smoothly along straight or curved runs as well as through internal and external corners of up to 180 degrees.
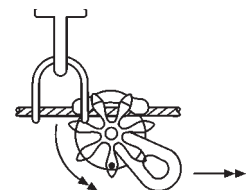
Latchways Components
Call MSA Customer Service for details.
Products are 19% off list price.

Transfastener clears the second leg of hanger and continues forward with slipper still sliding along the wire.

Latchways Product-Related Services and Training

Description	Part No.	Government Net Price
Engineering Site Visit Conduct an on-site review by a qualified structural engineer with specialized training in fall protection systems, to accomplish the following tasks: · Interview personnel to determine work practices and paths of worker movement · Identify fall hazards and determine their relative severity and frequency of worker exposure · Take measurements of the site geometry, structural elements, obstacles and locations for placing a fall protection system · Evaluate the strength of structural anchors · Develop a hazard abatement plan, including the elements of a proposed fall protection system, as needed Note: Price does not include expenses (billed at cost per FAR allowances). Note: The majority of site visits are for a single location and can be accomplished in one day. Additional time may be required depending on the size, complexity and accessibility of the area under consideration.	ZS002310	$3131.03
Engineering Design and Drawing Prepare a detailed design of the proposed fall protection system with engineering drawings that document the following: · Specifications of the primary system components · Develop the means of connection between the primary system and the structural anchor, including dimensioned drawings of any specially fabricated components · Create an overview drawing illustrating the complete fall protection system, the structural anchor and compatible personal protective equipment intended to be used with the system · Create drawings signed and sealed by a registered professional engineer Note: Price is per fall protection system. Note: Most locations will require one complete system and are documented by two sheets of engineering drawings. Additional design documents may be required at some locations depending on the number and complexity of the fall protection systems proposed.	ZS002311	$5553.50
Fabrication Fabricate custom-designed components of the fall protection system according to the approved design documents. Material certifications, welds, fasteners and finish provided to design specifications. Note: Prices for custom fabrication vary depending on the specific requirements for each system. A fixed price cannot generally be given without reference to the design documents. Some standard prices are available for specific fabricated components, such as support pylons for free-standing rail and truck load-out applications. GSA discount would be 4% for fabrication.	ZS002322	See Note
Installation Provide MSA-certified, factory-trained installation technicians to install the fall protection system according to the design specifications and the manufacturer's recommendations. · Perform proof-loaded testing or other testing as required by the contract. · Verify that the installation system functions according to the requirements of the design. Note: Most locations will require a two-person crew. Duration of the job varies with each type of system to be installed. Prices do not include travel time or stand-by time or the use of specialized measurement and test equipment. Note: Typical installation per day for a two-person crew + expenses (billed at cost). Cost if additional resources are needed: Additional crew member; AWC Code-certified welder and equipment including lift truck + expenses.	ZS002313	$1455.40 See Note
Construction Review · Inspect the installed fall protection system and verify that the system has been built and installed according to the design documents. · Issue a certification, signed and sealed by a registered professional engineer, that the system meets federal, state and local regulations for fall protection systems, with MSA's warranty that the system is suitable for use. Note: Most construction reviews can be accomplished in one day. Additional time may be needed based on the number, complexity and accessibility of the fall protection systems to be reviewed. Note: Price does not include expenses (billed at cost per FAR allowances)	ZS002312	$3087.94
Training · Provide custom training to at-risk workers, supervisors, safety personnel, maintenance staff and others on the safe use, inspection and maintenance of the fall protection system. Training is available on-site or at the MSA Rose Training Center in Englewood, Colorado. Note: Prices to be provided by our Training Manager. GSA price would be 4% discount for Training.	ZS002314	See Note
Training Recertification · Provide recertification /custom training review to previously certified individuals. Training is available on-site or at the MSA Rose Training Center in Englewood, Colorado. Note: Prices to be provided by our Training Manager. GSA price would be 4% discount for Training.	ZS002318	See Note

Evolution® 5000

EVOLUTION® 5000 TIC

MSA has once again set a new standard in thermal imaging—the Evolution 5000 TIC provides big-time performance in a small format TIC. Designed to be a firefighting tool, the Evolution 5000 TIC combines the functionality and durability required of the fire service with features and performance not found on other small TICs.

Features	Benefits
Microbolometer technology (vanadium oxide)	Sharpest picture currently available
3V-inch display	Team of users gets full view of the action
Revolutionary ergonomic design	Easy handling and integration
Optional Heat Seeker Indicator	Rapid identification of combustion source
Unique high-impact bumper protection system	Drop protection from any angle, Outstanding durability
Bright, easy-to-read LED indicators	Minimum confusion in "heat of battle"
Optional Quick-Temp Indicator	Easy identification of relative temperature of surrounding surfaces
Optional Vehicle-Mounted Charging System	TIC is easily accessible and at the ready
Lithium Ion Battery System	Lightweight, excellent run time

TIC Configurations (other configurations available, see ATO Matrix on p. 49)

Description	Part No.	Government Net Price
Evolution 5000 TIC with 110V charger and one battery	10040962	$6,974.42
Evolution 5000 TIC with 110V charger, Quick-Temp, Heat Seeker, 2 batteries, wrist strap, carrying case and reflective trim kit	10040961	$7,937.09
Evolution 5000 TIC with vehicle-mounted charger, Quick-Temp, Heat Seeker, 2 batteries and wrist strap	10040960	$8,054.96
Evolution 5000 TIC with 110V charger, Quick-Temp, Heat Seeker 2 batteries, Retractable Lanyard, carrying case and reflective trim kit	10040939	$7,946.91
Evolution 5000 TIC with vehicle-mounted charger, Quick-Temp, Heat Seeker, 2 batteries and Retractable Lanyard	10040938	$8,064.79
Evolution 5000 TIC with 110V charger, Quick-Temp, Heat Seeker, 2 batteries, shoulder strap, carrying case and reflective trim kit	10040937	$7,973.10
Evolution 5000 TIC with 110V charger, 2 batteries and carrying case	10040936	$7,200.35
Evolution 5000 TIC with vehicle-mounted charger, 2 batteries and carrying case	10040935	$7,328.05
Evolution 5000 TIC with 220V charger, Quick-Temp °C, Heat Seeker, 2 batteries, wrist strap, carrying case and reflective trim kit	10040933	$8,002.57

Accessories for the Evolution 5000 TIC

Description	Part No.	Government Net Price
Charger 110-volt AC with cigarette lighter adapter	10041100	$98.23
Charger 220-volt AC	10040162	$163.72
Lithium Ion Battery	10038412	$62.21
Vehicle-Mounted Charging System	10038997	$389.65
Wrist Strap	10039516	$26.20
Shoulder Strap	10039515	$62.21
Retractable Lanyard	10040226	$35.94
Carabiner Attachment	10040005	$7.18
Sun Shroud	10039603	$39.29
Reflective Trim Kit	10040163	$9.82
Non-Charging Mounting Bracket	10039602	$119.79
Display Cover, disposable, pkg of 3	10038970	$19.65
Locking Carabiner	SRCA613	$19.65
External Transmitter	10047573	$1,277.01

Assemble-to-Order (ATO) System: You Make the Choices

The ATO System makes it easy to "custom order" the Evolution 5000 Thermal Imaging Camera, configured exactly the way you want it. To obtain a copy of the ATO System and Price Information for the Evolution 5000 TIC , request Bulletin No. 0816-07-MC. **To obtain a copy of the ATO via FAX, call MSA QuickLit Information Service at 1-800-672-9010. At the prompt, request QuickLit Document #2338 (ATO for** Evolution 5000 TIC**).**

Total Evolution 5000 List Price

All pricing in US dollars

Prices are 34.51% discount off 2005 Price List.

Configuration Matrix

Category	Code	Option	Price
TIC Camera Type	1	Evolution 5000 TIC-NTSC Format (Standard Format in U.S.)	6,814.23
Heat Seeker	0	No	0.00
	1	Yes	212.84
Quick-Temp	0	None	0.00
	1	Fahrenheit Scale	487.90
	2	Celsius Scale	487.90
Video Accessories	0	SMA to BNC Connector	0.00
	1	Add Tripod Mounting Adapter	32.75
Battery Charging	0	None	0.00
	1	Standard Charger Kit includes 110-220 AC Cigarette Lighter Adapter	98.24
	2	Truck Mounted System	389.67
	3	Standard Charger Kit, 110-220 AC Cigarette Charger and Vehicle Mounted Charger	487.90
			487.90
# Of Batteries	1	One	62.22
	2	Two	124.43
	3	Three	186.65
	4	Four	248.86
Carrying Attachments	0	None-Carabiner Only	0.00
	1	Wrist Strap	26.20
	2	Shoulder Strap	62.22
	3	Retractable Lanyard	36.02
	4	Wrist Strap, Shoulder Strap and Retractable Lanyard	124.43
Storage Options	0	None	0.00
	1	Carrying Case	163.73
	2	Non-Charging Mounting Bracket	98.24
Other Accessories	0	None	0.00
	1	Reflective Trim Kit	9.82
	2	Sun Shroud	39.29
	3	Display Covers	19.65
	4	Trim Kit, Sun Shroud & Display Covers	62.22
Custom Features	0	None	0.00

Part Number: A-EV5000- 1 _ _ _ _ _ _ _ - _ _ _ **Quantity**

TIC kits are available. Use the part numbers on the back page or the above matrix if a custom configuration is desired.

Firefighting and Rescue Equipment from MSA

EVOLUTION® 4100 TIC

The Evolution 4100 TIC combines our patented popular design with a proven high-performance vanadium oxide microbolometer sensor. Its dual-handle design and 5" display provide functionality and ease of use not found in competitive TICs. With the capacity for two batteries, the Evolution 4100 TIC allows up to 5 hours of continuous operation. The heat seeker and digital temperature readout features provide even more valuable information to the firefighters using the camera. A full line of accessories, such as the truck-mounted charger, are also available for Evolution 4100 TIC. See Bulletin 3400-37-MC for product specifications.

NEW!

Description	Part No.	Gov't Net Price
Evolution 4100 with Quick Temp, Heat Seeker, Transmitter, Standard Charger	10057641	$12,588.01
Evolution 4100 with Quick Temp, Heat Seeker, Standard Charger	10057642	$11,540.21
Evolution 4100 with Quick Temp, Heat Seeker, Transmitter Truck Charger	10057643	$12,254.02
Evolution 4100 with Heat Seeker, Transmitter, Truck Charger	10057609	$11,766.14
Evolution 4100 with Heat Seeker, Standard Charger	10057610	$11,052.33
Evolution 4100 with Truck Charger	10057701	$10,505.50
Evolution 4100 with Heat Seeker, Quick Temp, Truck Charger	10057702	$11,206.22
Evolution 4100 with Heat Seeker, Transmitter	10057703	$12,100.13
Demo Unit: Evolution 4100 with all accessories	10057704	$13,400.05
Evolution 4100 with Quick Temp Celsius, Heat Seeker, Transmitter, Standard Charger	10057719	$12,588.01

Part Numbered configurations with a Truck Charger include a Wrist Strap.

Part Numbered configurations with a Standard Charger include Carrying Case, Shoulder Strap and Reflective Trim Kit.

Use the Assemble to Order (ATO) Configurator on p.30 to order customized configurations.

Accessories for the Evolution 4000-Series TIC

Description	Part No.	Gov't Net Price
Evolution 4000-Series Vehicle-Mounted Charging System	10034902	$442.04
Vehicle Mounting Bracket for Evolution 4000-Series TIC	10036108	$252.13
Bunker Clip/Wrist Strap	10022505	$71.56
Standard Shoulder Strap	10022532	$98.58
NiMetH Battery	10016001	$90.36
Standard Battery Charger – 2 slots	10016301	$437.32
Cigarette Lighter Adapter (charger)	10016304	$234.93
Disposable Display Covers (3/pkg) for Evolution 4000-Series TIC	10032953	$19.56
Sun Shroud	10041800	$38.21

Features	Benefits
Microbolometer technology (vanadium oxide)	Sharpest picture available
Large-screen display	Team of users gets full view of the action
Revolutionary ergonomic design	Superior balance and easy handling
Heat Seeker Indicator	Rapid identification of combustion source
Unique high-impact bumper protection system	Drop protection from any angle Outstanding durability
Easy-to-read indicators on video display	Minimum confusion in "heat of battle"
Reflective logos/labels	Easy to locate in dark environments
Optional Quick-Temp Indicator with Digital Temperature Measurement	Easy identification of relative temperature of surrounding surfaces
Optional Remote Wireless Video Transmission System	Seamless communication to incident command
Optional Vehicle-Mounted Charging System	TIC is easily accessible and at the ready

VHS Videotape Program

Description	Running Time	Year Released	Part No.	Gov't Net Price
"Proper Care and Use of the Evolution 4000 Thermal Imaging Camera" (Covers use—15 min, and applications—13 min.)	28 min.	2001	10031671	$35.73

REMOTE WIRELESS VIDEO TRANSMISSION SYSTEMS

MSA's Remote Wireless Video Transmission Systems are modular high-performance systems which allow transmission of video signals from the Evolution TICs to fully contained receiving stations.

State-of-the-art 2.4 GHz technology and electronic and imaging components ensure that the Remote Wireless Video Transmission System provides optimum performance for the firefighter. The systems operate at one of two user-selectable frequencies and have been integrally designed to allow for maximum user flexibility.

Description	Part No.	Gov't Net Price
Deluxe Receiver Kit – Includes receiving station and integrated 12" display, magnetic-mounted omni-directional antenna, wall-type and cigarette lighter power supplies, and BNC to RCA adapters in a hard-sided Pelican case	10048135	$2,914.19
Mini Receiver Kit – Includes receiver, magnetic-mounted omni-directional antenna, wall-type and cigarette lighter power supplies, connection cable for external monitor, and BNC to RCA adapters in a soft-sided, easily transported case	10048134	$1,404.71
Deluxe Remote Wireless Receiving Station P/N 10018995 without 5" flat panel display module, including receiver	10020165	$1,625.73
Tripod kit - 1-5' SLIK tripod and carrying case (for mounting 12" high gain receiving antenna or Evolution cameras)	10018996	$122.15
Receiver	10015938	$867.39
Transmitter	10015939	$441.95
Receiver	10020168	$680.60

Thermal Imaging is a valuable tool for the fire service, but should not be relied upon as a sole means of navigation and should not be used in place of standard firefighting practices. It is recommended that you obtain specialized fireground training prior to using any TIC in an actual fire or emergency situation. Training can be obtained through local or state fire training academies, several private training entities, or fire service distributors.

Tactical Thermal Imaging Training for Firefighters

Available from:

SAFE-IR, INC.
P.O. Box 297
Montgomery, NY 12549
Phone Toll-Free 1-877-472-3347
www.SAFE-IR.com

MSA

Assemble-to-Order (ATO) System: You Make the Choices

The ATO System makes it easy to "custom order" the Evolution 4100 Thermal Imaging Camera, configured exactly the way you want it.

Prices are 34.51% discount off 2005 Price List.

TIC Camera Type	Heat Seeker	Quick-Temp	Transmitter	Battery Charging	# Of Batteries	Carrying Attachments	Storage Options	Other Accessories	Custom Features
9820.23	0 No 0.00	0 None 0.00	0 None 0.00	0 None 0.00	0 None 0.00	0 None 0.00	0 None 0.00	0 None 0.00	0 None 0.00
1 Evolution 4100 TIC-NTSC Format (Standard Format in U.S.)	1 Yes 212.84	1 Fahrenheit Scale 487.90	1 Transmitter 1047.84	1 Standard Charger 110-220 425.69	1 One 87.72	1 Wrist Strap 68.76	1 Carrying Case 327.45	1 Reflective Trim Kit 9.82	
		2 Celsius Scale 487.90		2 Truck Mounted Charger 442.06	2 Two 175.45	2 Shoulder Strap 91.69	2 Non-Charging Mounting Bracket 252.14	2 Sun Shroud 42.57	
				3 Cigarette Lighter DC Adapter 225.94	3 Three 263.17	3 Wrist & Shoulder Strap 160.45		3 Display Covers 22.92	
				4 Standard Charger & Cigarette Charger 867.74	4 Four 350.89	A Canadian Navy Strap 117.88		4 Trim Kit, Sun Shroud & Display Covers 75.31	
				5 Standard Charger Truck Charger & Cigarette Charger 1093.68		B Shoulder Strap with Seatbelt Buckle 111.33			

Part Number: A-EV4100- 1 – ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

Quantity

$ + $ + $ + $ + $ + $ + $ + $ + $ + $ = $ **Total Evolution 5000 List Price**

All pricing in US dollars

ADVANTAGE® 200, 200LS and 3000 AIR PURIFYING RESPIRATORS

(see Data Sheets 10-00-05, 1012-06)

The **Advantage 200 LS Respirator**'s new Lighter and Softer facepiece subtracts 25% of the weight and adds noticeable softness to MSA's popular **Advantage 200 Half-Mask Respirator**. Both half-mask respirators feature the AnthroCurve™ Sealing Surface, which instantly conforms to each wearer's unique facial characteristics, and the patented MultiFlex® System, which equalizes pressure on the face-seal area and delivers exceptional stability so that the respirator will not collapse during wear.

The new **Advantage 3000 Full-Face Respirator** enhances worker performance through a new design that allows even lower breathing resistance and includes a standard nosecup that reduces fogging in low temperatures or high humidity conditions. The facepiece lens has a scratch resistant coating and has been engineered to be optically correct, giving you superior visibility and peripheral vision, eliminating distortion. In addition, the respirator features a wraparound lens combined with a soft, pliable silicone facepiece that provides a total solution to your air-purifying respirator needs. MSA's new pre-sest straps make donning the mask easy. Wearers also can choose the new European-style Advantage harness, which dons like a catcher's mask.

Advantage 200 LS Respirator

Advantage 3000 Respirator

Advantage 200LS Half-Mask Respirator Kit with FREE Protective Eyewear Ordering Information

Description	Small	Medium	Large	Government Net Price
Advantage 200LS Respirator, Blue, complete with 2 Low-Profile P100 Cartridges and 2 pairs of Z87.1.2003 Protective Eyewear (1 clear pair and 1 tinted pair)	10048119	10048120	10048151	$11.46

Advantage 200LS Half-Mask Respirator Ordering Information

Description	Small	Medium	Large	Government Net Price
Advantage 200LS Respirator, Blue	815448	815444	815452	$6.50

Advantage 200 Half-Mask Respirator Ordering Information

Description	Small	Medium	Large	Government Net Price
Advantage 200 Respirator, Gray	815696	815692	815700	$6.71
Advantage 200 Respirator, Gray, Probed, with 2-piece strap	816515	816513	816517	$16.10
Advantage 200 Respirator, R95	816701	816697	816705	$19.29
Advantage 200 Respirator, N95	816943	816939	816947	$18.59

Advantage 3000 Respirator Ordering Information

Description	Small	Medium	Large	Government Net Price
Adv 3000 Single Port, Classic Harness	10028999	10028998	10029000	$82.38
Adv 3000 Single Port, Advantage Harness	10031343	10031342	10031344	$82.38
Adv 3000 Twin Port, Advantage Harness	10031340	10031309	10031341	$71.31
Adv 3200 Twin Port, Classic Harness	10028996	10028995	10028997	$71.31

Advantage 3000 Respirator Accessories Ordering Information

Description	Part No.	Government Net Price
Spectacle Kit for Advantage 3000	10029298	$41.91
Cover Lens, Clear, package of 25	10031542	$18.34
Cover Lens, Smoke, package of 25	10031543	$48.46

ADVANTAGE® 3200 and 1000 RIOT CONTROL GAS MASKS and ADVANTAGE 1000 RESPIRATORS

(see Bulletin 5555-166-MC and Data Sheet 05-00-03)

The **Advantage 3200 Riot Control Gas Mask** is based on MSA's already very popular industrial Advantage 3200 Respirator. It features a soft, pliable silicone facepiece, yet serves as an economical, cost-effective alternative to more expensive Gas Masks for this application.

• New 1-piece polycarbonate wraparound lens, engineered to be optically correct to eliminate distortion, promote superior visibility and peripheral vision

• Soft, pliable silicone facepiece with proven Advantage respirator seal that instantly conforms to wearer's face.

• Choice of head harness: new European-style **Advantage head harness** with easy on/off pre-adjustable straps, dons like a catcher's mask, *or* more traditional **Hycar rubber head harness**

• Dual-canister mount (bayonet mount) allows weapon sighting from either shoulder

• Proven exceptionally comfortable, lightweight, stable, and low maintenance

• Very low breathing resistance

• Standard nosecup to help eliminate lens fogging

• NIOSH-approved (No.TC-14G-0235) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates

Advantage 3200 Riot Control Gas Mask

Advantage 1000 Riot Control with ESP Voice Amplifier

The **Advantage 1000 Full-Face Respirator** and the **Advantage 1000 Riot Control Gas Mask** feature a wraparound flexible lens that offers excellent fit and comfort with increased vision. They weigh 40% less than conventional full-face respirators.

The Advantage 1000 Respirator and the Advantage 1000 Riot Control Gas Mask are constructed of super-soft Hycar™ rubber that provides the feel and comfort of silicone but has better permeation resistance. The facepiece provides an exceptional seal against a wide range of facial contours. The Advantage 1000 facepiece also features a distinctive, flexible urethane lens that is integrally bonded to the facepiece, eliminating the need for rigid lens retainers that cause unwanted pressure points. The Advantage Riot Control Gas Mask offers a flexible, 1-piece polyurethane lens with a wide field of vision.

The Advantage Riot Control Gas Mask also features:

• Dual-canister mount (bayonet mount)—allows weapon sighting from either shoulder

• Fully elastic, 6-point head harness—promotes easy on-off, easy adjustment, no hair pulling

• NIOSH-approval (No. TC-14G-0235) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates

Standard equipment includes a nosecup, to reduce lens fogging in low temperatures or high-humidity conditions, and a speaking diaphragm for clear, short-range communications.

Advantage 1000 Respirator

Advantage Full Facepiece Respirators

Description	Small	Medium	Large	Government Net Price
Advantage 3200 CBA-RCA, Blue, w/Canister, Nosecup & ID Tag—Advantage Head Harness	10036324	10036325	10036326	$101.51
Advantage 3200 CBA-RCA, Blue, w/Canister, Nosecup & ID Tag—Rubber Head Harness	10038695	10038696	10038697	$101.51
Advantage 1000 CBA/RCA, Black, with CBA/RCA Canister	813860	813859	813861	$137.39
Advantage 1000, Black	805414	805408	805420	$94.33

Advantage 1000 CBA/RCA Respirator Accessories

Description	Part No.	Government Net Price
CBA/RCA Advantage Canister, box of 6	817590	$145.38
Inlet Cap, Replacement for Advantage 1000 CBA/RCA	813341	$4.81
Adapter, 40mm NATO Thread for Advantage 1000	10012413	$13.56

Advantage 1000 Accessories

Description	Part No.	Government Net Price
Spectacle Kit, Advantage 1000/MCU/Millennium	816137	$41.91
Cover Lens, Advantage 1000, Box of 25	813832	$30.58
Lens Shield, Advantage 1000, Clear,		$14.73
small	806463	
medium/large	806462	
Lens Shield, Advantage 1000, Tinted		$21.10
small	806465	
medium/large	806464	
Nosecup, Advantage 1000		$22.70
small	806468	
medium	806466	
large	806470	
Voice Amplifier, ESP II, Advantage 1000	10026265	$180.89
Advantage 200/Comfo Classic Pouch	468730	$16.02
Storage Case for Advantage 1000/Millennium	10017571	$8.78

Cover Lenses

Lens Shields

Spare parts are also available.

Firefighting and Rescue Equipment from MSA

ADVANTAGE CARTRIDGES

GMA Cartridge for Advantage Respirators

GME-P100 Cartridge for Advantage Respirators

Low Profile Cartridge for Advantage Respirators

R95 Prefilter for Advantage Respirators

Flexi-Filter Pads for Advantage Respirators

Description	Packaging	Re-Order Part No.	Government Net Price
GMA	1 pair	815355	$5.80
GMA P100	1 pair	815362	$11.03
GMB	1 pair	815356	$5.95
GMB P100	1 pair	815363	$11.03
GMC	1 pair	815357	$5.95
GMC P100	1 pair	815364	$11.03
GMD	1 pair	815358	$6.53
GMD P100	1 pair	815365	$11.55
GME	1 pair	815359	$6.44
GME P100	1 pair	815366	$11.25
GMI -P100	1 pair	815641	$11.66
Mersorb	1 pair	815361	$11.96
Mersorb P100	1 pair	815368	$17.39
Low-Profile P100	1 pair	815369	$4.33
N95 Pre-Filter	box of 10	815394	$8.28
N95 Pre-Filter	box of 50	816357	$36.59
N95 Pre-Filter Cover 2 required per mask	2 each	815392	$2.06
R95 Pre-Filter	box of 50	815397	$19.66
R95 Pre-Filter Cover 2 required per mask	2 each	815401	$2.12

Description	Packaging	Re-Order Part No.	Government Net Price
Flexi-Filter P100	2/pkg	818342	$3.61
Flexi-Filter P100/OV	2/pkg	818343	$4.94
Flexi-Filter P100/AG/HF	2/pkg	818344	$4.94
Flexi-Filter P100/HG/CL	2/pkg	818345	$5.43
Flexi-Filter P95	2/pkg	818354	$2.29
Flexi-Filter P95/OV	2/pkg	818355	$3.83
Flexi-Filter P95/AG/HF	2/pkg	818356	$3.83
Flexi-Filter P95/HG/CL	2/pkg	818357	$3.83
Flexi-Filter N95	2/pkg	818346	$2.13
Flexi-Filter N95/OV	2/pkg	818347	$3.56
Flexi-Filter N95/HG/CL	2/pkg	818349	$3.56

Description	Part No.	Government Net Price
Cartridge Adapter, converts Advantage respirators to permit use of MSA Comfo cartridges (1 ea.; 2 req.)	809999	$3.77

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

Definitions
N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.
R95-Particulate Filter (95% filter efficiency level) effective against *all* particulate aerosols; time use restrictions may apply.
P100-Particulate Filter (99.97% filter efficiency level) effective against *all* particulate aerosols.

⚠ WARNING

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:

Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride
Aniline	Hydrogen selenide	Nitro compounds	Stibine
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	

RESPONSE™ ESCAPE HOOD

The MSA Response Chemical-Biological Warfare Agent Riot Control Agent Hood features a quarter-mask facepiece with an integral hood that offers a comfortable fit with a large field of vision, reduced claustrophobia, and increased user recognition. The hood uses a 40-mm threaded canister. When the wearer inhales, contaminated air enters and flows though the canister, which removes the contaminants from the air stream, so the wearer breathes in clean, fresh air.

Description	Part No.	Government Net Price
MSA Response Escape Hood with CBA/RCA canister	10022208	$108.05
MSA Response Escape Hood with CBA/RCA canister & videotape	10037909	$120.10
Training Hood	10043707	$75.31

MSA

RESPIRATORS FOR HOMELAND SECURITY

Millennium® CBRN Gas Mask

MSA's Millennium CBRN Gas Mask was first to receive NIOSH certification as "compliant against CBRN".

A Hycar version of the reliable military-style gas mask (MCU-2/P Mask, used by U.S. Air Force in Desert Storm) that combines high performance, customized fit, comfort and cost efficiency.

- Flexible, 1-piece polyurethane lens with wide field of vision is bonded to durable Hycar rubber facepiece.
- Dual-canister mount allows weapon sighting from either shoulder
- Drinking tube provides connection for fluid ingestion in contaminated atmospheres
- Fully elastic, 6-point head harness promotes easy on/off and adjustment, with no hair pulling
- Internal nose cup with 2 check valves, deflects air from the lens, reduces fogging
- CBRN canister containing chemical sorbents and a P100 filter to attract, retain and neutralize contaminants
- Standard mechanical speaking diaphragm included, or add MSA's optional ESP® II Communications System
- Optional butyl-coated nylon hood for total head protection
- NIOSH-approved (No. TC-14G-0270) for protection at a CBRN Cap 1 rating

Description	Part No.	Government Net Price
Millennium CBRN Gas Mask with nosecup, drinking tube, and clear polycarbonate outsert. Order canister separately.		$199.41
Small	10051286	
Medium	10051287	
Large	10051288	
Millennium CBRN Canister	10046570	$29.47

Millennium Gas Mask Accssories

Description	Part No.	Gov't Net Price
Riot Control Millennium (NATO 40mm Thread) Canister, box of 6	818264	$149.66
Riot Control Millennium Full Spectrum Canister, box of 6	10011890	$171.90
GME-P100 Millennium Canister, box of 6	10024847	$170.27
Voice Amplifier, ESP II, Millennium/MCU-2/P	10026265	$180.89
Lens Shield, Millennium, Clear, Small	10008907	$14.20
Lens Shield, Millennium, Clear, Medium/Large	10008906	$14.20
Lens Shield, Millennium, Tinted, Small	10008909	$20.80
Lens Shield, Millennium, Tinted, Medium/Large	10008908	$20.80
Hood, Millennium/Advantage 1000/MCU series	305022	$40.58
Storage Case for Advantage 1000/Millennium	10017571	$8.78
Gas Mask Pouch	10034184	$41.09
Spectacle Kit	816137	$41.91

MCU Series Gas Mask Accssories

Description	Part No.	Gov't Net Price
Lens Shield, MCU, Clear,		$14.20
Small	305026	
Medium/Large	305027	
Lens Shield, MCU, Tinted,		$20.80
Small	305131	
Medium/Large	305132	

Spare parts are also available.

Ultra Elite® CBRN Gas Mask

Safety
- Super-soft black Hycar rubber exceeds the CBRN permeation requirements
- Large lens with 83% unimpeded vision
- Centrally located inlet port for secure, comfortable fit and feel
- Centrally located mechanical speaking diaphragm for clear communications
- Optional ClearCommand® Amplifier for increased communication capabilities

Simplicity
- Available with a 5-point rubber or SpeeD-ON® head harness
- Identical sealing surfaces for both SCBA and Gas Mask facepieces—eliminating the need for redundant fit testing
- Simplified respiratory protection training program

Reliability
- The Ultra Elite facepiece is fire-service proven, with over a decade of trusted use
- MSA has been making gas masks since World War I
- Largest supplier of gas masks to the law enforcement market

Description	Part No.	Government Net Price
Ultra Elite Hycar Gas Mask with rubber Head Harness		$154.56
Small	10052776	
Medium	10052781	
Large	10052778	
Ultra Elite Hycar Gas Mask with SpeeD-On Head Harness		$180.75
Small	10052780	
Medium	10052779	
Large	10052777	
MSA CBRN Canister	10046570	$29.47

RESPIRATORS FOR RIOT CONTROL

The Millennium Riot Control Mask and the Advantage 1000 and 3200 Riot Control Masks are NIOSH-approved for protection against CN and CS Riot Control Agents, and P100 particulate efficiency level. See Bulletin 5555-160-MC for more specific information on chemical warfare agents.

Millennium® Riot Control Gas Mask

A Hycar version of the reliable military-style gas mask (MCU-2/P Mask, used by the U.S. Air Force in Desert Storm) that combines high performance, customized fit, comfort, and cost efficiency.

• Flexible, 1-piece polyurethane lens with wide field of vision is bonded to durable Hycar rubber facepiece
• Dual-canister mount (NATO 40mm thread) allows weapon sighting from either shoulder
• Drinking tube provides connection for fluid ingestion in contaminated atmospheres
• Fully elastic, 6-point head harness promotes easy on/off, easy adjustment, no hair pulling
• Internal nosecup with 2 check valves deflects air from the lens, reduces fogging
• Standard mechanical speaking diaphragm included, or add MSA's optional ESP® II Communications System
• NIOSH -approved (No. TC-14G-0254) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates

Description	Part No.	Government Net Price
Millennium Riot Control Mask with nosecup, drinking tube and clear polycarbonate outsert. Order canisters separately.		$199.41
Small	10051286	
Medium	10051287	
Large	10051288	
Millennium Riot Control Canisters, box of 6	818264	$149.66

Advantage® 1000 Riot Control Gas Mask

A clean, simplified respirator with Hycar facepiece (based on a proven facepiece design developed for the U.S. Armed Forces) that's up to 40% lighter than conventional full-face respirators and gives high performance, customized fit, comfort, economy, and user acceptance.

• Flexible, 1-piece polyurethane lens with wide field of vision is bonded to durable Hycar rubber facepiece
• Dual-canister mount (bayonet mount) allows weapon sighting from either shoulder
• Fully elastic, 6-point head harness promotes easy on/off, easy adjustment, no hair pulling
• Standard nosecup helps eliminate lens fogging
• Standard mechanical speaking diaphragm included, or add MSA's optional ESP II Communications System
• NIOSH-approved (No. TC-14G-0235) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates

Description	Part No.	Government Net Price
Advantage 1000 Riot Control Gas Mask, complete with canister, nosecup and identification tag.		$137.39
Small	813860	
Medium	813859	
Large	813861	
Advantage 1000 Riot Control Canisters, box of 6	817590	$145.38

MILLENNIUM AND ADVANTAGE 1000 ACCESSORIES

ESP® II Communications System

The ESP II Communications System, a 1-piece, self-contained, electronic speech projection device, allows wearers to speak normally, yet be heard loud and clear.

Description	Part No.	Government Net Price
ESP Communications System for Millennium and Advantage 1000 Facepieces (less battery)	10026265	$180.89

Lens Outsert

Polycarbonate lens outsert snaps into place over Millennium or Advantage 1000 facepiece lens, providing additional impact protection. Tinted outsert helps conceal identity (suitable only when sufficient light exists).

Description			Government Net Price
For Millennium Facepiece	**Small**	**Medium/Large**	
Clear lens outsert	10008907	10008906	$14.20
Tinted lens outsert	10008909	10008908	$20.80
For Advantage 1000 Facepiece	**Small**	**Medium/Large**	
Clear	806463	806462	$14.73
Tinted	806465	806464	$22.70

Other Accessories

Description	Part No.	Gov't Net Price
Gas Mask Pouch, Military Style	10034184	$41.09
Black Nylon Bag	817040	$20.24
Advantage 1000/ Millennium Spectacle Kit	816137	$41.91
Butyl-Coated Nylon Hood	305022	$40.58

MSA

PHALANX™ CHEM-BIO/RIOT CONTROL AGENT GAS MASK

(see Data Sheet 05-01-03)

Phalanx CBA-RCA (Chemical/Biological Agent-Riot Control Agent) Gas Masks from MSA are specifically designed for use by law enforcement and emergency response personnel.

Phalanx CBA-RCA Gas Masks are molded from black Hycar rubber, which resists chemical attack and temperature extremes and is able to withstand rugged daily use. Hycar is particularly resistant to permeation against chemical warfare agents. The facepiece is soft and pliable for a snug, comfortable fit.

- The Phalanx CBA-RCA Gas Mask is NIOSH-approved for protection against CN and CS tear gas.
- This mask is also effective against, but does not have NIOSH approval for, OC tear gas.
- The Phalanx Gas Mask is also effective against biological agents and chemical warfare agents.
- Low-profile mask reduces interference with other personal protective equipment.
- Dual-canister mount allows weapon firing from either shoulder.
- Standard speaking diaphragm for clear, close range communication. The facepiece adapts to optional ESP Communications System.
- The Phalanx CBA-RCA Canister is also approved on the Ultravue Facepiece.

Phalanx Gas Mask

Description	Small	Medium	Large	Government Net Price
Phalanx CBA/RCA Facepiece, Black, with EZ-Don Harness and CBA/RCA Canister	491990	491989	491991	$188.77

ULTRA-TWIN/ULTRA ELITE/PHALANX ACCESSORIES

Cover Lens

Side Support Spectacle Kit for Ultra Elite Facepiece

Center Support Spectacle Kit for Ultra Elite

Spectacle Kit for Ultravue/Ultra Twin Facepiece

Welder's Adapter for Ultravue and Ultra Twin Facepiece

Twin Cartridge Adapter for Ultravue/Ultra Elite Respirators

Description	Part No.	Government Net Price
CBA/RCA Phalanx Canister, box of six	817591	$166.99
Inlet Cap, Replacement for Phalanx CBA/RCA	488114	$1.96
Cover lens, Ultra Elite, box of 25	491500	$28.49
Cover Lens, Ultra Elite, Smoke, 25/box	805456	$61.82
Cover Lens, Ultravue, Smoke, 25/box	480326	$58.45
Cover Lens, Ultravue, Smoke, 6/box	494254	$20.30
Cover Lens, Ultravue, Mirror, 6/box	494255	$20.30
Cover Lens, Ultravue, Yellow, 6/box	494256	$23.58
Cover lens, Ultra Twin/Ultravue, box of 25	456975	$28.49
Spectacle Kit, Ultra Twin/Ultravue	454819	$41.91
Spectacle Kit, Ultra Elite (side wire support)	804638	$41.91
Spectacle Kit, Ultra Elite (center support)	493581	$41.91
Carrier	817040	$20.24
Carrying Case for Ultra Elite	D 2056734	$20.30

Description	Part No.	Government Net Price
Ultra Twin/Ultravue Lens (non-NFPA)	96677	$21.32
Ultra Elite Lens Ring, Upper	804804	$5.40
Ultra Elite Lens Ring, Lower	804805	$7.99
Welder's Adapter, Clip-on, Ultra Twin/Ultravue (less Filter Plate)	472859	$97.58
Welder's Adapter, Integral, Ultra Twin/Ultravue (less Filter Plate)	470786	$97.58
Welder's Adapter, Clip-on, Ultra Elite (less Filter Plate)	806482	$96.27
Welder's Hood	486568	$73.02
Twin-Cartridge Adapter for Ultra Elite/Ultravue Facepieces	803622	$16.70

Description	Small	Medium	Large	Government Net Price
Nosecup, Ultravue/Ultra Twin, Silicone, Black	813138	813139	813140	$26.69
Nosecup, Hycar, Ultra-Elite, Black	—	495188	495189	$26.69
Lens Ring Kit, Ultra Twin	471249	464358	471250	$12.05

Spare parts are also available.

Nosecups for Ultravue/ Ultra-Twin and Ultra Elite

Firefighting and Rescue Equipment from MSA

COMFO®/ULTRA-TWIN®/ULTRA ELITE® AIR PURIFYING RESPIRATORS

(see Data Sheet 10-02-03 and 10-00-03)

The **Comfo Classic Respirator** features SoftFeel® facepiece material, an exclusive formulation that improves the pliability and softness of both Hycar™ rubber and silicone—the two facepiece materials available with Comfo Classic Respirators. The Comfo Classic Respirator offers a unique face seal design that gives wearers an exceptional fit.

The **Ultra-Twin Full-Facepiece Respirator** has an inturned lip around the edge for a secure, comfortable seal against the face. A large chin cup makes it easy to position. Five suspension headstraps and roller buckles hold the facepiece in place while minimizing hair entanglement. The wide polycarbonate lens is coated to resist scratching and chemical attack. The lens is held in place by a two-piece lens ring which is color-coded to indicate the size of the facepiece. Uses the full line of Comfo Cartridges and Filters.

Standard equipment includes a speaking diaphragm for clear, short-range communications and a nosecup, to reduce lens fogging in low temperatures or high-humidity conditions.

The demand version of the **Ultra Elite Facepiece** from MSA can be used as a twin-cartridge air-purifying respirator for full-face respiratory protection. The unique lens design provides a high level of peripheral and downward vision. It is available in three sizes and has large adjustment tabs for easy donning and doffing. Choose one of two facepiece materials—SoftFeel® Hycar rubber or silicone—to enhance wearer comfort. A speaking diaphragm in front of the wearer's mouth improves communication so that speech is not blocked. A nosecup reduces lens fogging in low temperatures or high-humidity conditions.

Comfo Classic Facepiece (with cartridges)

Ultra-Twin Facepiece

Ultra Elite Facepiece with Twin-Cartridge Adapter

Description	Small	Medium	Large	Government Net Price
Comfo Classic Facepiece				
Hycar, Black	808075	808074	808076	$18.62
Silicone, Black	808072	808071	808073	$18.62
Ultra-Twin Facepiece				
Hycar, Black	471298	471286	471310	$142.30
Silicone, Black	480263	480259	480267	$142.30
Ultra Elite Facepiece, less twin Cartridge Adapter				
Hycar, Black	493064	493020	493108	$151.28
Silicone, Black	493072	493028	493116	$151.28

COMFO CARTRIDGES FOR COMFO CLASSIC/ULTRA TWIN/ULTRA ELITE

GMA Comfo Cartridge   **GME-P100 Comfo Cartridge**   **P100 Low Profile Comfo Cartridge**   **N95 Stand-Alone Filter**

Definitions
N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.
R95-Particulate Filter (95% filter efficiency level) effective against *all* particulate aerosols; time use restrictions may apply.
P100-Particulate Filter (99.97% filter efficiency level) effective against *all* particulate aerosols.

Description	Packaging	Re-Order Part No.	Government Net Price
GMA	box of 10	464031	$30.90
GMA P100	box of 6	815178	$36.87
GMA P100 Short Stack	box of 6	815186	$39.72
GMB	box of 10	464032	$30.90
GMB P100	box of 6	815179	$36.89
GMC	box of 10	464046	$30.90
GMC P100	box of 6	815180	$36.87
GMC P100 Short Stack	box of 6	815188	$39.72
GMD	box of 10	464033	$34.92
GMD P100	box of 6	815181	$38.84
GME	box of 10	492790	$34.77
GME P100	box of 6	815182	$39.84
GMI P100	box of 6	815184	$41.95
Mersorb	box of 10	466204	$73.14
Mersorb P100	box of 6	815185	$73.23
P100	box of 10	815175	$37.09
Low-Profile P100	box of 10	815177	$37.09
P100 Sparkfoe	box of 10	815176	$37.09
N95 Stand-Alone Filter	box of 10	816662	$8.19
N95 Stand-Alone Filter	box of 50	816661	$36.94
N95 Stand-Alone Cover For use w/816661 and 816662 2 required per mask	1/pkg	489353	$1.39
R95 Pre-Filter	pkg of 20	816287	$19.63
R95 Pre-Filter Cover 2 required per mask	1/pkg	489219	$1.08

Description	Part No.	Government Net Price
Cartridge Receptacle, 1 each, 2 required per mask	487905	$2.95
Gasket, 1 each, 2 required per mask	459035	$1.16
Cartridge Adapter, converts Advantage respirators to permit use of MSA Comfo cartridges (1 each; 2 required)	809999	$3.77
Ultra Elite Twin Cartridge Adapter	803622	$16.70

⚠ WARNING

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:

Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride
Aniline	Hydrogen selenide	Nitro compounds	Stibine
Arsine	Methanol	Nitrogen oxides	Sulfur chloride
Bromine	Methyl bromide	Nitroglycerin	Urethane or other
Carbon monoxide	Methyl chloride	Nitromethane	diisocyanate-
Diisocyanates	Methylene chloride	Phosgene	containing paints
Dimethyl sulfate	Nickel carbonyl	Phosphine	Vinyl chloride

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

MSA

ULTRA FILTER® RESPIRATORS

Ultra Filter Respirators are full-face, single-cartridge respirators, designed for protection against particulate hazards, especially in the nuclear and abatement industries. The Ultra Filter Respirator uses a compact round filter cartridge that has a large effective filter area to provide low breathing resistance and high loading capacity. The Round Ultra Filter Cartridge has a P100 classification for high-efficiency protection against oil- and non-oil-containing hazards or hazard-specific standards requiring HEPA filters, such as the Lead and Asbestos Standards.

Description	Part No.	Government Net Price
Ultra Filter Respirator, Medium, Hycar, Black	10007370	$145.38
Ultra Filter Respirator, Medium, Silicone, Black	10009220	$145.38
Ultra Filter, Round, box of 6	10010420	$65.59
Ultra Filter, Round, box of 50	10010421	$514.08

ONLINE RESPONSE® RESPIRATOR SELECTOR

Available on the internet at www.MSAnet.com/response

• Helps identify the proper respirator you need
• Has broadest range of respiratory protective devices available
• Recommends respirators for more than 700 chemical hazards
• Has nearly 3,000 chemical synonyms
• Lists up to 27 categories of respirators, with MUCs
• Is generic in nature

CARTRIDGE LIFE EXPECTANCY CALCULATOR

Available on the internet at www.MSAnet.com/msanorthamerica/msaunitedstates/cartlife

MSA's interactive web pages help users determine the life expectancy of specific respirator cartridges in various hazardous situations. This information provides guidance for how long a cartridge should be used before it must be replaced.

Respirator recommendations for over 700 substances

OPTIMAIR® POWERED AIR PURIFYING RESPIRATORS

(see Data Sheets 10-00-09 and 10-04-09; Bulletin 1010-13-MC)

The **OptimAir MM 2K Powered Air-Purifying Respirator (PAPR)** is designed for work in abatement, nuclear, lead, and other hazardous particulate environments. The PAPR filters particulates and provides a constant flow of respirable air to the Ultravue® or Ultra Elite® Facepiece. The mask-mounted motor/blower with HEPA filter has a low-profile design that enhances user maneuverability and simplifies decontamination. The PAPR includes a small, lightweight, water-resistant nickel metal hydride (NiMH) battery pack that will operate for eight hours of continuous use. The standard dual-rate battery charger will recharge a fully discharged battery in less than three hours.

The **OptimAir 6A Powered Air-Purifying Respirator (PAPR)** provides respiratory protection by filtering contaminants from ambient air and providing air flow to either a facepiece or hood (with HEPA filters only) at a rate equal to or exceeding NIOSH standards. It can be used with an entire family of filters, chemical cartridges, and combination cartridges for protection against particulates, toxic gases and vapors, or a combination of these hazards. It requires two filters. The unit is available with full- or half-mask facepieces, or a hood. Applications include hazardous materials cleanup, asbestos and lead paint abatement, chemical processing, foundry, smelter and coke oven applications, and nuclear facilities work.

OptimAir MM 2K PAPR with Advantage 3000 Facepiece

OptimAir 6A PAPR

The **OptimAir 6HC PAPR (Health Care Powered Air-Purifying Respirator)** from MSA is specifically designed to protect health care professionals from residual Chemical/Biological/Radiological Agents, when they are performing First Responder duties during Homeland Security or terrorist situations. The system features a lightweight, chemical-resistant Tychem SL Hood and belt-mounted blower with two HC Cartridges. The canisters contain a pleated high-efficiency (P100) filter to remove aerosols, radionuclides, and solid particulates; and an impregnated activated carbon bed to adsorb (filter out) gases and vapors. The carbon bed is the same as used in military canisters and is effective against mustard (HD), Sarin (GB), DMMP (a Sarin simulant), HCN, and CK.

OptimAir 6HC PAPR

- Continuous air flow meets or exceeds NIOSH standard
- Entire lightweight PAPR weighs under 6 pounds
- Design allows freedom of movement plus optimum protection
- Lithium battery provides 10-year shelf life, 4 hours of wear time
- Approved for High Efficiency, Chlorine, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride, Hydrogen Sulfide (escape only)

Description	Small	Medium	Large	Government Net Price
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable, 1 Type HE OptiFilter XL cartridge, belt, and Advantage 3000 Facepiece, w/Advantage head harness	10034155	10034153	10034154	$326.78
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable, 1 Type HE OptiFilter XL cartridge, belt, and Advantage 3000 Facepiece, w/rubber head harness	10034152	10034150	10034151	$326.78
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable 1 Type HE OptiFilter XL cartridge, belt, and Ultravue Facepiece, silicone, black	10023881	10023859	10023880	$358.22
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable 1 Type HE OptiFilter XL cartridge, belt, and Ultravue Facepiece, Hycar, black	10023858	10023569	10023857	$358.22
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable 1 Type HE OptiFilter XL cartridge, belt, and Ultra Elite Facepiece, silicone, black	10023886	10023887	10023885	$358.22
OptimAir MM 2K PAPR, with NiMH battery, dual-rate battery charger, cable 1 Type HE OptiFilter XL cartridge, belt, and Ultra Elite Facepiece, Hycar, black	10023882	10023883	10023884	$358.22
OptimAir 6A PAPR with 1,500 Hour Motor, Millennium Facepiece, black	10046392	10046391	10046393	$520.63
OptimAir 6A PAPR with 1,500 Hour Motor, MIllennium Facepiece, black	10046395	10046394	10046396	$509.49
OptimAir 6A PAPR with 1,500 Hour Motor, Ultravue Facepiece, black	494237	494236	494238	$506.87
OptimAir 6A PAPR with 1,500 Hour Motor, Comfo Facepiece, black (other facepiece sizes may be ordered with unit, contact the Contract Administrator for assistance)	—	800749	—	$401.44
OptimAir 6HC PAPR with Advantage 3000 with motor/blower module, lithium battery, hood, breathing tube, belt and 2 HC Cartridges	—	10045100	—	$517.35
OptimAir 6HC PAPR with Tychem Hood with motor/blower module, lithium battery, breathing tube, belt and 2 HC Cartridges	—	10041550	—	$523.90

Description	Part No.	Government Net Price
OptimAir 6A PAPR, with lithium battery	816892	$487.88
OptimAir 6A PAPR, with brush-type motor, NiCad battery, breathing tube for tight-fitting facepieces, charger, belt, less facepiece & cartridges	10023039	$363.46
OptimAir 6A PAPR, with brush-type motor, lithium battery, breathing tube for tight-fitting facepieces, charger, belt, less facepiece & cartridges	10023040	$352.32
OptimAIr 6A PAPR, with Tyvek Hood, motor/blower assembly, NiCad battery, breathing tube, belt and battery charger (use Type HE cartridges only)	491301	$445.32

OptimAir MM 2K Upgrade Kit & Facepieces

Description	Part No.	Government Net Price
OptimAir MM 2k Upgrade Kit, includes motor/blower module, NiMH battery, dual-rate battery charger, cable, 1 Type HE OptiFilter XL cartridge, belt. Use your present demand-style Ultravue or Ultra Elite facepiece, or order Advantage facepiece (see right)	10025945	$288.15

Description	Small	Medium	Large	Government Net Price
Advantage 3100 Single-Port Respirator Facepiece, with Advantage harness	10031343	10031342	10031344	$82.38
Advantage 3100 Single-Port Respirator Facepiece, with rubber harness	10028999	10028998	10029000	$82.38

OptiFilter Cartridges

Description	Packaging	Part No.	Government Net Price
Type H OptiFilter XL Cartridge	box of 6	496081	$56.29
Type H OptiFilter Cartridge	box of 50	491009	$458.02
Type H OptiFilter Cartridge	box of 6	491010	$57.96
Type HE OptiFilter Cartridge, plastic	box of 6	10042346	$175.38
Type HC OptiFilter Cartridge, plastic	box of 6	10042448	$170.27
GMA-H OptiFilter Cartridge	box of 6	800376	$114.93
GMC-H OptiFilter Cartridge	box of 6	494217	$114.93

Description	Packaging	Part No.	Government Net Price
GMD-H OptiFilter Cartridge	box of 6	494219	$114.93
OptiFilter XL Prefilter/Cover Assembly	1 each	497098	$3.41
OptiFilter Prefilters	50/box	493524	$8.81
Prefilter/Cover Assembly for OptimAir MM	1 each	496342	$1.41
CBA/RCA OptiFilter Canister	box of 6	10011890	$171.90

OptimAir Facepieces & Nosecups

Description	Small	Medium	Large	Government Net Price
Ultravue, Opti, Facepiece, Black Hycar	471218	457126	471230	$151.28
Ultravue, Opti, Facepiece, Black Silicone	480251	480247	480255	$151.28
Ultra Elite Facepiece, Black Hycar	493064	493020	493108	$151.28
Ultra Elite Facepiece, Black Silicone	493072	493028	493116	$151.28
Comfo Facepiece, Black Hycar	480127	480122	480132	$43.11
Comfo Facepiece, Black Silicone	480130	480125	480135	$43.11
Nosecup, Ultravue/Ultra Twin, Black Silicone	813138	813139	813140	$26.69

OptimAir 2K MM Battery Pack

OptimAir Accessories

Description	Part No.	Government Net Price
Cover lens, Ultra Twin/Ultravue, box of 25	456975	$28.49
Spectacle Kit, Ultra Twin/Ultravue	454819	$41.91
Voice Amplifier, ESP, Ultravue	811737	$243.17
OptimAir MM 2K PAPR NiMH Battery Pack	10023481	$113.42
OptimAir MM 2K PAPR Motor/Blower Assembly	10023482	$83.01
OptimAir MM 2K PAPR Cable Assembly	10023480	$41.81
OptimAir MM 2K PAPR Dual Rate Battery Charger	10023483	$62.87
OptimAir 6A Rechargeable Battery	491120	$180.09
OptimAir 6A Lithium Battery	816912	$178.78
OptimAir 6A Charger	463471	$37.26
OptimAir 6A Dual Rate Charger	486614	$187.29
OptimAir 6A 1,500 Hour Motor	491102	$219.38
Facepiece Breathing Hose, 30 inch	486364	$52.88
Facepiece Breathing Tube, 36 inch	492197	$46.63
OptimAir 6A PVC Splash Cover	808494	$50.75
OptimAir 6A Replacement Tyvek Hood (shell only)	488721	$26.46
OptimAir 6A Replacement Tyvek Hood (assembly)	486485	$48.79
OptimAir 6HC Hood Assembly	10048179	$81.86
OptimAir 6HC Lithium Battery	10048180	$129.67

OptimAir Flow Test Equipment & Accessories

Description	Part No.	Government Net Price
Field Test Unit, OptimAir 6A	468486	$478.91
Flow Test Unit, OptimAir 6A/MM	488903	$333.99
Flow Check Meter, 6A	487995	$25.10
Flow Check Meter Adapter, MM	491046	$3.11

Support Belts for PAPRs

Description	Part No.	Government Net Price
Urethane Coated Nylon Belt	492827	$15.32
PVC Belt	473902	$5.96
Web Belt	9961	$20.30
Shoulder Support Strap	803903	$18.01

Firefighting and Rescue Equipment from MSA

WELDER'S ADAPTERS FOR FULL-FACEPIECE RESPIRATORS

MSA Welder's Adapters are molded of polycarbonate plastic, which has high resistance to impact, heat, and welding splatter. The clip-on adapter attaches to the Ultravue or Ultra-Twin Facepiece by molded-in clips. The integral adapter is attached by removing the facepiece lens and replacing it with the adapter. A large vision area—4½" x 5¼"—provides an unobstructed view of work.

The Welder's Adapter is supplied with an impact-resistant cover lens; the desired filter plate is ordered separately. Rayfoe™ Filter Plates are available in four standard shades—6, 10, 12, 14.

The heat-resistant Welder's Hood, made of rubberized glass yarn hood, has a rubber seal which fits snugly over the Welder's Adapter.

Description	Part No.	Government Net Price
Clip-On Welder's Adapter for Ultravue and Ultra Twin Facepiece; with cover lens, less filter plate	472859	$97.58
Integral Welder's Adapter for Ultravue and Ultra Twin Facepiece; with cover lens, less filter plate	470786	$97.58
Clip-On Welder's Adapter for Ultra Elite Facepiece; with cover lens, less filter plate	806482	$96.27
Rayfoe Filter Plate, shade 6, heat-treated	38346	$3.43
Rayfoe Filter Plate, shade 10, heat-treated	38347	$3.43
Rayfoe Filter Plate, shade 12, heat-treated	38277	$3.43
Rayfoe Filter Plate, shade 14, heat-treated	38348	$3.43
Welder's Hood, glass yarn material	486568	$73.02

Welder's Adapter for Ultravue and Ultra Twin Facepiece

Qualitative Fit Test Kit

Confidence Plus Germicidal CLeaner

Personal Safety Equipment Towelettes

RESPIRATOR CLEANING PRODUCTS

(see Data Sheet 10-00-13)

Description	Part No.	Government Net Price
Cleaner, Confidence Plus Germicidal, Liquid, 32 oz bottle	10009971	$16.37
Towelettes, 220 unit canister	697382	$12.02
Towelettes, 100 individually wrapped	697383	$10.48
"The Big Ones" Towelettes, box of 50 individually wrapped	10022871	$10.35
Disposable Lens Cleaning Station, large	10022085	$7.84
Disposable Lens Cleaning Station, small	10022086	$4.12
Disposable Dispenser Box for Towelettes	10022087	$5.37

FACEPIECE FIT TEST ACCESSORIES

Description	Part No.	Government Net Price
Banana Oil Fit Test Kit	801628	$218.68
Saccharin Qualitative Fit Test Kit	697287	$158.49
Saccharin Replacement Sensitivity Solution, 55ml Bottle	697285	$15.87
Saccharin Replacement Fit-Test Solution, 55ml Bottle	697286	$15.87
#2 Sensitivity Nebulizer	697459	$60.96
Video, Using the Saccharin QFT Kit	697325	$33.65
Bitrex Qualitative Fit Test Kit	697444	$144.43
Sensitivity Solution, 55 ml Bottle	697445	$12.20
Bitrex Replacement Fit-Test Solution, 55 ml Bottle	697446	$12.20
Video, Using the Bitrex QFT Kit	697449	$35.69

Description	Part No.	Government Net Price
QFT Replacement Hood	697448	$26.39
#1 Sensitivity Nebulizer	697447	$60.96
#2 Sensitivity Nebulizer	697459	$60.96
QuikChek II for Comfo Classic, Ultra Twin, Advantage 200 LS	812022	$75.30
QuikChek for Advantage 1000	10006227	$17.12
QuikChek III Adapter	805078	$59.27
QuikChek IV Adapter	817446	$35.73
Filter Cartridge, Type H OptiFilter, box of six, for QuikChek III & IV	491010	$57.96
QuikChek Replacement Kit w/ 25 foot Sampling Tubing & 25 Clips, Connectors, & Suction Cups	803196	$87.31

Probed Facepieces

Description	Small	Medium	Large	Government Net Price
Probed Comfo Classic, Hycar, Black	808253	808247	808259	$22.23
Probed Ultra Twin, Hycar, Black	471683	465457	471684	$142.30
Probed Ultravue, Hycar, Black	471681	465425	471682	$151.28
Probed Ultra Elite, Hycar, Black	813210	813208	813212	$151.28
Probed Comfo Classic, Silicone, Black	808258	808252	808264	$24.77
Probed Ultra Twin, Silicone, Black	482025	482024	482026	$142.30
Probed Ultravue, Silicone, Black	482009	482008	482010	$151.28
Probed Ultra Elite, Silicone, Black	813211	813209	813213	$151.28

QuickCheck II Adapter

QuickCheck III Adapter



QuickCheck Adapter for Advantage 1000

MSA

CHIN-TYPE GAS MASKS

(see Data Sheet 05-00-01)

The Chin-Type Gas Mask provides face and respiratory protection against particulate matter, vapors, and gases by means of a lightweight, replaceable canister. The small, oval-shaped aluminum canister and facepiece are designed to permit downward head movement. This comfortable, lightweight model is often chosen as an alternative to the heavier models.

The MSA Chin-Type Gas Mask is designed for respiratory protection against a specific gas or group of gases as indicated by canister identification. The gas mask assembly has the following Maximum Use Conditions: Entry—100x the Permissible Exposure Level—do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. Escape—contaminant concentrations up to the maximum use concentration of the gas mask (generally, 5,000 ppm (0.5%) by volume; see canister selection chart for details), providing there is adequate oxygen (19.5 percent by volume) to support life. At these upper-use conditions, the service time may be extremely short (as low as 12 minutes). The user must, therefore, rely heavily on sense of smell and taste, or the presence of eye irritation to warn him/her of the end of the useful life of the canister.

A belt-mounted version of the Chin-Type Gas Mask is also available. This version allows the wearer to attach the canister to a belt clip. A corrugated breathing tube connects the canister to the facepiece.
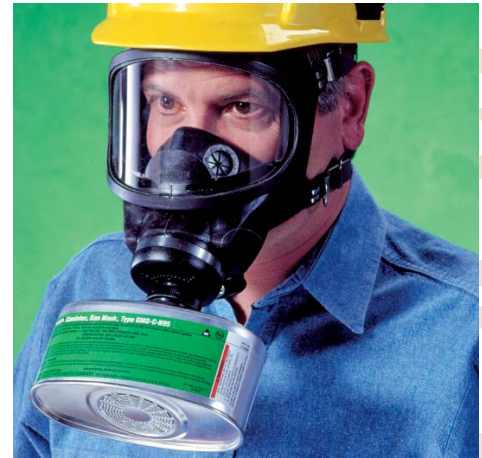
Description	Part No.	Government Net Price
Chin-Type Gas Mask Assembly for Organic Vapor, includes medium black Hycar Ultravue Facepiece,GMA-N95 Canister (P/N 815994), in carton	817058	$157.82
Same as above, in carrying case	817057	$193.84
Chin-Type Gas Mask Assembly for Organic Vapor, includes medium black Hycar Ultravue Facepiece,GMR-I-P100 Canister (P/N 815998), in carton	817070	$157.82
Same as above, in carrying case	817069	$193.84
Chin-Type Gas Mask Assembly for Organic Vapor/Acid Gas, includes medium black Hycar Ultravue Facepiece,GMC-N95 Canister (P/N 815996), in carton	817060	$157.82
Same as above, in carrying case	817059	$193.84
Chin-Type Gas Mask Assembly for Ammonia, includes medium black Hycar Ultravue Facepiece,GMD-N95 Canister (P/N 815993), in carton	817064	$157.82
Same as above, in carrying case	817063	$193.84
Chin-Type Gas Mask Assembly for Chlorine, includes medium black Hycar Ultravue Facepiece,GML-C-N95 Canister (P/N 815995), in carton	817066	$157.82
Same as above, in carrying case	817065	$193.84
Chin-Type Gas Mask Assembly for Acid Gas/Formaldehyde/Phosphine, includes medium black Hycar Ultravue Facepiece,GMF-C-N95 Canister (P/N 816051), in carton	817062	$132.45
Same as above, in carrying case	817061	$197.77

Replacement Canisters for Chin-Type Gas Masks

Description	Part No.	Government Net Price
GMA-C-N95, OV	815994	$28.06
GMC-C-N95, OV/AG	815996	$28.06
GMF-C-N95, OV/AG/FM	816051	$44.27
GMD-C-N95, AM	815993	$28.06
GML-C-N95, CL_2	815995	$28.06
GMDL-C-N95, OV/CL_2/AM	815999	$32.42
GMR-I-P100, OV/I2	815998	$38.83
GMHF-C, HF	816000	$40.63

Accessories for Chin-Type Gas Masks

Description	Part No.	Government Net Price
Carrying Case for Chin-Type Gas Mask	460322	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMA-C-N95 (OV)	816225	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMD-C-N95 (AM)	816226	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GML-C-N95 (CL_2)	816227	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMC-C-N95 (OV/AG)	816228	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMHF-C-P100 (HF)	816229	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMF-C-N95 (OV/AG/FM)	816373	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMDL-C-N95 (OV/CL_2/AM)	816374	$39.29
Carrying Case for Chin-Type Gas Mask Canister - GMR-I-P100 (OV/I_2)	816375	$39.29
Canister Carrier Harness	84937	$47.64
Breathing Tube, 10-in, universal facepiece	88306	$30.32
Riot Control Inlet Coupling	488114	$1.96

Firefighting and Rescue Equipment from MSA

SUPER-SIZE, INDUSTRIAL-SIZE, & TYPE N GAS MASKS

(see Data Sheet 05-00-01)

The MSA **Super-Size and Industrial-Size Gas Masks** are designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. The gas mask assembly has the following Maximum Use Condition: Entry—100x the Permissible Exposure Level—do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. Escape—contaminant concentrations up to the maximum use concentration of the gas mask (generally, 20,000 ppm (2%) by volume; see canister selection chart for details), providing there is adequate oxygen (19.5 percent by volume) to support life. At these upper use conditions, the service time may be extremely short (as low as 12 minutes). The user must, therefore, rely heavily on sense of smell and taste, or the presence of eye irritation to warn him/her of the end of the useful life of the canister.

As indicated by its name, the Super-Size Gas Mask has an extra-large canister, which will last approximately twice as long as the equivalent Industrial-Size Canister, because of a larger volume of chemical fill.

The MSA **Type N Gas Mask** is approved for respiratory protection for acid gases, organic vapors, carbon monoxide, and ammonia. The MSA Type N Gas Mask has the following Maximum Use Conditions: Entry—100x the Permissible

Exposure Level—do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. Escape—contaminant concentrations up to 20,000 ppm (2%) acid gases, carbon monoxide and organic vapors by volume even when the 20,000 ppm (2%) or 30,000 (3%) is above the IDLH concentration, providing there is adequate oxygen to support life. At these upper limits, the service time may be extremely short (as low as 6 minutes).

The user must, therefore, rely heavily on sense of smell and taste, or the presence of eye irritation to warn of the approach of the end of the useful life of the canister. Since carbon monoxide cannot be detected by odor or taste, the window indicator indicates the end of the useful life of the canister.

The Type N Gas Mask has a Window-Cator® Canister, which contains a moisture indicator. This small, round window in the front of the canister has two half-circles—one shows a light blue reference color; the other, a darker blue indicating color. As the sorbent is penetrated during use and absorbs moisture, the indicator color gradually grows lighter—closer to the reference color. When the colors match, the canister is losing its effectiveness against carbon monoxide and should be replaced.

Super-Size Gas Mask

Type N Gas Mask

Description and Part No.	Part No.	Government Net Price
Super-Size Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against phosphine, hydrogen sulfide, organic vapors, chlorine; with 2 GMHS-SSW-N-95 canisters (P/N 816009)	817077	$449.24
Super-Size Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against ethylene oxide; with 2 GMEO-SSW-N-95 canisters (P/N 816010)	817078	$527.83
Industrial-Size Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against organic vapors, with GMA-N-95 canister (P/N 816001); in carrying case	817071	$366.73
Industrial-Size Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against ammonia, with GMD-N-95 canister (P/N 816002); in carrying case	817072	$366.73
Industrial-Size Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against chorine, with GML-N-95 canister (P/N 816003); in carrying case	817073	$366.73
Type N Gas Mask Assembly, includes medium black Hycar Ultravue Facepiece, breathing tube assembly, & harness assembly; front-mounted; for protection against acid gases, organic vapors, carbon monoxide, ammonia, hydrogen fluoride gas with 2 Window-Cator canisters (P/N 816012); in carrying case	817080	$502.94

Replacement Canisters for Super-Size, Industrial-Size and Type N Gas Masks

Description	Part No.	Government Net Price
Industrial-Size - GMA-N95 Canister, OV	816001	$49.38
Industrial-Size - GMD-N95 Canister, AM	816002	$49.38
Industrial-Size - GML-N95 Canister, CL	816003	$49.38
Super-Size - GMHS-SSW-N95 Canister, OV/PH/CD/CL/HS	816009	$77.60
Super-Size - GMEO-SSW-N95 Canister, EO	816010	$93.02
Window-Cator Canister for Type N Gas Mask HW-P100 Canister, AG/OV/CO/AM/HF	816012	$100.99

Carrying Cases for Super-Size, Industrial-Size and Type N Gas Mask Canisters

Description	Part No.	Government Net Price
Carrying Case for GMD-N95 (AM)	816216	$78.26
Carrying Case for GMHS-SSW-N95 (OV/PH/CD/CL/HS)	816221	$78.26
Carrying Case for GMEO-SSW-N95 (EO)	816224	$78.26
Carrying Case for N-P100 (HW)	816223	$78.26

MSA

Firefighting and Rescue Equipment from MSA

PREMAIRE® SUPPLIED-AIR RESPIRATOR SYSTEM

(see Data Sheet 01-00-04)

The PremAire Supplied-Air Respirator System is one of the most advanced air-line respirators available. Designed to provide the utmost in versatility, the modular system allows users to "create" different respirator configurations from one unit. As a result, workers can use the PremAire System to match specific respiratory protection needs to the task at hand.

A lightweight mask-mounted regulator provides high air flow and responds quickly to changing breathing requirements.

The PremAire Respirator is a full-face, pressure-demand, Type-C supplied-air respirator with a patented waist-mounted manifold, which can be upgraded with any of the four following options:

1. an Escape Cylinder that permits emergency escape from Immediately Dangerous to Life and Health (IDLH) atmospheres.
2. a Dual-Supply option that lets workers connect from one pressurized continuous air source to another without losing continuity of air flow.
3. a Duo-Twin option that converts the respirator into a combination supplied-air/air-purifying device. This allows workers in non-IDLH atmospheres to move freely from station to station without being tethered to an air-supply hose.
4. a Vortex Tube option that delivers whole-body temperature control for added worker comfort.

In addition to the flexibility offered by the manifold, the PremAire Supplied Air Respirator System is available with the FireHawk™ Mask-Mounted regulator (MMR). This revolutionary 2nd-stage regulator, offered in push-to-connect (PTC) and slide-to-connect (STC) versions, combines user-friendly connections and unbeatable care and maintenance. The FireHawk MMR is a solid cover regulator for use with the Ultra Elite facepiece, considered best-in-class with over 94% field of vision with the MMR engaged.

Fully Configured PremAire Manifold

NOTE: The PremAire Respirator System is Assemble To Order (ATO). See ATO chart on p. 66.

Traditional MSA Part Numbers

For customers who require faster delivery, the most popular PremAire system combinations can still be ordered with a traditional MSA part number. These units are always stocked in our warehouse and are ready to ship upon receipt of order.

Description	Part No.	Gov't Net Price
PremAire Apparatus, FireHawk STC MMR, 5 min	10045160	$1046.94
PremAire Apparatus, FireHawk STC MMR, 10 min	10045161	$1034.24
PremAire Apparatus, FireHawk PTC MMR, 5 min	10045162	$1046.94
PremAire Apparatus, FireHawk PTC MMR, 10 min	10045163	$1034.24
PremAire Apparatus, FireHawk STC MMR, 5 min	10045164	$1137.66
PremAire Apparatus, FireHawk STC MMR, 10 min	10045165	$1124.95
PremAire Apparatus, FireHawk PTC MMR, 5 min	10045166	$1137.66
PremAire Apparatus, FireHawk PTC MMR, 10 min	10045167	$1124.95
Complete Assembly, Quarter-Turn MMR, less case	496823	$561.23
Complete Assembly, Quarter-Turn MMR, w/5-min composite cyl, rt-hip model, w/case	496896	$1132.08
Complete Assembly, Quarter-Turn MMR, w/10-min composite cyl, rt-hip model, w/case	497291	$1170.27

PremAire System User's Guide

Description	Part No.	Gov't Net Price
PremAire System User's Guide, complete with all components listed below	802996	$63.37
Instruction Manual for PremAire Supplied-Air Respirator	496958	$18.89
Instruction Manual for Escape Cylinder Option	800808	$2.61
Instruction Manual for Duo-Twin Option	800809	$4.24
Instruction Manual for Dual-Supply Option	497230	$7.79
Instruction Manual for Vortex Tube Option	497231	$2.88
Illustrated Parts List	800000	$3.65
Quick-reference Chart	802999	$6.47
User's Guide binder	802997	$11.07
Replacement tab pages for binder	802998	$6.55

PREMAIRE® CADET SUPPLIED-AIR RESPIRATOR

(see Data Sheet 01-01-04)

The PremAire Cadet Respirator is a pressure-demand, Type-C, supplied-air respirator with a mask-mounted regulator that responds quickly to wearer's changing breathing requirements. Available in two models, the respirator can serve as a basic supplied-air device or, with the Duo-Twin option, function as a combination air-line/air-purifying respirator. It can easily be upgraded to the versatile, state-of-the-art PremAire System. Designed for a variety of applications, PremAire Cadet Respirators can be used in non-IDLH (Immediately Dangerous to Life or Health) environments only. Operating inlet pressure is 60-100 psig. NIOSH/MSHA approved.

Complete Assemblies with Ultra Elite facepiece (medium Hycar), rubber head harness and nylon belt assembly

Hose	Fittings	Push-To-Connect Firehawk MMR				Slide-To-Connect Firehawk MMR			
		With Case	Gov't Net Price	Less Case	Gov't Net Price	With Case	Gov't Net Price	Less Case	Gov't Net Price
30" IP*	None	10054782	$481.33	10054793	$412.57	10054786	$491.16	10054794	$399.47
30" IP*	Snap-Tite AL	10054785	$504.25	10054790	$389.65	10054788	$517.35	10054796	$425.67
42" IP*	None	10054783	$481.33	10054791	$389.65	10054787	$419.16	10054795	$399.47
42" IP*	Snap-Tite AL	10054784	$504.25	10054792	$412.57	10054789	$517.35	10054797	$425.67

Upgrade for Premaire Cadet System

To upgrade to the advanced PremAire System, simply install the PremAire System manifold assembly on the existing PremAire Cadet Respirator.

Description	Part No.	Gov't Net Price
PremAire Manifold Assembly (includes O-ring, Snap-Tite quick-disconnect socket, & belt bracket)	496697	$110.92

Complete Assemblies with 1/4-turn regulator and medium Hycar facepieces

Facepiece	W/Case	Gov't Net Price	Less Case	Gov't Net Price
Ultra Elite	811015	$553.11	810951	$499.43
Ultravue	496858	$467.99	496780	$418.77
Duo-Twin	496854	$532.69	496784	$463.08

*IP = intermediate pressure

Note: See page 9 to order filters/cartridges for use with the PremAire and PremAire Cadet Duo-Twin Option. See page 31 to order quick-disconnects for use with the PremAire and PremAire Cadet Systems.

THE ASSEMBLE-TO-ORDER SYSTEM FOR THE PREMAIRE SUPPLIED-AIR SYSTEM

MSA's Assemble-To-Order System (ATO) makes ordering the right respirator easier and faster than ever. Instead of choosing from a handful of complete assemblies, users can order a custom-made unit with every option exactly as desired.

The ATO System works by allowing users to create their own part number. Each digit of a part number will represent a specific component, so that the entire part number represents a finished apparatus built exactly to the desired specifications. Because every PremAire Respirator is made to order, units can be assembled and shipped within 3 to 5 days of receipt of order. That's every respirator, no matter which components have been chosen!

To order using the ATO System on this page, select the letter or number that corresponds to the choice of components and fill in the appropriate box. A number or letter from each category must be selected.

Prices are 39.55% discount off 2005 Price List.

Type
Code	Option	Price
PS	PremAire System	239.38

Belt Assembly
Code	Option	Price
1	Nylon	85.84
2	Urethane	68.31
3	Nomex	120.30

Escape Cylinders
Code	Option	Price
0	None	0.00
1	5-Min Right Hip Carbon Fiber	299.23
2	5-Min Left Hip Carbon Fiber	299.23
3	5-Min Right Hip Aluminum	267.19
4	5-Min Left Hip Aluminum	267.19
5	10-Min Right Hip Carbon Fiber	340.94
6	10-Min Left Hip Carbon Fiber	340.94
7	10-Min Right Hip Aluminum	226.08
8	10-Min Left Hip Aluminum	226.08

Dual-Supply
Code	Option	Price
0	None	0.00
1	8" Hose less QD	39.90
2	15" Hose less QD	39.90

MMR Regulator‡
Code	Option	Price
E	Firehawk STC 30" Solid Cover	249.05
F	Firehawk STC 42" Solid Cover	265.58
G	Firehawk PTC 30" Solid Cover	259.94
H	Firehawk PTC 42" Solid Cover	265.98
Z	1/4-Turn, 24" for Duo Twin Facepiece	259.94

Facepiece Type
Code	Option	Price
0	None	0.00
1	Non-NFPA	0.00
2	NFPA	48.36

Facepiece
Code	Option	Price
0	None	0.00
1	UE Hycar	108.81
2	UE Silicone	121.50
A	Duo Twin, Hycar	143.87
B	Duo Twin, Silicone	153.54

Facepiece Size
Code	Option
0	None
S	Small
M	Medium
L	Large

Nosecup
Code	Option	Price
0	None (only if you have no FCPC)	0.00
1	UE-Medium	24.18
2	UE-Large	24.18
A	UV-Small	24.18
B	UV-Medium	24.18
C	UV-Large	24.18

Head Harness
Code	Option	Price
0	None	0.00
1	Rubber	13.90
2	EZ-DON Small	18.74
3	EZ-Don Med	18.74
4	EZ-DON Large	18.74
5	SpeeD-On	38.69

Quick-Disconnect
Code	Option	Price
A	None*	0.00
B	Snap-Tite Alum	22.97
C	Snap-Tite SST	68.31
D	Snap-Tite Brass	31.43
E	Hansen SST	62.26
F	Hansen Brass	20.55
G	Foster Steel	34.46
H	Foster SST	31.43
I	Foster Brass	30.23
J	Cejn Chrome	56.82
K	Duff-Norton Brass	24.78

Note: If you have selected the Dual-Supply option, you will need two of the same Quick-Disconnects. Just put one letter in the part number to indicate your selection, but when you calculate the price of your system, make sure you include a price for each Quick-Disconnect.

Case
Code	Option	Price
0	None	0.00
1	Hard Case	84.03
2	Soft Case	84.03

Part Number: C — __ — PS

Total PremAire System List Price = $ _____

Quantity _____

All Pricing in U.S. Dollars

* Unit requires use of a Quick-Disconnect to maintain approval.

*Note: This matrix must only be used for ordering complete PremAire Systems. This matrix cannot be used for ordering individual components (i.e., facepieces, escape cylinders, etc.). Please order components separately using their standard MSA part number.

‡For applications strictly limited to non-IDLH atmospheres, NIOSH requires that the respirator system be configured without a bypass on the mask-mounted regulator (MMR). Please contact MSA Customer Service for more information.

MSA

Firefighting and Rescue Equipment from MSA

PremAire System Upgrade Kits

Description	Part No.	Government Net Price
Escape Cylinder Kits		
Kit with Fully-wound Composite Five-minute Cylinder, for Right Hip	800696	$557.18
Kit with Fully-wound Composite Five-minute Cylinder, for Left Hip	800694	$557.04
Kit with Fully-wound Composite Ten-minute Cylinder, for Right Hip	800697	$604.33
Kit with Fully-wound Composite Ten-minute Cylinder, for Left Hip	800695	$604.20
Vortex Tube Kits		
Kit with 6" Hose, Cool-Only Version	800706	$514.13
Kit with 6" Hose, Warm/Cool Version	800710	$617.54
Kit with 12" Hose, Cool-Only Version	801012	$526.30
Kit with 12" Hose, Warm/Cool Version	801014	$630.30
Duo-Twin* Kits		
Kit with Hycar Rubber Facepiece	800978	$175.77
Dual-Supply Kit		
Includes 8-inch extension hose, less quick-disconnect assembly	800044	$59.10
PremAire Air-Line Filter Kit		
Filter Kit	811940	$13.76

Escape Cylinder Kit (for right hip)

Vortex Tube Kit

Duo-Twin Kit

Dual-Supply Kit

Air-Line Filter Kit

* Duo-Twin Kits are stocked with medium-size facepieces. Small- and large-size facepieces are available as special-order items.

Replacement PremAire Respirator Facepieces

Ultra Elite® Facepieces with FireHawk PTC MMR
With nosecup. Non-NFPA.

Description	Head Harness	Small	Medium	Large	Government Net Price
Hycar Rubber, Black	rubber	10037650	10037648	10037652	$200.39
Hycar Rubber, Black	E-Z-Don	10037651	10037649	10037653	$217.09
Hycar Rubber, Black	SpeeD-ON	10043419	10043415	10043433	$326.45
Silicone, Black	SpeeD-ON	10043430	10043416	10043434	$233.13

Ultra Elite® Facepieces with FireHawk STC MMR
With nosecup. Non-NFPA.

Description	Head Harness	Small	Medium	Large	Government Net Price
Hycar Rubber, Black	rubber	—	10037648	—	$200.40
Silicone, Black	rubber	—	10043416	—	$209.11

Ultra Elite® Facepieces
With EZ-Don Harness, less nosecup.

Description	Small	Medium	Large	Government Net Price
Hycar Rubber, Black	817307	817304	815662	$219.72
Silicone, Black	817309	817305	817311	$253.52

Ultravue® Facepieces
With rubber harness, less nosecup.

Description	Small	Medium	Large	Government Net Price
Hycar Rubber, Black	817313	817314	817315	$160.30
Silicone, Black	817316	817317	817318	$171.72

PremAire System Cases

For easy storage and transport, you can choose from either a hard- or soft-sided PremAire System carrying case. MSA's hard-sided case offers rugged buckles and interior foam padding for extra protection. The soft-sided, yet durable duffle bag-style case features reinforced strapping and a heavy-duty zipper. Plus, it's large enough to hold the PremAire System, respirator accessories and other work gear.

Description	Part No.	Government Net Price
Hard-Side Case	813805	$93.78
Soft-Side Case	817092	$95.86

FireHawk MMR Regulators for PremAire System

Description	Part No.	Government Net Price
Push-To-Connect, 30"	10033170	$281.56
Push-To-Connect, 42"	10033171	$288.18
Push-To-Connect, 30"	10033173	$286.39
Push-To-Connect, 42"	10033172	$288.18
30" Quick-Disconnect	10033119	$286.39
42" Quick-Disconnect	10033118	$288.18

Firefighting and Rescue Equipment from MSA

HIP-AIR™ BREATHING APPARATUS AND COMBINATION PRESSURE-DEMAND BREATHING APPARATUS

Hip-Air Breathing Apparatus

The Hip-Air Breathing Apparatus provides respiratory protection for personnel who must work in atmospheres that are immediately dangerous to life or health (IDLH), such as in oil drilling and the manufacturing and handling of certain chemicals.

The apparatus serves as a long-duration work device and an escape device as well. It is approved for respiratory protection for entry into, for extended periods of work in, and for escape from IDLH atmospheres. If used for entry into IDLH atmospheres, the air-line must be connected before entry. The self-contained air supply is approved for escape only. NIOSH/MSHA approved. For more complete information, see Data Sheet 01-01-12.

Combination Pressure-Demand Breathing Apparatus

The MSA Combination Pressure-Demand Breathing Apparatus provides respiratory protection for personnel who must work in atmospheres that are immediately dangerous to life or health (IDLH), such as in oil drilling and the manufacturing and handling of certain chemicals. When connected to a respirable air source, the device permits the wearer to work and move about freely, within the limits of the approved hose length.

The MSA Combination Pressure-Demand Breathing Apparatus features a lightweight shoulder harness, which is foam-padded for extra comfort and a waist belt with a seat-belt-type buckle. The handwheel of the cylinder valve is easy to grasp and operate. The breathing apparatus comes equipped with a single-lens Ultravue or Ultra Elite Facepiece with speaking diaphragm and a low-resistance, spring-loaded pressure-demand exhalation valve. MSA Air-Supply Hose must be used to maintain NIOSH/MSHA approval.

Hip-Air Breathing Apparatus

Combination Pressure-Demand Breathing Apparatus

Hip-AirBreathing Apparatus Complete Assemblies

| Socket Assembly | Carrying Case | w/ Aluminum Cylinders | | | | w/ Composite Cylinders | | | |
		Med. Black Ultra Elite Facepiece*	Government Net Price	Med. Black Ultravue Facepiece*	Government Net Price	Med. Black Ultra Elite Facepiece*	Government Net Price	Med. Black Ultravue Facepiece*	Government Net Price
Foster (brass)	yes	10001766	$986.50	10001758	$946.55	811832	$1,034.72	487166	$1,013.64
Foster (brass)	no	10001750	$924.70	10001696	$884.78	811695	$972.52	487150	$950.24
Foster (steel)	yes	10001767	$986.50	10001759	$946.55	811833	$1,034.72	487167	$1,013.64
Foster (steel)	no	10001751	$924.70	10001697	$884.78	811696	$972.52	487151	$950.24
Snap-Tite (aluminum)	yes	10001768	$986.50	10001760	$946.55	811835	$1,034.72	487169	$1,013.64
Snap-Tite (aluminum)	no	10001752	$924.70	10001698	$884.78	811698	$972.52	487153	$926.26
Snap-Tite (brass)	yes	10001769	$986.50	10001761	$946.55	—		487170	$1,013.64
Snap-Tite (brass)	no	10001753	$924.70	10001699	$884.78	811699	$972.52	487154	$950.24
Snap-Tite (stainless)	yes	10001770	$1,027.65	10001762	$987.70	811837	$1,076.09	487171	$1,055.82
Snap-Tite (stainless)	no	10001754	$986.50	10001700	$956.55	811750	$1,034.52	487155	$1,013.64
Hansen (brass)	yes	10001771	$986.50	10001763	$945.55	—		487172	$1,013.64
Hansen (brass)	no	10001755	$924.70	10001701	$884.78	—		487156	$950.24
Hansen (stainless steel)	yes	10001772	$1,027.65	10001764	$987.70	811839	$1,076.09	487173	$1,055.8
Hansen (stainless steel)	no	10001756	$986.50	10001702	$946.55	—		487157	$1,013.64
Less Fittings	yes	10001773	$951.24	10001765	$911.28	488387	$977.47	—	
Less Fittings	no	10001757	$889.54	10001703	$849.60	—		—	

Comb. Press. Demand Breathing Apparatus

| Socket Assembly | Carrying Case | w/ Aluminum Cyls. | | | |
		Med. Black Ultra Elite Facepiece*	Government Net Price	Med. Black Ultravue Facepiece*	Government Net Price
Foster (brass)	yes	10002129	$960.14	10002120	$920.26
Foster (brass)	no	10002101	$888.25	10002093	$812.06
Foster (steel)	yes	—		10002121	$857.17
Foster (steel)	no	—		10002092	$848.39
Snap-Tite (aluminum)	no	10002103	$913.90	10002094	$874.21
Snap-Tite (brass)	no	10002104	$914.06	10002095	$874.21
Snap-Tite (stainless steel)	no	10002105	$948.96	10002096	$909.07
Snap-Tite (stainless steel)	yes	10002133	$1,003.67	10002124	$963.77
Hansen (brass)	yes	10002134	$979.60	10002125	$939.75
Hansen (stainless steel)	yes	10002135	$1,003.67	10002126	$963.77
Less Fittings	yes	10002136	$955.07	10002127	$915.21
Less Fittings	no	10002108	$889.36	10002099	$849.68

Replacement Air Cylinders for Hip-Air Breathing Apparatus

Description	Part No.	Gov't Net Price
Aluminum Cylinder	818159	$280.73

* Ultra Elite Facepiece also available in small and large sizes. Ultravue Facepiece also available in small and large sizes, and in green Hycar rubber.

PRESSURE-DEMAND AIR-LINE RESPIRATORS

(See Data Sheet 01-00-05.)

These respirators are designed to maintain a slight positive pressure of air inside the facepiece, whether the wearer is inhaling or exhaling. This helps prevent contaminants from seeping in around the facepiece, even if there should be small breaks in the face-to-facepiece seal.

MSA Pressure-Demand Air-Line Respirators are designed to be used in toxic atmospheres not immediately dangerous to life or health as defined in 42 CFR, Part 84. The respirator is available with a belt-mounted pressure-demand regulator with quick-disconnect assembly, web belt, and either a full facepiece or half-mask facepiece connected by a flexible breathing tube. Applications include welding, painting, and handling certain hazardous materials. NIOSH/ MSHA certified for operation at 65-85 psig with 8-300 feet of MSA hose.

Pressure-Demand Air-Line Respirator with Ultra Elite Facepiece

Pressure-Demand Air-Line Respirator with Comfo Facepiece

Pressure-Demand Air-Line Respirator with Welder's Comfo Facepiece

Pressure-Demand Air-Line Respirator with Ultravue Facepiece

Complete Assemblies
Include facepiece, breathing tube, regulator with quick-disconnect, and web belt.

Quick-Disconnect	Ultra Elite Facepiece	Government Net Price	Ultravue Facepiece	Government Net Price	Comfo Facepiece	Government Net Price	Welder's Comfo Facepiece	Government Net Price
Snap-Tite aluminum	806764	$497.79	474020	$372.83	473464	$376.06	473457	$447.64
Snap-Tite brass	—		475220	$475.16	475212	$376.06	478724	$447.64
Snap-Tite stainless steel	806769	$557.65	475221	$534.76	475213	$435.75	478725	$506.44
Foster steel	806766	$500.03	475218	$475.16	475210	$376.06	478722	$447.64
Foster brass	806767	$500.03	475219	$475.16	475211	$376.06	478723	$447.64
Hansen brass	806771	$500.03	475223	$475.16	475215	$376.06	478727	$447.64
Hansen stainless steel	806770	$557.65	475222	$534.76	475216	$376.06	478728	$447.64

CONSTANT FLOW AIR-LINE RESPIRATOR

(See Data Sheet 01-00-05.)

Constant Flow Air-Line Respirators are designed to maintain a slight positive pressure of air inside the facepiece, whether the wearer is inhaling or exhaling. This helps prevent contaminants from seeping in around the facepiece, even if there should be small breaks in the face-to-facepiece seal. The complete respirator assembly is available with Ultravue or Ultra Elite Full Facepiece, Comfo Half-Mask Facepiece, or Comfo Welder's Facepiece; breathing tube; web support belt; and air-flow control valve with quick-disconnect assembly. The Constant Flow Respirator is used in non-IDLH environments. NIOSH/MSHA approved.

From left to right: Comfo Facepiece, Welder's Comfo Facepiece, Ultravue Facepiece, Ultra Elite Facepiece

Complete Assemblies
Choose facepiece, control valve, and quick-disconnect assembly. Comes with breathing tube and a web support belt.

Quick-Disconnect	Ultra Elite Facepiece	Government Net Price	Ultravue Facepiece	Government Net Price	Comfo Facepiece	Government Net Price	Welder's Comfo Facepiece	Government Net Price
High-Pressure Control Valve (35-40 psig inlet pressure for 8-300 ft of hose)								
Snap-Tite aluminum	810829	$345.62	460863	$304.84	—		460862	$253.80
Foster steel	810831	$275.34	—		—		480600	$237.23
CEJN Locking chrome-plated brass	810832	$351.21	480629	$267.35	—		—	
Low-Pressure Control Valve (10-15 psig inlet pressure for 8-50 ft of hose)								
Snap-Tite aluminum	806775	$337.25	463300	$298.12	463302	$201.63	463281	$258.67
Foster steel	806776	$328.76	480472	$289.59	—		—	
Hansen brass	806779	$342.00	—		—		—	
CEJN Locking chrome-plated brass	806777	$412.50	480637	$316.10	—		—	

Firefighting and Rescue Equipment from MSA

DUO-TWIN™ AND DUO-FLO™ RESPIRATORS

(See Data Sheet 10-01-14)

MSA offers Duo-Twin and Duo Flo Respirators in both Constant-Flow and Pressure-Demand versions. Constant-Flow respirators are normally used where an ample air supply is available, such as that provided by an air compressor. Pressure-Demand respirators are generally used where only compressed-air cylinders are available.

Duo-Twin Respirators feature air-purifying cartridges, which also protect against a variety of contaminants. If the air supply should ever fail on the Constant-Flow unit, the user is automatically protected by the air-purifying cartridge. Duo-Flo Respirators feature air-purifying canisters to protect against a wide variety of contaminants.

Duo-Twin and Duo-Flo Respirators are popular in the pharmaceutical, chemical, petrochemical, and nuclear industries. The unique D/PD switchable exhalation valve, standard on Pressure-Demand models, also makes these units especially well-suited for abatement work. This MSA respirator should not be used in atmospheres containing less than 19.5% oxygen.

NIOSH/MSHA approvals and certifications.

Constant Flow Duo-Twin Respirator

Constant Flow Duo-Flo Respirator

Pressure-Demand Duo-Flo Respirator

Complete Assemblies*

Description	Part No.	Government Net Price
Constant Flow Duo-Twin Respirator	484087	$292.51
Pressure-Demand Duo-Twin Respirator	484441	$507.10
Constant Flow Duo-Flo Respirator with full-face Ultravue Facepiece	466095	$210.39
Constant Flow Duo-Flo Respirator with half-mask Comfo Facepiece	466097	$234.86
Pressure-Demand Duo-Flo Respirator	484378	$344.96

* Cartridges must be ordered separately. See page 11 for ordering information.

Switchable D/PD Exhalation Valve

Allows the Pressure Demand Duo-Flo and Duo-Twin Respirators to be approved for continuous use while in either the air-line or air-purifying mode of operation.

Description	Part No.	Government Net Price
Switchable Exhalation Valve for PD Duo-Flo or Duo-Twin Respirator	486282	$55.28

Regulator Assemblies

The Pressure-Demand Regulator maintains air flow at a minimum of 1.0 inches of water positive pressure to the facepiece. Flow stops during exhalation when the Pressure-Demand valve opens at approximately 1.5 inches of water positive pressure. The regulator has an integral belt clip, which can be easily adjusted along the support belt for comfortable positioning.

Description	Part No.	Government Net Price
Snap-Tite (AL) assembly	481934	$332.69
Snap-Tite (Brass) assembly	481937	$336.80
Snap-Tite (SST) assembly	481938	$351.62
Foster (Steel) assembly	481935	$348.85
Foster (Brass) assembly	481936	$332.69
Hansen (Brass) assembly	481940	$332.69
Hansen (SST) assembly	481939	$364.89
Duff-Norton assembly	481941	$352.05
Cejn assembly, locking	481943	$380.13

Complete Air-Line Adapter Assemblies for Duo-Twin Respirators

Designed to deliver the required air flow to the facepiece at an inlet pressure range of 35-40 psig for hose lengths of 8 to 300 feet. The adapters include an integral belt clip and male and female quick-disconnect assemblies.

Description	Part No.	Government Net Price
Snap-Tite (AL) assembly	483526	$120.80
Snap-Tite (Brass) assembly	483530	$104.10
Snap-Tite (SST) assembly	483531	$164.87
Foster (Steel) assembly	483528	$120.91
Hansen (Brass) assembly	483529	$116.68
Hansen (SST) assembly	483533	$157.39

Complete Air-Line Adapter Assemblies for Duo-Flo Respirators

Designed to deliver the required air flow to the facepiece at an inlet pressure range of 35-40 psig for hose lengths of 8 to 300 feet. The adapters include an integral belt clip and male and female quick-disconnect assemblies.

Description	Part No.	Government Net Price
Snap-Tite (AL) assembly	466077	$178.91
Snap-Tite (Brass) assembly	476919	$178.91
Snap-Tite (SST) assembly	476920	$231.47
Foster (Steel) assembly	469869	$180.84
Foster (Brass) assembly	476918	$177.71
Hansen (Brass) assembly	476922	$253.93
Cejn assembly, locking	479114	$180.78

MSA

ABRASI-BLAST™ SUPPLIED-AIR RESPIRATOR

(See Data Sheet 01-02-02)

The Abrasi-Blast Respirator provides respiratory and upper body protection for workers in shipbuilding, the construction industry, utilities, and other applications where blasting with abrasives is performed.

A complete Abrasi-Blast Respirator is made up of a hood, facepiece with lens housing, breathing tube, cover lens cartridge assembly, flow-control device, approved air-supply hose, and support belt.

During blasting operations, the lens of the Abrasi-Blast Respirator is protected by 2 to 4 flat glass cover lenses mounted in a special foam material. Each cover lens is removed by integral pull tabs when it becomes so abraded that vision is reduced. There is no need to stop to change lenses, as is necessary with most conventional blasting hoods. Approved by NIOSH and MSHA.

Complete Assemblies

Includes one lens cartridge consisting of four 0.06-inch untempered glass cover lenses, flow control device, Snap-Tite aluminum quick-disconnect fitting, adjustable valve-connector body, or pressure-demand regulator (with socket assembly), facepiece (medium) with dual exhalation valves and lens housing, breathing tube, web belt, and air-hose connector.

Waist-length Hood with Collar

Inlet Pressure Range	Part No.	Government Net Price
10-15 psi	468716	$526.15
35-40 psi	468718	$505.79
Pressure-Demand	485751	$595.61

Shoulder-length Hood with Collar

Inlet Pressure Range	Part No.	Government Net Price
135-40 psi	468722	$468.01
Pressure-Demand	485755	$552.14

Lens Cartridges

Description	Recommended use	Part No.	Government Net Price
0.06-in thick, untempered lens (4 lenses in each cartridge)	light blasting	473238	$138.93
0.06-in thick, tempered lens (4 lenses in each cartridge)	light blasting plus added protection against glass breakage	473240	$184.83
0.09-in thick, untempered lens (3 lenses in each cartridge)	medium blasting	473798	$150.20
0.09-in thick, tempered lens (3 lenses in each cartridge)	medium blasting plus added protection against glass breakage	473800	$174.33
0.12-in thick, untempered lens (two layers laminated)	heavy blasting (2 lenses in each cartridge)	473802	$197.16
0.12-in thick, untempered lens (two layers laminated)	heavy blasting (3 lenses in each cartridge)	481742	$239.92

Replacement Hoods

Description	Part No.	Government Net Price
Abrasi-Blast waist-length hood	468724	$188.25
Abrasi-Blast shoulder-length hood	468725	$130.04

Firefighting and Rescue Equipment from MSA

VERSA-HOOD™ AIR-SUPPLIED HOOD

(See Data Sheet 01-02-01)

1. Versa-Hood Assembly and CompressAire™ Compressor
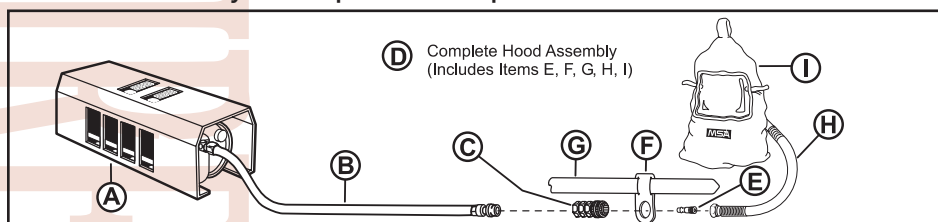
2. Versa-Hood Assembly and 3/8-inch Hose System w/Direct Connectors
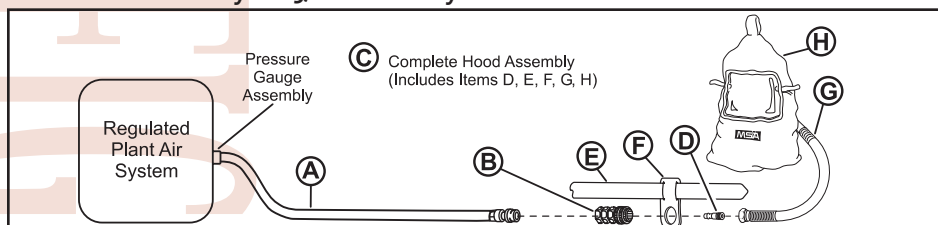
3. Versa-Hood Assembly and 3/8-inch Hose System with Adjustable Valve Connectors
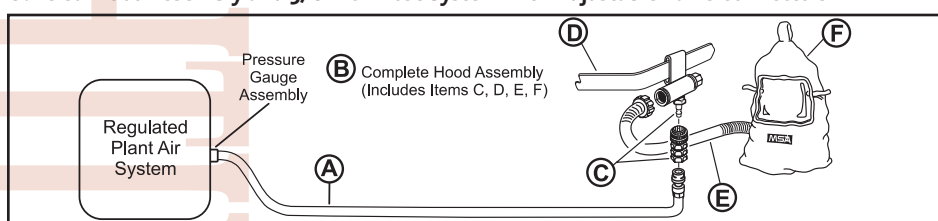
Note: Complete Versa-Hood Assembly with vortex available on this set-up.

The Versa-Hood Air-Supplied Hood is an inexpensive hood respirator which may be used anywhere a type-C air-supplied hood is required. This versatile hood is available in two lengths (shoulder- and waist-length) and two materials (Tyvek and Saranex). All Versa-Hood respirators can be used with either a plant air system or personal air compressor.

When head protection is needed, a special three-point Velcro system secures the hood to an MSA V-Gard Cap. The hood suspensions (basic or ratchet versions) are easily adjustable and stable, minimizing the need for a chin strap. The hood is designed to be disposable, thus eliminating the need for cleaning, and a twin-lens system extends the life of the hood. An air-distribution system keeps the lens fog-free. NIOSH/MSHA certified.

1. Versa-Hood Assembly and Personal Compressor

Description	Part No.	Gov't Net Price
Compressor (A)		
1/2-inch air-supply hose (B)		
8' neoprene	483808	$49.07
25' neoprene	483809	$81.61
50' neoprene	483810	$138.08
100' neoprene	483811	$179.63
Snap-Tite socket for V-in hose system (C) (female with union adapter)	484236	$28.05
Complete Hood Assembly with Tyvek Hood (D), with male Snap-Tite connector		
Shoulder length	484769	$68.93
Waist length	484770	$70.56
Replacement Parts for CompressAire Compressor		
Replacement Outlet Filter Kit	484923	$58.49
Replacement Inlet Filter	695929	$10.79
Hood Assembly Components		
Male Snap-Tite plug for 1/2-inch hose (E)	633539	$14.42
Hood hose (3/8-inch NPT) (H)	483606	$17.01
Shoulder-length Tyvek hood (I)	482612	$21.81
Waist-length Tyvek hood	482610	$27.03
Belt holder (F)	483623	$1.94
PVC support belt (G)	473902	$5.96

2. Versa-Hood Assembly and 3/8-inch Hose System w/Direct Connectors

Description	Part No.	Gov't Net Price
Air-Supply Hose–see page 26 (A)		
Socket assembly for 3/8-inch hose system (B)		
Snap-Tite	455019	$21.75
Foster	467044	$31.20
Complete Hood Assembly with Tyvek Hood (C), with Snap-Tite aluminum plug		
Shoulder length	484689	$63.56
Waist length	484693	$69.01
Complete Hood Assembly with Tyvek Hood (C), with Foster steel plug		
Shoulder length	484690	$63.56
Waist length	484694	$67.86
Hood Assembly Components		
Male plug, Snap-Tite (D)	66273	$5.95
Male plug, Foster	56549	$2.65
Hood hose (3/4-inch NPT) (G)	482702	$17.01
Shoulder-length Tyvek hood (H)	482612	$21.81
Waist-length Tyvek hood	482610	$27.03
Belt holder (F)	482618	$1.95
PVC support belt (E)	473902	$5.96

3. Versa-Hood Assembly and 3/8-inch Hose System with Adjustable Valve Connectors

Description	Part No.	Gov't Net Price
Air-Supply Hose–see page 26 (A)		
Complete Hood Assembly with Tyvek Hood (B), adj. valve connector with Snap-Tite QD*		
Shoulder length	482823	$164.67
Waist length	482827	$170.67
Complete Hood Assembly with Tyvek Hood (B), adj. valve connector with Foster QD		
Shoulder length	482824	$160.27
Waist length	482828	$164.33
Hood Assembly Components		
Adj. valve connector for 3/8-in hose system,		
Foster (C)	471814	$129.07
Snap-Tite	460814	$134.55
Hood hose w/coupling nut for adj. valve connector (E)	482703	$13.48
Tyvek hood (F)		
Shoulder-length	482612	$21.81
Waist-length	482610	$27.03
PVC support belt (D)	473902	$5.96
Vortex Tube Assemblies		
For use with plant air systems ONLY		
Warm/Cool vortex, less quick-disconnect	495701	$348.77
Cool only vortex, less quick-disconnect	494392	$246.63

* Quick-Disconnect

MSA

SYNERGY® BUBBLE HOOD RESPIRATOR

(See Data Sheet 01-04-01)

The Synergy Bubble Hood is a low-cost, lightweight Type C supplied-air respirator designed to provide respiratory protection in toxic atmospheres not immediately dangerous to life or health (non-IDLH). Designed for convenience and cost-efficiency, the Synergy Bubble Hood differs from many comparable devices in that it can be used with a common air-supply hose that is compatible with other MSA supplied-air respirators. Whether users require a pressure-demand respirator, a dual-purpose self-contained breathing apparatus (SCBA), a constant-flow air-line respirator, or the Synergy Bubble Hood Respirator, one air-supply hose is suitable for all applications.

Optional Communications Port

The communications port, positioned on the lower portion of the hood, allows integration with two-way radio headsets. The communications port consists of a PVC "sleeve" that allows connection of radio cables to the headset. Once a cable is installed, the port can be sealed from outside contaminants using tape.

Description	Part No.	Government Net Price
Complete Hood Assembly, standard size, yellow bib, Foster steel male fitting	805683	$45.92
Foster female socket assembly	467044	$31.20

PORTABLE AIR-SUPPLY SYSTEMS

(See Data Sheet 01-05-02)

The **PortAire System** holds two standard SCBA air cylinders to provide firefighters, industrial personnel, confined-space workers, and others with a portable, compressed-air source any time an air-line device is required. Designed for use with MSA pressure-demand supplied-air respirators, including dual-purpose self-contained breathing apparatus (SCBA), the PortAire System consists of a compact air-pressure regulating system housed in a lightweight, yet durable, anodized aluminum frame.

The **TransportAire System** is available in two versions, one for high-pressure cylinders and one for low-pressure cylinders. Both versions consist of an impact-resistant handle with urethane-coated nylon straps that fit around a standard MSA SCBA air cylinder (purchased separately), a regulator, and a regulator-to-hose adapter. An Audi-Larm device is provided standard on the high-pressure system and is available as anoption for the low-pressure system. Both systems are designed for use with MSA supplied-air respirators equipped with a dual-supply option. A major advantage of the dual-supply option is improved mobility; workers need not remain tethered to a single air-supply hose throughout a work period.

PortAire SystemFacepiece

TransportAire System—Low-Pressure Configuration

Description	Part No.	Government Net Price
PortAire Portable Air-Supply System		
PortAire Portable Air-Supply System with Audi-Larm low-pressure warning device, high-pressure regulator, and carrying frame with air-supply hose* retainer	807052	$1,395.13
Quick-Fill Kit	807053	$376.38
Wheeled Cart for PortAire Portable Air-Supply System	10017089	$113.73
TransportAire Portable Air-Supply System—Low-Pressure		
TransportAire Assembly complete with Cylinder Carrier, Regulator, and Regulator-to-hose Adapter	816693	$251.36
Optional Low-Pressure Audi-Larm Assembly	85078	$262.78
TransportAire Portable Air-Supply System—High-Pressure		
TransportAire Assembly complete with Cylinder Carrier, Regulator and Regulator-to-hose Adapter, and High-Pressure Audi-Larm	812217	$425.64
*Air-Supply Hose**		
8-ft Coiled Nylon Hose	491513	$50.75

* For complete listing of air-supply hose, see page 46, and for quick-disconnect fittings, see page 75.

Description	Part No.	Government Net Price
High-Pressure (4500 psig) Cylinders		
Stealth H-60, 60-min	807588	$1,017.99
Stealth H-45, 45-min	807570	$801.99
Stealth H-30, 30-min	807587	$616.68
Low-Pressure (2216 psig) Cylinders		
Stealth L-30, 30-min	807586	$626.05
Hoop-Wrapped, 30-min	469619	$428.33
3AL (Aluminum), 30-min	809872	$355.89
Low-Pressure (3000 psig) Cylinder		
Stealth L-30+, 30-min	816115	$707.49

TRANSAIRE™ 5, TRANSAIRE™ 10, AND CUSTOM AIR V® ESCAPE RESPIRATORS

Quick Escape from IDLH Atmospheres

When you need to bail out quickly, the TransAire 5 and TransAire 10 Escape Respirators deliver a consistent air supply at 40 lpm (liters per minute). This standard-flow rate makes for a smooth escape in normal aerobic escape applications. The TransAire 10 Escape Respirator is pressurized to 3000 psig, and the TransAire 5 Escape Respirator is pressurized to 2216 psig. The compact units employ aluminum cylinders that can withstand exposure to temperatures from 0° to 160°F. Despite their durability, the units are extremely lightweight.

The Custom Air V Escape Respirator is designed with a high flow rate and meets stringent air flow requirements for extremely aerobic escape applications. It provides a five-minute, constant air flow at 72 lpm and is available with either an aluminum or a composite cylinder.

Description	Part No.	Government Net Price
Complete Assemblies		
Assembly includes cylinder, carrier, hood tube, and hood assembly.		
TransAire 5 Escape Respirator	10008292	$306.51
TransAire 10 Escape Respirator	10008293	$357.33
Custom Air V Escape Respirator with composite cylinder	484353	$466.70
Custom Air V Escape Respirator with aluminum cylinder	802197	$364.49
TransAire Replacement Parts		
TransAire 5 Cylinder Valve Assembly	10008298	$181.01
TransAire 10 Cylinder Valve Assembly	10008299	$224.26
Regulator Alone	10008297	$76.08
Urethane Hood Assembly, Standard	484351	$27.56
Urethane Hood Assembly, Large	485046	$64.07
Teflon Hood Assembly, Standard	10008302	$41.64
Custom Air V Replacement Parts		
Aluminum Cylinder Valve Assembly	802191	$245.09
Carrier Assembly	484347	$48.41
Hood Tube	485654	$4.87
Urethane Hood	484350	$17.17
Teflon Hood	485045	$51.70

Accessories

Description	Part No.	Government Net Price
Carrying/Wall-mounting Case	485816	$39.95
Single-unit Wall-mounting Case	10012530	$26.44
Two-unit Wall-mounting Case	696193	$302.36
Optional Wide Shoulder Strap for Custom Air V Respirator	474929	$41.55

A POCKET GUIDE TO AIR-LINE SYSTEMS

This pocket-size booklet shows complete hook-ups of the various MSA air-line systems, both constant flow and pressure demand, from the air source to the respirator connection. Below each illustration, the individual parts of the system are identified by title and part number. The reader is then referred to other pages in the guide for more information about the specific MSA components. To order your copy, request Bulletin 0114-14.

QUICK-DISCONNECTS FOR AIR-LINE RESPIRATORS AND AIR-SUPPLIED HOODS

(See Bulletin 0114-14)

Quick-disconnect assemblies connect air-supply hoses to the manifold and to the air source. If you want to use a quick-disconnect to interconnect lengths of air supply hose, you must use a locking-type quick disconnect—specifically, the locking quick disconnects listed in the green box at the bottom of this page.

QUICK-DISCONNECTS AND ADAPTERS AL-Aluminum; S-Steel; SST-Stainless Steel; BR-Brass

QUICK-DISCONNECT TYPE	Interchangeability†	1 Female Socket ¼" NPT Part No.	Gov't List Price	2 Male Plug w/Female ¼" NPT Part No.	Gov't List Price	3 Union Adapter ¼" NPT x ¾" UNF Part No.	Gov't List Price	4 Male Plug w/Male ¼" NPT (used when connecting Inlet Pressure Gauge) Part No.	Gov't List Price	5* Female Socket Ass. (used to connect Air-Supply Hose to Male Plug on Respirator)+ Part No.	Gov't List Price
Snap-Tite (AL)	C	66272	$17.04	66274	$4.83	69542	$7.31	66273	$5.95	455019	$21.75
Snap-Tite (SST)	C	629673	$60.96	629672	$16.18	808358	$10.65	629671	$16.18	471778	$63.83
Snap-Tite (BR)	C	630305	$21.43	630307	$12.80	69542	$7.31	630306	$14.34	471777	$24.13
Duff-Norton (BR)	—	630308	$19.80	630310	$5.61	69542	$7.31	630309	$16.16	471780	$24.98
Hansen (SST)	A	628768	$53.08	628208	$17.66	808358	$10.65	473502	$19.45	471779	$57.61
Hansen (BR)	D	630311	$13.29	630313	$4.98	69542	$7.31	630312	$3.12	471501	$18.79
Foster (S)	B	628770	$17.52	55716	$3.74	69542	$7.31	56549	$2.65	467044	$31.20
Foster (SST)	B	636459	$75.20	636460	$16.63	808358	$10.65	636461	$9.20	801016	$85.36
Foster (BR)	A	629980	$20.61	629981	$9.35	69542	$7.31	473501	$9.62	470194	$25.26
Schrader (S)	B	See Foster(S)		See Foster(S)		See Foster(S)		See Foster(S)		See Foster(S)	
CEJN Locking (Chrome-Plated—BR)	E	631870	$38.87	479026	$7.49	69542	$7.31	479020	$10.09	479001	$41.69
CEJN Locking (Chrome)	E	———		479026	$7.49	69542	$7.31	479020	$10.09	476956	$56.38
Snap-Tite Locking (AL)	F	———		479027	$41.49	69542	$7.31	———		479032	$73.06
Snap-Tite Locking (SST)	F	———		479028	$92.70	808358	$10.65	479022	$10.09	479033	$210.52
Snap-Tite Locking (BR)	F	———		479029	$34.15	69542	$7.31	479023	$35.91	479034	$192.74
Foster Locking (SST)	D	636473	$26.91	637851	$4.96	808358	$10.65	———		800805	$35.17

† Fittings with the same letter code are interchangeable.

* Socket assy consists of socket from column 1 and brass union adapter P/N 69541 (3/4" female x 1/4" npt male). Exception: All SST fittings have SST Union P/N 808360.

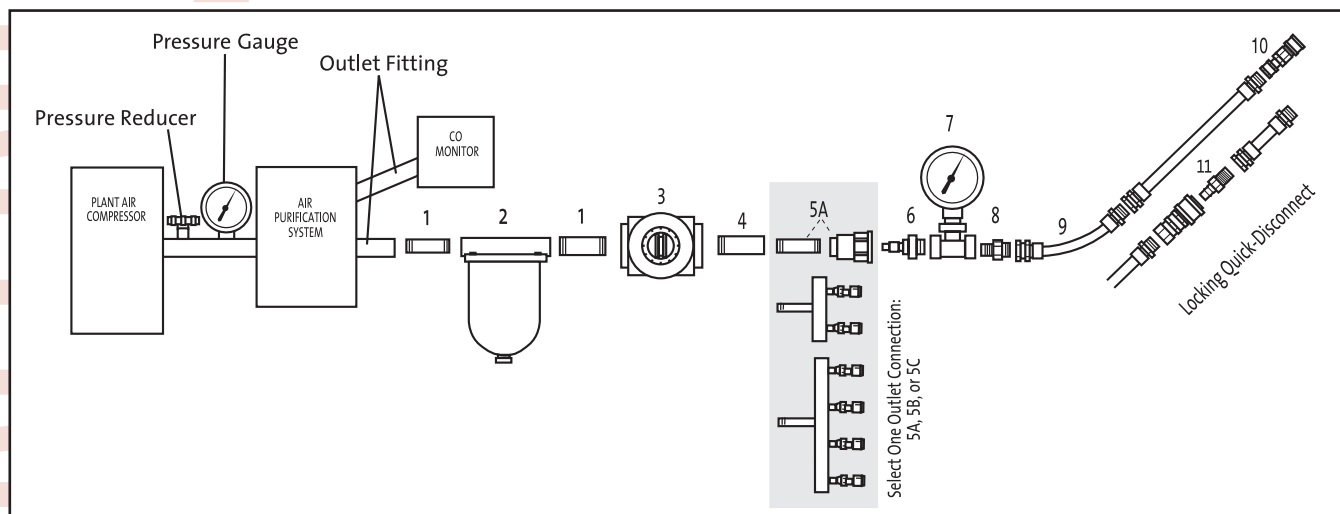### Locking Quick-Disconnects

Locking quick-disconnects must be used to interconnect lengths of MSA Air-Supply Hose. For most systems, you can use up to 12 sections of hose to make up the maximum length.

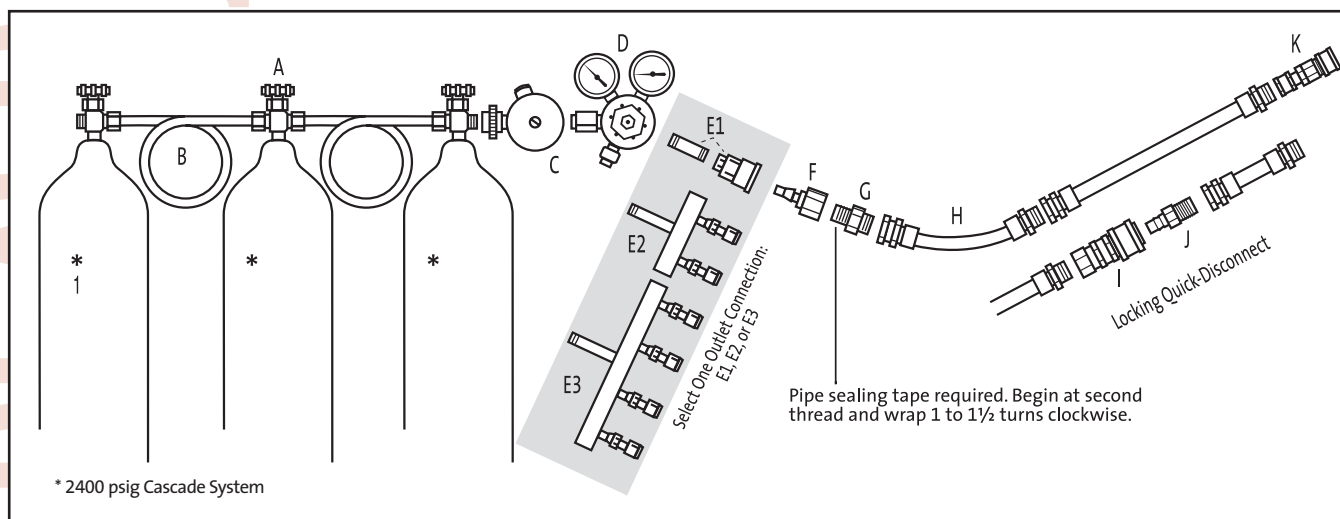| Description	Part No.	Government Net Price
CEJN Locking Quick-Disconnect Assembly, Socket and Plug (Chrome)	479009	$58.59
CEJN Locking Female Quick-Disconnect Socket (Chrome)	476956	$56.38
CEJN Locking Male (w/ Male D⁄₈" NPT) Quick-Disconnect Plug (Chrome)	476955	$7.98
Snap-Tite Locking Quick-Disconnect Assembly, Socket and Plug (AL)	479010	$88.66
Snap-Tite Locking Female Quick-Disconnect Socket (AL)	479032	$73.06
Snap-Tite Locking Male (w/ Male D⁄₈" NPT) Quick-Disconnect Plug (AL)	479015	$13.06
Snap-Tite Locking Quick-Disconnect Assembly, Socket and Plug (SST)	479011	$270.00
Snap-Tite Locking Female Quick-Disconnect Socket (SST)	479033	$210.52
Snap-Tite Locking Male (w/ Male D⁄₈" NPT) Quick-Disconnect Plug (SST)	479016	$67.39

CEJN Quick-Disconnect Socket & Plug Assembly

CEJN Q-D Socket   CEJN Q-D Plug

Snap-Tite Quick-Disconnect Socket & Plug Assembly

Snap-Tite Q-D Socket   Snap-Tite Q-D Plug

MSA 75

Firefighting and Rescue Equipment from MSA
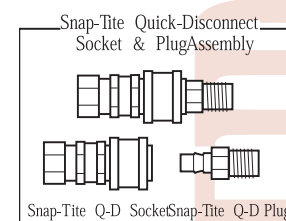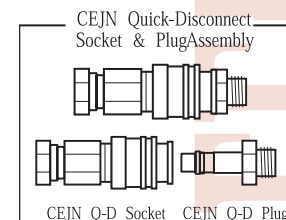
TYPICAL AIR-LINE SYSTEMS

Constant Flow System

	Description	Part No.	Government Net Price	Page	Column		Description	Part No.	Government Net Price	Page	Column
1	Nipple	68833	$7.83	—	—	6	Male Plug	—		75	4
2	Filter	81857	$169.25	77	—	7	Inlet Gauge	—		77	—
3	Regulator	66716	$150.29	77	—	8	Union Adapter	69542	$7.31	75	3
4	Bushing	625528		—		9	MSA Air Hose	—		77	—
5A	Female Socket	—		75	1	10	Female Socket	—		75	5
5A	Nipple	459867	$2.21	—	—	11	Quick Disconnect	—		75	—
5B/C	Manifolds	—		77	—						

Pressure Demand System

Pipe sealing tape required. Begin at second thread and wrap 1 to 1½ turns clockwise.

* 2400 psig Cascade System

	Description	Part No.	Government Net Price	Page	Column		Description	Part No.	Government Net Price	Page	Column
A	Tee Block	68850	$59.27	77	—	F	Male Plug	—		75	2
B	Air Pigtail	68851	$79.18	77	—	G	Union Adapter	69542	$7.31	77	3
C*	Audi-Larm	85078	$262.78	77	—	H	MSA Air Hose	—		77	—
D*	Press. Regul.	68858	$298.85	77	—	K	Female Socket	—		75	5
E1	Female Socket	—		75	1	I	Quick Disconnect (Fermale)	—		75	—
E1	Nipple	459867	$2.21	—	—	J	Quick Disconnect (Male)	—		75	—
E2–3	Manifolds	—		77	—						

* Part No.'s are for low pressure (3000 psi or less) systems. See p. 77 for high-presure options. Note: Tee Block and Pigtail are for 3000 psi or less.

MSA

Firefighting and Rescue Equipment from MSA

AIR-LINE RESPIRATOR ACCESSORIES

Approved Air-Supply Hose

Air-Supply Hose Temperature Ranges

Neoprene	-25° to 212° Fahrenheit
PVC	32° to 120° Fahrenheit
Nylon	0° to 160° Fahrenheit

MSA ³/₈–inch ID Air-Supply Hose is available in smooth, reinforced, lightweight polyvinylchloride; chemical-resistant black neoprene; or smooth, coiled nylon. Must be used with respirators in this section to maintain NIOSH certifications.

Description	Hose Fittings	Length	Part No.	Government Net Price
Neoprene	brass	50 ft	455022	$143.57
Neoprene	brass	25 ft	455021	$94.55
Neoprene	brass	15 ft	455020	$70.07
Neoprene	brass	8 ft	481071	$41.82
Neoprene	stainless steel	50 ft	481080	$180.40
Neoprene	stainless steel	25 ft	481079	$131.37
Neoprene	stainless steel	15 ft	481078	$107.46
Neoprene	stainless steel	8 ft	481077	$78.64
PVC	brass	100 ft	484225	$157.42
PVC	brass	50 ft	471513	$116.54
PVC	brass	25 ft	471512	$80.14
PVC	brass	15 ft	471511	$59.76
PVC	brass	8 ft	481051	$34.57
PVC	stainless steel	50 ft	481060	$152.32
PVC	stainless steel	25 ft	481059	$116.19
PVC	stainless steel	15 ft	481058	$95.49
PVC	stainless steel	8 ft	481057	$69.35
Coiled Nylon	brass	50 ft*	474043	$190.21
Coiled Nylon	brass	25 ft*	491515	$88.24
Coiled Nylon	brass	15 ft*	491514	$63.42
Coiled Nylon	brass	8 ft*	491513	$50.75

* Recommended usable length, 4-25 ft.

Left:
Inlet Pressure Gauge

Right:
Pressure Regulator

Inlet Pressure Gauge

MSA offers an inlet pressure gauge that enables a user to check pressure at the inlet of the MSA Air-Supply Hose, thereby assuring that air pressure is within the certified range. The gauge is supplied with Quick-Disconnect fittings.

Description	Fitting	Part No.	Government Net Price
Inlet Pressure Gauge	Snap-Tite	476734	$64.85
Inlet Pressure Gauge	Foster or Schrader	476735	$68.15
Inlet Pressure Gauge	Hansen	476737	$61.98

Pressure Regulator

MSA's pressure regulator is used with a plant air compressor system to reduce compressor pressure to the desired operating pressure. The regulator maintains pressure on the outlet side until readjusted for use with inlet pressure of up to 125 psig.

Description	Part No.	Government Net Price
Pressure Regulator	66716	$150.29

4-Outlet Manifold

Cascade System Accessories

Manifolds

Required when using multiple (2–4) respirators from a single air source; these manifolds have quick-disconnect assemblies with automatic shut-off outlets.

Description	Part No.	Government Net Price
Manifold with 4 Outlets and Foster Quick-Disconnect	47370	$233.59
Manifold with 2 Outlets and Foster Quick-Disconnect	84416	$155.61
Manifold with 4 Outlets and Snap-Tite Quick-Disconnect	93931	$251.12
Manifold with 2 Outlets and Snap-Tite Quick-Disconnect	486053	$155.17

Cascade System Accessories

The following components are used to assemble a cascade system, which consists of a bank of respirable-air cylinders (user-supplied) that supply a flow of air to dual-purpose air masks, or other pressure-demand air-supplied respirators. Air-supply hoses are listed separately at left.

Description	Part No.	Government Net Price
Four-outlet Manifold Assembly w/Foster Quick-Disconnects	47370	$233.59
Two-outlet Manifold Assembly w/Foster Quick-Disconnects	84416	$155.61
Audi-Larm™ Warning Device	85078	$262.78
Filling Hose Assembly, high pressure	476105	$472.53
Air Outlet Connection with complete gauge	68846	$107.79
Air Coupler Tee	68850	$595.27
Air Pigtail	68851	$79.18
High-Pressure Filling Hose, 5 ft	476156	$165.73
Air Cylinder Pressure Regulator, dual-gauge, 0-3000 psig	68858	$298.85
Male Air-supply Hose Adapter for Foster Quick-Disconnects (for PVC hose)	55716	$3.74
Union Adapter (required to attach male plug)	69542	$7.31

Air-line Filter

The MSA air-line filter removes a minimum of 99% of 0.3 micron and larger particulates, including dusts, mists, fumes, smoke, and petroleum vapors. Caution: It does not remove carbon monoxide. The air-line filter can be used at inlet pressures up to 125 psig. The pressure drop is one psig at a maximum rated air flow of 25 cubic feet per minute (cfm).

Description	Part No.	Government Net Price
Air-line Filter	81857	$169.25
Replacement Filter Kit	484923	$58.49
Ultra Filter "H" Type Cartridge	79030	$16.46

Breathing Air Distribution System

This system purifies, regulates and distributes plant air to as many as four air-line respirator users. A sealed, rugged, stainless steel case prevents contamination of interior components. External controls allow water condensation to be drained from the filter bowl and the manifold pressure to be adjusted. Caution: The system does not remove carbon monoxide.

Description	Part No.	Government Net Price
Breathing Air Distribution System, less QDs	488113	$1,074.96
"Toolbox" Carrying Handle Bar	488118	$32.09

*Quick-disconnects must be ordered separately

MSA

AIR-LINE RESPIRATOR ACCESSORIES, continued

Above: Support Belts
Left: Cover Lenses

Cover Lens

Protects the facepiece lens from scratches during storage, handling, and use.

Description	Part No.	Government Net Price
For Ultra Elite		
Clear cover lens, pkg of 25	491500	$28.49
Smoke-tinted cover lens, pkg of 25	805456	$61.82
For Ultravue		
Smoke-tinted cover lens, pkg of 6	494254	$20.30
Smoke-tinted cover lens, pkg of 25	480326	$58.45
Mirror-reflective cover lens, pkg of 6	494255	$20.30
Yellow-tinted cover lens, pkg of	494256	$23.58
Clear cover lens, pkg of 25	456975	$28.49

Support Belts

MSA PVC belts are easy to decontaminate. If decontamination is not a factor, users may opt for an uncoated nylon web belt.

Description	Part No.	Government Net Price
Polyurethane-coated Nylon Support Belt	492827	$15.32
PVC Support Belt	473902	$5.96
Web Support Belt (uncoated)	9961	$20.30

Confidence Plus Germicidal Cleaner

(see Data Sheet 10-00-13)

Description	Part No.	Gov't Net Price
Cleaner, Confidence Plus Germicidal, Liquid, 32 oz bottle	10009971	$16.37

Welder's Adapter for Ultravue Facepiece

For eye protection in welding applications where respiratory protection is required, a welder's adapter can be easily installed over an Ultravue Facepiece lens. The clip-on style adapter can be easily removed if needed, whereas the integral adapter model is used in place of the facepiece lens. Both models are made of polycarbonate and feature a flip-up lens with large 4½-inch x 5¼-inch (11.4 cm x 13.3 cm) vision area.

Description	Part No.	Gov't Net Price
Clip-On Welder's Adapter, complete with cover lens, less filter plate	472859	$97.58
Integral Welder's Adapter, complete with cover lens, less filter plate	470786	$97.58
Rayfoe Filter Plate, shade 6, heat-treated	38346	$3.43
Rayfoe Filter Plate, shade 10, heat-treated	38347	$3.43
Rayfoe Filter Plate, shade 12, heat-treated	38277	$3.43
Rayfoe Filter Plate, shade 14, heat-treated	38348	$3.43

Nosecup

Molded from a soft rubber compound that is resistant to facial oils, the optional nosecup helps reduce the possibility of lens fogging. The nosecup is particularly effective under conditions of high humidity and/or low temperatures by inhibiting contact of the moist exhalation with facepiece lens. A nosecup can be easily affixed to the facepiece without tools, and any size nosecup may be installed in any size Ultravue Facepiece resulting in a customized facepiece for more comfortable use.

Nosecups for Ultravue Facepieces

Description	Small	Medium	Large	Government Net Price
Nosecup, Ultravue	813138	813139	813140	$26.69

Center Support Spectacle Kit for Ultra Elite Facepiece

Side Support Spectacle Kit for Ultra Elite Facepiece

Spectacle Kit for Ultravue Facepiece

Spectacle Kit for Full-Facepiece Respirators

For use by workers who must wear corrective lenses, the Spectacle Kit can be easily inserted into the facepiece.

Description	Part No.	Government Net Price
Ultra Elite Spectacle Kit (side wire support)	804638	$41.91
Ultra Elite Spectacle Kit (center support)	493581	$41.91
Ultravue Facepiece Spectacle Kit	454819	$41.91

Welder's Adapter

Welder's Hood

Welder's Hood

Glass yarn hood fits over the Welder's Adapter to protect the head, neck, and shoulders from sparks.

Description	Part No.	Government Net Price
Welder's Hood	486568	$73.02

MSA

THE RESCUEAIRE™ SYSTEM

(see Bulletin 0114-18-MC)

RescueAire I

RescueAire AL

RescueAire QR

RescueAire II

RescueAire I

The RescueAire I consists of a flame- and heat- resistant carrying harness with an adjustable shoulder strap (made of Nomex and Kevlar), and a 3-ft Quick-Fill hose. The system can be used with all MSA low-pressure and 45- and 60-minute high-pressure cylinders. *Cylinders are sold separately.*

Description	Part No.	Government Net Price
RescueAire I System	10033277	$592.43

RescueAire AL

The RescueAire AL (Airline) consists of a flame- and heat-resistant carrying harness with an adjustable shoulder strap (made of Nomex and Kevlar), a pressure-reducing regulator and a 36" low-pressure airline with an Extendaire fitting or an adapter to accept a female airline quick-disconnect (sold separately). The system can be used with all MSA low-pressure and 45- and 60-minute high-pressure cylinders. *Cylinders are sold separately.*

Description	Part No.	Government Net Price
RescueAire AL System w/ExtendAire QD	10033311	$716.48
RescueAire AL System w/union adapter	10033310	$627.07

RescueAire QR

The RescueAire QR consists of a flame- and heat-resistant carrying harness with an adjustable shoulder strap (made of Nomex and Kevlar), a pressure-reducing regulator, a 36" Quick-Fill Hose and a 36" low-pressure airline with an Extendaire fitting or a union adapter (accepts a female airline quick-disconnect sold separately). the system can be used with all MSA low-pressure and 45- and 60-minute high-pressure cylinders. *Cylinders are sold separately.*

Description	Part No.	Government Net Price
RescueAire QR System w/ExtendAire QD	10033279	$1,000.66
RescueAire QR System w/union adapter	10033278	$3,199.45

RescueAire II

The RescueAire II consists of a flame- and heat-resistant carrying harness with an adjustable shoulder strap (made of Nomex and Kevlar), an AudiLarm low-pressure warning device, a pressure-reducing regulator, a second-stage mask-mounted regulator, a 36" Quick-Fill EBS Connection and an Extendaire EBS Connection.

Description	Part No.	Government Net Price
RescueAire II System with Quarter-Turn MMR		
with L-30 Cylinder	10025491	$2,180.93
with H-60 Cylinder	10025462	$2,723.22
low-pressure, less cylinder	10033312	$1,698.35
high-pressure, less cylinder	10025492	$1,655.49
RescueAire II System with Firehawk Slide-to-Connect MMR		
with L-30 Cylinder	10041196	$2,237.39
with H-60 Cylinder	10041195	$2,793.72
low-pressure, less cylinder	10041198	$1,698.35
high-pressure, less cylinder	10041197	$1,698.35
RescueAire II System with Firehawk Push-to-Connect MMR		
with L-30 Cylinder	10041230	$2,237.39
with H-60 Cylinder	10041199	$2,793.72
low-pressure, less cylinder	10041232	$1,698.35
high-pressure, less cylinder	10041231	$1,698.35

Quick-Disconnects

Description	Part No.	Government Net Price
Hansen Female (BR)	471501	$18.79
Snap-tite Female (AL)	455019	$21.75

FIREHAWK™ AIR MASK

NEW!

Safety

- MSA's **EXCLUSIVE QUICK-FILL® SYSTEM** makes every SCBA capable of both receiving and donating air to firefighters in need. Although the NFPA standard requires all brands of SCBA to incorporate the RIC connection, only the MSA Air Mask can make full utilization of the fitting with our exclusive transfilling capability.

- An NFPA-compliant emergency egress system, integral to the SCBA waist belt, is available as an option. This **RESCUE BELT** comes complete with Kevlar line (50 ft. or 75 ft.) and rappelling hardware.

- The all new **AIRFRAME™ CARRIER AND HARNESS** comes standard, with large side handles and a central attachment point for pulling firefighters to safety in rescue scenarios.

- MSA's Ultra Elite® Facepiece is designed with a **ONE-WAY CHECK VALVE** to prevent cross-contamination among firefighters. Although regulators are shared among users, harmful pathogens (SARS, hepatitis, flu virus) are kept within each individual-issue facepiece.

- **Wireless electronics** add safety benefits by eliminating snag hazards that can accompany unnecessary wires on an SCBA.

- **CBRN POSITIVE PROTECTION** is provided by MSA's exclusive Tetraplex™ shield, which serves as the first line of defense in preventing chemical warfare agents from any initial contact with the critically important second-stage diaphragm.

- A **NEW INSERT**, now standard on all MSA cylinder valves, reduces the thrust of cylinders if they are mishandled.

- A **BUDDY LIGHT** on the MSA heads-up display lets others know when you are low on air, reinforcing the distinct communication of the Audi-Larm™ Audible Alarm.

- The Heads-Up Display has an **AUTOMATIC DIMMING FEATURE** in low ambient light to protect the visibility of firefighters.

Simplicity

- An optional **SWIVELING LUMBAR PAD** for maximum freedom of movement and comfort when crawling or climbing.

- A **SLIDE-TO-CONNECT** or **PUSH-TO-CONNECT** regulator attachment to meet the widest range of your preferences.

- An **INTEGRATED SHUT-OFF** to prevent the loss of cylinder air when disconnecting the second-stage regulator.

- An **OPEN-FORM CYLINDER BAND** to allow rapid drop-in cylinder replacement, eliminating webbing adjustments and secondary retaining clips.

- Modular **"STAND ALONE" ELECTRONIC COMPONENTS** for easy maintenance, with no wires to route and no complicated mounting brackets.

- A **POWER-SAVING MODE** on the heads-up display, which is set as a default to maximize battery life, with a continuous-on mode that can be selected to provide a constant LED display.

- An optional ICM unit that serves as an integrated PASS and low-pressure warning device, with an optional digital display of cylinder pressure and time remaining. This ICM unit is also available with **DATA LOGGING AND DOWNLOADING** capabilities, to track the most recent 30 hours of use.

- A maintenance policy that delivers the **LOWEST POSSIBLE COST OF OWNERSHIP**, based on the frequency of use of the Air Mask. For many departments, this means only conducting an annual flow test according to the NFPA 1852 standard. Even a busy department using one cylinder every other day would find the cost of maintaining an SCBA to be less than $7 per year.

- State-of-the-art regulator designs that have among the **FEWEST NUMBER OF PARTS** in the industry. The Firehawk regulator requires no tools, lubricants, or sealants in its maintenance.

- **NFPA AND CBRN UPGRADE KITS** to help users meet the most current performance standards.

Reliability

- **IN-HOUSE MANUFACTURING** of nearly every pneumatic, electronic, and structural component of the Air Mask to ensure optimal quality and performance.

- Use of the **HIGHEST QUALITY** and grades of stainless steel and aluminum with select blends of Kevlar, rubber, and plastic molding compounds for the highest strength and durability.

- **TEFLON HARD-COAT ANODIZED** valve bodies to minimize the friction of internal components and maximize their service life.

- Electronics designed for ruggedness and **IMMUNITY TO FIRE GROUND RFI** (radio frequency interference). The Air Mask's electronics must first pass through MSA's stringent in-house RFI chamber to ensure reliable operation before you use them.

- **100% INSPECTION** of all Air Mask critical attributes in production.

- An **ISO 9001:2000 CERTIFIED** organization.

- **RESPONSIBLE MAINTENANCE POLICIES** communicated to users by direct mail and over the internet, with the appropriate training and technical updates to help ensure the continued dependable operation of the Air Mask.

- A "best-in-class" service network with **OVER 2,000 CERTIFIED REPAIR FACILITIES** and a team of service specialists, committed to resolving customer issues any time, anywhere, all backed by a lifetime warranty.

FIREHAWK™ AIR MASK WITH CBRN PROTECTION

NEW!

MSA has you protected with the latest enhancements to our FireHawk Air Mask, the fire service's FIRST NFPA 1981-2002 edition, NIOSH-approved CBRN self-contained breathing apparatus.

MSA's new FireHawk CBRN SCBA was developed to provide you with positive protection from CBRN agents, according to the stringent live-agent test regimen of the NIOSH approval process. Because conventional silicone diaphragms are among the SCBA components most vulnerable to CBRN agent permeation, our positive-protection design seals the new diaphragm of the Firehawk® regulator from any initial contact with contaminants.

The key to this protection are these revolutionary components, which lie within the CBRN version of the second-stage regulator:

- MSA's exclusive Tetraplex™ Protective Shield (patent pending). It serves as the first line of defense in preventing chemical warfare agents from contacting the vital components of the regulator and entering the user's air stream.

- A permeation-resistant regulator diaphragm made of a proprietary rubber compound. It serves as the second line of defense in protecting the user's breathing zone.

- A modified valve core body (the engine of the regulator). It supports the new shield and diaphragm with a high-performance air-delivery system.

These components, plus one of the industry's best-fitting facepieces, MSA's Ultra Elite® Facepiece, ensure reliable and effective respiratory protection not only from agents that might be used in a terrorist attack, but also from many of the lethal byproducts of combustion that are encountered in everyday firefighting. Chemical plants, nuclear facilities, laboratories, and other industries harbor unknown and life-threatening environments that you might have to face. With MSA's new CBRN FireHawk Air Mask, you can be positive you are protected on every call.

CBRN PROTECTED

MSA

TACTICAL AIR MASKS

BlackHawk™ Tactical Air Mask

The BlackHawk Tactical Air Mask is especially designed for surveillance. Certain BlackHawk features eliminate reflections and/or audible sounds that would compromise concealment—in other words, it is black, sleek and silent.

Ultra Elite® Facepiece
- All-black Ultra Elite facepiece, available in Hycar or silicone
- Three sizes of facepiece with two sizes of black nosecups
- Nightfighter™ HUD System mounting bracket
- SpeeD-ON® Head Harness

Mask-Mounted Regulator
- Firehawk™ Regulator with Push-to-Connect feature
- Neoprene intermediate pressure hose
- Variable flow bypass system

EOSTI / Gauge
- Nightfighter™ Heads-Up Display functions silently as the low pressure warning device and the cylinder pressure gauge*
- System consists of a transmitter mounted on the gauge line and a receiver that mounts on the facepiece
- A series of LEDs provides the user with cylinder volume information
- LEDs function in an intermittent mode and can be refreshed by depressing the refresh button on the transmitter

* There is no audible low-pressure warning device on this unit.

Harness and Carrier
- Composite backplate made of glass-reinforced thermo-set plastic
- Waistbelt, shoulder straps and pull strap are all made of flame and heat-resistant (FHR) Kevlar
- Optional FHR shoulder pads and lumbar pad
- Optional FHR chest strap
- Adjustable Kevlar cylinder retention strap with over-center latching system
- Cylinder shroud that encompasses the cylinder and Air Mask pneumatics. Shroud is made of Advance FHR material

Cylinders
- The Blackhawk™ Air Mask is available in both low-pressure (2216 psi) and high-pressure (4500 psi) operating systems.
- Carbon- fiber cylinders available for use are: L-30 Stealth, H-30Stealth, H-45 Low-Profile Stealth, H-60 Stealth

Quick-Fill® System Option
- A shoulder-mounted Quick-Fill System option is offered

Workline Accessory
- For extended-use applications, an air-line accessory is available with your choice of five different types of fittings

Carrying Case
- A hard case or soft case are offered for storage purposes
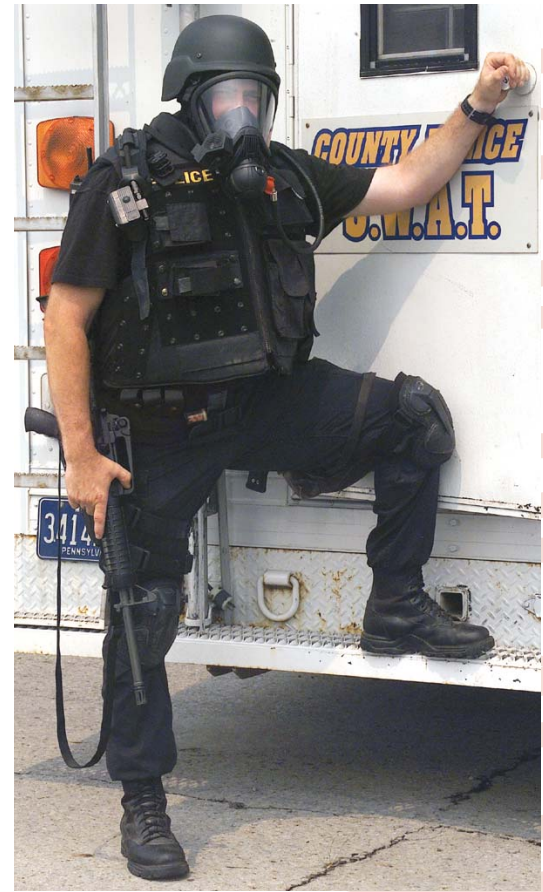
BlackHawk™ Tactical Air Mask

INDUSTRIAL SCBA

AirHawk™ MMR Air Mask

Based on the highly successful MMR Xtreme® Air Mask which sees duty in the harshest environment —firefighting— MSA's Airhawk™ MMR Air Mask incorporates the latest technologies available for industrial, agricultural, HazMat and HVAC work.

What sets the Airhawk SCBA apart from the rest of the field is the long list of options that let you customize the apparatus for your specific needs.

- The Airhawk SCBA is available in low-pressure (2216 psig) or high-pressure (4500 psig) versions.
- Three different 30-minute rated low-pressure cylinder types—aluminum, hoop-wound or stealth—let you choose low weight or low-cost:
- High-pressure Carbon Fiber-wrapped Composite cylinders are available in 30-, 45- or 60-minute rated durations.
- The innovative FireHawk PTC (Push-To-Connect) Regulator easily and securely attaches to your facepiece

- The industry leading Ultra Elite® Facepiece offers the choice of three sizes in either SoftFeel® Hycar rubber or silicone.
- Dual-purpose options allow the connection of an air-line. Five different quick-disconnect fittings are available.
- The harness assembly is available in Nylon or flame-and-heat-resistant Kevlar. A chest strap, lumbar pad and shoulder pads can also be added, making this the most comfortable industrial Air Mask on the market today.

Designed with the industrial user in mind, employing the latest in engineering advancements, the Airhawk MMR Air Mask will perform wherever firefighting compliance to NFPA 1981 is not required.

AirHawk™ MMR Air Mask

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR FIREHAWK™ AIR MASKS

Prices are 39.55% discount off 2005 Price List.

The Choice is Truly Yours

The ATO System makes it easy to order MSA Air Masks that are custom assembled to meet your specific needs. You start with a basic Air Mask configuration, and then choose from an extensive line of options that includes cylinders, dual-purpose capabilities, the Quick-Fill® System, various models and sizes of facepieces, nosecups, the SpeeD-ON™ Head Harness and other options based on your requirements. All to ensure that you get the one Air Mask you need.

With the ATO System, you get more choices in SCBA products in less time. "Special" orders, which used to take several weeks to process and ship, now take only days.

Custom Part Number Ordering

Using the ATO System is easy. You simply create your own **part number** for your desired Air Mask assembly using the ordering information provided on the price list to the right. Just select the number or letter that corresponds to your choice of components and fill in the appropriate box.

To determine the total Air Mask **list price**, just mark the cost of the components you choose in the boxes directly below each column, then total the figures. You're then just days away from having the most advanced and dependable respiratory protection available.

Simple, easy, fast ... that's ATO.

Note: This matrix must only be used for ordering complete Air Mask assemblies. An Air Mask type must be specified. This matrix cannot be used for ordering individual components (i.e. facepieces, cylinders, etc.) Please order components separately using their standard MSA part number.

Firefighting and Rescue Equipment from MSA

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR FIREHAWK™ AIR MASKS WITH CBRN PROTECTION

Prices are 39.55% discount off 2005 Price List.

The Choice is Truly Yours

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Simple, easy, fast ... that's ATO.

Assemblies are NIOSH-approved under CBRN standards.

Note: This matrix must only be used for ordering complete Air Mask assemblies. An Air Mask type must be specified. This matrix cannot be used for ordering individual components (i.e. facepieces, cylinders, etc.) Please order components separately using their standard MSA part number.

SCBA Type

UM	2216 FireHawk Air Mask — 1426.17
MM	3000 FireHawk Air Mask — 1426.17
CM	4500 FireHawk Air Mask — 1426.17

Carrier/Harness Assembly

Code	Description	Price
A	Airframe Single Pull without Chest Strap	434.70
B	Airframe Double Pull without Chest Strap	450.11
C	Airframe Single Pull with Chest Strap	459.98
D	Airframe Double Pull with Chest Strap	475.69

Options A & C can only be chosen if either a rescue belt or an air-line option is selected.

Lumbar Pad/Rescue Belt†

Code	Description	Price
0	None	0.00
1	Lumbar Pad	41.28
2	Swiveling Lumbar Pad	55.18
A	Rescue Belt - Standard 50'	220.64
B	Rescue Belt - Standard 75'	283.69
C	Rescue Belt - Long 50'	233.82
D	Rescue Belt - Long 75'	296.87
E	Swiveling Rescue Belt - Standard 50'	234.55
F	Swiveling Rescue Belt - Standard 75'	297.60
G	Swiveling Rescue Belt - Long 50'	247.72
H	Swiveling Rescue Belt - Long 75'	310.77

If choosing a rescue belt, the carrier/harness assembly must be a single pull (options A or C).

Cylinder

Code	Description	Price
0	None	0.00
1	3AL Aluminum	328.51
2	Hoop-Wound	305.38
3	30' Carbon	566.56
4	3AL Aluminum less Air	346.69
5	Hoop-Wound less Air	413.51
6	30' Carbon less Air	584.70
0	None	0.00
1	30' Carbon	653.07
2	30' Carbon less Air	671.20
0	None	0.00
1	30' Carbon	569.25
2	45' Carbon	739.91
3	45' Carbon Low-Profile	739.91
4	60' Carbon	979.68
5	30' Carbon less Air	587.38
6	45' Carbon less Air	738.04
7	45' Carbon Low-Profile less Air	738.04
8	60' Carbon less Air	957.82

MMR Regulator Type

Code	Description	Price
N	CBRN Firehawk STC, Threaded, Solid Cover	51.38
Q	CBRN Firehawk STC, QC, Solid Cover	122.71
R	CBRN Firehawk PTC, Threaded, Solid Cover	51.38
S	CBRN Firehawk PTC, QC, Solid Cover	122.71

Air-Line Options

Code	Description	Price
0	None	0.00

Emergency Breathing System

Code	Description	Price
0	None	0.00
1	Quick-Fill Shoulder Mounted	183.46
3	ExtendAire (EBS) with Dual Quick-Connect	281.01
4	Shoulder Mounted Quick-Fill & ExtendAire (EBS) with Dual Quick-Disconnect	464.47

*MM is not compatible with Quick-Fill Option

Facepiece

Code	Description	Price
A	None	0.00
B	Ultra Elite Hycar, Small	156.00
C	Ultra Elite Hycar, Medium	156.00
D	Ultra Elite Hycar, Large	156.00

Nosecup

Code	Description	Price
0	None	0.00
1	Medium	23.31
2	Large	23.31

Head Harness

Code	Description	Price
0	None	0.00
2	SpeeD-ON less Neckstrap	32.03
4	SpeeD-ON with Neckstrap	38.20

Gauge/Integrated PASS

Code	Description	Price
0	None	0.00
1	Pressure Gauge	86.32
2	ICM 2000 Plus with heat alarm	609.81
3	ICM 2000 Plus without heat alarm	609.81
4	ICM 2000 with heat alarm	489.57
5	ICM 2000 without heat alarm	489.57

Case

Code	Description	Price
0	None	0.00
1	Hard Case	64.12
2	Soft Case	64.12

Part Number: J-

Quantity

Total Air Mask List Price =

All Pricing in U.S. Dollars

†Note: Standard Rescue Belt fits waist sizes up to 54 inches. Long Rescue Belt fits waist sizes up to 74 inches.

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR BLACKHAWK™ AIR MASKS

The Choice is Truly Yours

The ATO System makes it easy to order MSA Air Masks that are custom assembled to meet your specific needs. You start with a basic Air Mask configuration, and then choose from an extensive line of options that includes cylinders, dual-purpose capabilities, the Quick-Fill® System, various models and sizes of facepieces, nosecups, the SpeeD-ON™ Head Harness and other options based on your requirements. All to ensure that you get the one Air Mask you need.

With the ATO System, you get more choices in SCBA products in less time. "Special" orders, which used to take several weeks to process and ship, now take only days.

Custom Part Number Ordering

Using the ATO System is easy. You simply create your own **part number** for your desired Air Mask assembly using the ordering information provided on the price list to the right. Just select the number or letter that corresponds to your choice of components and fill in the appropriate box.

To determine the total Air Mask **list price**, just mark the cost of the components you choose in the boxes directly below each column, then total the figures. You're then just days away from having the most advanced and dependable respiratory protection available.

Simple, easy, fast … that's ATO.

> Note: This matrix must only be used for ordering complete Air Mask assemblies. An Air Mask type must be specified. This matrix cannot be used for ordering individual components (i.e. facepieces, cylinders, etc.) Please order components separately using their standard MSA part number.

Prices are 39.55% discount off 2005 Price List.

All Pricing in U.S. Dollars

Total Air Mask List Price $ ____ = Quantity ____

Part Number: B – ____

SCBA Type

Code	Description	Price
BL	BlackHawk MMR (2216 psig)	1232.41
BH	BlackHawk MMR 4500 psig	1232.41

Carrier/Harness

Code	Description	Price
0	Kevlar without chest strap	172.95
1	Kevlar with chest strap	188.05

Pad Options

Code	Description	Price
0	None	0.00
1	Shoulder Pad	40.88
2	Lumbar Pad	40.88
3	Shoulder Pad & Lumbar Pad	81.76

Cylinder

Code	Description	Price
0	None	0.00
1	30' Stealth	566.56
0	None	0.00
1	30' Stealth	569.25
2	45' Stealth Low Profile	739.91
3	60' Stealth	939.68

MMR Regulator Type

Code	Description	Price
G	Firehawk PTC w/ Swivel & Solid Cover	0.00

Air-Line Option

Code	Description	Price
0	None	0.00
1	Snap-Tite Aluminum	105.79
2	Hansen SST	142.06
3	Hansen Brass	105.79
4	Foster Steel	105.79
5	Snap-Tite Locking Aluminum	142.06

Emergency Breathing System

Code	Description	Price
0	None	0.00
1	Quick-Fill Shoulder Mount	183.46

Facepiece

Code	Description	Price
A	None	0.00
B	Ultra Elite Hycar, Small	107.90
C	Ultra Elite Hycar, Medium	107.90
D	Ultra Elite Hycar, Large	107.90
E	Ultra Elite Silicone, Small	120.24
F	Ultra Elite Silicone, Medium	120.24
G	Ultra Elite Silicone, Large	120.24

Nosecup

Code	Description	Price
0	None	0.00
1	Med	23.31
2	Large	23.31

Head Harness

Code	Description	Price
0	None	0.00
1	Rubber	13.50
2	SpeeD-ON	38.20

HUD Options

Code	Description	Price
0	None	0.00
1	Night-Fighter HUD	

Case

Code	Description	Price
0	None	0.00
1	Hard Case	64.12
2	Soft Case	64.12

> Note: This matrix must only be used for ordering complete Air Mask assemblies. An Air Mask type must be specified. This matrix cannot be used for ordering individual components (i.e. facepieces, cylinders, etc.) Please order components separately using their standard MSA part number.

Firefighting and Rescue Equipment from MSA

ASSEMBLE-TO-ORDER (ATO) SYSTEM FOR AIRHAWK™ MMR AIR MASKS

The Choice is Truly Yours

The ATO System makes it easy to order MSA Air Masks that are custom assembled to meet your specific needs. You start with a basic Air Mask configuration, and then choose from an extensive line of options that includes cylinders, dual-purpose capabilities, the Quick-Fill® System, various models and sizes of facepieces, nosecups, the SpeeD-ON™ Head Harness and other options based on your requirements. All to ensure that you get the one Air Mask you need.

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To determine the total Air Mask **list price**, just mark the cost of the components you choose in the boxes directly below each column, then total the figures. You're then just days away from having the most advanced and dependable respiratory protection available.

Simple, easy, fast ... that's ATO.

Prices are 39.55% discount off 2005 Price List.

SCBA Type	Carrier/Harness	Pad Options	Cylinder	MMR Regulator Type	Air-Line Option	Facepiece	Nosecup	Head Harness	PASS	Case
AL AirHawk MMR (2216 psig) 363.69	0 Nylon without chest strap 78.62	0 None 0.00	0 None 0.00	G Firehawk PTC with Swivel & Solid Cover 0.00	0 None 0.00	A None 0.00	0 None 0.00	0 None 0.00	0 Gauge 0.00	0 None 0.00
	1 Nylon with chest strap 86.16	1 Shoulder Pad 40.88	1 3AL Aluminum 328.51		1 Snap-Tite Aluminum 105.79	B Ultra Elite, Hycar, Small 107.90	1 Medium 23.31	1 Rubber 13.50	1 ICM 2000 with heat 489.57	1 Hard Case 64.12
	2 Kevlar without chest strap 172.95	2 Lumbar Pad 40.88	2 Hoop-Wound 395.38		2 Hansen SST 142.06	C Ultra Elite, Hycar, Medium 107.90	2 Large 23.31	2 SpeeD-ON 38.20	2 ICM 2000 Plus with heat 609.81	2 Soft Case 64.12
	3 Kevlar with chest strap 188.05	3 Shoulder Pad & Lumbar Pad 81.76	3 30' Stealth 566.56		3 Hansen Brass 105.79	D Ultra Elite, Hycar, Large 107.90				
AH AirHawk MMR (4500 psig) 363.69			0 None 0.00		4 Foster Steel 105.79	E Ultra Elite, Silicone, Small 120.24				
			1 30' Stealth 569.25		5 Snap-Tite Locking Aluminum 136.01	F Ultra Elite, Silicone, Medium 120.24				
			2 45' Stealth Low Profile 739.91			G Ultra Elite, Silicone, Large 120.24				
			3 60' Stealth 939.68							

Total Air Mask List Price

$ =

$

$ + $ + $ + $ + $ + $ + $ + $ + $ + $ + $

All Pricing in U.S. Dollars

Quantity

Part Number

B —

Note: This matrix must only be used for ordering complete Air Mask assemblies. An Air Mask type must be specified. This matrix cannot be used for ordering individual components (i.e. facepieces, cylinders, etc.) Please order components separately using their standard MSA part number.

NIOSH Approved, Non-NFPA Compliant

MMR REGULATORS

Firehawk® MMR Regulator

(See Bulletins 0105-53-MC.)

The Firehawk MMR, MSA's mask-mounted regulator assembly, is fully compliant with NIOSH 42 CFR 84 and NFPA 1981, 2002 edition. Available with two different attachment systems, the Firehawk MMR truly redefines ease-of-use and ease-of-maintenance, combined with outstanding performance.

The Firehawk second-stage regulator features a unique **Slide-To-Connect (STC)** attachment system that allows firefighters to hang the regulator on the facepiece in the "ready position," then simply push it into the facepiece when SCBA air is needed. Doffing of the regulator, while wearing gloves, is also easy with two large release buttons that automatically turn-off the flow of air as the regulator is doffed. A dual-swivel feature on the pressure hose provides maximum freedom-of-head movement and the silicone hose material ensures hose flexibility even at very cold temperatures.

In addition to the STC system, MSA also offers a second connection option for the Firehawk Regulator,

the **Push-to-Connect (PTC)**. The PTC's Adapter self-centers the Firehawk regulator and the loud dual sound of the regulator engaging onto the facepiece provides you with confidence that the Firehawk PTC is securely attached to your facepiece—an action that takes just seconds, when seconds count!

Maintenance is also a breeze, considering the Firehawk design requires no tools, adhesives, or sealants, and has approximately 70% fewer parts as compared to other regulators on the market. Additionally, there are no internal adjustments required. Any adjustments to the regulator may be accomplished at a single adjustment point through the outlet port of the regulator.

Ease of use and maintenance, combined with outstanding performance, makes the Firehawk MMR clearly the product of choice. In keeping with the MSA tradition of upgradeability, the Firehawk regulator can easily be added to any existing MSA MMR with Ultra Elite facepiece with a simple upgrade kit.

FireHawk™ MMR STC Regulator

FireHawk™ MMR PTC Regulator

Second-Stage Quarter-Turn Mask-Mounted Regulator

Description	Part No.	Government Net Price
FireHawk MMR Regulator Assemblies		
FireHawk MMR Push-To-Connect	10033112	$404.45
FireHawk MMR Push-To-Connect	10033113	$508.23
FireHawk MMR Push-To-Connect	10037656	$280.68
FireHawk MMR Slide Upgrade Kit (threaded type)	10025121	$404.45
FireHawk MMR Slide Upgrade Kit (quick-connect type)	10025120	$554.06
FireHawk Ultra Elite Facepiece Conversion Kit for Slide MMR	10028600	$14.72
FireHawk MMR PTC Upgrade Kit (threaded type)	10038665	$404.45
FireHawk MMR PTC Upgrade Kit (quick-connect type)	10038666	$554.06
FireHawk Ultra Elite Facepiece Conversion Kit for PTC MMR	10038664	$14.72
Dual-Purpose Conversion Kit, Foster (threaded type)	10026540	$264.77
Dual-Purpose Conversion Kit, Foster (quick-connect type)	10026541	$267.46
Dual-Purpose Conversion Kit, Hansen (threaded type)	10026542	$244.54
Dual-Purpose Conversion Kit, Hansen (quick-connect type)	10026543	$220.31
Hose Assembly for FireHawk First Stage (threaded type)	10026547	$29.16
Hose Assembly for FireHawk First Stage (quick-connect type)	10026548	$95.17
Quarter-Turn MMR Regulator Assemblies		
First-Stage Regulator, MMR (threaded type)	10026233	$329.89
First-Stage Regulator, MMR (quick-connect type)	10026234	$347.07
First-Stage Regulator, Ultralite 2216 MMR	488885	$336.09
First-Stage Regulator and Audi-Larm, Custom 4500 MMR	492282	$684.27
Second-Stage MMR, Ultralite 2216 MMR	812857	$371.29
Dual-Purpose Conversion Kit, Foster steel QDs, for MMR masks	494964	$241.50
Dual-Purpose Conversion Kit, Hansen sst QDs, for MMR masks	815973	$241.50

FACEPIECE ASSEMBLIES FOR FIREHAWK AND BLACKHAWK SCBA

The MSA Ultra Elite® Facepiece offers an effective combination of comfort and performance. Ultra Elite facepieces are available in two sizes and two materials black Hycar rubber, and black silicone. To reduce lens fogging, users may also select from two sizes of nosecups and either a SpeeD-ON® Kevlar facepiece harness or traditional rubber harness with a fully adjustable five-point suspension system. For more information, see Bulletin 0505–02–MC.

Ultravue facepiece

Ultra Elite facepiece

Description	Small	Medium	Large.	Government Net Price
Ultra Elite MMR Facepiece w/Firehawk STC Adapter, SpeeD-ON Harness, Nosecup and HUD Bracket. NFPA-compliant.				
Black Hycar	10024421	10024411	10024431	$245.52
Black Silicone	10024425	10024415	10024435	$256.68
Ultra Elite MMR Facepiece w/Firehawk PTC Adapter, SpeeD-ON Harness, Nosecup and HUD Bracket. NFPA-compliant.				
Black Hycar	10035684	10035682	10035686	$245.52
Black Silicone	10035685	10035683	10035687	$245.52
Ultra Elite 1/4-Turn MMR Facepiece w/SpeeD-ON Harness & Nosecup				
Black Hycar	815869	815854	815875	$245.52
Black Silicone	815870	815857	815876	$256.68
Ultravue Facepiece, MMR Pressure Demand, less Nosecup, w/Rubber Head Harness (For Low-Pressure SCBA only)				
Black Hycar	815877	815878	815879	$198.72
Black Silicone	815880	815881	815882	$210.88

Description	Small	Medium	Large	Government Net Price
Ultra Elite Pressure-Demand Facepiece Assembly w/rubber harness	10037650	10037648	10037652	$200.39
Ultra Elite Pressure-Demand Facepiece Assembly w/EZ-Don Harness	10037651	10037649	10037653	$217.09

FACEPIECE ASSEMBLIES FOR AIRHAWK SCBA

Description	Small	Medium	Large.	Government Net Price
Ultra Elite Pressure-Demand Facepiece with Firehawk PTC Adapter, Rubber Head Harness and Nosecup. Not NFPA-compliant.				
Black Hycar Rubber	10037650	10037648	10037652	$207.07
Black Silicone	10041375	10041371	10041379	$207.07

NOSECUPS AND FACEPIECE ACCESSORIES

Description	Small	Medium	Large.	Gov't Net Price
Nosecup, Ultra Elite				
Black Hycar	—	495188	495189	$26.69
Nosecup, Ultravue/Ultra-Twin				
Black Hycar	—	—	471712	$26.69
Black Silicone	813138	813139	813140	$26.69

Description	Part No.	Gov't Net Price
Lens, Ultra Elite	805020	$27.60
Voice Amplifier, ESP, Ultravue	811737	$243.17
Anti-Fog Applique, Ultra Elite, box of 10	10037809	$59.57
Anti-Fog Applique, Ultravue, box of 10	10037810	$59.57

CYLINDERS

Stealth™ Cylinders

Stealth Cylinders are the lightest SCBA air cylinders ever developed by MSA. They feature a unique outerwrap made of lightweight, high-performance carbon fibers, which reduces cylinder weight by two to six pounds when compared to fiberglass-wrapped cylinders and as much as ten pounds when compared to aluminum cylinders. They are available in five models to accommodate a wide range of applications.

Stealth Cylinders

Fiberglass Hoop-Wound Composite Cylinder

Available in a 30-minute low-pressure model, MSA's hoop-wound cylinder features fiberglass wrapping and provides a cost-saving advantage over fully-wound composites. In general, hoop-wound cylinders are three to five pounds heavier than fully-wound fiberglass or carbon-wrapped cylinders.

3AL Cylinder

3AL Cylinder

Less expensive than MSA's Hoop-Wound cylinder, this 30-minute low-pressure cylinder features all-aluminum construction. Because of its weight (approximately 18 pounds), it is designed primarily for customers who don't use an SCBA frequently. The 3AL Cylinder also offers an indefinite service life. Unlike composite cylinders, it does not have to be retired after 15 years of use, provided the cylinder meets the requirements of the hydrotest which must be done every five years.

Fiberglass Hoop-Wound Composite Cylinder

High-Pressure SCBA Cylinders

Description	Part No.	Government Net Price
Stealth, H-30, 4500 psi, Carbon Fiber	807587	$616.68
Stealth, H-45, 4500 psi, Carbon Fiber	807570	$801.99
Stealth, H-45, 4500 psi, Carbon Fiber, Low Profile	10035644	$834.07
Stealth, H-60, 4500 psi, Carbon Fiber	807588	$1,017.99

Low-Pressure SCBA Cylinders

Description	Part No.	Government Net Price
Fiberglass, Hoop-Wound, 30-min., 2216 psi	469619	$428.33
Aluminum, 30-min., 2216 psi	809872	$355.89
Stealth, L30+, 3000 psi, Carbon Fiber	816115	$707.49
Stealth, L30, 2216 psi, Carbon Fiber	807586	$626.05

The cylinders listed above are shipped with air. Unfilled cylinders are available upon request, please contact MSA Customer Service at 866-MSA-1001 for details.

HARNESS & CARRIER ASSEMBLIES AND LUMBAR PADS

Airframe™ Carrier and Harness Assembly

The one component of any SCBA that has the most impact on firefighter comfort is the carrier and harness assembly. MSA is introducing a new carrier and harness assembly that places an emphasis on firefighter comfort while maintaining the robustness and reliability that is expected in the fire service. The Airframe carrier and harness comes standard with large side handles and a central attachment point for pulling firefighters to safety in rescue scenarios. The optional swiveling lumbar pad provides maximum freedom of movement and comfort when crawling or climbing.

The Airframe assembly utilizes the proven pieces from previous generations of Air Masks such as the tunneled shoulder straps for hose containment, and tri-bar slides for easy removal/installation of the waist belt and shoulder straps.

All units are equipped with double-pull waist belts and an optional chest strap is available.

| Description	Part No.	Government Net Price
Airframe for FireHawk Air Masks, double-pull, low-pressure	10046846	$493.43
Airframe for FireHawk Air Masks, double-pull, high-pressure	10046847	$493.43
Standard Lumbar Pad for Airframe Carrier	10011767	$53.03
Swiveling Lumbar Pad for Airframe Carrier	10055350	$59.78
Chest Strap for Airframe Carrier	10012167	$28.78
Vulcan Harness, Single Pull Waist Belt, for Low Pressure MMR SCBA	10005710	$490.98
Vulcan Harness, Single Pull Waist Belt, for High Pressure MMR SCBA	10005711	$490.98
Vulcan Harness, Double Pull Waist Belt, for Low Pressure MMR SCBA	10005788	$508.23
Vulcan Harness, Double Pull Waist Belt, for High Pressure MMR SCBA	10005789	$508.23
Black Rhino Harness and Carrier Assembly, Ultralite 2216 PSI MMR	816487	$533.66
Black Rhino Harness and Carrier Assembly, Custom 4500 PSI MMR	816486	$533.66
Wolverine Harness and Carrier Assembly, Custom 4500 PSI MMR	811186	$408.67
Lumbar Pad, Vulcan Harness	10011767	$53.03
Chest Strap, for use with Vulcan Harness	10012167	$28.78
Lumbar Pad, Black Rhino	817104	$57.01

Airframe™ Carrier & Harness

Vulcan™ Carrier & Harness

Black Rhino™ Carrier & Harness
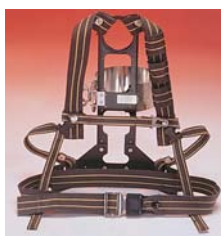
Wolverine™ Carrier & Harness

MSA

HEADS-UP DISPLAY

Nightfighter® Heads-Up-Display

The Nightfighter Heads-Up-Display (HUD) exceeds the latest requirements for firefighting SCBA as specified in NFPA 1981, 2002 Edition that requires all NFPA-complaint SCBA be equipped with at least one heads-up-display.

When you open your Air Mask's cylinder valve, the Nightfighter HUD automatically activates, displaying the cylinder pressure reading in 25% increments. The wireless Nightfighter system consists of three components: a transmitter that mounts on the Air Mask's gaugeline, a facepiece bracket that attaches to the Ultra Elite facepiece, and a receiver that attaches to the facepiece bracket.

Description	Part No.	Government Net Price
NightFighter Receiver Assembly, standard	10037792	$125.23
Nightfighter Bracket	10037791	$15.77
NightFighter Transmitter Assembly, MMR, high-pressure	10036995	$220.40
NightFighter Transmitter Assembly, MMR, high-pressure, with Quick-Fill	10036996	$228.99
NightFighter Transmitter Assembly, MMR, low-pressure	10036997	$220.40
NightFighter Transmitter Assembly, MMR, low-pressure, with Quick-Fill	10036998	$228.99
NightFighter Transmitter Assembly, BMR, high-pressure	10036999	$232.57
NightFighter Transmitter Assembly, BMR, low-pressure	10037001	$232.57

EMERGENCY EGRESS SYSTEM

Rescue Belt

In a continuation of MSA's pursuit of firefighter safety, the Rescue Belt is being introduced to the fire service. This is an NFPA-compliant emergency egress system that is unique to MSA. The belt can be integrated into the carrier and harness assembly of the MSA Vulcan or Airframe Carrier and Harness assemblies. A 50 foot or 75 foot Kevlar line with a descender and caribiner is weaved into the belt to allow a trapped fire fighter to escape to either the ground or to a floor below the fire.

The belt is available in two lengths, standard (54 inches) and long (74 inches).

Description	Part No.	Government Net Price
50' Standard Rescue Belt	10052766	$297.97
50' Long Rescue Belt	10052767	$312.24
75' Standard Rescue Belt	10052768	$366.27
75' Long Rescue Belt	10052769	$380.55

PASS AND REDUNDANT ALARM SYSTEMS FOR MMR SCBA

ICM® 2000/ICM 2000 Plus Combination PASS & Redundant Alarm

The ICM 2000 and ICM 2000 Plus are Integrated Computer Modules designed to meet the new NFPA-1982, 1998 Edition PASS standard and NFPA-1981, 1997 Edition SCBA requirements for redundant End-of-Service Time Indicators (EOST). The ICM 2000 is an all-in-one combination PASS and redundant alarm module; the ICM 2000 Plus adds a built-in computer system that digitally displays SCBA performance information and features an optional PC downloading kit.

ICM 2000 and ICM 2000 Plus PASS

DragonFly® PASS Units

The DragonFly PASS from MSA was among the first PASS devices designed to meet the stringent NFPA-1982, 1998 Edition standard. The DragonFly PASS exceeds the standard by offering a range of pre-alarm volumes and tones to help users avoid unnecessary progression to full alarm.

Redundant Alarm

The NFPA requires two low-pressure warning indications for SCBA to comply with NFPA-1981, 1997 Edition. When you open your Air Mask's cylinder valve, the Redundant Alarm activates, displaying pressure readings through an analog gauge. The Redundant Alarm is low-profile and easily accessible.

DragonFly® PASS & Redundant Alarm

ICM 2000 Plus PASS Units

Pressure	Thermistor Inactivated*	Gov't Net Price	Thermistor Activated*	Gov't Net Price
4500	10019875	$720.57	10019876	$720.57
2216	10019877	$720.57	10019878	$720.57
3000	10047992	$720.57	10047993	$720.57

ICM 2000 PASS Units

Pressure	Without Thermistor	Gov't Net Price	With Thermistor	Gov't Net Price
4500	10019857	$557.47	10019858	$578.92
2216	10019859	$557.47	10019870	$578.92
3000	10047960	$578.92	10047991	$557.47

* Using the PC Kit, the thermistor can be activated by the user.

Description	Part No.	Gov't Net Price
ICM 2000 Plus PC Kit, includes software and Jeteye reader	10020979	$227.31
DragonFly® Self-Activating (SA) PASS Units, without Thermal Sensor, MMR	10005072	$151.52
DragonFly® Self-Activating (SA) PASS Units, with Thermal Sensor, MMR	10005071	$164.64
Redundant Alarm Kit for 4500 psig MMR+	10009771	$189.42
Redundant Alarm Kit for 2216 psig MMR+	10009770	$189.42
Rubber Gauge-Line Tether	10016029	$2.70

+ The redundant alarm can be purchased separately with or without an integrated pass (IP) device. These redundant alarms are to be used with SCBA manufactured after December 1, 1999. If adding a redundant alarm to an SCBA built before December 1, 1998, you must also buy one of the four Dragonfly IP kits listed above. Redundant alarms are not compatible with old IP devices.

EMERGENCY BREATHING SYSTEMS

MMR SCBA Cylinder Refilling System: The Quick-Fill® System

(see Data Sheet 01-00-11)

The patented **Quick-Fill System** lets MMR Air Mask users refill and transfill air cylinders while the SCBA is worn, without removing the air cylinder—even in IDLH atmospheres. Use this MSA-exclusive option to:

- Fill an SCBA cylinder from a mobile compressor or cascade system in less than a minute.
- Transfill between two cylinders, providing an Emergency Breathing System.
- Extend the air supply over longer durations, using a remote compressed air source.

Because performance is not affected, MSA air masks retain NIOSH certification during use of the Quick-Fill System.

The Quick-Fill System uses a special adapter assembly; MMR units have a junction block and fitting installed on the gauge line. A Quick-Fill hose with a quick-disconnect connects the air source to the adapter for air transfer.

Quick-Fill System

Description	Part No.	Government Net Price
Quick-Fill, Shoulder, Ultralite 2216 psi for units purchased after 12/98	10020382	$221.36
Quick-Fill, Shoulder, Custom 4500 psi for units purchased after 12/98	10020383	$200.85
Quick-Fill Adapter Block only for shoulder-mounted units purchased after 12/98	10020515	$30.64
Quick-Fill, Shoulder, Ultralite 2216 psi for units purchased before 12/98	495172	$221.43
Quick-Fill, Shoulder, Custom 4500 psi for units purchased before 12/98	495173	$201.43

Description	Part No.	Government Net Price
Quick-Fill, Waist, Ultralite 2216 psi	494963	$307.70
Quick-Fill, Waist, Custom 4500 psi	494962	$263.54
Quick-Disconnect, Male, Stainless Steel	485391	$176.00
Quick-Disconnect, Female, Stainless Steel	485392	$176.00
EEBSS Hose Package	485366	$372.89
Transfill Hose less Pouch	485331	$358.60
Pouch	485390	$33.35

Quick-Fill Hoses	25 ft Part No.	25 ft Gov't Net Price	12 ft Part No.	12 ft Gov't Net Price	10 ft Part No.	10 ft Gov't Net Price	8 ft Part No.	8 ft Gov't Net Price	6 ft Part No.	6 ft Gov't Net Price	3 ft Part No.	3 ft Gov't Net Price
FQD x FQD	485332	$592.79	802690	$582.85	802689	$565.29	802688	$525.94	802687	$496.21	485331	$358.60
FQD x CGA-347 Outlet	487907	$538.94	802677	$492.47	802675	$451.39	802673	$439.01	802671	$389.66	492796	$287.27
FQD x CGA-347 CN	487909	$538.94	802685	$492.47	802683	$451.39	802681	$439.01	802679	$389.66	487427	$284.41
FQD x SAE-4	487906	$510.71	802704	$465.75	802703	$453.63	802702	$440.49	802701	$363.10	802705	$278.31
FQD x CGA-346 Outlet	487908	$538.94	802678	$492.47	802676	$451.39	802674	$439.01	802672	$389.66	492797	$287.27
FQD x CGA-346 CN	487910	$538.94	802686	$492.47	802684	$451.39	802682	$439.01	802680	$389.66	487428	$284.41

The ExtendAire™ System

The ExtendAire System can be used as both an emergency breathing system and a dual-purpose device for an MMR SCBA to allow firefighters to quickly and easily connect to an air line.

Description	Part No.	Gov't Net Price
ExtendAire Kit, Single quick-disconnect	812956	$205.20
ExtendAire Kit, Double quick-disconnect	812955	$328.32
ExtendAire Air-line Hose	812958	$191.52
40" Rescue Hose	812973	$269.04

RescueAire™ II Portable Air-Supply System

The RescueAire IIPortable Air Supply System is designed to meet the needs of Rapid Intervention Teams (RITs). The system consists of a lightweight Stealth™ cylinder, Quick-Fill® emergency breathing system, ExtendAire™ emergency breathing system, and an MMR regulator, supported by a heat- and flame-resistant harness. The RescueAire is a complete system that can provide emergency breathing air for most any victim.

The RescueAire II System is available in both low-pressure (2216 psig) and high-pressure (4500 psig) versions. An optional-use shoulder strap is also provided for hands-free carrying.

Description	Part No.	Government Net Price
RescueAire II with L-30 Cylinder	10025491	$2,237.39
RescueAire II with H-60 Cylinder	10025462	$2,793.72

MSA

APR ADAPTER

MSA's new APR adapter provides firefighters with the versatility they need to perform all tasks at the fire ground with one common facepiece. From fire-fighting to overhaul to defense preparedness, firefighters can switch from a positive-pressure facepiece to a negative-pressure air purifying respirator simply by engaging the APR Adapter. The APR Adapter uses MSA's comprehensive family line of air-purifying cartridges; select from the Advantage 200 or Comfo line of cartridges to protect against a multitide of airborne contaminants.

The APR Adapter is designed for use in non-IDLH environments and is NIOSH-approved. Contact MSA for more information.

Description	Part No.	Government Net Price
APR Adapter for Firehawk PTC MMR	10040052	$91.19
APR Adapter for Firehawk PTC MMR, truck kit	10040054	$484.37
APR Adapter for Firehawk PTC MMR, individual kit	10040055	$121.09
APR Adapter for Firehawk STC MMR	10032511	$89.45
APR Adapter for Firehawk STC MMR, truck kit	10032925	$475.14
APR Adapter for Firehawk STC MMR, individual kit	10032927	$118.78
APR Adapter for 1/4-turn MMR	10029823	$85.91
APR Adapter for 1/4-turn MMR, truck kit	10032924	$475.14
APR Adapter for 1/4-turn MMR, individual kit	10032926	$118.78

APR Adapter

PROCHECK ACCESSSORIES

Description	Part No.	Gov't Net Price
CD-Rom Application Software v.3.02P	10042565	$444.65
CD-Rom Application Software, MSD Minder	10042566	$545.39
ProCheck 3 Kit, without software	10042824	$213.99

UPGRADE KITS

3000 psi FireHawk Upgrade Kits For 2002 Edition Compliance

MSA also offers upgrades for NFPA 1981–1997 compliant 3000 psi operating system SCBA to meet the requirements for 2002 compliance. The upgrade kits listed below provide the necessary components such as the Heads-Up Display and Audi-Larm with Universal Rescue Connection (URC).

Description	For Air Mask with Vulcan Carrier & Harness		For Air Mask with Black Rhino Harness	
	Part No.	Gov't Net Price	Part No.	Gov't Net Price
No ICM	10053647	$822.92	10053642	$698.13
ICM 2000 with Thermistor	10053617	$1,359.16	10053643	$1,413.12
ICM 2000 less Thermistor	10053618	$1,359.16	10053644	$1,413.12
ICM 2000 Plus with Thermistor	10053619	$1,389.51	10053645	$1,595.24
ICM 2000 Plus less Thermistor	10053620	$1,389.51	10053646	$1,595.24
Dragonfly® PASS (includes split-gauge hose kit)	10053641	$961.19	10053616	$1,123.08

Spare Facepiece Upgrade Kits

Ultra Elite®, Hycar with Type of Head Harness in Use	Type of Firehawk MMR Being Ordered	Kits to be Ordered			
		Head Harness/ CBRN Label Kit		Facepiece Kit	
		Part No.	Gov't Net Price	Part No.	Gov't Net Price
5-Point SpeeD-ON or Rubber	Slide-to-Connect	♦ 10053064	$50.17	♦ 10028600	$14.72
5-Point SpeeD-ON or Rubber	Push-to-Connect	♦ 10053064	$50.17	♦ 10038664	$14.72
4-Point SpeeD-ON	Slide-to-Connect	♦ 10053063	$1.85	♦ 10028600	$14.72
4-Point SpeeD-ON	Push-to-Connect	♦ 10053063	$1.85	♦ 10038664	$14.72
5-Point SpeeD-ON or Rubber	Already Using Firehawk MMR	♦ 10053064	$50.17		
4-Point SpeeD-ON or Rubber	Already Using Firehawk MMR	♦ 10053063	$1.85		
If the facepiece you are currently using does not meet the criteria above, you must order from the chart below for spare facepieces.					

♦ Kit includes the 4-point SpeeD-ON Head Harness and the CBRN Approval label

♦ Kit includes the CBRN Approval Label

♦ Kit includes the necessary parts to convert an existing 1/4 Turn Ultra Elite Facepiece to a Slide-to-Connect Firehawk Facepiece

♦ Kit includes the necessary parts to convert an existing 1/4 Turn Ultra Elite Facepiece to a Push-to-Connect Firehawk Facepiece

Ultra Elite® MMR Facepiece with Slide-to-Connect Adapter, SpeeD-ON Head Harness and Nosecup			Ultra Elite® MMR Facepiece with Push-to-Connect Adapter, SpeeD-ON Head Harness and Nosecup		
Size	Part No.	Gov't Net Price	Size	Part No.	Gov't Net Price
Small	10024421	$245.52	Small	10035684	$245.52
Medium	10024411	$245.52	Medium	10035682	$245.52
Large	10024431	$245.52	Large	10035686	$245.52

Note: To ensure the proper function of your SCBA, only MSA authorized C.A.R.E. facilities should be installing upgrade kits. To find the nearest C.A.R.E. facility, contact your local MSA distributor or MSA Customer Service Center at 1.877.MSA.FIRE.

Firefighting and Rescue Equipment from MSA

AIRHAWK AIR MASK ASSEMBLIES

Description	Part No.	Government Net Price
Pressure Demand AirHawk MMR, 4500 psig	10043200	$1,274.17
Pressure Demand AirHawk MMR, 2216 psig	10043201	$992.55
Pressure Demand AirHawk MMR, 2216 psig	10043202	$928.42
Pressure Demand AirHawk MMR, 2216 psig	10043203	$1,166.47

Description	Part No.	Government Net Price
Pressure Demand AirHawk MMR, 2216 psig	10043204	$1,230.60
Pressure Demand AirHawk MMR, 2216 psig	10043205	$1,207.36

AirHawk SCBA Accessories

Description	Part No.	Gov't Net Price
Shoulder Pad	10037253	$28.34
Shoulder Strap, nylon	10037254	$15.28
Shoulder Strap, Kevlar	10037255	$27.79
Pull Strap, left side, nylon	10037256	$9.03
Pull Strap, left side, Kevlar	10037257	$38.21
Pull Strap, right side, nylon	10037258	$9.03
Pull Strap, right side, Kevlar	10037259	$38.21
Cylinder Strap, nylon	10037271	$3.47
Cylinder Strap, Kevlar	10037272	$13.20
Cylinder Buckle Loop Strap, Kevlar	10037273	$6.95

Description	Part No.	Gov't Net Price
Carrier Assembly w/nylon cylinder strap	10037274	$67.39
Carrier Assembly w/Kevlar cylinder strap	10037275	$80.59
Carrier/Harness Assembly, nylon	10037276	$145.21
Carrier/Harness Assembly, Kevlar	10037277	$246.64
Whistle Manifold Assembly, 2216 psig	10037782	$99.35
Whistle Manifold Assembly, 4500 psig	10037783	$99.35
Chest Strap, male, nylon	10037900	$4.92
Chest Strap, female, nylon	10037901	$4.92
Whistle Alarm, 2216 psig	10039397	$72.94
Whistle Alarm, 4500 psig	10039398	$72.94

BLACKHAWK SCBA ACCESSORIES

Description	Part No.	Gov't Net Price
BlackHawk Cover Assembly	10026139	$9.25
Shroud for 2216 psig 30' Carbon Cylinder	10041062	$180.63
Shroud for 4500 psig 30' Carbon Cylinder	10041063	$180.63
Shroud for 4500 psig 45LP Carbon Cylinder	10041065	$180.63
Shroud for 4500 psig 60' Carbon Cylinder	10041066	$180.63
Shroud for BlackHawk Transmitter Assenbly	10043410	$30.87
Shroud for BlackHawk Transmitter Assenbly with Quick-Fill	10043411	$37.86

2002 NFPA AUDI-LARM™ ASSEMBLIES

Description	Part No.	Gov't Net Price
For MMR Air Masks		
Low-Pressure, w/o Quick-Fill	10038105	$189.63
Low-Pressure, w/Quick-Fill	10037310	$379.27
High-Pressure, w/o Quick-Fill	10038107	$189.63
High-Pressure, w/Quick-Fill	10037312	$379.27
For BMR Air Masks		
Low-Pressure, w/o Quick-Fill	10038106	$193.21
Low-Pressure, w/Quick-Fill	10037311	$382.85
High-Pressure, w/o Quick-Fill	10038108	$193.21
High-Pressure, w/Quick-Fill	10037313	$382.85

AUDI-LARM™ ASSEMBLIES

Description	Part No.	Gov't Net Price
For Ultralite MMR with Vulcan Carrier	10012995	$306.44
For Ultralite MMR with Black Rhino Carrier	488897	$299.62
For Custom 4500 MMR with Vulcan Carrier	10012996	$292.91
For Custom 4500 MMR with Black Rhino Carrier	485851	$298.54

VARIOUS MMR SCBA ACCESSORIES, SPARE PART/ TOOL/ OVERHAUL KITS, TEST EQUIPMENT

Description	Part No.	Gov't Net Price
Video Tape, Proper Care & Use of Ultralite MMR & Custom 4500 SCBA	696838	$35.73
Walkaway Mounting Bracket for Ultralite or Custom 4500 (MMR or BMR) Air Masks with 30-minute cylinder	39851	$126.84
Wall-Mounted Case for Ultralite II & Ultralite MMR, 30-minute	695308	$458.03
High-Pressure Filling Hose Assembly	476105	$472.53

Accessories for Filling Low-Pressure (2216 psig) Cylinders

Description	Part No.	Gov't Net Price
Air Outlet Connection, complete w/ Gauge	68846	$107.79
Air Coupler Tee	68850	$59.27
Air Pigtail	68851	$79.18
Low-Pressure Air-Filling Hose, 5 feet long	476156	$165.73

Description	Part No.	Government Net Price
Level I Spare Parts Kit - MMR	497705	$176.82
Level II Spare Parts Kit - MMR, Custom 4500	494710	$1,043.79
Level III Spare Parts Kit - MMR, Custom 4500	494712	$1,560.30
Level I Tool Kit - MMR	494352	$1,350.30
Level I Tool Kit - MMR, less lubricants and adhesives	497704	$84.95
Level II Tool Kit - MMR	494353	$1,032.55
Level III Tool Kit - MMR	494422	$351.12
Overhaul Kit, MMR, Second Stage	800632	$97.27
Overhaul Kit, MMR, First Stage	800633	$49.64
Overhaul Kit, MMR, Audi-Larm	800634	$14.24
Audi-Larm Test Manifold	10045522	$181.45
Audi-Larm Maintenance Kit	10045831	$10.37

CBRN ULTRA ELITE® GAS MASK

Firefighters do not always need SCBA protection, especially outside the immediate fire scene. Once the hazard has been assessed, air-purifying respirators (APR) may make the most sense for low concentrations of certain contaminants. With the new Ultra Elite CBRN Gas Mask, your department benefits from using a common platform facepiece for both APR and SCBA applications, allowing standardized training and eliminating redundant fit-testing.

APR and SCBA facepieces should not be used interchangeably. For that reason, MSA is introducing the Ultra Elite CBRN Gas Mask for use in the fire service and to first responders. The facepiece has been trusted in the fire service for more than 10 years. In that time, the Ultra Elite has been field-proven to provide firefighters with exceptional fit, comfort, and value.

The MSA CBRN Canister meets or exceeds all performance requirements of the new NIOSH CBRN Standard by effectively removing harmful gases, vapors, and particulates so that the user can confidently breathe safely. The canister contains chemical sorbents and a P100 filter to attract, retain, and neutralize contaminants.

Safety
- Super-soft black Hycar rubber exceeds the CBRN permeation requirements
- Large lens with 83% unimpeded vision
- Centrally located inlet port for secure, comfortable fit and feel
- Centrally located mechanical speaking diaphragm for clear communications
- Optional ClearCommand® Amplifier for increased communication capabilities

Simplicity
- Available with a 5-point rubber or SpeeD-ON® head harness
- Identical sealing surfaces for both SCBA and Gas Mask facepieces—eliminating the need for redundant fit testing
- Simplifies respiratory protection training program

Reliability
- The Ultra Elite facepiece is fire-service proven, with over a decade of trusted use
- MSA has been making gas masks since World War I
- Largest supplier of gas masks to the law enforcement market

Description	Small	Medium	Large	Gov't Net Price
Ultra Elite Hycar Gas Mask with rubber Head Harness	10052776	10052781	10052778	$154.56
Ultra Elite Hycar Gas Mask with SpeeD-ON Head Harness	10052780	10052779	10052777	$180.75

Description	Part No.	Gov't Net Price
MSA CBRN Canister	10046570	$29.47

Field Maintenance and Repair

The World Class Air Mask Maintenance Training Program

MSA offers a complete program for maintenance and repair of MSA Air Masks.

The program is supported with personalized training tailored to customers' needs and taught in the field by MSA-authorized personnel.

User maintenance covers procedures necessary to conduct general cleaning, inspection, and limited maintenance in accordance with the Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA), and the American National Standards Institute (ANSI) standards.

C.A.R.E. Certified Air Mask Repair Education covers all maintenance for both low- and high-pressure SCBA. Air Mask inspection and maintenance can be performed by MSA or a factory-authorized service center. Or, individuals can obtain training for C.A.R.E certification from MSA. By having a C.A.R.E-certified technician on staff, fire departments and other facilities with a large number of Air Masks can perform all inspection and maintenance in-house.

- **All repairs and maintenance can be done in the field.**
- **A selection of overhaul kits, spare parts, and tool kits is available.**
- **Users may conduct periodic performance testing using an authorized MSA regulator tester.**

Certified AirMask Repair MSA Education

CLEARCOMMAND® HCS HELMET COMMUNICATION SYSTEM

(See Bulletin 3639-01-MC)

The Helmet Communication System from MSA is a state-of-the-art radio interface device which significantly improves the user's ability to receive and send messages even in loud ambient-noise environments. It goes wherever you go. The system consists of a helmet-mounted microphone and ear speaker assembly that weighs 5.3 ounces and easily snaps onto the user's fire helmet or industrial-style helmet's ratchet suspension. The helmet mic/ear speaker assembly connects to a lapel microphone or optional stand-alone PTT (push-to-talk) unit. The lapel microphone and PTT are permanently fitted with a connector for attachment to the specific radio of choice.

The Helmet Communication System also offers a plug-in truck communication adapter that can be used by firefighters, along with their helmet microphone assembly, on the way to a fire scene or other incident. Once the firefighter arrives at the scene, the truck system cable is unplugged from the helmet microphone, and the helmet microphone cable end is connected to the user's lapel mic or PTT.

The user of the Helmet Communication System has uninterrupted communication from the time the alarm sounds until the incident is over.

**Helmet Mic with
Stand-Alone PTT**

**Helmet Mic
with Lapel Mic**

Description	Part No.	Government Net Price
Helmet Microphone Assembly		
Helmet Microphone Assembly (includes Custom Fitted Flannel Headband Liner)	10042902	$154.11
Lapel Mic Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10042908	$414.97
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10042909	$368.18
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10042903	$361.12
Motorola Astro and Saber	10042904	$404.66
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10042905	$287.93
GE Ericsson PCS, PC2005	10042906	$650.42
GE Ericsson MRK, LPE-200, Prism, PX 126T	10042907	$567.23
Stand-Alone PTT Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10045667	$366.26
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10045668	$319.47
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10045662	$312.43
Motorola Astro and Saber	10045663	$357.36
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10045664	$239.21
Motorola STX, MX800, MX840	10045669	$444.17
GE Ericsson PCS, PC2005	10045665	$601.71
GE Ericsson MRK, LPE-200, Prism, PX 126T	10045666	$518.52
Truck System		
Nexus Adapter, D. Clarke	10045732	$170.99
Phonejack Adapter, D. Clarke	10045731	$170.99
Parts and Accessories		
Dust Cover	10046087	$10.83
Guard Ring, Tall	10046123	$1.96
Guard Ring, Short	10046122	$1.96
Belt Clip Assy, Standard	10046089	$18.99
Belt Clip Assy, Clothes Pin Type	10046120	$25.92
O-Ring, Single Pin Connector	10046121	$7.53
Flannel Head Band Liner	10045778	$3.44
Belt Clip Assy, Standard	10046089	$18.99
Belt Clip Assy, Clothes Pin Type	10046120	$25.92
Flannel Head Band Liner	10045778	$3.44
Remote Finger PTT	10046574	$147.35
Instructions	10046197	$6.55

*If your specific radio is not listed above, please contact MSA Customer Service.

Features & Benefits

- Incorporates a "noise-eliminating" bone-conduction voice transmitter that virtually eliminates high ambient noise levels.

- Custom user-fitted ear speaker brings all incoming communication directly to the user's ear. No need to lift your lapel mic up to your ear to hear transmission.

- Easily snaps onto the ratchet suspension of fire helmets or industrial-style helmets (Wildland). The unit can be easily transferred to other users, and no tools are required for removal.

- Can be used over the top of facepiece head harnesses, hoods and liners without losing the quality of the transmission.

- The bone-conduction microphone is made of soft silicone material, which makes it comfortable to wear, with no pressure points.

- The helmet microphone assembly can be reversed on the helmet suspension to position the ear speaker on either ear.

- The helmet mic system, when used with the lapel mic or PTT, is powered by the battery from the radio. No need to replace or re-charge dry cells.

- Special connectors suitable for most common radios are available for the lapel microphone and PTT, which allows users to adapt the system to their existing radios.

- The helmet mic is NFPA-certified which allows its use while fighting fires.

- Intrinsic safety approvals allow the use of the helmet communication system in hazardous environments.

- The stand-alone PTT unit is designed for use under hazardous material suits. The large button makes it easy for the user to depress and communicate.

- The helmet mic incorporates a cable keeper which allows for storage of the cable when it's not connected to the lapel mic or PTT.

CLEARCOMMAND™ COMMUNICATIONS SYSTEM FOR ULTRA ELITE® FACEPIECES

MSA's ClearCommand Communications System is designed specifically to meet the modern communications needs of firefighters. Because it's available in two versions, amplifier and amplifier with radio interface, firefighting teams can be properly fitted for the job at hand. Also, the systems are designed for "shared-use" of the amplifier with a unique "bus-bar" arrangement, so individual issue is not required.

The ClearCommand systems feature an internally mounted microphone coupled with a large-diameter (50mm) amplifier speaker for optimal clarity and volume. Using a patented circuit design, the system delivers more than twice the volume of a facepiece alone. Mounted in an "out-of-the-way" position, the ClearCommand System doesn't block vision or mechanical communication. The Ultra Elite's mechanical voicemitter is still fully functional, even with the system installed.

The radio interface version features the same amplifier as the amp-only version, combined with an ear-speaker for incoming radio messages and a lapel mic assembly for interface with over 100 radios. The lapel mic can be used as a component of the Clear Command system or as a stand-alone hand mic.

Both the amplifier and radio interface models are intrinsically safe, and meet the applicable requirements of NIOSH and NFPA 1981, 1997 edition.

Clear Command Communications System

Description	Part No.	Government Net Price
Amplifier Kit, complete with microphone	10024074	$242.52
Amplifier Radio Interface Kit, complete with microphone, less PTT	10051290	$353.39
Microphone Kit, with mounting bracket	10023055	$91.62
Amplifier Kit, less mic and bracket	10023056	$159.49
Voicemitter Assembly	10024076	$83.08
Mounting Bracket	10024077	$21.91
Lapel Mic Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10042908	$414.97
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10042909	$368.18
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10042903	$361.12
Motorola Astro and Saber	10042904	$404.66
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10042905	$287.93
Motorola STX, MX800, MX840	10045669	$444.17
GE Ericsson PCS, PC2005	10042906	$650.42
GE Ericsson MRK, LPE-200, Prism, PX 126T	10042907	$567.23
PTT Lapel Mic Kits for Radio Interface*		
Motorola HT1000, JT1000, MT2000, MTS2000, MTX838, MTX2000, MTX8000, MTX9000 Transcrypt Stealth, GP900, XTS3000, XTS3500, and MTX	10025553	$367.27
Motorola Astro and Saber (hardwired)	10025554	$424.31
Motorola Radius GP300, P1225, GTX, P110,SP10, SP50, SP21, LTS2000, and Spirit-III	10025556	$292.23
GE Ericcson PCS and PC2005	10025557	$663.74
GE Ericcson MRK, LPE-200, Prism, and PX126T	10025558	$578.49
MAXON SP120, SP130, and SP140	10025559	$422.46
Motorola HT600, HT800, HT810, HT820, MT1000, MTX800, MTX810, MTX900, MTX900S, and P200	10025580	$374.50
Motorola MX800, MX840, and STX Series	10025581	$515.93
Stand-Alone PTT Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10045667	$366.23
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10045668	$319.47
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10045662	$312.43
Motorola Astro and Saber	10045663	$357.36
Motorola Radius GP300, P110, SP50, LTS2000,Spirit-III, GTX, SP21	10045664	$239.21
Motorola STX, MX800, MX840	10045669	$444.17
GE Ericsson PCS, PC2005	10045665	$601.71
GE Ericsson MRK, LPE-200, Prism, PX 126T	10045666	$518.52

* If your specific radio is not listed, please contact MSA Customer Service.

Radio Interface

ESP COMMUNICATIONS SYSTEM FOR ULTRAVUE FACEPIECES

Description	Part No.	Gov't Net Price
Voice Amplification Kit for Ultravue	811737	$234.17

Firefighting and Rescue Equipment from MSA

Ultralite II BMR SCBA with Dragon Fly PASS and Remote Alarm

SCBA CYLINDERS FOR BMR AIR MASKS
For SCBA cylinders, see p. 88.

BMR SCBA FACEPIECES

(see Data Sheet 01-00-11)

Description	Small	Medium	Large	Gov't Net Price
Ultravue, black Hycar	801450	801448	801452	$210.40
Ultravue, black silicone	801456	801454	801458	$223.29
Ultra Elite, black Hycar	805327	492006	805331	$245.52
Ultra Elite, black silicone	493316	493196	493436	$256.68

BMR SCBA CYLINDER REFILLING SYSTEM: QUICK-FILL

(see Data Sheet 01-00-11)

Description	Part No.	Gov't Net Price
Adapter Assembly, QuickFill, Ultralite II, BMR	485417	$227.06
Adapter Assembly, QuickFill, Custom 4500, BMR	485416	$211.54
Quick-Fill Hose with two female QDs	485332	$592.79
Adapter, female QD/CGA-347 outlet	487907	$538.94
Adapter, female QD/CGA-347 coupling nut	487909	$538.94
Hose & Adapter, female QD/CGA-347 outlet	487908	$538.94
Hose & Adapter, female QD/CGA-347 coupling nut	487910	$538.94

BMR REGULATORS

Description	Part No.	Gov't Net Price
for Ultralite II BMR		
Regulator	803146	$870.95
Regulator, Dual Purpose, Foster	803152	$957.60
Regulator, Dual Purpose, Hanson	803154	$966.72
for Custom 4500 II BMR		
Regulator	803144	$930.23
Regulator, Dual Purpose, Foster	803148	$1,025.99
Regulator, Dual Purpose, Hanson	803150	$1,039.67

CARRIER & HARNESS ASSEMBLIES FOR BMR SCBA

Description	Part No.	Gov't Net Price
for Ultralite II BMR		
Black Rhino	816489	$533.66
Wolverine	807819	$408.67
Vulcan, Single Pull	10005712	$490.98
Vulcan, Double Pull	10005713	$490.98
for Custom 4500 II BMR		
Black Rhino	816488	$533.66
Wolverine	809232	$408.67
Vulcan, Single Pull	10005714	$490.98
Vulcan, Double Pull	10005715	$490.98

AUDI-LARM ASSEMBLIES FOR BMR SCBA

Description	Part No.	Gov't Net Price
for Ultralite II BMR		
Audilarm	807492	$279.83
Audilarm, for Vulcan Carrier/Harness	10013339	$296.21
for Custom 4500 II BMR		
Audilarm	807494	$279.83
Audilarm, for Vulcan Carrier/Harness	10013338	$292.91

PERSONAL ALERT SAFETY SYSTEMS (PASS) AND REDUNDANT ALARMS FOR BMR SCBA

Description	Part No.	Gov't Net Price
for Ultralite II BMR		
ICM 2000, without Thermistor	10019873	$557.47
ICM 2000, with Thermistor	10019874	$578.92
ICM 2000 Plus, with Thermistor Inactivated*	10019881	$720.57
ICM 2000 Plus, with Thermistor Activated*	10019882	$720.57
PC Kit, includes software and Jeteye reader	10020979	$227.31
Redundant Alarm **	10013249	$422.08
for Custom 4500 II BMR		
ICM 2000, without Thermistor	10019871	$557.47
ICM 2000, with Thermistor	10019872	$578.92
ICM 2000 Plus, with Thermistor Inactivated*	10019879	$720.57
ICM 2000 Plus, with Thermistor Activated*	10019880	$720.57
PC Kit, includes software and Jeteye reader	10020979	$227.31
Redundant Alarm **	10013300	$422.08

* Using the PC Kit, the thermistor can be activated by the user.

** The redundant alarm can be purchased separately with or without an integrated pass (IP) device. These redundant alarms are to be used with SCBA manufactured after December 1, 1999. If adding a redundant alarm to an SCBA built before December 1, 1998, you must also buy one of the two Dragonfly IP kits listed above. Redundant alarms are not compatible with old IP devices.

OTHER BMR SCBA SPARE PARTS & ACCESSORIES

Description	Part No.	Gov't Net Price
High Pressure Hose, BMR	804384	$54.81
Breathing Tube, standard	801165	$49.23
Breathing Tube, wire-reinforced	803433	$62.68
Breathing Tube, DIN threaded	803506	$48.95
Neck Strap, PBI	801156	$12.38
Head Harness, Rubber, Ultravue	817263	$20.46
Head Harness, Rubber, Ultra Elite	817262	$20.46
Walkaway Wall Storage Bracket	39851	$126.84
Wall Case, Ultralite II	695308	$458.03

MSA

Firefighting and Rescue Equipment from MSA

SIGHTGARD® SINGLE LENS GOGGLES

(See Data Sheet 03-00-06)

Softframe Single Lens Goggles

Softframe Goggles effectively fit most facial contours. Large, one-piece, .060-inch-thick polycarbonate lens provides wide, undistorted field of vision. Optional Anti-Fog Coated Lenses are available for work involving high humidity, temperature changes or greater worker exertion. The scratch-resistant coating is unaffected by most organic solvents, ammoniacal and alkaline detergents.

Approvals

Softframe, Wide Vision, Wide Vision Chemical Splash, Respirator, and Rubber Frame Goggles by MSA meet all applicable requirements of ANSI Z87.1.

Frame Color	Frame Style	Lens Type	Headband	Part No.	Gov't Net Price
Clear	Perforated	Standard	Elastic	695847	$3.71
Clear	4-Vent	Standard	Elastic	695848	$3.08
Clear	Nonvented	Standard	Elastic	695849	$3.71
Clear	Perforated	Anti-Fog	Elastic	695850	$3.50
Clear	4-Vent	Anti-Fog	Elastic	695851	$3.91
Light Green	4-Vent	Anti-Fog Lt. Green	Elastic	695867	$3.91
Clear	Nonvented	Anti-Fog	Elastic	695852	$3.50
Clear	4-Vent	Anti-Fog	Rubber	697292	$4.33

Wide-Vision Goggles

Rugged Wide-Vision Goggles have a 0.06-inch-thick polycarbonate lens and 17 vent slots under the rim to allow more air movement. Anti-fog lenses are also available.

Frame Color	Frame Style	Lens Type	Headband	Part No.	Gov't Net Price
Clear	Clear	Standard	Rubber	791081	$12.02
Clear	Clear	Anti-Fog	Rubber	460238	$13.22

Wide-Vision Chemical Splash Goggles

These goggles feature a special polyurethane foam filter under the rim and 17 fog-inhibiting vent slots to provide ventilation. Goggles feature a .060-inch-thick clear poly-carbonate lens. Rubber headband is standard. No metal parts. MSA also makes Wide-Vision Chemical Splash Goggles with a bright yellow rim that is easy to identify and gives added warning in hazardous areas.

Description	Part No.	Gov't Net Price
Wide-Vision/Wide-Vision Chemical Splash Goggles Replacement Lens, clear, anti-fog	448872	$5.64

Respirator Goggles

Softframe 4-vent Respirator Goggles by MSA are specially constructed to wear with MSA respirators and have a .060-inch-thick anti-fog clear lens.

Frame Color	Frame Style	Lens Type	Headband	Part No.	Gov't Net Price
Clear	4-vent	Anti-fog	Elastic	461027	$10.14

Description	Part No.	Gov't Net Price
Respirator Goggles Replacement Lens, clear, anti-fog	461032	$3.71

EYEWEAR CLEANING ACCESSORIES

Description	Part No.	Government Net Price
Small Disposable Eyewear Cleaning Station	10022086	$4.06
Large Disposable Eyewear Cleaning Station	10022085	$7.72
Pre-Moistened Towelettes (box of 100)	10022087	$5.29
4 oz. Fogpruf™ Cleaner Refill	13016	$3.57
Optical Wiping Tissues, refill (case of 60 boxes)	33039	$134.64
Spray Cleaner, 16-oz bottle	10024116	$2.11
Spray Cleaner, 8-oz bottle	10024117	$1.98

Softframe Perforated Single Lens Goggles

Softframe 4-Vent Single Lens Goggles

Wide-Vision Goggles

Wide-Vision Chemical Splash Goggles

Respirator Goggles

Rubber Frame Goggles

UV Goggles

Wire Screen Goggles

Rubber Frame Goggles

For use where fine dust in high-velocity concentration is a problem and where minor impact hazards exist.

Frame Color	Frame Style	Lens Type	Headband	Part No.	Gov't Net Price
Black	Indirect	Acetate	Rubber	791072	$13.37

UV Goggles

MSA also offers a special UV-resistant Softframe Goggle. The lens transmits less than .0012% below 400 nanometers. Above 400 nanometers (visible range), it transmits approximately 90% of the available light.

Frame Color	Frame Style	Lens Type	Part No.	Gov't Net Price
Light Green	4-Vent	Anti-Fog	695869	$4.89

Wire-Screen Goggles

Frame Color	Frame Style	Lens Type	Headband	Part No.	Gov't Net Price
Clear	Nonvented	Wire	Elastic	695932	$4.17

SOUND™
CONTROL

PASSIVE HEARING PROTECTION

Guarding workers against the daily hazards of noise is of paramount concern in countless industries. The challenge is to balance personal attenuation devices with comfort. A worker who takes off hearing protection to rub sore ears is a worker at risk. MSA provides a wide selection of hearing protection designed for the most demanding applications, offers protection with a variety of Noise Reduction Ratings, and does it with the benefits of style and comfort. Noise Reduction Rating (NRR) is third-party certified in accordance with ANSI S3.19-1974, EN352 and meets CSA Class A. Cap Model Noise Reduction *Ratings listed below are for medium V-Gard helmets only. Noise Reduction Rating and Attenuation Values for MSA Topgard, Advance, Thermalgard, Vanguard II, Wildland T and Super-V slotted helmets may vary. Contact MSA for more information.*

HPE Muff (NRR – 26dB) and HPE Cap Model (NRR – 27dB)

Designed specifically for very high noise levels, the powerful Muff/Cap Model is ideal for airfields, power plants and other areas with intense noise. The HPE Muff/Cap Model provides the highest-rated protection available for low-frequency environments. A padded headband and super-soft ear cushions guarantee all-day comfort while ensuring full-time protection.

Description	Part No.	Gov't Net Price
HPE—headband model	10061271	$12.98
Hygiene Kit, complete with cushions and inserts	10061291	$5.42

EXC Muff (NRR – 24dB) and EXC Cap Model (NRR – 25dB)

The ear muff is so comfortable that you always want to wear it. Unique injection molded inserts provide excellent attenuation and maximum space for the ears inside the cap. Headband model offers force adjustment for individual fit. The helmet-mounted version has a spring design that offers low pressure tension and a high level of comfort.

Description	Part No.	Gov't Net Price
EXC—headband model	10061229	$11.85
Hygiene Kit, complete with cushions and inserts	10061292	$5.42

Economuff Multi-Position Earmuff
Over-the-Head (NRR – 24dB)
Behind-the-Head and Under-the-Chin (NRR – 23dB)

The Economuff Multi-Position Earmuff comes with comfortable ear pads and padded headband to ensure all-day wearing without fatigue, and the durable design provides protection in tough, dirty environments.

• Extremely lightweight
• Multi-position (over head/under chin/behind head)
• Includes crown strap

Description	Part No.	Gov't Net Price
Economuff Multi-Position Earmuff	10061273	$5.42

MSA

Firefighting and Rescue Equipment from MSA

Apex™ 30 Muff and Cap Model

The Apex 30 Muff provides the highest-rated protection available for low-frequency environments.

Sound Blocker™ Muff and Cap Model

Designed for high noise areas such as industrial plants and construction sites. Its high attenuation is ideal for low- or high-frequency environments

SlimPro™ Muff and Cap Model

Although it weighs just 7.5 ounces, the SlimPro Muff offers aggressive protection in low-moderate noise environments.

SlimPro™ Plus Muff and Cap Model

The SlimPro Plus Muff features increased protection with the same styling and comfort as the SlimPro Muff. It weighs 8.0 ounces.

Comfort Band™ Hearing Protector (NRR – 18dB)

The MSA Comfort Band Hearing Protector is made with soft, easily cleanable pods and a durable plastic neck band.

Apex 30 Muff and Pouch

Sound Blocker Cap Model and Muff

SlimPro Muff and Pouch

SlimPro Plus Muff and Cap Model

Description	Part No.	Gov't Net Price
Apex 30 Muff, NRR=30dB	10003352	$17.47
Sound Blocker 26 Muff, NRR=26dB	10003345	$11.70
Sound Blocker 26 Muff, cap model, NRR=26dB	10003346	$14.92
SlimPro Muff, NRR=20dB	10003348	$11.06
SlimPro Muff, cap model, NRR=19dB	10003350	$14.33
SlimPro Plus Muff, NRR=23dB	10003349	$12.28
SlimPro Plus Muff, cap model, NRR=22dB	10003351	$15.08
Multi-Position Muff	10013245	$7.35
Comfort Band Hearing Protector, each (must be ordered in multiples of 20)	10003344	$3.22
Hygiene Kit (includes replacement ear cushions and damping pads), Sound Blocker 26/Sound Blocker 26 Cap Model	10003360	$4.17
Hygiene Kit (includes replacement ear cushions and damping pads), SlimPro/SlimPro Cap Model	10003361	$4.17
Hygiene Kit (includes replacement ear cushions and damping pads), SlimPro Plus/SlimPro Plus Cap Model	10003362	$4.17
Hygiene Kit (includes replacement ear cushions and damping pads), Apex 30 Muff	10003363	$5.81
Comfort Rings (felt pads for ear cushions), package of 20, Sound Blocker 26/Sound Blocker 26 Cap Model	10003357	$7.29
Carrying Pouch, belt-mounted, SlimPro and SlimPro Plus Muffs	10004121	$5.58
Carrying Pouch, belt-mounted, Apex 30 Muff	10004122	$5.58
Replacement Cap Adapters (package of 2), for V-Gard, Topgard, Thermalgard, and Vangard Helmets	10003353	$2.55
Band-style Earplug	10024060	$4.58

Comfort Band Hearing Protector

Multi-Position Muff

Slim Pro Carrying Pouch

Apex 30 Carrying Pouch

Damping Pads

Slotted Cap Adapters

Hygiene Kit

Comfort Rings

Ear Cushions (peel-off)

Tri-Seal Reusable Ear Plugsc

FormFit Disposable Ear Plugs

conical shape

round shape

EAR PLUGS

Description	Part No.	Gov't Net Price
Tri-Seal™ REUSABLE Silicone Ear Plugs (NRR – 25dB)		
Tri-Seal Reusable Silicone Ear Plugs (non-corded) Dispenser box (suitable for wall hanging) of 100 individ. packaged pairs	10005606	$63.60
Tri-Seal Reusable Silicone Ear Plugs (corded) Dispenser box (suitable for wall hanging) of 100 individ. packaged pairs	10005607	$82.90
Tri-Seal Reusable Silicone Ear Plugs (corded), 1 pair in plastic case with chain	10002831	$1.04
FormFit™ DISPOSABLE Foam Ear Plugs—Conical-Shaped Ear Plugs (NRR – 31dB)		
FormFit Disposable Molded Urethane Foam Ear Plugs (non-corded) Dispenser Box (suitable for wall hanging) of 200 individually packaged pairs	10051348	$16.34
FormFit Disposable Molded Urethane Foam Ear Plugs (corded) Dispenser Box of 200 individually packaged pairs	10051347	$34.54
FormFit™ DISPOSABLE Foam Ear Plugs—Round Ear Plugs (NRR – 29dB)		
FormFit Disposable Urethane Foam Ear Plugs (non-corded) Dispenser Box of 200 individually packaged pairs	10009333	$13.16

Firefighting and Rescue Equipment from MSA

ELECTRONIC HEARING PROTECTION

Guarding people against the daily hazards of noise is of paramount concern in countless industries. The challenge is to balance personal attenuation devices with comfort and the ability of communication and listening to music, so that workers will wear their hearing protectors all the time. With over 40 years of experience, MSA now offers a new wide range of hearing protectors with built-in electronics – from basic functions to high-specification communication devices. You have the choice bewtween headband and helmet-mounted versions. All products are comfortable hearing protectors, designed to prevent you from feeling isolated, thereby encouragaing you to use them and so protecting your hearing for the rest of your life. Noise Reduction Rating (NRR) is third-party certified in accordance with ANSI S3.19-1974 and EN352-3. Also meets CSA Z94.2.

Basic and Pro Line

The line features standard and advanced electronics with a very good price-to-performance ratio. Built-in features, such as FM and CutOff are optional.

ListenOnly Basic Headband Model (NRR – 24dB)
ListenOnly Basic Slotted Cap Model (NRR – 22dB)

External connection to CD, MP3-player or scanner

- Connection lead with 3.5 mm stereo jack included (fits most CD and MP3-players, etc.)
- The cable can be removed easily when not needed

FM Basic Headband Model (NRR – 24dB)
FM Basic Slotted Cap Model (NRR – 22dB)

Built-in radio receiver—mono

- Scan stations automatically
- Memory for last selected station and volume
- Automatically switches off to save batteries

FM Pro Headband Model (NRR – 24dB)
FM Pro Slotted Cap Model (NRR – 22dB)

Built-in radio receiver—stereo

- Scan stations automatically
- Memory for last selected station and volume
- Automatically switches off to save batteries
- Battery life of 120–140 hours

CutOff Pro Headband Model (NRR – 24dB)
CutOff Pro Slotted Cap Model (NRR – 22dB)

Built-in level dependent function protects without you feeling isolated

- Lets through speech and other harmless sounds while protecting you from harmful noise
- Battery life of 1000 hours
- Amplification of weak sounds
- Auxilliary input for connection if external devices

ListenOnly Basic Headband Model

FM Basic Headband Model

FM Pro Headband Model

CutOff Pro Headband Model

Listen Only Basic Slotted Cap Model

	ListenOnly Basic	Gov't Net Price	FM Basic	Gov't Net Price	FM Pro	Gov't Net Price	CutOff Pro	Gov't Net Price
Headband model	10061275	$35.26	10061274	$61.84	10061280	$78.70	10061278	$112.64
Slotted cap model*	10061277	$35.26	10061276	$61.84	10061281	$78.70	10061279	$112.64
Hygiene Kit	10061536	$5.42	10061536	$5.42	10061293	$5.83	10061293	$5.83
Sound quality	mono		mono		stereo		stereo	
Volume memory			•		•		•	
Battery save function			•		•		•	
Battery life (approx. hours)			300		120–140		300	

*fits V-Gard, Advance, Topgard & Thermalgard slotted caps

Downleads for Basic and Pro Line	Part No.	Gov't Net Price
3.5 mm Stereo Plug	10061538	$4.50
3.5 mm Mono Plug	10061539	$4.50
2.5 mm Mono Plug	10061540	$4.50
Hands Free, 2.5 mm Stereo Plug	10062072	$4.50

MSA

CONNECTED BY CABLE

CC CutOff

Connect-by-Cable Earmuffs reproduce and amplify sounds while automatically filtering out harmful noise levels. Allows the wearer to hear warning sounds, alarms and other important information. Ideal for use in high-impulse noise areas, road maintenance, railroad work and other environments where you need to hear surrounding sounds at the same time as protecting your hearing.

- Noise-cancelling boom microphone permits two-way communication with minimal interference from background noise
- Muffs can be ordered with cable adapters for direct connection to communication radios such as Motorola, Kenwood, Icom, etc. and DECT phones
- High amplification of weak signals possible
- Sound level from the electronic circuits limited to max 82 dB(A)
- Weight: 330 g (headband), 325 g (slotted cap)

CC CutOff Headband Model

Description	Part No.	Gov't Net Price
CC CutOff headband model (NRR – 23dB)	10061283	$245.31
Hygiene Kit	10061293	$5.83

PROTECTION, AMPLIFICATION AND COMMUNICATION WITH THE SUPREME PRO

Effective noise attenuation and amplification at the same time

The Supreme muff exploits the latest technology to deliver very high sound quality with reproduction of ambient sound and good directional location. This means that faint sounds are amplified, while harmful sounds and background noise are filtered out efficiently. Supreme hearing protectors are not just technically advanced but have excellent comfort and reliability.

Supreme Pro

Our top model. Provides optimum protection with high amplification, AUX input and watertight battery compartment. Both earmuffs are shaped to suit both right-handed and left-handed shots.

- Two separate, well-shielded microphones for optimum stereo effect and location of sound direction
- High amplification and natural sound reproduction without "chopping"
- Around 300 hours battery life with two standard AAA batteries
- AUX input for connecting external audio sources, such as a radio. Lead with 3.5 mm mono jack plug included

Supreme Pro

Description	Part No.	Gov't Net Price
Supreme Pro headband model (NRR – 18dB)	10061285	$113.51
Hygiene Kit	10061294	$5.83

MSA **101**

Firefighting and Rescue Equipment from MSA

W65 SELF-RESCUER RESPIRATOR

(See Data Sheet 10-00-10.)

The W65 Self-Rescuer Respirator provides emergency respiratory protection against carbon monoxide gas resulting from underground fires or explosions. A one-time-use device for escape purposes only, it provides respiratory protection against carbon monoxide in otherwise respirable air; it should not be used in atmospheres containing less than 19.5 percent oxygen or in atmospheres containing other toxic gases and vapors. Protected by a rugged stainless steel case, it weighs only 2.2 lbs.

The W65 Self-Rescuer Respirator is approved by the Mine Safety and Health Administration (MSHA) and the National Institute of Occupational Safety and Health (NIOSH) (Approval No. TC-14G-82) for self-rescue from carbon monoxide. (Previously assigned Bureau of Mines Approval No. 14F-76.)

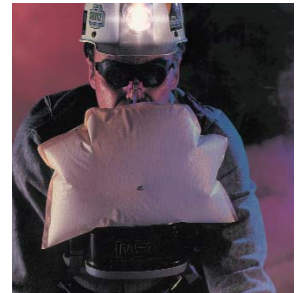| Description	Part No.	Government Net Price
W65 Self-Rescuer Respirator Complete Assemblies		
W65 Self-Rescuer, complete in carton	455299	$200.54
W65 Self-Rescuer, w/protective boot & neoprene holster	461100	$223.78
W65 Self-Rescuer cache assembly, six self-rescuers in steel cache	455647	$1308.92
Accessories		
Holster		
Adapts Self-Rescuer to belts up to 2½ inches in width.		
Leather Holster	455535	$12.38
Neoprene Holster	460027	$13.69
Protective Black Rubber Boot		
Protective Boot	449428	$11.47
Self-Rescuer Training Model		
A special training model, which does not contain chemicals, simplifies training in the use of the W65 Self-Rescuer. After use, it can be cleaned, reassembled, and used again.		
Training Model, in red case	455696	$302.55

LIFE-SAVER™ 60 SCSR (SELF-CONTAINED SELF-RESCUER)

(See Data Sheet 27-00-01.)

The Life-Saver 60 SCSR from MSA is a single-use, self-contained, oxygen-generating self-rescuer that provides breathable air independent of the surrounding atmosphere. It is NIOSH/MSHA-rated for 60 minutes of use in moderate to heavy working conditions, but can be effective for up to four hours or longer when the worker remains at rest or is breathing easily, as when awaiting rescue. The unit is NIOSH/MSHA approved (TC-13F-385).

Features

- Weighs only 5.6 lbs
- Unobstrusive, compact design
- Oxygen activator works automatically when the unit is donned
- Generates oxygen on demand, independently of surrounding atmosphere
- Stainless steel construction encased by high-impact-resistant urethane for shock absorbency, heat insulation and durability
- Easy-to-read moisture indicator offers enhanced color-contrat identification to test for contamination
- Belt mount allows unit to rotate freely 360° to resist impact to the unit
- Service life up to 10 years

Swivel-pivot belt adapter lessens impact of knocks and blows to the unit

Description	Part No.	Gov't Net Price
Life-Saver 60 SCSR, plastic belt adapter with mounting hardware and rubber protective cover	815800	$929.17
Life-Saver 60 Training Unit	815992	$305.98
Personal Mouthpiece and Noseclip Assembly for training unit, pack of 25	815957	$231.74
Rubber Protective Cover	815773	$6.17
Carrier Pouch (fabric)	815861	$16.07
Multi-Fit Rubber Belt Adapter	815786	$4.38
Mounting Hardware for Adapter, 4 bolts and 4 T-nuts	815930	$6.61

MINER'S SUPPORT SYSTEM AND MULTIPURPOSE POUCH

(See Bulletin 0115-03.)

The Miner's Support System from MSA is a lightweight but sturdy miner's belt that offers comfort, lumbar support, versatility and durability. It enables the miner to carry the cap lamp battery pack, filter self-rescuer, SCSR, tools, etc., on the job. A one-inch reflective strip sewn over a two-inch nylon strap makes the support system highly visible.

Description	Part No.	Government Net Price
Miner's Support System, small (28–34)	696757	$53.33
Miner's Support System, medium (34–44)	696758	$53.33
Miner's Support System, large (44–52)	696759	$53.33
Multipurpose Miner's Pouch	803100	$5.44
Multipurpose Miner's Pouch with Velcro closure	804655	$6.88

Above: Multipurpose Miner's Pouch
Left: Miner's Suppport System

⚠ WARNING

The Miner's Support System cannot be used as a safety belt as it is not designed to withstand the load of a free-fall hazard.

MSA

VIDEOTAPE PROGRAMS ON MSA PRODUCTS

Standard format

The standard format for MSA videotape programs is VHS.

Air-Purifying Respirators

Description	Running Time	Year Released	Part No.	Government Net Price
"Care and Use of the **Advantage 1000** and **Millennium Gas Mask**" Shows how to properly configure, inspect, don, and use the Advantage 1000 and Millennium gas masks. This tape is designed for use by First Responders and Law Enforcement personnel. This program uses and shows cartridges and canisters approved for use prior to 2004, DOES NOT cover specific CBRN canisters.	24 min.	2003	10048618	$20.24
"Proper Care & Use of the **Advantage 200 Respirator**" (Covers donning, fits checks and cleaning.)	17 min.	1996	697385	$32.67
"Proper Care & Use of the **Advantage 1000 Full-Face Respirator**" (Shows how to inspect and don unit, make fit checks, change cartridges and wash it.)	15 min.	1994	697179	$19.65
"Proper Care & Use of the **Comfo Classic Respirator**" (Covers inspection, donning, fit checks, use, washing and maintenance.)	20 min.	1994	697282	$33.65
"Use & Maintenance of the **Ultra-Twin Respirator**" (Covers inspection, donning, fit checks and use in part 1 and service operations and cleaning in part 2.)	22 min.	1982 (rev. 1995)	696820	$19.65
"How to Use & Maintain the **PAPR (Powered Air-Purifying Respirator)**" (Features belt-mounted unit for inspection, donning, fit checks, use and decon in 25-minute part 1 and cleaning and maintenance in 15-minute part 2.)	40 min.	1987	696816	$19.65
"Proper Care & Use of **Gas Masks**" (Covers inspection, donning, fit checks and use in part 1 and cleaning and maintenance in part 2.)	19 min.	1982	696812	$19.65
"Fit Testing MSA Respirators with the **Qualitative Fit Test Kit**" (Covers the set-up steps and shows a fit test with wearer performing exercises.)	10 min.	1995	697325	$33.65

Air-Line and Escape Respirators

Description	Running Time	Year Released	Part No.	Government Net Price
"Proper Care & Use of the **PremAire Supplied-Air Respirator System**" (Covers basic model and four options. Part 1 is proper use. Part 2 covers maintenance. Part 3 shows how to hook up a pressure demand air-line system.)	43 min.	1994	697180	$34.67
"Proper Care & Use of the **PremAire Cadet System**" (Part 1—donning and use, Part 2—cleaning, inspection and maintenance, Part 3—air-line system hook-up.)	32 min.	1993	697011	$34.67
"Proper Care & Use of the **Hip-Air Apparatus**" (3 parts: donning and use, maintenance and system hookup.)	28 min.	1992	696841	$34.67
"Proper Care & Use of the **Pressure-Demand Air-Line Respirator**" (Part 1 shows system hookup, donning and use and part 2 covers cleaning and maintenance.)	44 min.	1986	696814	$34.83
"Proper Care & Use of **Constant-Flow Air-Line Respirators**" (3 parts: donning and use, maintenance and system hook-up.)	27 min.	1992	696839	$35.17
"Proper Care & Use of the **Synergy Bubble Hood Respirator**" (Shows assembly and donning of Bubble and Welder's Hood, maintenance and hook-up of constant flow air-line system.)	18 min.	1994	697181	$35.17
"How to Use & Maintain the **Custom Air V Escape Respirator**" (Simulated emergency escape and segment on inspection.)	18 min.	1988	696824	$36.21
"Inspecting and Donning the **Life-Saver 60 SCSR from MSA**" (Shows preparation before use, the 3+3 donning method and cautions.)	8 min.	1996	697412	$33.30

Firefighting and Rescue Equipment from MSA

Self-Contained Breathing Apparatus

Description	Running Time	Year Released	Part No.	Government Net Price
"Proper Care and Use of the **Xtreme Air Mask** with **HUD/RIC**" (Part 1 shows how the Air Mask works and how to don the Xtreme Air Mask equipped with the HeadsUp Display and RIC connections. Covers how the HUD works and the signal indicators. Part 2 covers cleaning and inspection of the Air Mask, areas to check for wear and abrasion)	40 min.	2003	10044170	$16.86
"Proper Care & Use of the **MMR Xtreme Air Mask** with the **FireHawk MMR** and the **ICM Unit**" (Part 1 includes donning, use and doffing in 24 minutes and part 2 covers cleaning and inspection in 12 minutes; 14-minute program on Quick-Fill System [see P/N 696840] is included.)	36 min.	2001	10031605	$35.73
"Proper Care & Use of the **MMR Xtreme Air Mask**" (Part 1 includes donning, use and doffing in 23 minutes and part 2 covers cleaning and inspection in 11 minutes; 14-minute program on Quick-Fill System [see P/N 696840] is included.)	37 min.	1999	696838	$35.73
"Proper Care & Use of the **Ultralite II Air Mask** and Inspection and Maintenance Procedures" (Part 1 is 17 min. and covers donning, use and doffing, while part 2 is 20 min. and shows cleaning inspection and maintenance. Also shows cold weather use.)	49 min.	1988	696833	$35.73
"Proper Care and Use of the **Custom 4500 II Air Mask** and Inspection and Maintenance Procedures." (Covers same material as Ultralite II program above.)	50 min.	1988	696834	$35.73
"How to Use the **Ultralite Air Mask** and Inspection and Maintenance Procedures" For **industrial applications** (covers donning, fit test, use and doffing in part 1 and cleaning and maintenance in part 2).	49 min.	1985	696828	$35.73
Fire Service version of program listed above.	50 min.	1985	696829	$35.73
"How to Use the **Custom 4500 Air Mask** and Inspection and Maintenance Procedures" For **industrial applications** (Covers donning, fit test, use and doffing in part 1 and cleaning and maintenance in part 2.)	55 min.	1985	696830	$35.73
Fire Service version of program listed above.	54 min.	1985	696831	$35.73
"Proper Care and Use of Pressure-Demand Air Mask (Model 401)**"** (Covers inspection, donning, use, cleaning and maintenance.)	32 min.	1982	696813	$35.73
"How to Properly Don and Fit the **Pressure-Demand Air Mask (Model 401)**" (2-part self-teaching format with inspection, use and donning in part 1 and then repeated for the viewer to perform in part 2.)	31 min.	1981	696819	$35.73
"Proper Care and Use of the **Quick-Fill System**" (Covers cylinder refilling and EBS emergency transfilling from MMR or waist-mounted regulators.)	14 min.	1992	696840	$35.73
"How to Use and Maintain Your MSA Breathing Apparatus in **Cold Weather**" (Details 6 tips for users and 2 maintenance pointers for waist-mounted regulators.)	10 min.	1991	696817	$35.73
"Proper Care & Use of the **WorkMask II SCBA**" (Part 1 covers donning, fit check, cylinder change and Part 2 covers inspection, cleaning monthly checks.)	40 min.	1994	697234	$7.09

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