Bayonet-Style Respirator Cartridges Acid Gases The Advantage Respirator line of particulate, chemical and combination Filter Type & cartridges is NIOSH-certified to 42 CFR, Part 84, and provides Efficiency lightweight, low-profile performance. Cartridges fit Advantage 200 LS, and 420 Half-Masks, 1000, 3000, and 4000 Series Full-Facepiece MSA Cartridge Re-Order ov CL SD AM HF MV P100 R95 N95 CD HS* MA FM Description Part Number Codine GMA 815355 2,3 GMA with N95 Prefilter 815355 with 815394 or 816357 **1** 2,3 20 GMA with R95 Prefilter 815355 with 815397 2,3 GMA P100 **12**0 2,3,4 GMB 815356 2 GMB with N95 Prefilter **12**0 2 815356 with 815394 or 816357 GMB with R95 Prefilter 815356 with 815397 2 GMB P100 **1** 815363 2,4 GMC 2,3 **12**0 GMC with N95 Prefilter 815357 with 815394 or 816357 2,3 GMC with R95 Prefilter 815357 with 815967 **1** 2,3 120 2,3,4 GMC P100 815364 GMD 815358 1**2**0 | 1**2**0 2,3 GMD with N95 Prefilter 815358 with 815394 or 816357 **12**0 **12**0 2,3 GMD with R95 Prefilter 815358 with 815397 2,3 GMD P100 815365 2,3,4 GME 815359 2,3 120 GME with N95 Prefilter 815359 with 815394 or 816357 2,3 GME with R95 Prefilter 815359 with 815397 2.3 **12**0 2,3,4 GME P100 815366 GMI P100** 815641 2,4 815361 (<u>A</u> 2,4 Mersorb® Cartridge 815361 with 815394 or 816357 (**2**) (**2**) (**2**) 2,4 Mersorb with N95 Prefilter 815361 with 815397 **12**0 **2**0 2,4 Mersorb with R95 Prefilter Mersorb P100 815368 **2** 2,4 <u>1</u> 815369 1,4 Low-Profile P100 N95 Snap-On Prefilter 815394 Pack of 10 **AWARNING** and Cover 816357 Box of 50 815392 Reusable Snap-On Cover An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the 2 in a package 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 815397 Box of 20 R95 Snap-On Prefilter environment. If using against substances having poor warning properties, there is no secondary means of knowing and Cover 815401 Reusable Snap-On Cover when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent 2 in a package overexposure, which may include a more conservative change-out schedule or using an air-supplied respirator or **Definitions** SCBA. Failure to follow this warning can result in serious personal injury or death. As a reference, below is a partial list N95-Particulate Filter (95% filter efficiency level) effective against of substances having poor warning properties: particulate aerosols free of oil; time use restrictions may apply. Hydrogen cyanide Nitric acid Phosphorus trichloride R95-Particulate Filter (95% filter efficiency level) effective against Aniline Hydrogen selenide Stibine Nitro compounds all particulate aerosols; time use restrictions may apply. Arsine Methanol Nitrogen oxides Sulfur chloride P100-Particulate Filter (99.97% filter efficiency level) effective against Urethane or other diisocyanate-Bromine Methyl bromide Nitroglycerin all particulate aerosols containing paints Carbon monoxide Methyl chloride Nitromethane * Escape only. Diisocyanates Methylene chloride Vinyl chloride Phosgene ** Effective against, but not NIOSH-approved for iodine vapor. Dimethyl sulfate Nickel carbonyl Phosphine

Notes

- 1. Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres containing gases or vapors, or in atmospheres immediately dangerous to life and health.
- 2. Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres immediately dangerous to life and health.
- 3. Do not wear for protection against organic vapors with poor warning properties or those which generate high heats of reaction with the sorbent material in the cartridge.
- 4. 99.97 percent efficient against 0.3 micron DOP.

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

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Advantage® Cartridge Style Respirators

MSA's Advantage Respirators provide optimal respiratory protection essential for workers in varied work environments including chemical, general industrial, pharmaceutical, first responders, construction, nuclear, craft trades, and even do-it-yourselfers. MSA's Advantage Respirators and the wide selection of Advantage Cartridges and Filters provide the protection you need, whether they are used for precautionary measures or in situations where hazardous gases, vapors, or particulates may be present.

Workers worldwide have come to depend on MSA's Advantage Respirators for their innovation, durability, and comfort. Incorporating MSA's global engineering expertise, the Advantage Family of Respirators meets NIOSH and other global standards while maintaining flexibility and affordability.

For your convenience, Advantage Cartridges and Filters are interchangeable with all Advantage Respirators, both half-mask and full-facepiece, simplifying the selection process. They are easy to maintain, allowing for minimal inventory and overall costs.

Advantage 200 LS Respirators offer economy, unmatched fit, and comfort with a soft blue facepiece. The Advantage 200 LS Respirator is approved by the National Institute for Occupational Safety and Health (NIOSH) for use against a variety of respiratory hazards.

- Thermoplastic rubber subtracts a quarter of the weight and adds softness.
- Patented **MultiFlex**® **System** equalizes faceseal area pressure while delivering exceptional stability.
- **AnthroCurve[™] Sealing Surface** instantly conforms to each wearer's unique facial characteristics.

Description	2-Piece Neckstrap	Single Neckstrap
Advantage 200 LS, small	815696	815448
Advantage 200 LS, medium	815692	815444
Advantage 200 LS, large	815700	815452



Description	2-Piece Neckstrap	Single Neckstrap
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The Advantage 420 Half-Mask

Respirator incorporates maximum comfort, improved donning and fit, enhanced safety, and reduced maintenance cost. AnthroCurve II **Sealing Surface** and multi-ethnic face seal improves fit testing among diverse workforces. Patent-pending UniBond silicone facepiece helps to eliminate possible leak paths. One-piece **ComforTop** Cradle Headband eliminates pressure points when head protection is worn. All plastic MSA Advantage Cartridges (bayonette) as well as metal MSA Comfo® **Cartridges** (threaded) can be used with Advantage 420 Respirators.

- Drop-down harness position allows respirator removal while retaining head protection
- Patent-pending lock-down harness position without further user adjustments
- Latex-free; reduces risk of adverse individual reaction
- Only three major components reduce inventory, parts cost, and maintenance time
- Choice of three sizes accommodates wide range of users
- Low breathing resistance enhances worker performance

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

Advantage 1000 Low-Maintenance

Respirators offer reduced maintenance in a full-facepiece model. Clean, simplified design means fewer replacement parts. The Advantage 1000 Respirator weighs up to 40 percent less than some conventional full-face respirators for enhanced comfort and user acceptance. Advantage 1000 Respirators are compatible with the complete line of Advantage Series Filters and Cartridges.

- Super-soft Hycar™ Rubber facepiece offers excellent chemical permeation resistance
- Mechanical speaking diaphragm standard; facepiece also adapts to ESP Communications
- Fully elastic, six-point head harness adjusts easily, speeds donning and doffing, and eliminates hair
- Flexible urethane lens improves field of vision and provides greater comfort



Description	Small	Medium	Large
Advantage 1000 Respirator with speaking diaphragm and nosecup	805414	805408	805420

Advantage 3200 Twin-Port Respirators

are designed for comfort and versatility; users can position upper straps for consistent fit and minimal adjustment. Pre-set upper straps prevent snags during donning and doffing, providing a tighter, more secure seal. Wearers may also choose the new European-style Advantage Head Harness, which dons like a catcher's mask. All components can be replaced without special tools in seconds.

- Choice of three sizes accommodates a wide range of users
- Approved with all MSA Advantage Cartridges
- Low breathing resistance enhances worker performance
- Wraparound scratch-resistant polycarbonate facepiece lens provides wide distortion-free field of vision
- Lens meets all ANSI Z87.1+ requirements including high-impact performance requirements

with rubber head harness as shown

Description	Small	Medium	Large
Advantage 3200 Twin-Port Respirator, w/rubber Harness	10028996	10028995	10028997
Advantage 3200 Twin-Port Respirator, w/Advantage European-style harness	10031340	10031309	10031341

The Advantage 4200 Twin-Port

Facepiece is a dedicated twin-cartridge respirator. As with other Advantage Respirator facepieces, a unique in-turned lip provides the best possible faceseal contours.

Advantage 4200 Twin-Port Respirator, w/net head harness, Hycar

Advantage 4200 Twin-Port Respirator, w/rubber head harness, Hycar

Advantage 4200 Twin-Port Respirator, w/net head harness, silicone

- Facepieces are available in silicone and Hycar Rubbe
- Choice of rubber or net harnesses and three standard sizes for perfect fit

Small

10083785

10083787

10083784

Nosecup is standard for reduced fogging in low-temperature or high-moisture envir

TA I
3 18

as shown

Advantage 4200 Twin-Port Respirator, w/rubber head harness, silicone 10083782 10083786 with net head harness

Medium

10083781

10083783

10083760

