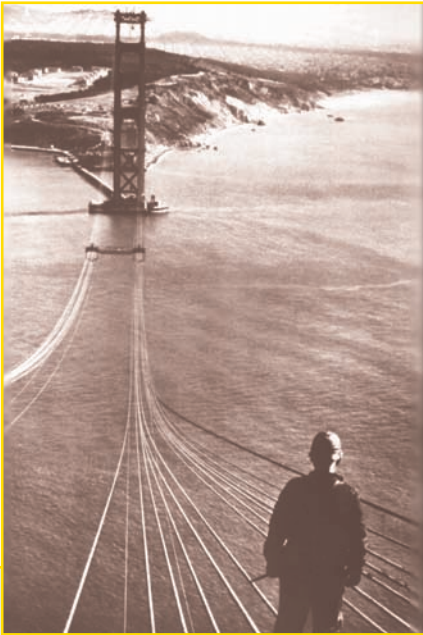


Industrial Health & Safety Product Catalog



***Bullard***<sup>®</sup>

# Commitment to Safety



For more than a hundred years, we've focused our efforts on saving lives with quality safety products. From the introduction of the world's first hard hat in 1919, to our latest innovations in respiratory products, you'll find every Bullard product is the best in its class. Thorough research and development, followed with world-class engineering, provide you with the high-quality protection you deserve.

## In Head Protection...

We *invented* the hard hat – and our commitment to manufacturing the very best hard hat shows. From our Standard Series, to the advanced protection offered by our Advent® rescue helmet, all Bullard hard hats and helmets have been carefully engineered to deliver superior performance, comfort, quality and durability.

## In Respiratory Protection...

We provided airline respirators during the construction of the Golden Gate Bridge. Since then, our line of respiratory protection equipment has expanded to include powered-air purifying respirators, airline respirators, pressure demand systems, supplied air filters and monitors, and a full range of pumps and compressors. Bullard is dedicated to providing only the best in breathing air quality and respiratory protection equipment.



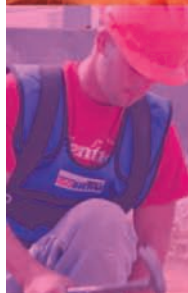
Founded in 1898 in San Francisco by Edward Dickinson Bullard, our company is a leading manufacturer of high quality personal protective equipment and systems. The Company originally supplied carbide lamps and other mining equipment to gold and copper miners. The introduction of the first hard hat in 1919, represented the first of many innovative designs by Bullard.

During the 1930s, Golden Gate Bridge engineer Joseph B. Strauss asked Bullard to adapt its hats to protect bridge workers. Bullard not only supplied hard hats for this famous project, but also designed an original supplied air respirator for workers blasting the steelwork.

In 1972, the Company moved its production facilities, and later its headquarters from Sausalito, California, to Cynthiana, Kentucky. Since 1994, Bullard has maintained ISO9001 certification, signifying the Company's ongoing commitment to a rigorous quality system in its manufacturing operations. Now with offices in Europe and Asia-Pacific, Bullard carries its commitment to safety internationally.

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# Terms and Conditions

**Customer Service Policy:** This statement does not supersede the terms or conditions of sale that are printed on Bullard sales orders, acknowledgements and packing slips. Instead, it is a guide to our customer service policies. Bullard reserves the right to change product specifications without notice.

**Pricing:** Orders must specify one destination and one shipping date. Prices are subject to change without notice. We attempt to advise our customers of price changes in advance, but cannot guarantee to do so. Orders specifying future shipment are subject to prices effective at the time of shipment. Possession of a price list does not grant the right to distributor discounts.

**Minimum Order:** Minimum purchase order is \$100.00. Products from other Bullard price lists may be combined to meet minimum.

**Terms:** Standard terms net 30 days, F.O.B. shipping point.

**Freight:** Title to goods passes to the buyer upon delivery to the carrier at the Bullard dock. Orders of \$2,500 or more are shipped freight prepaid by Bullard within the continental U.S. via the carrier(s) of our choice. Products from other Bullard price lists may be combined to receive free freight. Orders specifying other means of shipment are shipped collect regardless of order value. To qualify for prepaid freight, orders must specify a single destination and shipping date.

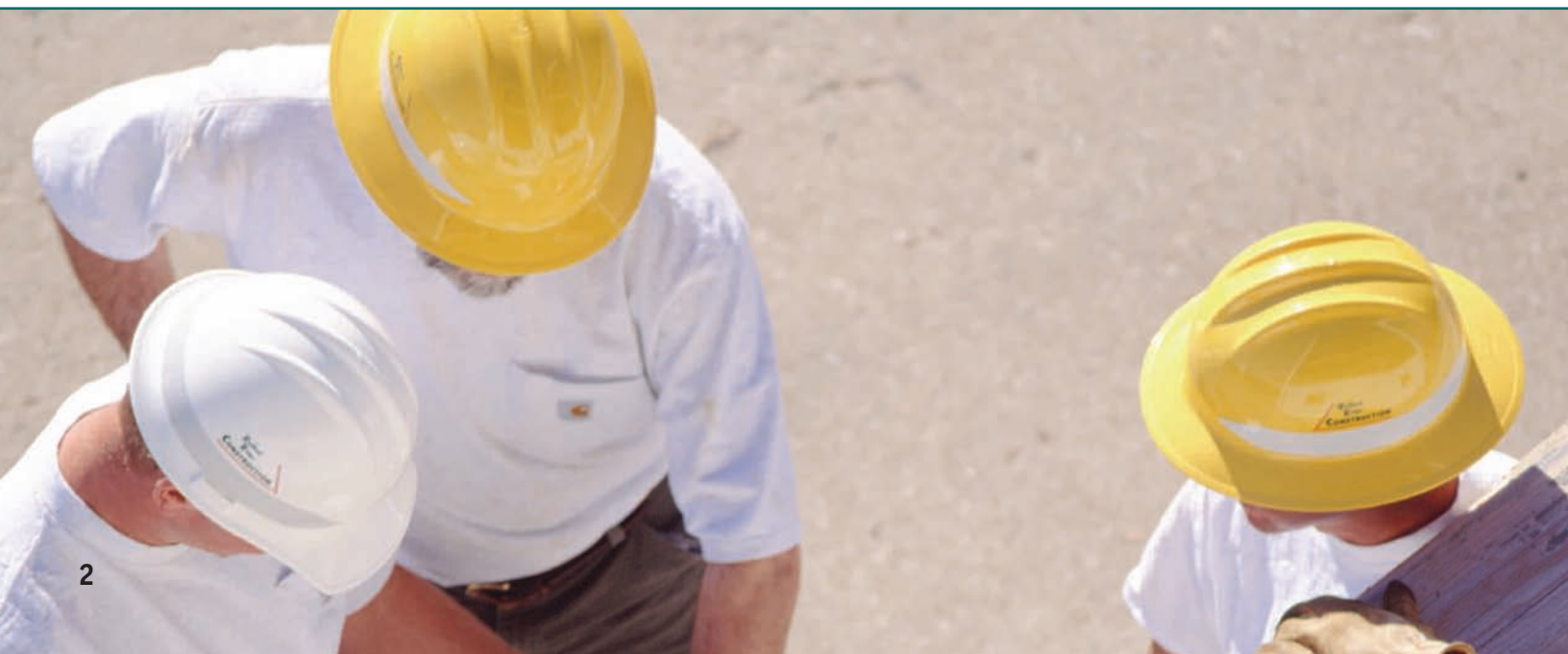
**Credit Policy:** We reserve the right to assess a 1½ percent service charge per month on overdue balances. Our credit department is authorized to hold shipments if past due balances are not paid.

**Returned Goods:** Refer to your Bullard distributor program for details.

**Non-standard Orders:** We welcome the opportunity to meet special requirements. However, special orders are accepted with the understanding that we may over-ship and bill accordingly by as much as 10% of the order, due to the special nature of the product.

**Drop Shipments:** In certain situations, drop shipments may be made to authorized distributor locations or other locations within a distributor's recognized territory. Please contact Bullard Customer Service for details.

**Information Support Policy:** Bullard provides distributors with catalogs, price lists, promotional literature and other printed material. Generally, this information is provided to the distributor at no cost. However, Bullard reserves the right to charge a distributor when literature requests exceed reasonable levels based on the distributor's annual sales volume. All Bullard literature can also be downloaded from our website at no additional cost at [www.bullard.com](http://www.bullard.com).



# How To Place An Order

Now there are more ways than ever to place an order with Bullard!

## by Fax

You can fax us any time – 24 hours a day. Faxed orders are processed promptly and you will receive a Sales Order confirmation back after the order has been entered into our system.

## by Mail

Send orders via mail to Bullard Customer Service if you have an account set up with us. Note the mailing address for Bullard below.

## in Person

Your Bullard Regional Sales Manager will visit your facility and listen to your needs. They can help you decide on the combination of safety products that will best serve you and provide a quotation, technical information, product availability and ordering information.

## by Phone

Call us anytime between 8:00 a.m. and 6:00 p.m. E.S.T, Monday through Friday, and one of our experienced Customer Service Representatives will assist you with placing your order. Special order requirements? Just contact a Bullard Customer Service Representative to discuss the options. Telephone orders must be followed with an e-mail or faxed copy of the purchase order.

## by E-mail

E-mail your orders to [orders@bullard.com](mailto:orders@bullard.com).

## by EDI

Transaction sets are received as soon as they are sent, so the response turnaround is almost immediate. You can even use your own part numbers! Contact a Bullard Customer Service Representative if you wish to become an EDI partner.



## Bullard

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Cynthiana, KY 41031-9303  
Toll free: 877-BULLARD  
Tel: 859-234-6616  
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# Head and Face Protection Products



Construction • Utilities • Emergency Response  
• Transportation • Mining • Manufacturing  
• Food Processing • Forestry

***Bullard***<sup>®</sup>

# Regulations and Standards for Head Protection

## Types of Hard Hats

**Type I/1** – Conventional hard hats that are designed to reduce the force of impact to the top of the head, neck and spine.

**Type II/2** – New designs that offer additional impact protection to the front, sides, and back, as well as the top of the head.

## Classes of Hard Hats

**Class E** (electrical) are tested to withstand 20,000 volts.

**Class G** (general) helmets are tested at 2200 volts.

**Class C** (conductive) provides no electrical protection.

Bullard Model	Standard	Type and Class
 C30	ANSI Z89.1-2003	Type I, Class E & G
 C33	ANSI Z89.1-2003	Type I, Class E & G
 911C	ANSI Z89.1-2003	Type I, Class E & G
 911H	ANSI Z89.1-2003	Type I, Class E & G
 S51	ANSI Z89.1-2003 CSA Z94.1-2005	Type I, Class E & G Type 1, Class E & G
 S61	ANSI Z89.1-2003	Type I, Class E & G
 S62	ANSI Z89.1-2003	Type I, Class C
 S71	ANSI Z89.1-2003	Type I, Class E & G
 Advent®	ANSI Z89.1-2003	Type II, Class E & G
 Vector	ANSI Z89.1-2003 CSA Z94.1-2005	Type II, Class E & G Type 2, Class E & G

**OSHA 29 CFR 1910.135** requires head protection if any aspect of the work environment presents a risk of head injury.

**ANSI Z89.1-2003** developed requirements for industrial head protection relating to 1) Impact Protection; 2) Penetration Protection and 3) Electrical Insulation Protection.

This fifth revision of the standard provides performance and testing requirements for industrial helmets, commonly known as hard hats, and is a revision of ANSI Z89.1-1997, which established the types and classes of protective helmets, depending on the type of hazard encountered. The 1997 version included specifications for helmets designed to offer protection from lateral impact, or top-only impact, giving employers and users the flexibility to specify the helmet that best meets the needs of their specific workplace.

Industrial head protective helmets meeting the requirements of the 2003 standard are classified as Type I for top protection or Type II for top and lateral impact protection. Both types are tested for impact attenuation and penetration resistance. Type II helmet performance requirements include criteria for impact energy attenuation from impacts from the front, back and sides, as well as the top, off-center penetration resistance and chin strap retention. The three classes indicate the helmet's electrical insulation rating, and is unchanged from 1997.

## CAN/CSA Z94.1-2005 National Standard for Canada

This is the fifth edition of CSA Z94.1, Industrial Protective Headwear - Performance, selection, care and use. It supersedes the previous editions published in 1992, 1977 and 1966 under the title Industrial Protective Headwear. It also supersedes the Preliminary Standard, published in 1965, and replaces the protective headwear requirements specified in CSA Z94-1948, Code for Head and Eye Protection.

### WARNING

Hard hats are designed to provide limited protection to the head by reducing the force of falling objects striking the top of the hard hat shell. While limited protection is provided in other parts of the shell, this hard hat was not designed to provide front, side or rear impact protection. Avoid contact with electrical wires. **NEVER ALTER OR MODIFY THE SHELL OR SUSPENSION SYSTEM. ALWAYS USE BULLARD REPLACEMENT PARTS.**

Inspect your hard hat shell and suspension regularly. Check for cracks, frayed straps and any signs of damage before each use. Replace the hard hat immediately if you notice any signs of wear, damage, abuse or environmental degradation. If the hard hat has sustained a forcible blow (impact), dispose of it immediately, even if damage is not visible. Failure to follow these warnings could result in death or serious injury.



# Regulations and Standards for Face Protection

## ANSI Z87.1-2003 - American National Standard for Eye and Face Protection

Perhaps the most significant change affecting all eye and face protectors is the introduction of a two-level classification for impact protection. "Basic impact" lenses are tested to withstand the impact of a 1-inch ball dropped from 50 inches, plus a penetration test for plastic lenses. "High impact" lenses, and all frames, have to pass more stringent high mass and high velocity impact tests. There are changes in marking to indicate the level of impact protection. Minimum thickness requirements have been eliminated, except for non-plano lenses (2 mm).

Employers must now decide when they need basic or high impact protectors for their employees. ISEA recommends the use of only high impact protectors (Z87+) whenever eye protection is worn. The standard requires that all frames and lenses carry a manufacturer's mark or logo, plus other markings to indicate the level of protection. Faceshields are marked Z87 to indicate Basic Impact, or Z87+ to indicate High Impact. Other markings are "S" for special purpose lenses, and LIGHT, MEDIUM, DARK to indicate luminous transmittance of a faceshield window. Bullard visors conform to ANSI Z87.1-2003 standard when used in combination with Bullard approved headgear or faceshield brackets under the following classification by model number:

Bullard Model	Material	Classification	Bullard Model	Material	Classification
640	Acetate	Z87 Basic Impact	840ME	Polyester	Z87 Basic Impact
640G	Acetate	Z87 DARK Basic Impact	680P	Polycarbonate	Z87+ High Impact
840M	Acetate	Z87 Basic Impact	840P	Polycarbonate	Z87+ High Impact
840MH	Acetate	Z87 Basic Impact	840PX2	Polycarbonate	Z87+ High Impact
840MX2	Acetate	Z87 Basic Impact	860P	Polycarbonate	Z87+ High Impact
840MG	Acetate	Z87 DARK Basic Impact	880P	Polycarbonate	Z87+ High Impact
860H	Acetate	Z87 Basic Impact	WS60PM	Polycarbonate	Z87+ High Impact
CS40	Acetate	Z87 Basic Impact	8S24	Mesh Screen	Z87 Basic Impact
1040	Acetate	Z87 Basic Impact			



# Advent® Advanced Head Protection

## The ADVENT helmet. Designed specifically for emergency response services.

The ADVENT helmet offers paramedics, emergency medical technicians, industrial hazard response teams, and search and rescue personnel a revolutionary new concept in head protection. Available in two models, ADVENT offers a variety of special benefits.

### Highly Protective

ADVENT offers top, front, side and rear impact and penetration protection. This level of head protection is essential for emergency response professionals who are involved in everything from vehicle extrication to rope rescue. ADVENT meets or exceeds all requirements of ANSI Z89.1-2003, Type II, Class E & G.

### Comfortable

At just over 25 ounces (709g), ADVENT is half the weight of conventional firefighter helmets and is the same weight as many climbing helmets. Its compact design with no rear brim improves freedom of movement both in and out of emergency vehicles and confined spaces. A crown pad and a soft replaceable, foam-backed vinyl brow pad provide extra comfort.

### Easy Adjustment

The ADVENT adjustable ratchet suspension (ADRTSL) makes it easy to size instantly.

### Economical

ADVENT is affordable. In fact, it's less than half the price of conventional fire helmets.

### Adaptable

ADVENT can be equipped with a variety of accessories, including faceshields, ear/neck protectors and hearing protectors.

### Easy to Customize

ADVENT is designed as part of the professional's standard uniform. Both models are available in five colors and may be customized with pad printed logos, decals and reflective strips.



## Available Colors



Yellow



Orange



Red



Kentucky Blue



White

# Advanced Head Protection - ADVENT® Helmet

Revolutionary Construction, Advanced Levels of Protection.

## 1. Inner Shell of ABS

Helps protect by distributing forces of impact over a wide area.

## 2. Eight-point Suspension System

Adds stability and comfort.

## 3. Expanded Polystyrene Foam Core

Reduces the possibility of serious head injury by helping absorb forces of impact.

## 4. Flex-Gear® Ratchet Headband

Makes sizing quick, comfortable and easy.

## 5. Expanded Polyethylene Crown Cushion

Helps prevent head contact with the shell in the event of top impact.

## 6. Ventilation Channels

Help keep wearers cooler and more comfortable.

## 7. Outer Shell of Thermoplastic

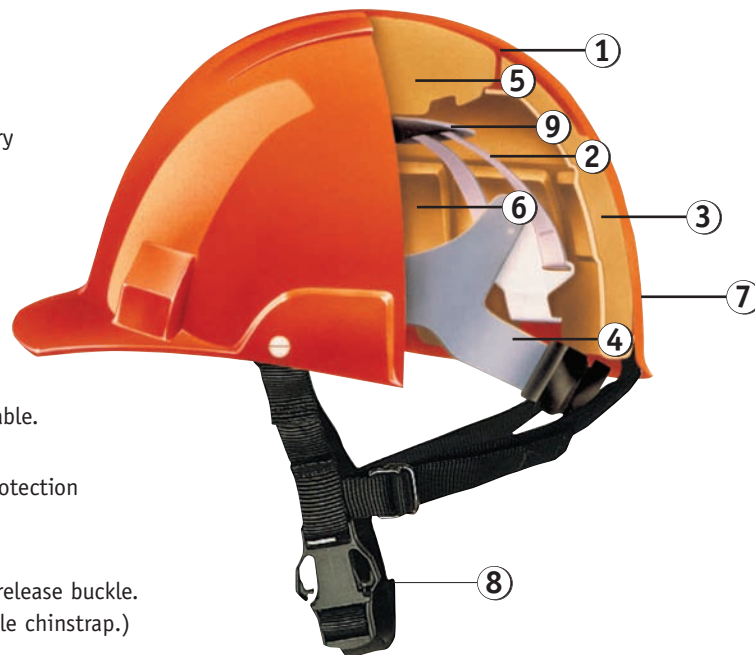
Provides superior impact and penetration protection over a wide range of temperatures.

## 8. Permanently Attached Chinstrap

Increases stability and security, with quick-release buckle. (ADVENT A2 is available with a 3-point cradle chinstrap.)

## 9. Vinyl Crown and Brow Pad

Provides enhanced comfort.



### A1 ADVENT Helmet with 2-point Chinstrap

- Polycarbonate alloy shell
- Meets or exceeds ANSI Z89.1-2003 Type II, Class E & G requirements
- EPS foam impact liner
- EPS foam crown cushion
- ABS inner shell
- 8-point Flex-Gear ratchet suspension (ADRTSL)
- 2-point chinstrap with dielectric quick-release buckle (A110)
- Case quantity: 10; minimum quantity: 1



### A2 ADVENT Helmet with 3-point Cradle Chinstrap

- Same as Model A1 above with
- 3-point cradle chinstrap
  - Dielectric quick-release buckle
  - Case quantity: 10; minimum quantity: 1



Additional accessories

p. 12-13

Customization Options

p. 29-36

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# Vector Advanced Head Protection

## The VECTOR Helmet. Designed to meet CSA and ANSI Type II Standards.

The Bullard VECTOR helmet provides impact protection for the top, front, back and side of the head. VECTOR helmets are lightweight, comfortable, affordably priced and designed to accommodate numerous accessories. In addition to the advanced features, the helmet is easy to customize with company logos, slogans and reflective markings.

### Protective

VECTOR helmets use a full inner shock liner to absorb impacts from the top, front, back and side. The shock liner is carefully engineered to provide advanced protection with minimal weight. Combined with its heavy-duty polyethylene shell and optional self-sizing suspension or Flex-Gear® ratchet suspension, VECTOR offers advanced protection at a competitive price. A two-point chinstrap and heavy-duty polycarbonate faceshield are available as options.

### Comfortable

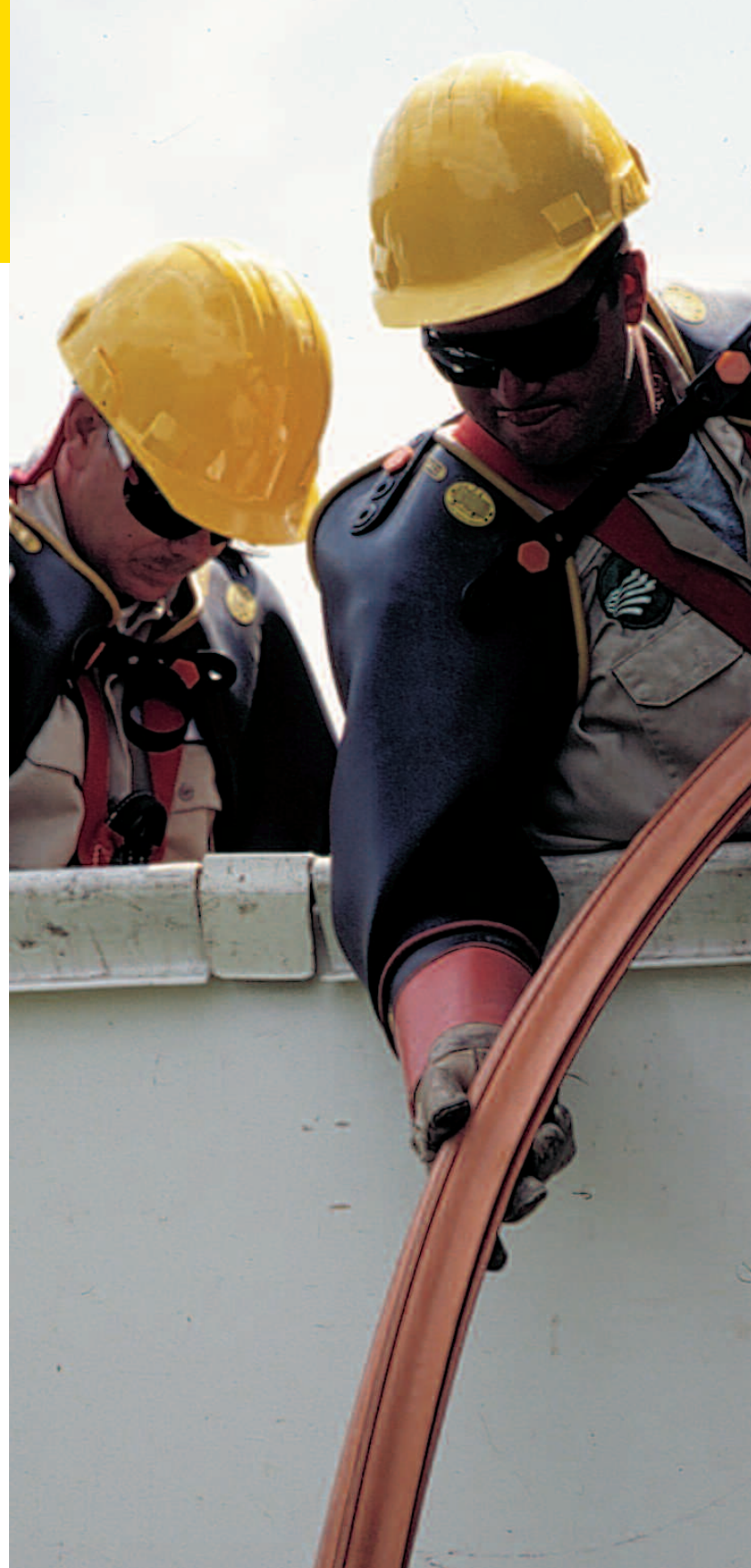
VECTOR helmets offer lateral and top impact protection with only slight weight addition over conventional hard hats. Either the self-sizing VT600 suspension or optional VTRT600 Sure-Lock ratchet suspension ensures a secure and comfortable fit for virtually all head sizes and shapes. The standard Sportek™ brow pad is the most absorbent and comfortable brow pad available.

### Economical

VECTOR helmets offer advanced head protection and comfort at an affordable price. The lightweight VECTOR helmets are compliant with ANSI Z89.1-2003 Type II and CSA Z94.1-2005, Type 2 requirements. The Sportek brow pad, comfortable suspension, built-in goggle strap retaining slots and Bullard unsurpassed reputation for quality make VECTOR helmets a superior value in industrial head protection.

### Easy to Customize

VECTOR helmets can be decorated with your company's logo using up to six colors in as many as eight different locations. Available colors include: white, yellow, orange, red, Kentucky blue, navy blue, forest green, hi-viz orange and hi-viz yellow.



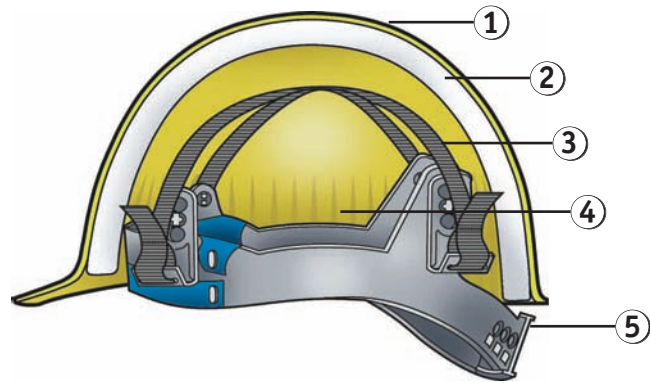
## Available Colors



# Advanced Head Protection - VECTOR Helmet

## Advanced Levels of Protection

- 1. Outer Shell of Polyethylene**  
Lightweight design for maximum comfort.
- 2. Expanded Polystyrene Foam Core**  
Reduces the possibility of serious head injury by helping to absorb the forces of impact.
- 3. Four-point Suspension System**  
Straps are angled to fit the head for superior balance and comfort.
- 4. Ventilation Channels**  
Help keep wearer cooler.
- 5. Sizing Mechanism**  
Choose from either the Flex-Gear® ratchet or self-sizing suspension.



### VECTOR-C

#### Helmet with Self-sizing Suspension

- High-density polyethylene shell
- Meets or exceeds ANSI Z89.1-2003 Type II, Class E & G requirements and CSA Z94.1-2005, Type II, Class E & G
- EPS foam impact liner
- 4-point self-sizing suspension (VT600)
- Case quantity: 10



### VECTOR-CRT

#### Helmet with Flex-Gear® Ratchet Suspension

- Same as Model VECTOR-C above with
- 4-point Flex-Gear ratchet suspension (VTRT600)
  - Case quantity: 10



# Advanced Head Protection

## ADVENT® Replacement Parts and Accessories

ADRTSL

### Suspension for ADVENT

- 8-point Flex-Gear® ratchet suspension
- Foam-backed vinyl brow and crown pad (A101)



A101

### Brow Pad

- Foam-backed ventilated vinyl
- For ADRTSL-Advent suspension



## VECTOR Replacement Parts and Accessories

VT600

### Suspension for VECTOR

- 4-point self-sizing suspension
- Sportek™ brow pad (TT3)
- Three vertical adjustments in front and rear
- Includes built-in goggle strap retaining slots



VTRT600

### Suspension for VECTOR

- 4-point Flex-Gear ratchet suspension
- Sportek brow pad (TT3)
- Three vertical adjustments in front and rear
- Includes built-in goggle strap retaining slots



VTS

### Foam Liner for VECTOR

- Expanded polystyrene (EPS) foam liner replacement



TT3

### Brow Pad

- Sportek replacement brow pad
- For 4-point VT600, VTRT600 suspensions





# Advanced Head Protection

## ADVENT® and VECTOR Replacement Parts

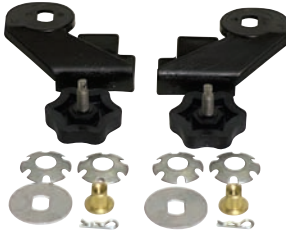
**A110 Chinstrap for ADVENT or VECTOR**

- 2-point nylon chinstrap
- Quick-release buckle



**ADFB Accessory Blades**

- For mounting 4" or 6" faceshield on ADVENT or VECTOR
- Includes blades and hardware
- Faceshield must be purchased separately (R325 or R330)



**R325 Faceshield**

- 6" faceshield
- Hard-coated polycarbonate
- ADFB blades are required for assembly - sold separately



**R330 Faceshield**

- 4" faceshield
- Hard-coated polyphthalatecarbonate
- Enhanced optics
- ADFB blades are required for assembly - sold separately



**R160 Ratchet Cover**

- Leather ratchet cover
- For all Bullard ratchet suspensions



Head Protection

Additional accessories p. 15-25

Faceshield brackets • Visors p. 37-43

# Advanced Head Protection

## Customization for ADVENT® and VECTOR

---

OR145      3" (7.6 cm) Star of Life decal



---

OR308      7" x 4" (17.8 cm x 10.2 cm) Crescent, Emergency Medical Technician



---

OR309      7" x 4" (17.8 cm x 10.2 cm) Crescent, Safety Officer



---

OR310      7" x 4" (17.8 cm x 10.2 cm) Crescent, Paramedic





# Classic Series Hard Hats and Caps

**Bullard Classic Series hard hats and caps continue to be the most comfortable hard hats in the industry.**

## Comfortable

Featuring a wider profile than most hard hats, Classic caps and hats offer increased protection from rain, snow, dust and harmful ultraviolet (UV) rays. With the Classic, you'll find a balanced fit with a comfortable six-point suspension.

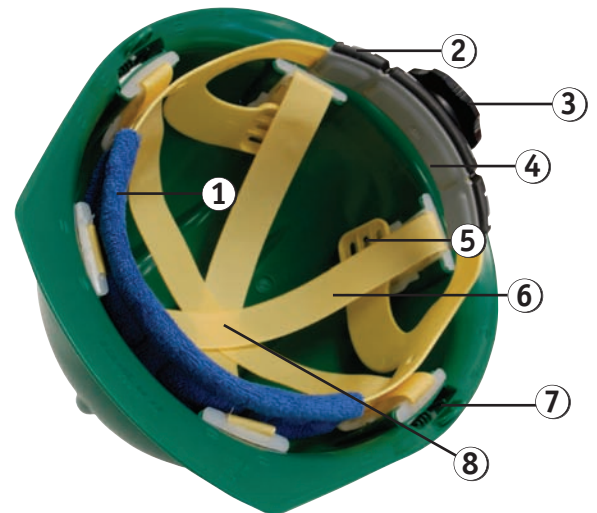
## Meets OSHA and ANSI Requirements

Models C30, C33, 911C and 911H conform to all OSHA and ANSI Z89.1-2003, Type I, Class E & G requirements, including impact, penetration and electrical.

## Decoration

No other manufacturer offers more decorating flexibility and capability than Bullard. Bullard Logo Shop uses state-of-the-art technology to imprint your company logo or safety slogan in up to six colors in virtually any lateral position on the shell. No other manufacturer offers a decoration program that is as easy, fast and reliable.

Worker visibility can be increased with Scotchlite® reflective stripes or small reflective strips in a multitude of colors. Bullard offers a variety of shell colors and can match other colors for companies requiring specific shades.



1. Pillowed Brow Pad in Vinyl, Cotton or Polartec
2. Flex-Gear Ratchet System
3. Ratchet Sizing Knob
4. Nape Cushion with Flex Points
5. Easy to Adjust Vertical Height Settings
6. Seamless Nylon Crown Straps
7. Accessory Slots for Attachments
8. Six-point Balanced Suspension

## Available Colors



# Classic Series Hard Hats and Caps

C30P

**Cap**

- High-density polyethylene shell
- Full profile, wide brim
- Accessory slots for attachments
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Case quantity: 20; minimum order: 20



C30R

**Cap**

Same as Model C30P above with

- 6-point Flex-Gear® ratchet suspension with large, absorbent cotton brow pad (RS6RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 20; minimum order: 20

C33P

**Hat**

- High-density polyethylene shell
- Full profile, full brim
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Case quantity: 10; minimum order: 20



C33R

**Hat**

Same as Model C33P above with

- 6-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS6RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 10; minimum order 20

Replacement Parts • Accessories

p. 20-25

Customization • Shell color chart

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Faceshield brackets • Visors

p. 37-43



# Classic Series High Heat Hard Hats and Caps

To meet the demands of high heat environments, Bullard produces hats and caps in technologically advanced thermoplastic materials. Constructed from the same materials as our rugged firefighter helmets, Bullard Models 911C and 911H are ideal for utilities, welding, foundries and steel mills. Select either the RS6PC self-sizing suspension or the FRS6RC Sure-Lock® non-slip ratchet suspension. Both suspensions feature 1" (2.54 cm) wide nylon straps and a cotton removable brow pad for superior absorbency and comfort. Vertical adjustment hanger keys on the front and rear positions of the headband form the basis for a truly customized fit. Hard hats and caps can be printed with company logos or safety slogans in up to six colors in virtually any lateral position on the shell. Worker visibility can be increased with Scotchlite® reflective stripes or small reflective strips in a variety of colors and a broad range of reflectivity.

Models 911C and 911H Helmets meet or exceed ANSI Z89.1-2003, Type I, Class E & G requirements.

- 911CP High Heat Cap**
- High-heat resistant thermoplastic outer shell
  - 6-point self-sizing suspension (RS6PC)
  - Cotton brow pad (RBPCOTTON)
  - Meets or exceeds ANSI Z89.1-2003 Type I, Class E & G requirements
  - Case quantity: 20; minimum order: 10

- 911CR High Heat Cap**
- Same as Model 911CP above with
- 6-point Sure-Lock® ratchet suspension (FRS6PC)
  - Cotton brow pad (RBPCOTTON)
  - Case quantity: 20; minimum order: 10



- 911HP High Heat Hat**
- High-heat resistant thermoplastic outer shell
  - Full brim model
  - 6-point self-sizing suspension (RS6PC)
  - Cotton brow pad (RBPCOTTON)
  - Meets or exceeds ANSI Z89.1-2003 Type I, Class E & G requirements
  - Case quantity: 10; minimum order: 10

- 911HR High Heat Hat**
- Same as Model 911HP above with
- 6-point Sure-Lock ratchet suspension (FRS6RC)
  - Cotton brow pad (RBPCOTTON)
  - Case quantity: 10; minimum order: 10



Head Protection

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# Standard Series

## Style and versatility.

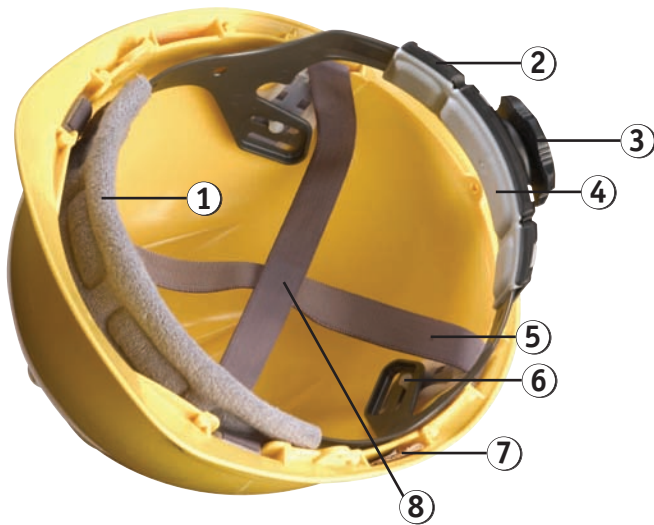
The Standard by Bullard takes style and versatility to a new level. A low-profile shell, along with the Bullard three-rib design and patented suspension system, provide maximum comfort with a look workers prefer.

## Meets OSHA and ANSI Requirements

Bullard Models S51, S61 and S71 conform to all OSHA and ANSI Z89.1-2003, Type I, Class E & G requirements, including impact, penetration and electrical insulation. Bullard Model S62 (vented) conforms to all OSHA and ANSI Z89.1-2003, Type I, Class C requirements, including impact and penetration.

## Decoration

Bullard Logo Shop uses state-of-the-art technology to imprint your company's logo or safety slogan. Whether the design is one color or six, it can be reproduced accurately, quickly and inexpensively. No other manufacturer offers a decoration program that is as easy, fast or reliable.



1. Pillowed Brow Pad in Vinyl, Cotton or Polartec
2. Flex-Gear® Ratchet System
3. Ratchet Sizing Knob
4. Nape Cushion with Flex Points
5. Seamless Nylon Crown Straps
6. Easy to Adjust Vertical Height Settings
7. Accessory Slots for Attachments
8. Four-point Balanced Suspension



## Available Colors



# Standard Series Hard Hats and Caps

S51P

**Cap**

- High-density, polyethylene shell with flat front, low-profile design
- Accessory slots for attachments
- Rain trough brim
- 4-point self-sizing suspension with poly brow pad (RS4PP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G and CSA z94.1-2005, Type 1, Class E & G requirements
- Case quantity: 20; minimum order: 20

S51R



S51R

**Cap**

- Same as Model S51P above with
- 4-point Flex-Gear® ratchet suspension with poly brow pad (RS4RP)

S61P

**Cap**

- High-density, polyethylene shell with rounded front, low-profile design
- Accessory slots for attachments
- 4-point self-sizing suspension with large, absorbent cotton brow pad (RS4PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Case quantity: 20; minimum order: 20

S61R



S61R

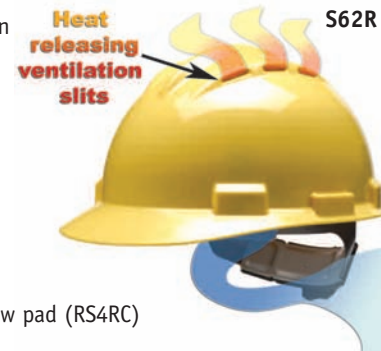
**Cap**

- Same as Model S61P above with
- 4-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS4RC)

S62P

**Cap**

- Vented shell
- High-density, polyethylene shell with rounded front, low-profile design
- Accessory slots for attachments
- 4-point self-sizing suspension with large, absorbent cotton brow pad (RS4PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class C requirements
- Case quantity: 20; minimum order: 20



S62R

S62R

**Cap**

- Same as Model S62P above with
- 4-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS4RC)

S71P

**Hat**

- High-density, polyethylene shell with a full, brim, low-profile design
- 4-point self-sizing suspension with large, absorbent cotton brow pad (RS4PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Case quantity: 10; minimum order: 20

S71R



S71R

**Hat**

- Same as Model S71P above with
- 4-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS4RC)

Replacement Parts • Accessories

p. 20-25

Customization • Shell color chart

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Faceshield brackets • Visors

p. 37-43

# Classic and Standard Series Hard Hats and Caps

## Classic Series Replacement Parts and Accessories

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### Replacement Suspensions for Models C30 and C33

RS6PC

#### 6-pt. Suspension

- 6-point self-sizing suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33



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RS6RC

#### 6-pt. Suspension

- 6-point Flex-Gear® ratchet suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33



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### Replacement Suspensions for Models 911C and 911H manufactured after 2007

FRS6RC

#### 6-pt. Suspension

- Same as above, but with Sure-Lock® Ratchet



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### Replacement Suspensions for Models 3000, 303, 911C and 911H

ESULTRA

#### 6-pt. Suspension

- 6-point self-sizing suspension
- Replaceable Sportek™ brow pad (TT1)
- Four vertical adjustment positions in front
- Five vertical adjustment positions in rear
- Includes goggle strap retaining slots
- Quadrapost sizing
- For Models 911C and 911H



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ESRTSL

#### 6-pt. Suspension

- 6-point Sure-Lock® ratchet suspension
- Replaceable Sportek brow pad (TT2)
- Two vertical adjustment positions in front and rear
- Includes goggle strap retaining slots
- For Models 911C and 911H



# Classic and Standard Series Hard Hats and Caps

## Standard Series Replacement Parts and Accessories

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### Replacement Suspensions for Models S51, S61, S62 and S71

RS4PC

#### 4-pt. Suspension

- 4-point self-sizing suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, two rear)
- For Models S51, S61, S62 and S71



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RS4RC

#### 4-pt. Suspension

- 4-point Flex-Gear® ratchet suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Models S51, S61, S62 and S71



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RS4PP

#### 4-pt. Suspension

- 4-point self-sizing suspension
- Large poly brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, two rear)
- For Models S51, S61, S62 and S71

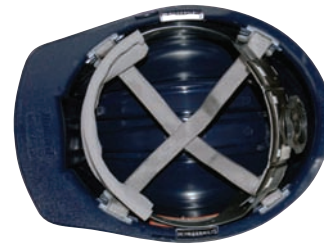


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RS4RP

#### 4-pt. Suspension

- 4-point Flex-Gear ratchet suspension
- Large poly brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Models S51, S61, S62 and S71



**Q: How do I determine the model number of my hard hat?**

**A: It's easy. Look under the brim of the hat or cap; the model number is molded right into the brim.**



# Classic and Standard Series Hard Hats and Caps

## Classic and Standard Series Replacement Parts and Accessories

<b>RBPCOTTON</b>	<b>Brow Pad</b> <ul style="list-style-type: none"><li>• Large, absorbent cotton replacement brow pad</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul>	
<b>BPVINYL</b>	<b>Brow Pad</b> <ul style="list-style-type: none"><li>• Vinyl replacement brow pad</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul>	
<b>RBPCOOL</b>	<b>Brow Pad</b> <ul style="list-style-type: none"><li>• Polartec® replacement brow pad</li><li>• Wicking material moves sweat away from the worker's brow</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul>	
<b>TT1</b>	<b>Sportek™ Replacement Brow Pad</b> <ul style="list-style-type: none"><li>• For 6-point ESULTRA self-sizing suspension</li></ul>	
<b>TT2</b>	<b>Sportek Replacement Brow Pad</b> <ul style="list-style-type: none"><li>• For 6-point ESRTSL ratchet suspension</li></ul>	
<b>R160</b>	<b>Ratchet Cover</b> <ul style="list-style-type: none"><li>• Leather ratchet cover</li><li>• Fits all Bullard ratchet suspensions</li></ul>	
<b>ES42</b>	<b>Chinstrap</b> <ul style="list-style-type: none"><li>• Elastic chinstrap</li><li>• For Models C30, C33, 911C, 911H, S51, S61, S62, S71, 3000, 302RT, 303 and MK2V</li></ul>	
<b>R50</b>	<b>Chinstrap</b> <ul style="list-style-type: none"><li>• Nomex® chinstrap with postman's slide fastener</li><li>• For Models C30, C33, 911C, 911H, S51, S61, S62, S71, 3000, 302RT, 303 and MK2V</li></ul>	
<b>GC100</b>	<b>Goggle Clips</b> <ul style="list-style-type: none"><li>• Self-adhesive</li><li>• Set of three</li></ul>	
<b>30013</b>	<b>Slot Plugs</b> <ul style="list-style-type: none"><li>• Flexible plugs for hard hat accessory slots</li><li>• Set of two</li><li>• For Models C30, S51, S61, S62, 3000 and 302RT</li></ul>	





# Classic and Standard Series Hard Hats and Caps

## Classic and Standard Series Hot Weather and UV Accessories

Bullard offers hard hat wearers a variety of inexpensive accessories that help block the sun's dangerous ultraviolet rays, keep workers cool and enhance their productivity on the job. While Bullard hard hats and caps shade the worker's head from direct sunlight, these accessories provide added protection from the discomforts associated with overexposure to the sun.

- CSS**      **Sunshade**
- 100% cotton sunshade
  - For all helmets, hard hats and caps
  - Protects neck from sun exposure and UV radiation
  - Attaches with three Velcro® strips that are provided
  - Hard hat not included



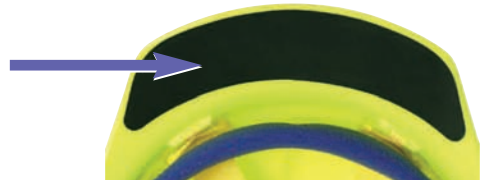
- SS5**      **Sun Shield**
- "See through" front for overhead visibility
  - Extends hat brim 360 degrees to protect face, neck and ears from sun exposure
  - Fits Models C30, 911C, S51, S61, S62 and 3000
  - Hard hat not included



- SS6**      **Sun Shield**
- Same as Model SS5 above
- Fits Models C33, S71, 911H and 3000
  - Hard hat not included



- UBG**      **Underbrim Anti-Glare Decal**
- Reduces glare
  - For all helmets, hard hats and caps
  - Hard hat not included



# Classic and Standard Series Hard Hats and Caps

## Reflective Stripes for Classic and Standard Series Hats and Caps

Single color reflective Scotchlite® brand stripes are available for improved visibility and work group identification. Bullard offers striping in two locations - around the brim and between the ribs (two stripes) of the hat.

To receive stripe pricing and delivery for multi-colored stripes or special requirements, please contact Bullard Customer Service. An application fee will apply (per hat) if Bullard applies the striping.



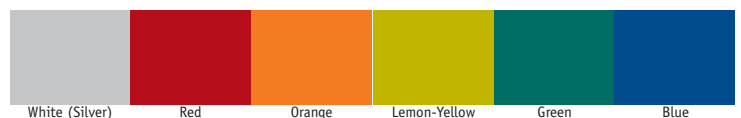
### Striping Options for Classic Series

<b>ST1R</b>	<b>Reflective Stripe (available colors listed below)</b>	<ul style="list-style-type: none"> <li>• Reflective single-color stripe for application around brim of cap/hat</li> <li>• 1 1/16" wide x 23" long</li> </ul>	
<b>ST1R500</b>	<b>Highly Reflective Stripe</b>	<ul style="list-style-type: none"> <li>• 500 CPL silver stripe for application around brim of cap/hat</li> <li>• 1 1/16" wide x 23" long</li> </ul>	
<b>ST1RORG175</b>	<b>Fluorescent Reflective Stripe</b>	<ul style="list-style-type: none"> <li>• 175 CPL orange stripe for application around brim of cap/hat</li> <li>• 1 1/16" wide x 23" long</li> </ul>	
<b>ST2R</b>	<b>Single-color Stripes (available colors listed below)</b>	<ul style="list-style-type: none"> <li>• Reflective single-color stripe for application between ribs of cap/hat</li> <li>• 1 3/4" wide x 17" long</li> </ul>	

### Striping Options for Standard Series

<b>STRSS</b>	<b>Reflective Stripe (available colors listed below)</b>	<ul style="list-style-type: none"> <li>• Reflective single-color stripe for application around brim of cap/hat</li> <li>• 1" wide x 21 1/2" long</li> </ul>	
<b>STRSS500</b>	<b>Highly Reflective Stripe</b>	<ul style="list-style-type: none"> <li>• 500 CPL silver stripe for application around brim of cap/hat</li> <li>• 1" wide x 21 1/2" long</li> </ul>	
<b>STRSSORG175</b>	<b>Fluorescent Reflective Stripe</b>	<ul style="list-style-type: none"> <li>• 175 CPL orange stripe for application around brim of cap/hat</li> <li>• 1" wide x 21 1/2" long</li> </ul>	

### Standard Stripe Colors for ST1R, ST2R and STRSS





# Classic and Standard Series Hard Hats and Caps

## Reflective Stripes for Classic and Standard Series Hats and Caps

<b>R538</b>	<b>Retro-Reflective Stripe</b> <ul style="list-style-type: none"> <li>• Set of three white Scotchlite® stripes</li> <li>• 1" x 4"</li> </ul>	
<b>R540</b>	<b>Retro-Reflective Stripe</b> <ul style="list-style-type: none"> <li>• Set of three lime-yellow Scotchlite stripes</li> <li>• 1" x 4"</li> </ul>	
<b>R541</b>	<b>Retro-Reflective Stripe</b> <ul style="list-style-type: none"> <li>• Set of three red-orange Scotchlite stripes</li> <li>• 1" x 4"</li> </ul>	

### Candle Power of Reflective Stripes

Bullard Model Number	Stripe Daytime Color	Stripe Reflected Color	Typical Brightness (Candle Power)
STRSS/ST1R/ST2RWHT	White	White	100
STRSS/ST1R/ST2RRRED	Red	Red	20
STRSS/ST1R/ST2RORG	Orange	Orange	25
STRSS/ST1R/ST2RYLW	Yellow	Yellow	60
STRSS/ST1R/ST2RGRN	Green	Green	15
STRSS/ST1R/ST2RBLU	Blue	Blue	10
ST1R500	Silver	White	500
STRSS500	Silver	White	500
ST1RORG175	Fluorescent Red-Orange	White	175
STRSSORG175	Fluorescent Red-Orange	White	175
R538	Silver	White	500
R540	Fluorescent Lime-Yellow	White	175
R541	Fluorescent Red-Orange	White	175

Custom striping available upon request.

# Bump Caps

Designed for industries such as meat and food processing, utility meter reading, pest control, fruit harvesting and auto repair, models MK2V and First Base® offer a variety of user options. Bullard bump caps provide limited protection against minor bumps and abrasions, but are not designed for applications requiring ANSI approved head protection.

## MK2V

Made from high-density polyethylene, the MK2V is ventilated, lightweight and durable. An adjustable inner suspension accommodates different head sizes. This cap can be used with a faceshield bracket (GL5) and visor when face protection is required.

The MK2V can be decorated with company logos or safety slogans in up to six colors on the front of the cap.

## First Base®

The First Base bump cap combines comfort and protection for the wearer in the style of a baseball cap. It has a lightweight design and benefits in strength and protection from a molded ABS inner liner. An inner foam pad is also included to provide all-day user comfort. The simple one-size-fits-all adjustment ensures a superior fit for all workers.

Model FB2000 comes standard with eight large eyelet holes for superior ventilation. A non-vented model (FB2001) is also available. Monogramming is available for a fully customized look.



## Available Colors





# Bump Caps

## MK2V

MK2V

### Bump Cap

- Ventilated plastic shell
- 4-point adjustable suspension system (MKHB)
- Soft vinyl brow pad
- Faceshield bracket available (GL5)
- Case quantity: 25



## MK2V Replacement Parts

MKHB

### 4-point Suspension

- 4-point adjustable suspension
- Soft vinyl brow pad (TT1V1)



GL5

### Dielectric Bracket

- Front mounting nylon bracket
- For MK2V bump cap only
- Hard hat and visor not included



# Bump Caps

## First Base®

FB2000

### Ventilated Cap

- Eight large, sewn eyelet holes
- ABS liner
- Foam pad



FB2001

### Non-ventilated cap

- ABS liner
- Foam pad



Available in 10 colors: Navy Blue, Royal Blue, Dark Green, Red, Yellow, White, Hi-Viz Orange, Khaki, Grey and Black.



## First Base Replacement Parts

FBFOAM

Foam Pad for First Base Bump Cap



### Custom Embroidery Available

- 24 piece minimum on custom embroidered caps
- Logos of up to six colors (up to 8,000 stitch count) can be embroidered on front of cap
- Embroidered sample provided for approval
- One time digitization fee on initial order - contact Customer Service for details

# Decoration for Hard Hats and Caps

## Customizing your hard hats has never been easier!

The hard hat is one of the most recognized pieces of safety equipment on any work site. Take advantage of this opportunity to advertise company products or services, improve worker visibility and identify worker differentiation. Whether you supply camera-ready artwork or your logo on a business card or letterhead, Bullard will create a hard hat that comes alive to promote your organization's unique identity.

- No artwork charges
- No set-up charges
- Free proofs
- 20 piece minimum
- Quickest delivery in the industry

Pad printed logos are permanent and will not peel, crack or fade like a decal or sticker. Bullard uses the latest technology available to print clear, crisp logos in up to six different colors per logo - up to eight different locations around the cap - on any Bullard helmet, hat or cap. We also offer a variety of Scotchlite® striping options in various colors and reflectivity. Stripes can be applied around the brim or between the ribs of the hat. Decorative stripe colors are available to accent your custom logo, or use fluorescent and highly reflective stripes to improve worker visibility.

# ***Bullard*** ***LOGO SHOP***

# Decoration for Hard Hats and Caps

## Hard Hat Shell Color Selection Chart

STANDARD COLORS	Abbrev.	PMS Color	ADVENT	VECTOR	S51, S61, S62 S71	911C, 911H	C30, C33, MK2V
White	WH	n/a	•	•	•	•	•
Light Pink	LP	1895C			•		•
Red	RD	186C	•	•	•	•	•
Chocolate Brown	CB	469			•		•
Tan	TN	729C			•		•
Orange	OR	173C	•	•	•	•	•
Hi-Viz Orange	HO	021C		•	•		•
Yellow	YL	109C	•	•	•	•	•
Hi-Viz Yellow	HY	387C		•	•		•
Hi-Viz Green	HG	361C			•		•
Kelly Green	KG	348C			•		•
Forest Green	FG	3425C		•	•		•
Navy	NB	2757C		•	★		★
Kentucky Blue	KB	301C	•	•	•	•	•
Pacific Blue	PB	300C			•		•
Sky Blue	SK	2985C			★		★
Slate Blue	SL	549C			★		★
Gull Gray	GG	428C			★		★
Dove Gray	DG	424C			•		•
Black	BK	n/a			•		•

• - Cap/hat available in this color at a standard four business day lead time.

★ - Cap/hat available in this color at an extended 10 business day lead time.

**Special colors available:** 500 piece minimum. Call the Bullard Customer Service Department for pricing and lead time. Must furnish PMS number or color match sample.

## Brilliant Headgear!

### High-Visibility Colors:

The Bullard line of long-lasting, hi-visibility fluorescent shell colors make workers more visible than ever. In choosing a color it is important to consider the work surroundings. Available in hi-viz orange, green and yellow, you can select the most appropriate contrasting color for the job site to ensure that workers get noticed. These true fluorescent colors are visible under a black light and provide the greatest visible color impact.





# Decoration for Hard Hats and Caps

## Logo Size Chart (by hat model)

Hat/Cap Model	Dimensions	Maximum Size		
		Front	Side	Back
Advent® A1, A2, Vector	Width (length) Height	3" 3"	4" 1 3/4"	3" 3"
C30, C33, 911C, 911H	Width (length) Height	2 3/4" 2 1/2"	4" 1 3/4"	2 3/4" 2 1/2"
S61, S62	Width (length) Height	2 1/4" 2"	3 1/4" 1 1/2"	2" 2"
S71	Width (length) Height	2" 2"	3 3/4" 1 3/4"	2 3/4" 1 3/4"
S51	Width (length) Height	2 1/8" 2 3/4"	4" 1 3/4"	2 3/4" 2 1/2"
MK2V	Width (length) Height	3" 2"	N/A N/A	N/A N/A

Models S61, S62 and S71 have a low profile with more curvature, which may require that some logos be printed smaller than listed above. Bullard will print all logos to maximum size allowed based on the logo design and shape. Bullard must receive artwork before exact logo size can be determined.

Note: The size may vary on square or rectangular logos.

The location of the logo must be specified on the Bullard decoration order form. Artwork is reduced or enlarged proportionately to the maximum width or height to achieve the optimal logo size, unless a specific, smaller size is requested. Lines under 1/32" should be avoided.



# Decoration for Hard Hats and Caps

## How do I get a hard hat logo order started?

Simple. If your customers have 20 pieces or more (that's the minimum), complete the Decoration Order Form, available at [www.bullard.com](http://www.bullard.com). This includes hat style and color, position of the logo on the hat and the colors used in the logo. This will not only clarify exactly what the customer wants, but will also compile all the information needed.

## How should I submit a logo to the Bullard Logo Shop?

Ask the customer for "vector" or "line art." This is usually a file with an extension of **.eps**, **.fh**, **.ai** and sometimes **.pdf**. (Don't worry if this is a file type you can't open, just send it to us and we'll check it out for you.) If a **.jpeg**, **.tiff** or **.pdf** file is all that is available, Bullard will need to re-create the logo, but there's no charge for this. It does, however, increase the time it takes to produce a proof for your customer.

If absolutely no digital file is available, we can also scan high-quality printed versions of the logo.

Digital files can be e-mailed to [bullardart@bullard.com](mailto:bullardart@bullard.com).

## Does printing a logo on a hard hat cause a big delay in delivery?

Our turnaround time is the best in the industry.

## Where can I find the information I need?

Contact the person who created the logo at your customer's company. The customer may want to check with a printer who has printed anything with the logo on it for the appropriate artwork. You will also need Pantone color numbers for the logo, which can most likely also be found from this person.

Because color is highly subjective, and different computer monitors and printers show colors differently, the Pantone Matching System (PMS) is the universally accepted system to identify colors.

Can't find a Pantone number? Your customers can select a Bullard hard hat color for use in their logos.

## Where can logos be printed?

Your customer can choose among eight locations on the hat: front center, back center, front and back temples, and the sides.

## I still have questions.

Still have questions? Feel free to call Customer Service at (877) BULLARD or e-mail us at [decospecialist@bullard.com](mailto:decospecialist@bullard.com). We're always happy to help you in any way we can... you're our partner in providing the best possible product to our customers.

## Mixing Cap Colors or Models on an Order

- Colors: A minimum order of 20 pieces is required per cap/hat color. Colors can be mixed (with minimums of 20 per color) to meet a larger logo price break, providing that the logo and configuration remain the same.
- Models: Cap and hat models cannot be mixed to meet a logo price break.

## Logo Archiving

Bullard will archive logos for up to 24 months. If a logo has not been used within two years, we request that new artwork be submitted.

## Tips for getting camera-ready artwork:

1. Ask your customer for **vector or line art** or the original art used to print business cards, signs, letterhead, etc.
2. Ask for art that can be **converted to points and paths**, and includes any embedded files.
3. Remember, in most cases, neither you nor your customer may be able to open the file. That's usually the file we need.



Distributor: \_\_\_\_\_ Contact: \_\_\_\_\_ PO#: \_\_\_\_\_

Logo: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

### HARD HAT INFORMATION

CHOOSE HARD HAT MODEL AND SUSPENSION:

Ratchet       Pinlock

**Classic:**  C30 Cap     C33 Full Brim

**Advanced:**     Vector Cap     Advent Cap

**Standard:**  S51 Cap     S61 Cap     S62 Vented Cap     S71 Full Brim

**High-Heat:**     911C Cap     911H Full Brim

CHOOSE HARD HAT COLOR AND INDICATE QUANTITY:

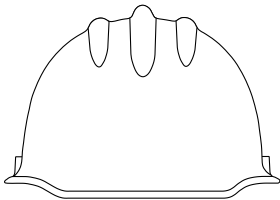
<input type="checkbox"/> Black	<input type="checkbox"/> Dove Gray	<input type="checkbox"/> Gull Gray*	<input type="checkbox"/> Slate Blue*	<input type="checkbox"/> Sky Blue*
<input type="checkbox"/> Pacific Blue	<input type="checkbox"/> Kentucky Blue	<input type="checkbox"/> Navy Blue	<input type="checkbox"/> Forest Green	<input type="checkbox"/> Kelly Green
<input type="checkbox"/> Hi-Viz Green	<input type="checkbox"/> Hi-Viz Yellow	<input type="checkbox"/> Yellow	<input type="checkbox"/> Hi-Viz Orange	<input type="checkbox"/> Orange
<input type="checkbox"/> Tan	<input type="checkbox"/> Chocolate Brown	<input type="checkbox"/> Red	<input type="checkbox"/> Light Pink	<input type="checkbox"/> White

\*requires an extended 10 business day lead time.

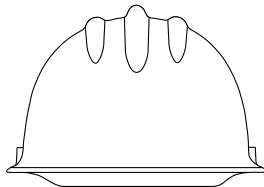
### LOGO INFORMATION

MARK THE POSITION OF LOGO AND TEXT ON EACH LOCATION.

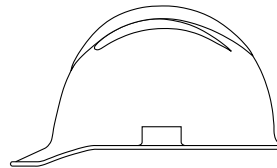
front



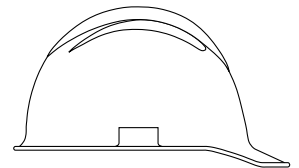
back



left



right



Pantone (PMS) colors:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Pantone (PMS) colors:

\_\_\_\_\_  
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Pantone (PMS) colors:

\_\_\_\_\_  
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Pantone (PMS) colors:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### REFLECTIVE STRIPING

**CLASSIC HATS:**     ST1R (around brim)     ST2R (between ribs)

**STANDARD HATS:**     STRSS (around brim)

Striping Colors: \_\_\_\_\_  Custom (call for pricing and minimums)

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Return order form to [decospecialist@bullard.com](mailto:decospecialist@bullard.com) or fax to 859-234-6858.

Distributor: \_\_\_\_\_ Contact: \_\_\_\_\_ PO#: \_\_\_\_\_

Logo: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

### BUMP CAP INFORMATION

#### CHOOSE CAP STYLE:

FB2000 (Vented)

FB2000 (Non-vented)

#### CHOOSE BUMP CAP COLOR AND INDICATE QUANTITY:

Navy Blue

Royal Blue

Dark Green

Red

Yellow

White

Hi-Viz Orange

Khaki

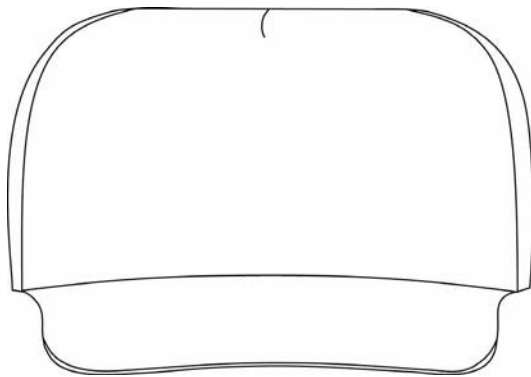
Gray

Black

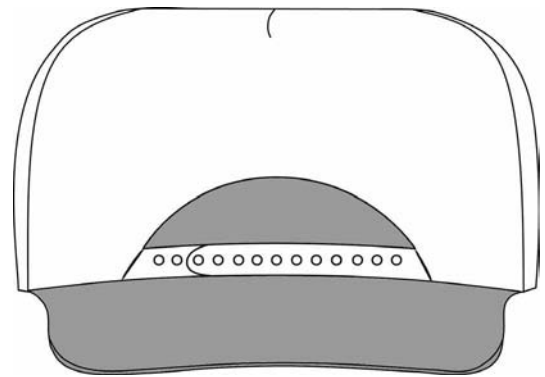
### LOGO INFORMATION

MAXIMUM LOGO SIZE: Width: 4 1/2", Height: 2 1/2"

front



back



Back comes standard with Bullard logo. Back can be ordered plain, or your logo can be placed here.

Pantone (PMS) colors in logo (Six color maximum) \_\_\_\_\_

Return order form to [decospecialist@bullard.com](mailto:decospecialist@bullard.com) or fax to 859-234-6858.

# Decoration for Hard Hats and Caps

## Stock Logos

If you don't have your own artwork to use on your decorated Bullard hard hat, you might find something in our selection of stock logos. Just indicate the number on your deco order form and tell us where to imprint the art.



### Stock Logos Available:



PP290



**THINK SAFETY**

PP24689



PP6460

**VISITOR**

PP5009

**SAFETY  
FIRST**

PP24870

*Safety  
depends on  
You!*

PP6122

More available  
on our  
website -  
[www.bullard.com](http://www.bullard.com)

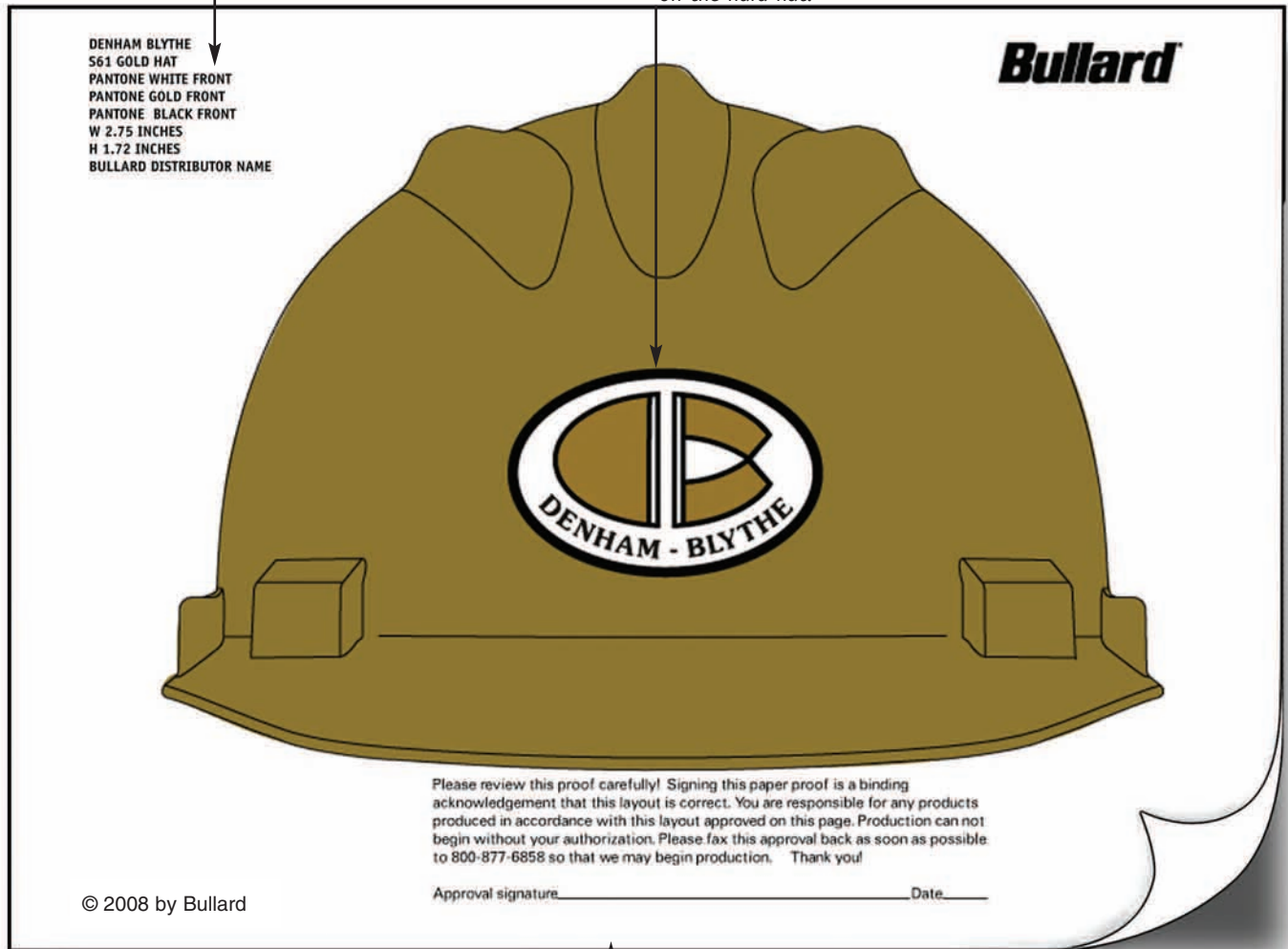
# Decoration for Hard Hats and Caps

## Proofing your decorated hard hat

You'll always receive a paper proof of your deco hard hat before we print them. Whether you receive it via e-mail, fax or mail, we'll wait for your signed approval before we print the first hat.

You can check the imprint size, logo colors and position here.

See how your logo will look on the hard hat.



Actual size: 8 1/2 x 11 inches

Sign and date the proof here, and fax it to Bullard Customer Service to initiate the order.



## Headgear, Brackets and Visors

### Sentinel Series Headgear

For the ultimate value in lightweight, comfortable face protection, Bullard Sentinel Series headgear is the obvious choice.

All Sentinel Series headgear include two sizing features for enhanced comfort. The ratchet adjusts the headband to sizes 6½" to 8", and it will not slip from the selected size. The crown strap conforms to the shape of the head. The brow pad, made of Sportek™ and offered exclusively by Bullard, pulls moisture away from the skin, creating a drier, more comfortable fit. Brow pads are hand washable and replaceable. Sentinel easily accommodates both primary eye protection and half-facepiece style respirators.

### Hard Hat Mounted Face Protection

When the job calls for both head and face protection, choose from our complete line of nylon or gold anodized aluminum brackets. Brackets are available in several mounting styles that attach securely to Bullard hard hats and caps.

Dielectric brackets are formed from lightweight, durable nylon and are ideal for general duty applications. Bullard Gold Line brackets are constructed from rugged, gold anodized aluminum. They are highly resistant to corrosion and heat, and are ideal for chemical handling and high-heat industrial applications.

### Visors

Bullard visors conform to ANSI Z87.1-2003 standard for eye and face protection when used in combination with Bullard headgear or faceshield.

# Face Protection

## Sentinel Headgear

---

**SENTINEL1****Faceshield Headgear**

- Faceshield sold separately
- Standard headgear with black ABS crown protector
- Sure-Lock® ratchet sizing with Sportek™ brow pad (TT3)
- For use with Bullard faceshields, EXCEPT 840MX2 and 840PX2
- Meets or exceeds ANSI Z87.1-2003



---

**SENTINEL2****Faceshield Headgear**

- Faceshield sold separately (840MX2 or 840PX2 only)
- Standard headgear with black ABS crown and chin protector combination
- Sure-Lock ratchet sizing with Sportek brow pad (TT3)
- Meets or exceeds ANSI Z87.1-2003



---

**CP1****Chin Protector**

- Black ABS replacement chin protector
- For use with Sentinel 2



---

**CP2****Chin Protector**

- Clear polycarbonate replacement chin protector
- For use with Sentinel 2





# Face Protection



C33 with 312B Bracket



## Nylon Brackets

300B

**Dielectric Bracket**

- Front mounting nylon bracket
- For cap style Models C30, 302RT, Advent®, S51, S61 and S62



300BW

**Dielectric Bracket**

- Front mounting nylon bracket with neoprene gasket
- For cap style Models C30, 302RT, Advent®, S51, S61 and S62



312B

**Dielectric Bracket**

- Front mounting nylon bracket
- For full-brim hat Model C33 and S71



400

**Dielectric Bracket**

- Front mounting nylon bracket with blades for accessory slot attachment
- For slotted cap style Models C30, 302RT and S51



# Face Protection

## Aluminum Brackets

100G

**Gold Line Bracket**

- Front mounting aluminum bracket
- For cap style Models C30, S51, S61, S62 and 911C



110G

**Gold Line Bracket**

- Back mounting aluminum bracket
- For cap style Models C30, 302RT, 911C, FH911C and S51



112G

**Gold Line Bracket**

- Front mounting aluminum bracket
- For full-brim hat Models C33, 911H, FH911H and S71



500M

**Gold Line Bracket**

- Front mounting aluminum bracket with blades for accessory slot attachment
- For cap style Models C30 and 302RT



GL5

**Dielectric Bracket**

- Front mounting nylon bracket
- For MK2V bump cap only



# Face Protection

## Faceshield Visors

### Flat Acetate Visors

1040

**Visor**

- 10" x 15" x .040"
- Clear flat acetate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



640

**Visor**

- 6" x 15" x .040"
- Clear flat acetate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



640G

**Visor**

- 6" x 15" x .040"
- Dark green flat acetate visor for all Bullard brackets
- 14± 4 percent visible light transmittance
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



840M

**Visor**

- 8" x 15" x .040"
- Clear flat acetate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



840MG

**Visor**

- 8" x 15" x .040"
- Dark green flat acetate visor for all Bullard brackets
- 14± 4 percent visible light transmittance
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



840MX2

**Visor**

- 7" x 15" x .040"
- Clear flat acetate visor for use with Sentinel 2 headgear
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



CS40

**Visor**

- 9" x 19 3/4" x .040"
- Clear flat acetate visor for all Bullard brackets
- Specially designed for chemical splash applications
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



# Face Protection

## Faceshield Visors

---

### Heat-Formed Acetate Visors

840MH

**Visor**

- 8" x 15" x .040"
- Clear heat-formed acetate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



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860H

**Visor**

- 8" x 15" x .060"
- Clear heat-formed acetate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



---

### Heat-Formed Polycarbonate Visors

680P

**Visor**

- 6" x 15" x .080"
- Clear heat-formed polycarbonate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



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840P

**Visor**

- 7" x 15" x .040"
- Clear heat-formed polycarbonate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



---

840PX2

**Visor**

- 7" x 15" x .040"
- Clear heat-formed polycarbonate visor
- For use with Sentinel 2 headgear
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



---

860P

**Visor**

- 8" x 15" x .060"
- Clear heat-formed polycarbonate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



# Face Protection

## Faceshield Visors

---

### Heat-Formed Polycarbonate Visors

880P

**Visor**

- 8" x 15" x .080"
- Clear heat-formed polycarbonate visor for all Bullard brackets
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



---

WS60PM

**Visor**

- 9" x 19 3/4" x .060"
- Clear polycarbonate visor - NOT heat-formed
- Meets ANSI Z87.1-2003 High Impact Testing Requirements



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### Mesh Screen Visor

8S24

**Visor**

- 8" x 15" x 24 mesh
- Mesh black steel screen with aluminum band visor fits all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



---

### Flat Polyester Visor

840ME

**Visor**

- 8" x 15" x .040"
- Clear flat polyester visor for all Bullard brackets
- Meets ANSI Z87.1-2003 Basic Impact Testing Requirements



# ISOTHERM® Cool Vest

## The future of body temperature management.

### Isotherm Cool Vest

Bullard revolutionary Isotherm technology offers unparalleled cooling power. Unlike ice or gel packs that steadily lose their effectiveness, Bullard Isotherm Cool Vests will remain at a CONSTANT 55° F for hours of cooling. Isotherm can help reduce the chance of heat-related illnesses that sometimes occur in today's difficult work environments. Isotherm is lightweight, quickly recharged and does not leave condensation. It uses a simple, interchangeable, front/back cool pack system that provides continuous cooling to the worker's upper body. The vests are easily adjustable for maximum comfort and flexibility.

The Isotherm 2 provides cooling for approximately 2½ hours. The period of cooling depends solely on work activity and environmental conditions. Dark blue vest material is flame retardant. Fits medium to extra-large sizes. Weight: 6.5 lbs. (2.9kg)

### ISOTHERM Replacement Packs

No waiting. No down time. Keep extra cool packs ready for instant on-site changes. Made of specially engineered plastic, Isotherm packs are designed to expand up to 400% without damage. The cooling agent within the pack is a safe, non-toxic and non-carcinogenic formulation. Cool packs may be re-energized thousands of times providing hours of safe, controlled body temperature management. Placed in a cooler of ice water, the cool packs will fully recharge in approximately 20 minutes. However, ice water is not necessary as the phase change technology actually begins recharging the packs whenever they are placed in an environment that is cooler than 55° F.



# ISOTHERM Cool Vest



- IS02HY Isotherm 2 Hi-Viz Yellow**
- Large cooling vest, fits medium to large sizes
  - Includes vest and one set of packs
  - Hi-viz yellow fabric



- IS02HYXL Isotherm 2 Hi-Viz Yellow Extra-Large**
- Extra-large cooling vest, fits extra-large sizes
  - Includes vest and one set of packs
  - Hi-viz yellow fabric

- IS02 Isotherm 2**
- Large cooling vest, fits medium to large sizes
  - Includes vest and one set of packs
  - Dark blue, flame retardant fabric



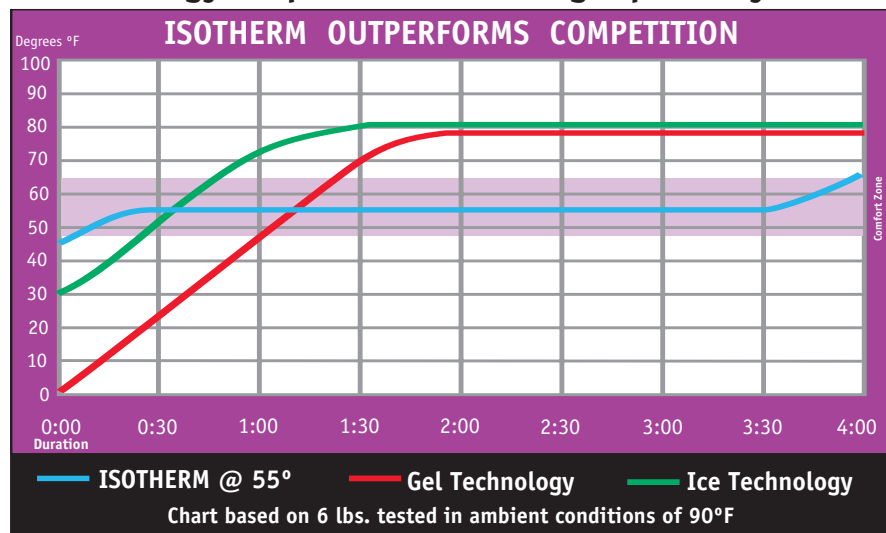
- IS02XL Isotherm 2 Extra-Large**
- Extra-large cooling vest, fits extra-large sizes
  - Includes vest and one set of packs
  - Dark blue flame retardant fabric

- IS02P Replacement Packs**
- For IS02, large vest
  - One set of two packs (front and back)



- IS02V Replacement Vest**
- IS02, large vest
  - Includes vest only
  - Dark blue, flame retardant fabric

## Constant temperature phase-change technology outperforms ice and gel packs by hours



# The Turtle Club

## The Turtle Club: For People Who Do Things Right!

### Founded 1946

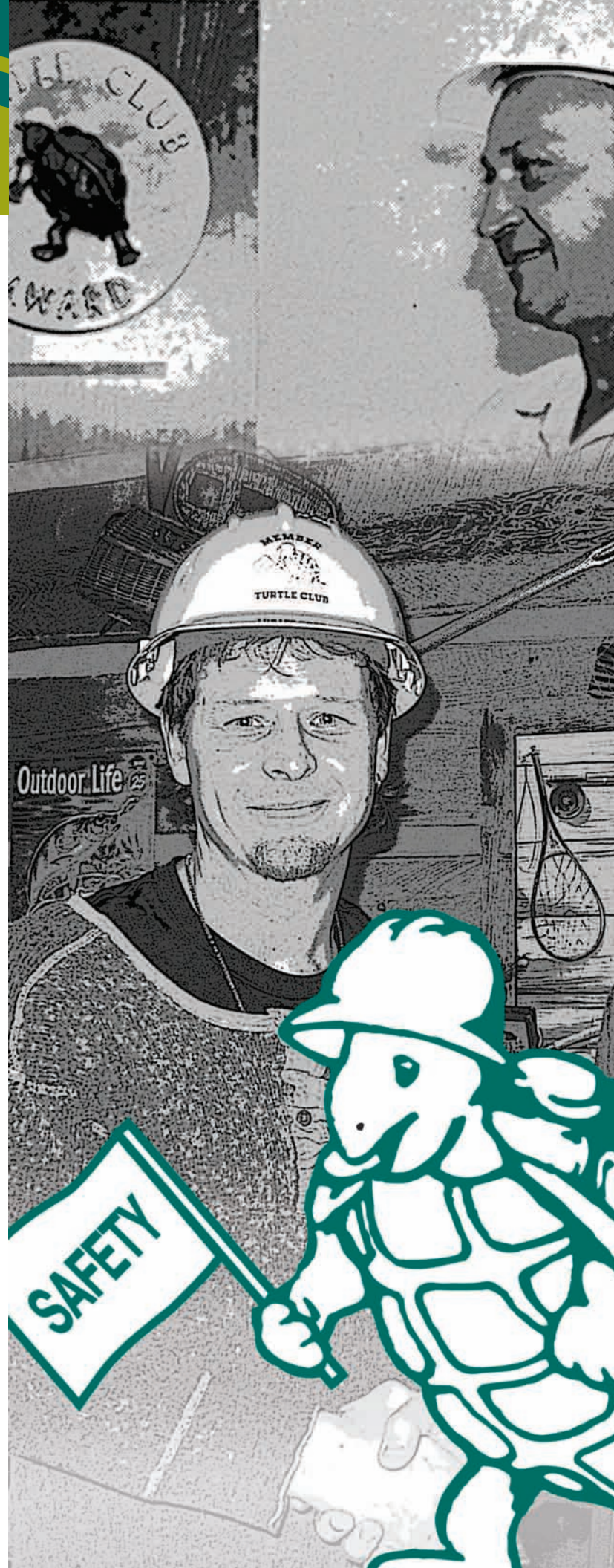
Most news is made when things go wrong, but shouldn't employees get recognition for doing things right? That's the reason the Turtle Club was founded. This organization is dedicated to saving lives and preventing injuries by promoting the acceptance and use of hard hats. Industrial accidents can happen anytime and anywhere, so wearing required head protection can reduce the risk of serious injury. The Turtle Club honors men and women who escaped injury because they were wearing hard hats at the time of industrial accidents.

### A Different Kind of Safety Incentive

Safety professionals are always looking for new ways to promote safety both on and off the job. While incentives and awards programs are excellent, most focus on accident prevention. The Turtle Club is a participatory program for workers that have proven to be a valuable adjunct to traditional industry head protection safety efforts.

### Over 50 Years and Still Going Strong

The Turtle Club was founded in 1946 by C. R. "Rusty" Rustemeyer, Safety Director at Canadian Forest Products, Ltd. In 1950, Mr. Edward W. Bullard, Sr., was then appointed the Turtle Club sponsor. This appointment was particularly appropriate since, in 1919, Mr. Bullard developed the industry's first universally accepted hard hat, the original "Hard Boiled" hat. Today the club's international sponsor is Mr. E. D. "Jed" Bullard, grandson of E. W. Bullard. Because of Jed Bullard's commitment and efforts, interest in the club remains active, and membership continues to grow.





# The Turtle Club

## A Tradition Continues

Membership requirements for The Turtle Club are the same today as they were in 1946. Men and women who have escaped serious injury by wearing hard hats can be nominated for membership by their supervisor or company safety director. Each new member receives a new hard hat, membership certificate, membership card, Turtle Club pin and Turtle Club decal. There are no dues or membership fees.

## A Dedication to Safety

Members of the club pledge to "Practice safety, wear head protection when necessary and to conscientiously encourage others to do so." This pledge, though more than 50 years old, is just as important today as it was five decades ago.

### Rick Hamilton, Bullard Turtle Club Member:

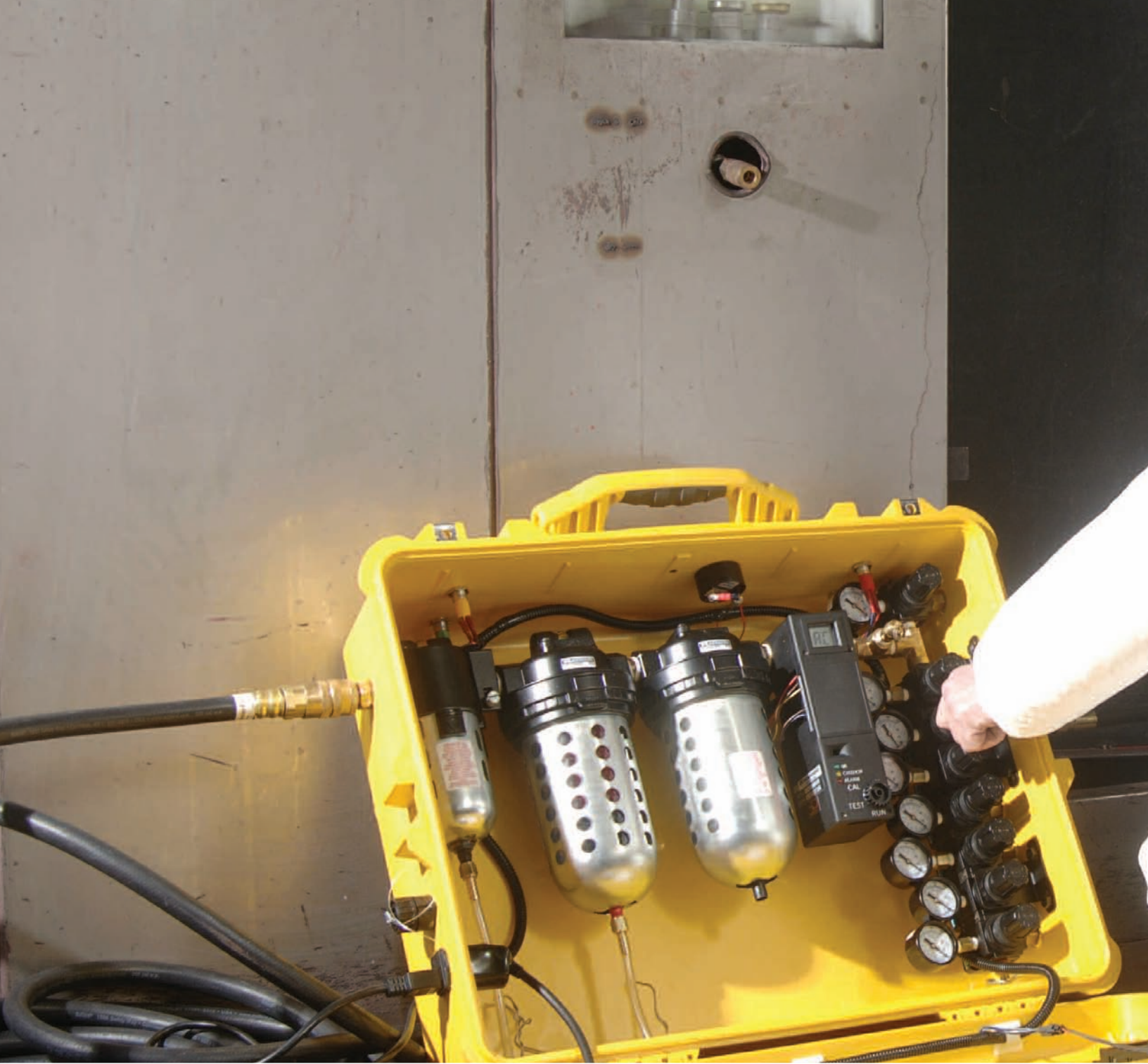
*"Hi there.*

*My name is Rick Hamilton, I am writing in regards to your hard hat. I am a West Coast Faller, and I live and work on Vancouver Island, in British Columbia, Canada. I was wearing a Bullard hard hat while I was working, on June 16 2005, and got struck by a 14 foot limb that hit me directly in the head. I suffered a linear fracture through the roof of the right orbital plate. The hat broke on the front right corner, and it saved my life. Now I live to tell about it. Without the hat, I would have been killed. I just wanted to share my story and thank you for your superior hard hats!"*

*-Rick Hamilton*

Nominate a Turtle Club Member today at  
[www.bullard.com/turtleclub](http://www.bullard.com/turtleclub)





# Respiratory Protection and Air Quality Products



Blasting and Grinding • Painting and Powder Coating  
• Clean Room Applications • Pharmaceutical Manufacturing  
• Infection Control • Hospital Preparedness • Chemical Handling

***Bullard***<sup>®</sup>

# Respiratory Protection: Questions and Answers

## Q: What do these abbreviations mean?

### A: Key Respiratory Terms

**APF** - Assigned Protection Factor (APF) is the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program.

**IDLH** - Immediately Dangerous to Life and Health (IDLH) means an atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects or would impair an individual's ability to escape from a dangerous atmosphere.

**MUC** - Maximum use concentration (MUC) means the maximum atmospheric concentration of a hazardous substance from which an employee can be expected to be protected when wearing a respirator, and is determined by the assigned protection factor of the respirator or class of respirators and the exposure limit of the hazardous substance.  $MUC = APF \times PEL$  or IDLH concentration (whichever is lower).

**NIOSH** - National Institute for Occupational Safety & Health ([www.cdc.gov/niosh](http://www.cdc.gov/niosh)) is a research organization that approves respirators.

**OSHA** - Occupational Health & Safety Administration ([www.osha.gov](http://www.osha.gov)) is an enforcement agency that ensures workplaces are following the standards detailed in 29CFR1910.134 and other standards.

**PEL** - The Permissible Exposure Limit (PEL) is the contaminant concentration enforced by OSHA.

## Q: How do I select a respirator?

### A: Respirator Selection

According to OSHA, it is the responsibility of the employer to evaluate workplace hazards (if any) and implement appropriate controls to protect the worker. When engineering and/or administrative controls aren't technically or financially feasible, PPE may be used to protect the worker. When respiratory PPE is needed, the following steps may be helpful as you select a respirator:

1. Analyze the hazard
2. Assess physical characteristics of work area
3. Assess the demands of the work
4. Evaluate respirator capabilities and limitations
5. Select an air source
6. Select a head top

## Bullard Work Systems



Industry	Spectrum Series	FAMB Series	88VX Series	CC20 Series	GR50 Series	PA20 Series	PA30 Series	PA30IS Series	PA40 Series
Painting	•	•	•	•				•	
Chemical Handling	•	•		•					
Abrasive Blasting			•						
Grinding					•				
Healthcare				•		•	•		
Pharmaceutical Manufacturing				•		•	•	•	
General Industry	•	•	•	•	•	•	•	•	•

# Respiratory Protection: Questions and Answers

## Q: What agencies regulate respiratory protection?

**A:** There are numerous agencies that are involved in one or more of the following: testing and approving respirators, establishing standards and enforcing standards. These agencies include: American National Standards Institute (ANSI), Compressed Gas Association (CGA), National Institute of Occupational Health (NIOSH), Mine Safety Health Administration (MSHA) and Occupational Safety & Health Administration (OSHA). NIOSH, under the jurisdiction of the U.S. Department of Public Health and the Center for Disease Control (CDC), is the primary agency for testing and approving respirators. OSHA, under the U.S. Department of Labor, is the primary agency for enforcing respiratory protection standards.

Respiratory Protection Resources	
Protection Factor Research .....	52
PAPR Protection Factors .....	53
PAPR Selection Chart .....	54
Respiratory Protection Standards .....	92
SAR Protection Factors .....	93
CC20 SAR Selection Chart .....	95
RT Series SAR Selection Chart.....	111
PC90 Series SAR Selection Chart .....	118
88VX Series SAR Selection Chart .....	125
Lancer Series SAR Selection Chart .....	138
GR50 Series SAR Selection Chart .....	147



### WARNING

Consult product literature and instruction manuals for information on the proper function, use and maintenance of these respirators. Before using a Bullard respirator, Federal Law requires the employer to identify and evaluate the respiratory hazard(s) in the workplace including a reasonable estimate of employee exposure to respiratory hazard(s) and an identification of the contaminant's chemical state and physical form. Do not exceed maximum use concentrations established by OSHA, EPA, NIOSH, ACGIH or other regulatory standards.

In accordance with Title 42 Code of Federal Regulations Part 84 and 29 CFR 1910.134, respirator repairs or adjustments shall be made using only Bullard NIOSH approved parts designed for the respirator. Use of any other parts on these respirators VOIDS NIOSH APPROVAL. Failure to follow these instructions could result in death or serious injury.

# Respiratory Protection: Questions and Answers

## Q: What is a protection factor?

**A:** Assigned Protection Factors (APFs) provide employers with key information about a respirator's expected ability to reduce the level of hazardous particles, gases and vapors present in the work environment that reach the worker's breathing zone. Proper respirator selection is based on the respirator's APF number, the concentration of the hazard and fit testing. These are components of an OSHA-compliant respiratory protection program. The OSHA recognized APFs for different types of respirators are found in the table below:

TABLE 1.—ASSIGNED PROTECTION FACTORS <sup>5</sup>

Type of respirator <sup>1,2</sup>	Quarter mask	Half mask	Full face-piece	Helmet/hood	Loose-fitting facepiece
1. Air-Purifying Respirator .....	5	<sup>3</sup> 10	50	.....	.....
2. Powered Air-Purifying Respirator (PAPR) .....	.....	50	1,000	<sup>4</sup> 25/1,000	25
3. Supplied-Air Respirator (SAR) or Airline Respirator					
• Demand mode .....	.....	10	50	.....	.....
• Continuous flow mode .....	.....	50	1,000	<sup>4</sup> 25/1,000	25
• Pressure-demand or other positive-pressure mode .....	.....	50	1,000	.....	.....
4. Self-Contained Breathing Apparatus (SCBA)					
• Demand mode .....	.....	10	50	50	.....
• Pressure-demand or other positive-pressure mode (e.g., open/closed circuit) .....	.....	.....	10,000	10,000	.....

**Notes:**

<sup>1</sup> Employers may select respirators assigned for use in higher workplace concentrations of a hazardous substance for use at lower concentrations of that substance, or when required respirator use is independent of concentration.

<sup>2</sup> The assigned protection factors in Table 1 are only effective when the employer implements a continuing, effective respirator program as required by this section (29 CFR 1910.134), including training, fit testing, maintenance, and use requirements.

<sup>3</sup> This APF category includes filtering facepieces, and half masks with elastomeric facepieces.

<sup>4</sup> The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.

<sup>5</sup> These APFs do not apply to respirators used solely for escape. For escape respirators used in association with specific substances covered by 29 CFR 1910 subpart Z, employers must refer to the appropriate substance-specific standards in that subpart. Escape respirators for other IDLH atmospheres are specified by 29 CFR 1910.134 (d)(2)(ii).

Employers select respirators by comparing the exposure level found in the workplace and the maximum concentration of the contaminant in which a particular type of respirator can be used (the Maximum Use Concentration or MUC). Employers generally determine the MUC by multiplying the respirator's Assigned Protection Factor (APF) by the contaminant's exposure limit (PEL). If the workplace level of the contaminant is expected to exceed the respirator's MUC, the employer must choose a respirator with a higher APF. This can be determined with the following equation:  $PEL \times APF = MUC$ . The numbers listed on this chart are the numbers that OSHA enforces to the best of our knowledge. For this reason, be sure to consult regulatory standards and/or your local OSHA representative. The Assigned Protection Factors herein do not constitute a recommendation by Bullard for the use of any respirator herein for any hazard.

Footnote 4 in essence states that in order to use an APF of 1000, the respirator manufacturer shall provide evidence to the employer that the respirator demonstrates performance at a level of protection equal to or greater than 1000. Bullard has long been a leader in protection factor research. See pages 53 and 93 for the hood and helmet type respirators that have proven APFs of 1000 and the study that validates it.

**WARNING**

Consult product literature and instruction manuals for information on the proper function, use and maintenance of these respirators. Before using a Bullard respirator, Federal Law requires the employer to identify and evaluate the respiratory hazard(s) in the workplace including a reasonable estimate of employee exposure to respiratory hazard(s) and an identification of the contaminant's chemical state and physical form. Do not exceed maximum use concentrations established by OSHA, EPA, NIOSH, ACGIH or other regulatory standards.

In accordance with Title 42 Code of Federal Regulations Part 84 and 29 CFR 1910.134, respirator repairs or adjustments shall be made using only Bullard NIOSH approved parts designed for the respirator. Use of any other parts on these respirators VOIDS NIOSH APPROVAL. Failure to follow these instructions could result in death or serious injury.

# Powered Air Purifying Respirators (PAPRs)



## What is a Powered Air-Purifying Respirator?

Powered Air Purifying Respirators (PAPRs) use a battery-powered fan to draw in ambient air through filter cartridges. The purified air is then delivered to the user's hood, helmet or facepiece via a breathing tube. A flow indicator is provided to check that there is an adequate volume of air available to the wearer prior to use. There are many different PAPR configurations available to best meet the needs of your working environment.

### Configuring a Powered-Air Purifying Respirator System

There are many choices to make when piecing together various components of a Powered Air-Purifying Respirator System. The following steps may help simplify this intimidating task:

- Choose Blower
- Choose Belt
- Choose Head Top
- Choose Suspension or Hard Hat
- Choose Breathing Tube
- Choose Filter Cartridge
- Choose Charger

### Bullard Product Assigned Protection Factors

Bullard Product	Respirator Type	NIOSH TC #	APF	3rd Party Validation
PA20 with 20LFL/20LFM	Powered Air Purifying Respirator (PAPR) with Loose-Fitting Facepiece	21C-0765	25	OSHA Standard 2006
PA30 with CC20 Series*	Powered Air Purifying Respirator (PAPR) with Loose-Fitting Hood	21C-0773, 23C-2236, 23C-2237	1,000	RDECOM Study 2003
PA30 with RT Series	Powered Air Purifying Respirator (PAPR) with Loose-Fitting Hood	21C-0773, 23C-2236, 23C-2237	1,000	RDECOM Study 2004
PA30IS with CC20 Series*	Powered Air Purifying Respirator (PAPR) with Loose-Fitting Hood	21C-0796, 23C-2306, 23C-2307	1,000	RDECOM Study 2006
PA30IS with RT Series	Powered Air Purifying Respirator (PAPR) with Loose-Fitting Hood	21C-0796, 23C-2306, 23C-2307	1,000	RDECOM Study 2006

\* inner bib models

# Powered Air Purifying Respirators (PAPRs)

## PAPR Selection Chart

### 1. Choose Blower



• **PA1** - 8-10 hour Battery and Low Voltage Alarm



• **PA2** - 6-hour Battery, No Alarm



• **PA3**



• **PA3IS** - Intrinsically Safe



• **PA4**

### 2. Choose Belt



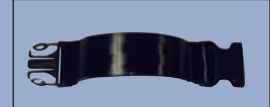
• **PA1SB** - Nylon Standard Belt, Comfort Pad



• **PA1EB** - Nylon extension belt for PA1SB



• **PA1DB** - Vinyl Decon Belt



• **PA1DEB** - Vinyl extension belt for PA1DB

### 3. Choose Head Top



• **20TJN** - Tychem QC Single Bib Hood



• **20TICN** - Tychem QC Double Bib Hood



• **20S1CN** - Tychem SL Double Bib Hood w/Taped Seams



• **20S1CH** - Tychem SL Double Bib Hood w/Taped Seams for Hard Hats



• **20LFM** - Loose-Fitting Facepiece, Medium



• **RT1** - Tychem QC Double Bib Hood with Extra-Large Lens



• **PASPEC** - Full Facepiece, for PA4 Only

### 4. Choose Suspension or Hard Hat



• **20RT** - Adjustable Ratchet Headband Suspension



• **20TG** - Adjustable Headband Suspension



• **C3OP** - 6-point Self-Sizing Suspension, Full Profile



• **S51P** - 4-point Self-Sizing Suspension, Low Profile



• **20NC** - Chinstrap, for Hoods



• **ES42** - Chinstrap, for Hard Hats

### 5. Choose Breathing Tube



• **PA1BT** - 26" Breathing Tube Assembly for Hoods



• **PA20LFBT** - 26" Breathing Tube Assembly for Loose-Fitting Facepieces

• **PA20LFBXS** - 22" Breathing Tube Assembly for Loose-Fitting Facepieces

• **PA20LFBTXL** - 39" Breathing Tube for Assembly for Loose-Fitting Facepieces

• **PA4BT** - 33" Breathing Tube Assembly for PASPEC Full Facepiece

### 6. Choose Filter Cartridge



• **PA1FG3** - Filter/Gasket Assembly for PA1/PA2



• **PA3HE** - High Efficiency Particulate (HEPA) Filter



• **PA3OVAGHE** - Organic Vapor (OV), Acid Gas (AG), HEPA (HE)



• **PA3NBC** - AG/AM/MA/FM/HE

### 7. Choose Charger



• **PA1SMC** - Smart Charger for PA1

• **PA1STC** - Standard Charger for PA1

• **PA2SMC** - Smart Charger for PA2

• **PA2STC** - Standard Charger for PA2



• **PA1GC** - 5-Unit Gang Charger for PA1



• **PA3SMC** - Quick Charger for PA3 and PA4



• **PA3ISC** - Quick Charger for PA3IS



• **PA3GC** - Gang Charger for PA3 and PA4



• **PA3ISGC** - Gang Charger for PA3IS



# PA20 Powered Air-Purifying Respirator

## Easy to Use, Comfortable, Reliable

The PA20 Series Powered Air-Purifying Respirator (PAPR) offers workers a constant, reliable flow of air for up to 10 hours. Using a high efficiency particulate (HEPA) filter, the PA20 protects the wearer from particulate hazards encountered in a wide variety of job applications. The PA20 is approved by NIOSH for use with a range of Tychem® hoods and loose-fitting facepieces.

## Superior Protection

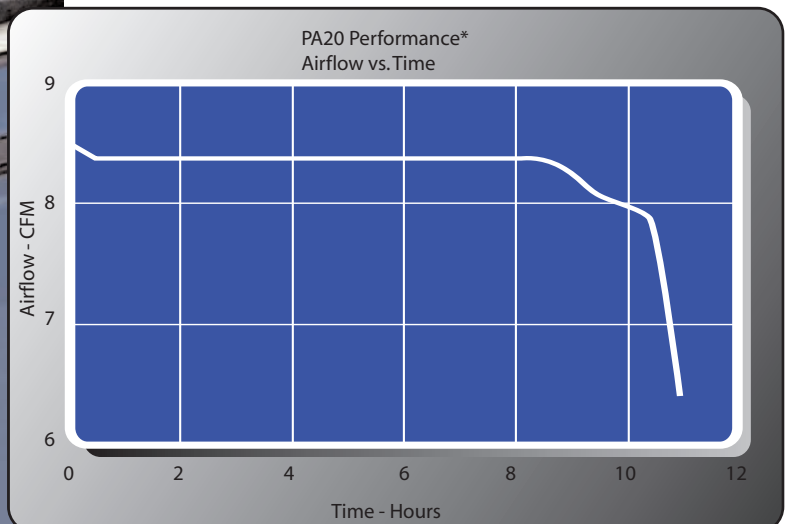
- Advanced HEPA protection
- Up to 33 percent more air than the NIOSH requirement
- 77dba “in-the-ear” audible low voltage alarm

## Superior Comfort

- Compact, ergonomically balanced and lightweight
- Cooling effect of air flow reduces heat stress
- Accommodates facial hair
- Accommodates eyewear
- No hose to tether

## Superior Value

- NiMH battery technology
- Up to 10-hour run time
- Hoods compatible with SAR
- No fit testing required when used with a loose-fitting facepiece or hood
- Easy to decon
- Gang chargers available



\*Performance of a fully configured PA20 System: PA1 Blower Unit and 20TIC Hood

# PA20 Series Powered Air Purifying Respirator

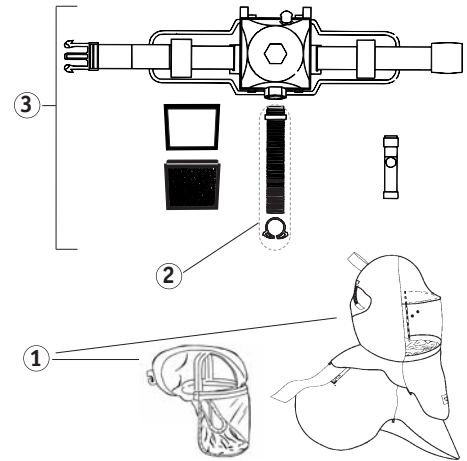
## PA20 Systems

A complete PA20 Series Respirator consists of the following three components:

1. Respirator hood or loose-fitting facepiece with suspension
2. Breathing tube assembly
3. PA1 or PA2 blower assembly

All of these components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-21C-0765 for High Efficiency (HE) Particulate Protection



## PA20 Series Assemblies (HEPA only protection)

### PAPRs with 20LFL Loose-Fitting Facepiece

- Assemblies include blower with internal battery, charger and air flow indicator

PA20LFLDB	10-hour Battery with Decon Belt and Low Voltage Alarm
PA20LFLSB	10-hour Battery with Standard Comfort Belt and Low Voltage Alarm
PA20LFLDB2	6-hour Battery with Decon Belt
PA20LFLSB2	6-hour Battery with Standard Comfort Belt



### PAPRs with 20TJ Single Bib Hoods

- Assemblies include blower with internal battery, charger and air flow indicator

PA20TJDB	10-hour Battery with Decon Belt and Low Voltage Alarm
PA20TJSB	10-hour Battery with Standard Comfort Belt and Low Voltage Alarm
PA20TJDB2	6-hour Battery with Decon Belt
PA20TJSB2	6-hour Battery with Standard Comfort Belt





# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Assemblies (HEPA only protection)

### PAPRs with 20TIC Tychem QC Double Bib Hood Systems

- Assemblies include blower with internal battery, charger and air flow indicator

- PA20TICDB 10-hour Battery with Decon Belt and Low Voltage Alarm
- PA20TICSB 10-hour Battery with Standard Comfort Belt and Low Voltage Alarm
  
- PA20TICDB2 6-hour Battery with Decon Belt
- PA20TICSB2 6-hour Battery with Standard Comfort Belt



### PAPRs with 20TICH Tychem QC Double Bib Hood for use with Hard Hat Systems

- Assemblies include blower with internal battery, charger and air flow indicator

- PA20TICHDBC30R 10-hour Battery with Decon Belt, Low Voltage Alarm and C30R Hard Hat Included
- PA20TICHDBS51R 10-hour Battery with Decon Belt, Low Voltage Alarm and S51R Hard Hat Included
  
- PA20TICHSBC30R 10-hour Battery with Standard Comfort Belt, Low Voltage Alarm and C30R Hard Hat Included
- PA20TICHSBS51R 10-hour Battery with Standard Comfort Belt, Low Voltage Alarm and S51R Hard Hat Included
  
- PA20TICHDB2C30R 6-hour Battery with Decon Belt and C30R Hard Hat Included
- PA20TICHDB2S51R 6-hour Battery with Decon Belt and S51R Hard Hat Included
  
- PA20TICHSB2C30R 6-hour Battery with Standard Comfort Belt and C30R Hard Hat Included
- PA20TICHSB2S51R 6-hour Battery with Standard Comfort Belt and S51R Hard Hat Included

### PAPRs with 20SIC Saranex Coated Tychem SL Double Bib Hood for Hard Hat Systems

- Assemblies include blower with internal battery, charger and air flow indicator

- PA20SICDB 10-hour Battery with Decon Belt and Low Voltage Alarm
- PA20SICSB 10-hour Battery with Standard Comfort Belt and Low Voltage Alarm
  
- PA20SICDB2 6-hour Battery with Decon Belt
- PA20SICSB2 6-hour Battery with Standard Comfort Belt

### PAPRs with 20SICH Tychem QC Double Bib Hood for use with Hard Hat Systems with Taped and Sealed Seams

- Assemblies include blower with internal battery, charger and air flow indicator

- PA20SICHDBC30R 10-hour Battery with Decon Belt, Low Voltage Alarm and C30R Hard Hat Included
- PA20SICHDBS51R 10-hour Battery with Decon Belt, Low Voltage Alarm and S51R Hard Hat Included
  
- PA20SICHSBC30R 10-hour Battery with Standard Comfort Belt, Low Voltage Alarm and C30R Hard Hat Included
- PA20SICHSBS51R 10-hour Battery with Standard Comfort Belt, Low Voltage Alarm and S51R Hard Hat Included
  
- PA20SICHDB2C30R 6-hour Battery with Decon Belt and C30R Hard Hat Included
- PA20SICHDB2S51R 6-hour Battery with Decon Belt and S51R Hard Hat Included
  
- PA20SICHSB2C30R 6-hour Battery with Standard Comfort Belt and C30R Hard Hat Included
- PA20SICHSB2S51R 6-hour Battery with Standard Comfort Belt and S51R Hard Hat Included

# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Replacement Headpieces

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20LFL	<b>Loose-Fitting Facepiece, Large</b>
20LFM	<b>Loose-Fitting Facepiece, Medium</b> <ul style="list-style-type: none"><li>• Sewn in suspension</li><li>• Latex-free</li><li>• Quick-attach twist lock connection</li><li>• Five per package</li></ul>
20LF2L	<b>Loose-Fitting Facepiece with Narrow Profile, Large</b> <ul style="list-style-type: none"><li>• Sewn in suspension</li><li>• Latex-free</li><li>• Quick-attach twist lock connection (Black)</li><li>• Five per package</li></ul>
20LF2M	<b>Same as 20LF2L with Blue Twist Lock Connection, Medium</b>
20LF2S	<b>Same as 20LF2L with Green Twist Lock Connection, Small</b>



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20SIC	<b>Tychem® SL Double Bib Hood with Taped Seams, Pinlock Suspension</b>
20SICR	<b>Tychem SL Double Bib Hood with Taped Seams, Ratchet Suspension</b>
20SICN	<b>Tychem SL Double Bib Hood with Taped Seams, No Suspension</b> <ul style="list-style-type: none"><li>• 19" long outer bib</li><li>• Five per package</li></ul>



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20SICH	<b>Tychem SL Double Bib Hood with Taped Seams, Hard Hat Not Included</b>
20SICHC30	<b>Same as 20SICH with C30P Hard Hat Included</b>
20SICHC30R	<b>Same as 20SICH with C30R Hard Hat Included</b>
20SICH551	<b>Same as 20SICH with S51P Hard Hat Included</b>
20SICH551R	<b>Same as 20SICH with S51R Hard Hat Included</b> <ul style="list-style-type: none"><li>• For use with Bullard hard hat</li><li>• 9" long outer bib</li><li>• Five per package</li></ul>



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20TIC	<b>Tychem QC Double Bib Hood With Inner Bib, Pinlock Suspension</b>
20TICR	<b>Tychem QC Double Bib Hood With Inner Bib, Ratchet Suspension</b>
20TICN	<b>Tychem QC Double Bib Hood With Inner Bib, No Suspension</b> <ul style="list-style-type: none"><li>• 9" long outer bib</li><li>• 10 per package</li></ul>
20TICNX	<b>Tychem QC Double Bib Hood With Inner Bib, No Suspension, No Lens Tissue</b>
20TICRX	<b>Tychem QC Double Bib Hood With Inner Bib, Ratchet Suspension, No Lens Tissue</b>



# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Replacement Headpieces

- 
- 20TICH Tychem® QC Double Bib Hood, for Use with Bullard Hard Hat (not included)  
20TICHC30 Tychem QC Double Bib Hood, with C30P Hard Hat Included  
20TICHC30R Tychem QC Double Bib Hood, with C30R Hard Hat Included  
20TICHS51 Tychem QC Double Bib Hood, with S51P Hard Hat Included  
20TICHS51R Tychem QC Double Bib Hood, with S51R Hard Hat Included
- 9" long outer bib
  - Five per package



- 
- 20TICS Tychem QC Double Bib Hood with Taped Seams, Pinlock Suspension
- 19" long outer bib
  - Five per package
- 20TICSR Tychem QC Double Bib Hood with Taped Seams, Ratchet Suspension
- 19" long outer bib
  - Five per package
- 20TICSN Tychem QC Double Bib Hood with Taped Seams, No Suspension
- 19" long outer bib
  - 10 per package



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- 20TJ Tychem QC Single Bib Hood, Pinlock Suspension  
20TJR Tychem QC Single Bib Hood, Ratchet Suspension  
20TJN Tychem QC Single Bib Hood, No Suspension
- 10 per package
  - 9" long bib



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- 20TP Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension  
20TPR Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension  
20TPN Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, No Suspension
- 10 per package
  - 9" long bib



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- 20TPC Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension  
20TPCR Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension  
20TPCN Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, No Suspension
- 10 per package
  - 9" long bib



# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Headpiece Replacement Parts

20RT

### Adjustable Ratchet Headband Suspension

- Sportek™ brow pad
- Fits sizes 6½ to 8 (52-64 mm)



20TG

### Adjustable Headband Suspension

- Sportek brow pad
- Fits sizes 6½ to 8 (52-64 mm)



RBPCOTTON

### Brow Pad

- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



RBPVINYL

### Brow Pad

- Vinyl replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



RBPCOOL

### Brow Pad

- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions
- Easy, snap-on design



20NC

### Elastic Chinstrap

- For 20TG and 20RT suspensions
- 10 per package



20LCL

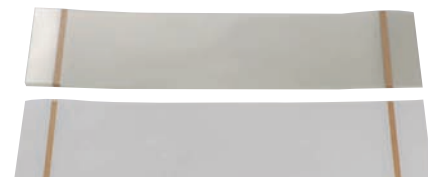
### Adhesive-Edged Mylar® Lens Covers

- 25 per package

20LCLBP

### Same as 20LCL

- Eight packs of 25



# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Head Protection

C30P

### Hard Hat

- High-density polyethylene shell
- Full profile, wide brim
- Accessory slots for attachments
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



C30R

### Hard Hat

Same as Model C30P above with

- 6-point Flex-Gear® ratchet suspension with large, absorbent cotton brow pad (RS6RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Color: white



S51P

### Hard Hat

- High-density, polyethylene shell
- Flat front, low-profile design
- Accessory slots for cap attachments
- Rain trough brim
- 4-point self-sizing suspension with poly brow pad (RS4PP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



S51R

### Hard Hat

Same as Model S51P above with

- 4-point Flex-Gear ratchet suspension with poly brow pad (RS4RP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Color: white



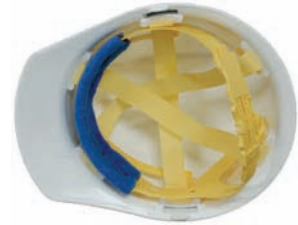
# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Head Protection Replacement Parts

RS6PC

### 6-pt. Suspension

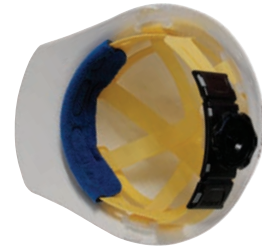
- 6-point self-sizing suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33



RS6RC

### 6-pt. Suspension

- 6-point Flex-Gear ratchet suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- Vertical height adjustments (two front, three rear)
- For Models C30R and C33R



RS4PC

### 4-pt. Suspension

- 4-point self-sizing suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Model S51



RS4RC

### 4-pt. Suspension

- 4-point Flex-Gear ratchet suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Model S51



ES42

### Chinstrap

- Elastic chinstrap
- For Models C30 and S51







# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Breathing Tubes and Accessories

- PA1BT Breathing Tube Assembly for Hoods - Standard 26" Length
- PA1BTXS Breathing Tube Assembly for Hoods - Short 22" Length
  - S18051 clamp included
- PA1BTXL Breathing Tube Assembly for Hoods - Long 32" Length



- PA20LFBT Breathing Tube for Loose-Fitting Facepiece - Standard 33" Length
- PA20LFBTXS Breathing Tube for Loose-Fitting Facepiece - Short 26" Length
  - Quick-attach twist lock connection
- PA20LFPTXL Breathing Tube for Loose-Fitting Facepiece - Long 38" Length



- S18051 Breathing Tube Clamp
  - 10 per package



- S18051BLACK Breathing Tube Clamp, black
  - 10 per package



- 20SLBTC Tychem SL Breathing Tube Cover Sleeve
- 20QCBTC Tychem QC Breathing Tube Cover Sleeve
  - Breathing tube not included



Powered Air-Purifying Respirators

# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Replacement Blowers

PA1	<b>Blower Unit with 10-hour Battery and Low Voltage Alarm, Filter, Standard Belt Assembly and Air Flow Indicator</b>
PA1WDB	Same as PA1 with Decon Belt
PA1BU	PA1 Replacement Blower Unit (blower and battery only)



PA2	<b>PAPR, 6-hour Assembly with Standard Belt and Air Flow Indicator</b>
PA2BU	Replacement Blower Unit (blower and battery only)



## PA20 Series Replacement Filters

PA1FG3	<b>Filter/Gasket Assembly (three per package)</b>
PA1FGBP	<b>Filter/Gasket Assembly (36 per package)</b>



## PA20 Series Batteries and Chargers

PA1SMC	<b>Smart Charger for PA1</b> <ul style="list-style-type: none"> <li>• Charges in eight hours</li> <li>• Automatically switches to trickle mode after charging is complete</li> </ul>
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PA1STC	<b>Standard Charger for PA1</b> <ul style="list-style-type: none"> <li>• Charges in 16 hours</li> </ul>
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PA1GC	<b>5-unit Gang Charger for PA1</b> <ul style="list-style-type: none"> <li>• Charges in eight hours</li> <li>• Automatically switches to trickle mode after charging is complete</li> </ul>
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PA1UC	<b>Universal Charger</b> <ul style="list-style-type: none"> <li>• Charges in eight hours</li> <li>• Automatically switches to trickle mode after charging is complete</li> <li>• 110 or 220V; 50 or 60 HZ</li> <li>• Shipped with U.S. power cord</li> <li>• Optional cords available for UK, Australia, Japan or Europe</li> </ul>
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PA1UCUKCORD	<b>Power Cord for Universal Charger, United Kingdom</b>
PA1UCAUCORD	<b>Power Cord for Universal Charger, Australia</b>
PA1UCJACORD	<b>Power Cord for Universal Charger, Japan</b>
PA1UCEUCORD	<b>Power Cord for Universal Charger, Europe</b>



# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Batteries and Chargers

**PA2SMC**      **Smart Charger for PA2**  
• Charges in eight hours  
• Automatically switches to trickle mode after charging is complete

**PA2STC**      **Standard Charger for PA2**  
• Charges in 16 hours



**PA1RBAT**      **PA1 Replacement Battery**  
• One 4-cell pack and two 2-cell packs

**PA2RBAT**      **PA2 Replacement Battery**  
• One 4-cell pack



**PA1CPR**      **Charging Port Retainer**  
• Secures blower run plug to blower



**PA1BRP**      **Blower Run Plug Kit**  
• Includes charging port retainer



Powered Air-Purifying Respirators

# PA20 Series Powered Air-Purifying Respirator

## PA20 Series Belts

PA1SB

### Nylon Standard Belt and Comfort Pad

- Nylon construction
- Adjustable for waist sizes between 28" and 60"
- 7" wide in lumbar region for comfort
- Extra pad in lumbar region for increased comfort



PA1EB

### Nylon Extension Belt for PA1SB

- Allows PA1SB to adjust for waist sizes up to 69"



PA1DB

### Vinyl Decon Belt

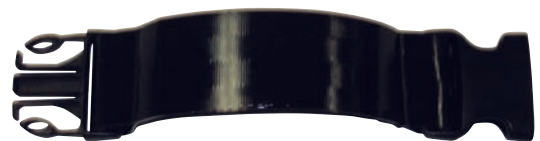
- Smooth vinyl construction wipes down easily
- Adjustable for waist sizes between 28" and 60"
- 7" wide in lumbar region for comfort



PA1DEB

### Vinyl Extension Belt for PA1DB

- Allows PA1DEB to adjust for waist sizes up to 69"



# PA20 Series Powered Air Purifying Respirator

## PA20 Series Replacement Components and Accessories

- PA1AFI**      **Airflow Indicator**
- Verifies airflow is at least 6.0 CFM



- PA1BP**      **Backplate Support Kit**
- Includes mounting screws



- PA1BTS4**      **Breathing Tube Seal**
- Four per package



- PA1LSK**      **Blower Latch and Screw Kit**
- Contains four latches and 16 screws



- PA20BAG**      **PAPR Storage Bag**
- Black nylon duffel
  - Includes shoulder strap
  - PAPR not included



- PAPRBAG**      **PAPR Storage Bag**
- Vinyl construction
  - 22" long
  - Includes shoulder strap
  - PAPR not included



- PPEBAG**      **Storage Bag**
- Large black padded duffel
  - 11" wide x 13" tall x 25" long
  - Includes shoulder strap



# PA30 Powered Air-Purifying Respirator

## Protection, Comfort, Value

The PA30 Series protects workers against gases, vapors and/or particulates when used according to Bullard's instructions. It accomplishes this, in part, by drawing ambient air through a filter/cartridge and supplying that air through a breathing tube into the worker's headpiece.

Customer driven product development, as well as the incorporation of the latest technologies, culminate in the unique design and comfort features of the PA30 Series.

## Optional Blower Units

Bullard offers the user a choice of either PA3 or PA3IS blower units to fit the application. Both units incorporate Bullard advanced technology in batteries, superior design features, patented worker alarm systems and independently proven high protection performance. Additionally, the PA3IS blower is designed to be used in environments requiring intrinsically safe (IS) performance. The PA3IS meets the widest range of IS criteria for PAPRs on the market today with its Factory Mutual (FM) approvals for Class I, Div I, Groups C and D; Class II, Div II, Groups E, F and G; Class III, Div I, Hazardous Locations.

## "Decon-Friendly" Housing

A smooth finish, sealed and gasketed design, and downward sloping configuration for easy "run-off" ensure that the blower will withstand the most rigorous of decon procedures. An optional decon belt completes the package.

## Battery Design

Other manufacturers' external PAPR battery designs may result in uneven weight distribution while also creating an additional "snag" hazard and decon concern. The battery packs on the PA30 are engineered *inside* the profile of the housing, with care taken to allow for easy removal and change-out. The batteries are gasketed and the battery compartment is independent of the airflow chamber in order to maintain blower integrity.

## Battery Performance and Durability

The Bullard PA30 Series uses rechargeable Nickel Metal Hydride (NiMH) batteries that do not suffer the "memory" problems of NiCad battery technology. NiMH batteries contribute to the lightweight design of the PA30, while providing the worker up to 10 hours of battery performance.

This superior performance holds true for both the PA3 and PA3IS battery systems. Bullard innovative battery design for the PA3IS unit does not sacrifice any performance qualities, which is extraordinary when compared to other systems incorporating IS technology.



# PA30 Powered Air-Purifying Respirator

## Charger Technology

Due to the combined characteristics of the NiMH batteries and the unique design of the Bullard chargers, the NiMH batteries will be kept at peak performance even if left on charge for long periods of time. The Bullard PA3SMC, PA3GC, PA3ISC and PA3ISGC chargers offer a trickle charge feature, as well as voltage and temperature monitoring, which help assure that the batteries will be ready next week, next month, even next year!

## Low Voltage Alarms

In addition to the standard safeguards of a rotometer-style indicator that is used to check airflow prior to donning, Bullard has incorporated advanced technology low voltage alarms into the PA3 and PA3IS blower systems. The PA3 uses an electronic alarm and the PA3IS uses a mechanical alarm, with both set below the 80 dBA NIOSH maximum, yet loud enough for the wearer to hear. With these patented designs, the alarm is positioned inside the breathing tube and the signal travels into the hood alerting the worker that he needs to exit the contamination area and replace or recharge the battery.

## Sealed Power Switch

The power switch is conveniently located for the worker to reach but is not easy to accidentally switch off or on. The sealed design provides yet another assurance to workers that they are receiving the best protection a PAPR can offer.

## Headtop Options

The Bullard PA30 Series of PAPRs is approved for use with a wide range of headtops, including the Bullard industry-leading high performance Tychem® hoods and Tychem loose-fitting facepieces. The Spectrum full facepiece is available in a PAPR configuration as a PA40 Series PAPR. All headtops are also available in supplied air configurations, allowing you to use one headpiece for both supplied air or powered air.

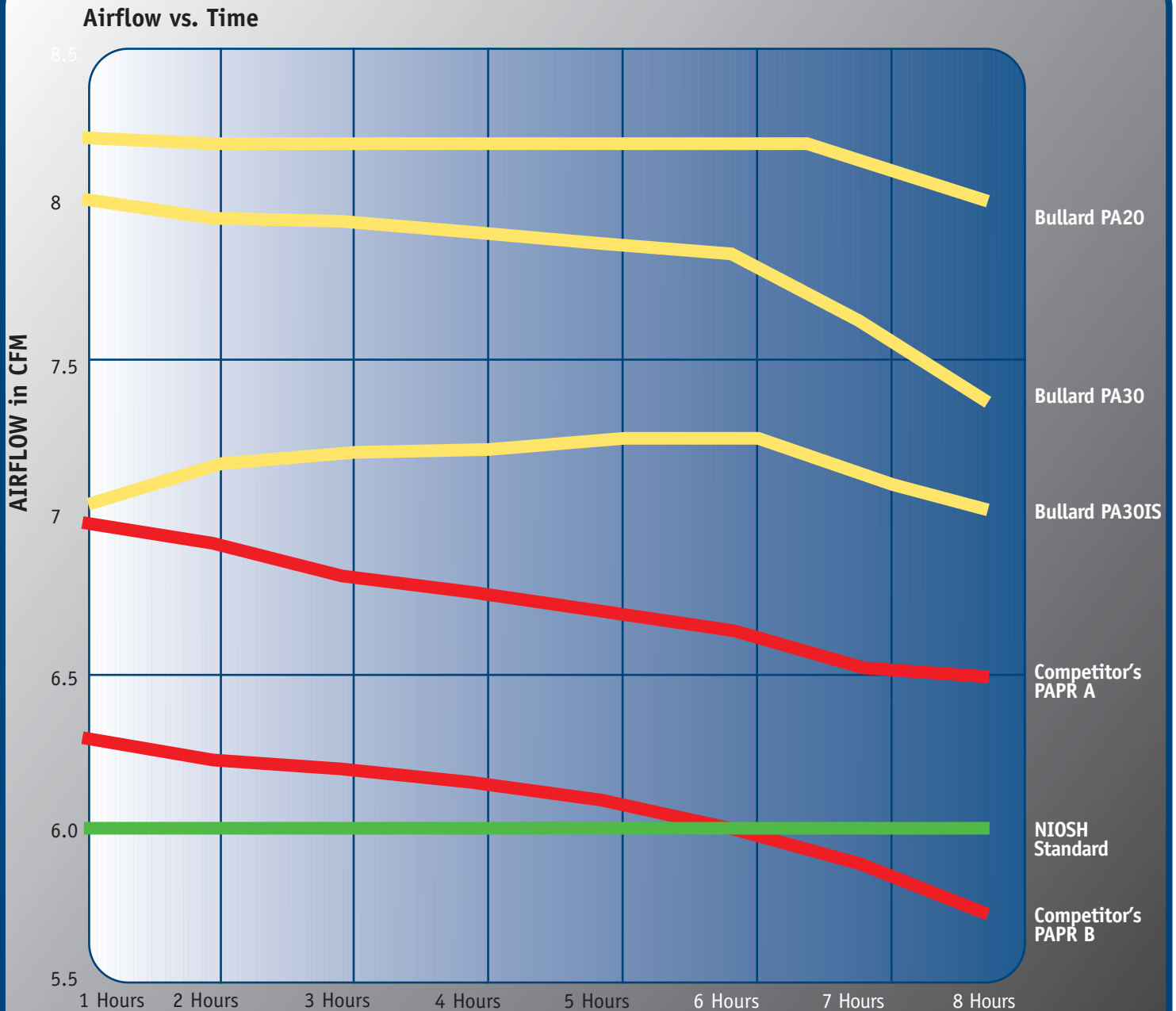
## Proven Protection

As early as 1994, Bullard has sponsored or been involved with third party independent Protection Factor studies proving the reliability of its Supplied Air Respiratory (SAR) and PAPR products. In the well-documented ORC Study (Industrial Hygiene Association Journal, Vo. 62, pages 595-604, Sept.-Oct. 2001) Bullard SAR hoods performed at the highest level of all manufacturer's SAR hoods tested. Studies conducted in 2004 at RDECOM U.S. Army Research and Development Command) facilities showed that the PA30 PAPR respirator systems performed at the same high levels as the Bullard SAR hoods in the ORC Study. For more detailed information on this Protection Factor Research, please contact Bullard, or visit our website at [www.bullard.com](http://www.bullard.com).

# Powered Air Purifying Respirators (PAPRs)

Bullard PAPRs provide maximum airflow throughout the entire shift.

## Greater Airflow = Greater Comfort





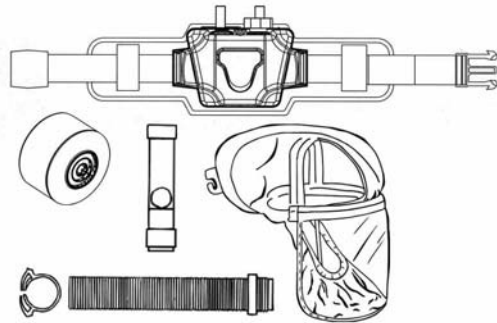
# PA30 Series Powered Air Purifying Respirator

## PA30 Systems

A complete PA30 Series Respirator consists of the following three components:

1. Respirator Hood or Loose-Fitting Facepiece with Suspension
2. Breathing Tube Assembly
3. PA3 Blower Assembly

All of these components must be present and properly assembled to constitute a NIOSH approved respirator.



Approval No. TC-21C-0773 for High Efficiency (HE) Particulate Protection

Approval No. TC-23C-2237 OVAGHE Organic Vapor, Acid Gas, High Efficiency

Approval No. TC-23C-2236 NBC Nuclear, Biological, Chemical

## PA30 Series Hospital Systems (Nuclear, Biological, Chemical Protection)

- assemblies include PA3H blower, SICVN hood, ratchet suspension, decon belt, low voltage alarm, air flow indicator and three NBC cartridges

PA30PREP Hospital Preparedness PAPR System, One NiMH Battery and Quick Charger

PA30PREPLI Hospital Preparedness PAPR System, 10-year Shelf-life Lithium Battery (single-use, no charger)

PA30PREPNC Hospital Preparedness PAPR System with One NiMH Battery, No Charger



## PA30 Series Assemblies (HEPA, Organic Vapor, Acid Gas Protection)

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm and air flow indicator  
- filter cartridges not included

### PAPRs with 20TJ Single Bib Hoods

PA30TJDB 20TJ Single Bib Hood System with Decon Belt

PA30TJSB 20TJ Single Bib Hood System with Standard Comfort Belt

- Includes two batteries
- 8-10 hour run time

PA30ISTJDB 20TJ Single Bib Hood System with Decon Belt

PA30ISTJSB 20TJ Single Bib Hood System with Standard Comfort Belt

- Intrinsically safe blower
- Includes one battery
- 6-7 hour run time



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Assemblies (HEPA, Organic Vapor, Acid Gas Protection)

---

### PAPRs with 20TIC Tychem QC Double Bib Hood System

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

- |             |  |
|-------------|--|
| PA30TICDB   | 20TIC Double Bib Hood System with Decon Belt   |
| PA30TICSB   | 20TIC Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                                  |
| PA30ISTICDB | 20TIC Double Bib Hood System with Decon Belt   |
| PA30ISTICSB | 20TIC Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Intrinsically safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



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### PAPRs with 20TICH Tychem QC Double Bib Hood for Hard Hat System

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

- |                  |   |
|------------------|---|
| PA30TICHDBC3OR   | Double Bib Hood System, Decon Belt, with C3OR Hard Hat Included   |
| PA30TICHDBS51R   | Double Bib Hood System, Decon Belt, with S51R Hard Hat Included   |
| PA30TICHSBC3OR   | Double Bib Hood System, Standard Comfort Belt, with C3OR Hard Hat Included  |
| PA30TICHSBS51R   | Double Bib Hood System, Standard Comfort Belt, with S51R Hard Hat Included <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                                  |
| PA30ISTICHDBC3OR | Double Bib Hood System, Decon Belt, with C3OR Hard Hat Included   |
| PA30ISTICHDBS51R | Double Bib Hood System, Decon Belt, with S51R Hard Hat Included   |
| PA30ISTICHSBC3OR | Double Bib Hood System, Standard Comfort Belt, with C3OR Hard Hat Included  |
| PA30ISTICHSBS51R | Double Bib Hood System, Standard Comfort Belt, with S51R Hard Hat Included <ul style="list-style-type: none"><li>• Intrinsically safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



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### PAPRs with 20SIC Saranex Coated Tychem SL Double Bib Hood Systems

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

- |             |   |
|-------------|---|
| PA30SICDB   | 20SIC Double Bib Saranex Coated Hood System with Decon Belt   |
| PA30SICSB   | 20SIC Double Bib Saranex Coated Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                                  |
| PA30ISSICDB | 20SIC Double Bib Saranex Coated Hood System with Decon Belt   |
| PA30ISSICSB | 20SIC Double Bib Saranex Coated Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Intrinsically safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Assemblies (HEPA, Organic Vapor, Acid Gas Protection)

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### PAPRs with 20SICH Saranex Coated Tychem SL Double Bib Hood for use with Hard Hat Systems

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

**PA30SICHDBC3OR** Double Bib Saranex Coated Hood, Decon Belt, with C3OR Hard Hat Included  
**PA30SICHDBS51R** Double Bib Saranex Coated Hood, Decon Belt, with S51R Hard Hat Included

**PA30SICHBC3OR** Double Bib Saranex Coated Hood, Standard Comfort Belt, with Hard Hat Included  
**PA30SICHBS51R** Double Bib Saranex Coated Hood, Standard Comfort Belt, with S51R Hard Hat Included

- Includes two batteries
- 8-10 hour run time

**PA30ISSICHDBC3OR** Double Bib Saranex Coated Hood, Decon Belt, with C3OR Hard Hat Included  
**PA30ISSICHDBS51R** Double Bib Saranex Coated Hood, Decon Belt, with S51R Hard Hat Included

**PA30ISSICHBC3OR** Double Bib Saranex Coated Hood, Standard Comfort Belt, with C3OR Hard Hat Included  
**PA30ISSICHBS51R** Double Bib Saranex Coated Hood, Standard Comfort Belt, with S51R Hard Hat Included

- Intrinsically safe blower
- Includes one battery
- 6-7 hour run time



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### PAPRs with 20TP Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens

- assemblies include PA3 blower, breathing tube, 1 hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

**PA30TPDB** 20TP Single Bib Hood for Painting System with Decon Belt  
**PA30TPSB** 20TP Single Bib Hood for Painting System with Standard Comfort Belt

- Includes two batteries
- 8-10 hour run time

**PA30ISTPDB** 20TP Single Bib Hood for Painting System with Decon Belt  
**PA30ISTPSB** 20TP Single Bib Hood for Painting System with Standard Comfort Belt

- Intrinsically safe blower
- Includes one battery
- 6-7 hour run time



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### PAPRs with 20TPC Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens

- assemblies include PA3 blower, breathing tube, 1 hood, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

**PA30TPCDB** 20TPC Double Bib Hood for Painting System with Decon Belt  
**PA30TPCSB** 20TPC Double Bib Hood for Painting System with Standard Comfort Belt

- Includes two batteries
- 8-10 hour run time

**PA30ISTPCDB** 20TPC Double Bib Hood for Painting System with Decon Belt  
**PA30ISTPCSB** 20TPC Double Bib Hood for Painting System with Standard Comfort Belt

- Intrinsically safe blower
- Includes one battery
- 6-7 hour run time



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Assemblies (HEPA, Organic Vapor, Acid Gas Protection)

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### PAPRs with 20TICS Tychem® QC Double Bib Hood with Taped Seams

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm, and air flow indicator
- filter cartridges not included

- |               |   |
|---------------|---|
| PA30TICSDB    | 20TICS Extra-Long Double Bib Hood System with Decon Belt  |
| PA30TICSSB    | 20TICS Extra-Long Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                               |
| PA30ISTICSDDB | 20TICS Extra-Long Double Bib Hood System with Decon Belt  |
| PA30ISTICSSB  | 20TICS Extra-Long Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Inherently safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



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### PAPRs with RT1 Tychem QC Double Bib Hood with Extra-Large Lens, No Suspension Required

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm, and air flow indicator
- filter cartridges not included

- |             |  |
|-------------|--|
| PA30RT1DB   | RT1 Extra-Large Lens Double Bib Hood System with Decon Belt  |
| PA30RT1SB   | RT1 Extra-Large Lens Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                               |
| PA30ISRT1DB | RT1 Extra-Large Lens Double Bib Hood System with Decon Belt  |
| PA30ISRT1SB | RT1 Extra-Large Lens Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Inherently safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



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### PAPRs with RT2 Saranex Coated Tychem SL Double Bib Hood with Extra-Large Lens, No Suspension Required

- assemblies include PA3 blower, breathing tube, one hood, quick charger, low voltage alarm, and air flow indicator
- filter cartridges not included

- |             |  |
|-------------|--|
| PA30RT2DB   | RT2 Extra-Large Lens Double Bib Hood System with Decon Belt  |
| PA30RT2SB   | RT2 Extra-Large Lens Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Includes two batteries</li><li>• 8-10 hour run time</li></ul>                               |
| PA30ISRT2DB | RT2 Extra-Large Lens Double Bib Hood System with Decon Belt  |
| PA30ISRT2SB | RT2 Extra-Large Lens Double Bib Hood System with Standard Comfort Belt <ul style="list-style-type: none"><li>• Inherently safe blower</li><li>• Includes one battery</li><li>• 6-7 hour run time</li></ul> |



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Assemblies (HEPA, Organic Vapor, Acid Gas Protection)

### PAPRs with 20LFL Loose-Fitting Facepiece

- assemblies include PA3 blower, breathing tube, one loose-fitting facepiece, quick charger, low voltage alarm and air flow indicator
- filter cartridges not included

- PA30LFLDB** 20LFL Loose-Fitting Facepiece System with Decon Belt  
**PA30LFLSB** 20LFL Loose-Fitting Facepiece System with Standard Comfort Belt
- Includes two batteries
  - 8-10 hour run time
- PA30ISLFLDB** 20LFL Loose-Fitting Facepiece System with Decon Belt  
**PA30ISLFLSB** 20LFL Loose-Fitting Facepiece System with Standard Comfort Belt
- **Intrinsically safe blower**
  - Includes one battery
  - 6-7 hour run time



### PA30 Series Replacement Headpieces

- 20LFL** Loose-Fitting Facepiece, Large  
**20LFM** Loose-Fitting Facepiece, Medium
- Sewn in suspension
  - Latex-free
  - Quick-attach twist lock connection
  - Five per package
- 20LF2L** Loose-Fitting Facepiece with Narrow Profile, Large
- Sewn in suspension
  - Latex-free
  - Quick-attach twist lock connection (Black)
  - Five per package
- 20LF2M** Same as 20LF2L with Blue Twist Lock Connection, Medium  
**20LF2S** Same as 20LF2L with Green Twist Lock Connection, Small



- 20SIC** Tychem® SL Double Bib Hood with Taped Seams, Pinlock Suspension  
**20SICR** Tychem SL Double Bib Hood with Taped Seams, Ratchet Suspension  
**20SICN** Tychem SL Double Bib Hood with Taped Seams, No Suspension  
**20SICV** Tychem SL Double Bib Hood with Taped Sealed Seams, Vinyl Lens, Pinlock Suspension  
**20SICVR** Tychem SL Double Bib Hood with Taped Seams, Vinyl Lens, Ratchet Suspension  
**20SICVN** Tychem SL Double Bib Hood with Taped Seams, Vinyl Lens, No Suspension
- 19" long outer bib
  - Five per package



- 20SICH** Tychem SL Double Bib Hood with Taped Seams - for Use with Bullard Hard Hat  
**20SICHC30** Same as 20SICH with C30P Hard Hat Included  
**20SICHC30R** Same as 20SICH with C30R Hard Hat Included  
**20SICHS51** Same as 20SICH with S51P Hard Hat Included  
**20SICHS51R** Same as 20SICH with S51R Hard Hat Included
- 9" long outer bib
  - Five per package



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Replacement Headpieces

- 
- 20SICVH** Tychem® SL Extra-Long Double Bib Hood With Taped Seams and Vinyl Lens - for Use with Bullard Hard Hat  
**20SICVHC30** same as 20SICVH with C30P Hard Hat included  
**20SICVHC30R** same as 20SICVH with C30R Hard Hat included  
**20SICVHS51** same as 20SICVH with S51P Hard Hat included  
**20SICVHS51R** same as 20SICVH with S51R Hard Hat included
- 19" long outer bib
  - Five per package



- 
- 20TIC** Tychem QC Double Bib Hood, Pinlock Suspension  
**20TICR** Tychem QC Double Bib Hood, Ratchet Suspension  
**20TICN** Tychem QC Double Bib Hood, No Suspension
- 9" long outer bib
  - 10 per package
- 20TICNX** Tychem QC Double Bib Hood With Inner Bib, No Suspension, No Lens Tissue  
**20TICRX** Tychem QC Double Bib Hood With Inner Bib, Ratchet Suspension, No Lens Tissue



- 
- RT1** Tychem QC Double Bib Hood with Extra-Large Lens  
**RT2** Tychem SL Saranex Coated Double Bib Hood (Gray) with Extra-Large Lens and Taped Seams
- 20" long outer bib
  - No suspension required
  - 10 per package



- 
- 20TICH** Tychem QC Double Bib Hood, for Use with Bullard Hard Hat (Not Included)  
**20TICHC30** Tychem QC Double Bib Hood, C30P Hard Hat Included  
**20TICHC30R** Tychem QC Double Bib Hood, C30R Hard Hat Included  
**20TICHS51** Tychem QC Double Bib Hood, S51P Hard Hat Included  
**20TICHS51R** Tychem QC Double Bib Hood, S51R Hard Hat Included
- 9" long outer bib
  - Five per package



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Replacement Headpieces

- 
- |         |   |
|---------|---|
| 20TICS  | <b>Tychem® QC Double Bib Hood With Taped Seams, Pinlock Suspension</b>  |
| 20TICSR | <b>Tychem QC Double Bib Hood With Taped Seams, Ratchet Suspension</b> <ul style="list-style-type: none"><li>• 19" long outer bib</li><li>• Five per package</li></ul> |
| 20TICSN | <b>Tychem QC Double Bib Hood With Taped Seams, No Suspension</b> <ul style="list-style-type: none"><li>• 19" long outer bib</li><li>• 10 per package</li></ul>        |



- 
- |       |  |
|-------|--|
| 20TJ  | <b>Tychem QC Single Bib Hood, Pinlock Suspension</b>   |
| 20TJR | <b>Tychem QC Single Bib Hood, Ratchet Suspension</b>   |
| 20TJN | <b>Tychem QC Single Bib Hood, No Suspension</b> <ul style="list-style-type: none"><li>• 10 per package</li><li>• 9" long bib</li></ul> |



- 
- |       |   |
|-------|---|
| 20TP  | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension</b>   |
| 20TPR | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension</b>   |
| 20TPN | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, No Suspension</b> <ul style="list-style-type: none"><li>• 10 per package</li><li>• 9" long bib</li></ul> |



- 
- |        |   |
|--------|---|
| 20TPC  | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension</b>   |
| 20TPCR | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension</b>   |
| 20TPCN | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, No Suspension</b> <ul style="list-style-type: none"><li>• 9" long outer bib</li><li>• 10 per package</li></ul> |



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Headpiece Replacement Parts

20RT

### Adjustable Ratchet Headband Suspension

- Sportek™ brow pad
- Fits sizes 6½ to 8 (52-64 mm)



20TG

### Adjustable Headband Suspension

- Sportek brow pad
- Fits sizes 6½ to 8 (52-64 mm)



RBPCOTTON

### Brow Pad

- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



RBPVINYL

### Brow Pad

- Vinyl replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



RBPCOOL

### Brow Pad

- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions
- Easy, snap-on design



20NC

### Elastic Chinstrap

- For 20TG and 20RT suspensions
- 10 per package



20LCL

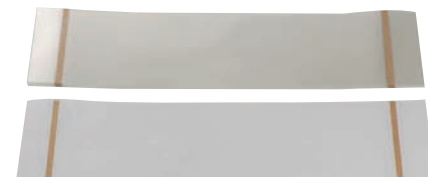
### Adhesive-Edged Mylar® Lens Covers

- 25 per package

20LCLBP

### Same as 20LCL

- Eight packs of 25





# PA30 Series Powered Air Purifying Respirator

## PA30 Series Head Protection

C30P

### Hard Hat

- High-density polyethylene shell
- Full profile, wide brim
- Accessory slots for attachments
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



C30R

### Hard Hat

- Same as Model C30P above with
- 6-point Flex-Gear® ratchet suspension with large, absorbent cotton brow pad (RS6RC)
  - Color: white



S51P

### Hard Hat

- High-density, polyethylene shell
- Flat front, low-profile design
- Accessory slots for cap attachments
- Rain trough brim
- 4-point self-sizing suspension with poly brow pad (RS4PP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



S51R

### Hard Hat

- Same as Model S51P above with
- 4-point Flex-Gear ratchet suspension with poly brow pad (RS4RP)
  - Color: white



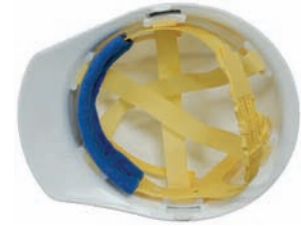
# PA30 Series Powered Air Purifying Respirator

## PA30 Series Head Protection Replacement Parts

RS6PC

### 6-pt. Suspension

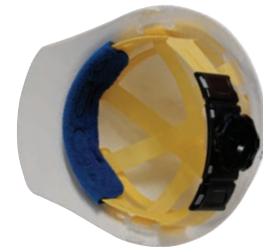
- 6-point self-sizing suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33



RS6RC

### 6-pt. Suspension

- 6-point Flex-Gear™ ratchet suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- Vertical height adjustments (two front, three rear)
- For Models C30R and C33R



RS4PC

### 4-pt. Suspension

- 4-point self-sizing suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, two rear)
- For Model S51



RS4RC

### 4-pt. Suspension

- 4-point Flex-Gear® ratchet suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Model S51R



ES42

### Chinstrap

- Elastic chinstrap
- For Models C30 and S51



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Breathing Tubes and Accessories

- PA1BT Breathing Tube Assembly for Hoods - Standard 26" Length
- PA1BTXS Breathing Tube Assembly for Hoods - Short 22" Length
  - S18051 clamp included
- PA1BTXL Breathing Tube Assembly for Hoods - Long 32" Length



- PA20LFBT Breathing Tube for Loose-Fitting Facepiece - Standard 33" Length
- PA20LFBTXS Breathing Tube for Loose-Fitting Facepiece - Short 26" Length
  - Quick-attach twist lock connection
- PA20LFPTXL Breathing Tube for Loose-Fitting Facepiece - Long 38" Length



- S18051 Breathing Tube Clamp
  - 10 per package



- S18051BLACK Breathing Tube Clamp, black
  - 10 per package



- PA3HPBT PAPR Breathing Tube Assembly with Tychem SL Cover Sleeve



- PAC2QC Tychem QC Dust Cover for PAPR and Sleeve for Breathing Tube



- 20SLBTC Tychem SL Breathing Tube Cover Sleeve
- 20QCBTC Tychem QC Breathing Tube Cover Sleeve
  - Breathing tube not included



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Replacement Blowers

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PA3	Blower Assembly with Standard belt, One NiMH battery, Air Flow Indicator and Port Plugs
PA3DB	Same as PA3 with Decon Belt
PA3BU	Blower Unit Only



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PA3IS	Intrinsically Safe Blower Assembly with Standard Belt, One NiMH battery, Air Flow Indicator and Port Plugs
PA3ISDB	Same as PA3IS with Decon Belt
PA3ISBU	Intrinsically Safe Blower Unit Only



## PA30 Series Replacement Filters

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PA3HE	<b>High Efficiency Particulate (HEPA) Filters</b> <ul style="list-style-type: none"><li>• Six per package</li><li>• PA3PG plug required for use with PA3HE filters (sold separately)</li><li>• High efficiency particulate</li><li>• Purple label</li><li>• 99.97% efficient for .3 microns</li></ul>
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PA3OVAGHE	<b>OV/AG/HE Filters</b> <ul style="list-style-type: none"><li>• Six per package</li><li>• Organic vapors, Chlorine, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride and High Efficiency Particulate</li><li>• Yellow/purple label</li></ul>
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PA3NBC	<b>AG/AM/MA/FM/HE Filters</b> <ul style="list-style-type: none"><li>• Six per package</li><li>• Chlorine, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride, Ammonia, Methylamine, Formaldehyde and High Efficiency Particulate</li><li>• Tan/purple label</li></ul>
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# PA30 Series Powered Air Purifying Respirator

## PA30 Series Batteries and Chargers

PA3SMC

### Quick Charger for PA3 & PA4

- Charges in four hours
- Two ports
- Trickle charge feature
- 110 or 220V; 50 or 60 HZ
- Shipped with U.S. power cord
- Optional cords available for UK, Australia, Japan or Europe



PA3ISC

### Quick Charger for PA3IS

- Charges in six hours
- Single port
- Trickle charge feature
- 110 or 220V; 50 or 60 HZ
- Shipped with U.S. power cord
- Optional cords available for UK, Australia, Japan or Europe



PA3GC

### Gang Charger for PA3 and PA4

- Charges in four hours
- Five ports
- Trickle charge feature
- Conditioning feature



PA3ISGC

### Gang Charger for PA3IS

- Charges in six hours
- Six port
- Trickle charge feature



PA3LBP

### Lithium Battery Pack for PA3

- Single use
- 10-year shelf life
- 4-5 hour run time



PA3BP

### NiMH Battery Pack for PA3 and PA4

- Nickel Metal Hydride Technology
- 4-5 hour run time per battery
- Rechargeable



PA3ISBP

### NiMH Battery Pack for PA3IS

- Intrinsically safe
- Nickel Metal Hydride (NiMH) Technology
- 6-7 hour run time per battery
- Rechargeable



PA3BPC

### Battery Port Cover

- For PA3, PA4 and PA5 blowers when using a single battery



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Belts

- 
- PA1SB**      **Nylon Standard Belt/Comfort Pad**
- Nylon construction
  - Adjustable for waist sizes between 28" and 60"
  - 7" wide in lumbar region for comfort
  - Extra pad in lumbar region for increased comfort



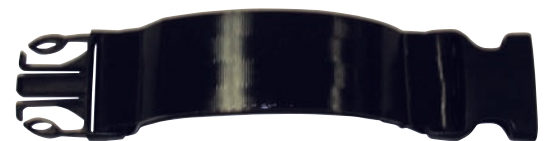
- 
- PA1EB**      **Nylon Extension Belt for PA1SB**
- Allows PA1SB to adjust for waist sizes up to 69"



- 
- PA1DB**      **Vinyl Decon Belt**
- Smooth vinyl construction wipes down easily
  - Adjustable for waist sizes between 28" and 60"
  - 7" wide in lumbar region for support



- 
- PA1DEB**      **Vinyl Extension Belt for PA1DB**
- Allows PA1DB to adjust for waist sizes up to 69"



# PA30 Series Powered Air Purifying Respirator

## PA30 Series Replacement Components and Accessories

- PA1AFI**      **Airflow Indicator**
- To ensure airflow is at least 6.0 CFM



- PA1BTS4**      **Breathing Tube Seal**
- Four per package



- PA3ISAT**      **Low-Voltage Alarm Test Kit for PA30IS Blower**
- Simulates low-voltage condition to test alarm functionality

- PA3ISATUNIV**      **Low-Voltage Alarm Test Kit for PA30IS Blower, with Universal Adaptors**
- Includes adaptors for United Kingdom, Australia, United States and Europe



- PA1LSK**      **Blower Latch and Screw Kit**
- Contains four latches and 16 screws



- PA3PG**      **Plug for Blower Port**
- Plug one port when using two HEPA filters
  - Plug four ports to decon blower units



- PAPRBAG**      **PAPR Storage Bag**
- Vinyl construction
  - Includes shoulder strap
  - 22" long
  - PAPR not included



- PPEBAG**      **Storage Bag**
- Large black padded duffel
  - Includes shoulder strap
  - 11" wide x 13" tall x 25" long



# PA40 Powered Air-Purifying Respirator

## Protection, Comfort, Value

The PA40 Series protects workers against particulates when used according to Bullard instructions. It accomplishes this, in part, by drawing ambient air through a filter or cartridge and supplying that air through a breathing tube into the worker's headpiece.

Customer-driven product development, as well as the incorporation of the latest technologies, culminate in the unique design and comfort features of the PA40 Series.

## "Decon-Friendly" Housing

A smooth finish, sealed and gasketed design, and downward sloping configuration for easy "run-off" ensure that the blower will withstand the most rigorous of decon procedures. An optional decon belt completes the package.

## Battery Design

Other companies' external PAPR battery designs may result in uneven weight distribution, while also creating an additional "snag" hazard and decon concern. The battery packs on the PA40 are engineered inside the profile of the housing, with care taken to allow for easy removal and change-out. The batteries are gasketed and the battery compartment is independent of the airflow chamber in order to maintain blower integrity.

## Battery and Charger

The Bullard PA40 Series uses rechargeable Nickel Metal Hydride (NiMH) batteries that do not suffer the "memory" problems of NiCad battery technology. NiMH batteries contribute to the lightweight design of the PA40, while providing the worker up to 10 hours of battery performance.

Due to the combined characteristics of the NiMH batteries and the unique design of the Bullard chargers, the NiMH batteries will be kept at peak performance even if left on charge for long periods of time. The Bullard PA3SMC and PA3GC chargers offer a trickle charge feature, as well as voltage and temperature monitoring, which help assure that the batteries will be ready next week, next month, even next year!

## Low Voltage Alarms

With the patented design of the Low Voltage Alarm, the alarm is positioned inside the breathing tube and the sound travels into the hood, alerting the worker that he needs to exit the contamination area and replace or recharge the battery.

## Spectrum Facepiece

The Spectrum facepiece features lightweight silicone double flange seals, creating a secure, comfortable fit. The low profile design allows ease of movement while reducing fatigue. The optically-correct lens provides unparalleled peripheral vision while the clear silicone nose cup helps minimize the closed-in feeling that many respirator wearers experience.





# PA40 Series Powered Air Purifying Respirator

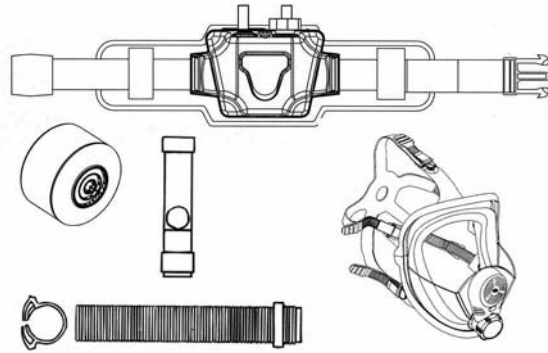
## PA40 Systems

A complete PA40 Series Respirator consists of the following three components:

1. Full Facepiece
2. Breathing Tube Assembly
3. PA4 Blower Assembly

All of these components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-21C-0774 for High Efficiency (HE) Particulate Protection



## PA40 Series Assemblies (Tight Fitting, Full Facepiece PAPR)

### PAPRs with Spectrum Full Facepiece

- assemblies include PA4 blower, Spectrum facepiece, breathing tube, charger, two NiMH batteries and air flow indicator

- |             |  |
|-------------|--|
| PA40SPEC SB | PA4, Spectrum Facepiece with Standard Belt |
| PA40SPEC DB | PA4, Spectrum Facepiece with Decon Belt    |



# PA40 Series Powered Air Purifying Respirator

## PA40 Series Replacement Facepieces

- 
- PASPECML**      **Spectrum Full Facepiece - Medium/Large for Use with PA40**  
**PASPECS**      **Spectrum Full Facepiece - Small for Use with PA40**
- Optically correct (no distortion)
  - Convertible to SAR
  - Includes nose cup (LNK)



## PA40 Series Replacement Filters

- 
- PA3HE**      **High Efficiency Particulate (HEPA) Filters**
- Six per package
  - PA3PG plug required for use with PA3HE filters (sold separately)
  - High efficiency particulate
  - Purple label
  - 99.97% efficient for .3 microns



## PA40 Series Breathing Tubes and Components

- 
- PA4BT**      **Breathing Tube Assembly for PA40 Full Facepiece PAPR**
- 33" long with swivel elbow connection



- 
- 20QCBTC**      **Tychem® QC Breathing Tube Cover Sleeve**  
**20SLBTC**      **Tychem SL Breathing Tube Cover Sleeve**
- Breathing tube not included



- 
- PAC2QC**      **Tychem QC Dust Cover for PAPR and Sleeve for Breathing Tube**



- 
- PA1BTS4**      **Breathing Tube Seal**
- Four per package



# PA40 Series Powered Air Purifying Respirator

## PA40 Series Replacement Blowers

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PA4	PA4 Blower Assembly, One NiMH Battery, Standard Comfort Belt, Air Flow Indicator and Port Plug
PA4DB	PA4 Blower Assembly, One NiMH battery, Decon Belt, Air Flow Indicator and Port Plug
PA4BU	Blower Unit Only, includes Port Plug

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## PA40 Series Batteries and Chargers

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PA3BP	<b>NiMH Battery Pack for PA3, PA4 and PA5</b> <ul style="list-style-type: none"><li>• Nickel Metal Hydride Technology</li><li>• 4-5 hour run time per battery</li><li>• Rechargeable</li></ul>
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PA3BPC	<b>Battery Port Cover</b> <ul style="list-style-type: none"><li>• For PA3, PA4 and PA5 blowers when using a single battery</li></ul>
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PA3GC	<b>Gang Charger</b> <ul style="list-style-type: none"><li>• Five port</li><li>• Charges in four hours</li><li>• Trickle charge feature</li><li>• Conditioning feature</li></ul>
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PA3SMC	<b>Quick Charger for PA3 and PA4</b> <ul style="list-style-type: none"><li>• Two port</li><li>• Charges in four hours</li><li>• Trickle charge feature</li></ul>
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# PA40 Series Powered Air Purifying Respirator

## PA40 Series Belts

PA1SB

### Nylon Standard Belt/Comfort Pad

- Nylon construction
- Adjustable for waist sizes between 28" and 60"
- 7" wide in lumbar region for comfort
- Extra pad in lumbar region for increased comfort



PA1EB

### Nylon Extension Belt for PA1SB

- Allows PA1SB to adjust for waist sizes up to 69"



PA1DB

### Vinyl Decon Belt

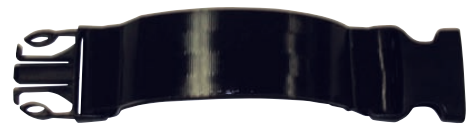
- Smooth vinyl construction wipes down easily
- Adjustable for waist sizes between 28" and 60"
- 7" wide in lumbar region for support



PA1DEB

### Vinyl Extension Belt for PA1DB

- Allows PA1DB to adjust for waist sizes up to 69"





# PA40 Series Powered Air Purifying Respirator

## PA40 Series Replacement Components and Accessories

- PA4AFI**      **PA4 Airflow Indicator**
- To ensure airflow is at least 4.0 CFM



- PAPRBAG**      **PAPR Storage Bag**
- Vinyl construction
  - Includes shoulder strap
  - 22" long
  - PAPR not included



- PPEBAG**      **Storage Bag**
- Large black padded duffel
  - Includes shoulder strap
  - 11" wide x 13" tall x 25" long



- PA3PG**      **Plug for Blower Port**
- Plug one port when using two HEPA filters
  - Plug four ports to decon blower units



# Respiratory Protection: Questions and Answers

## Q: What standards apply to respiratory protection?

### A: Standards

**Breathing Air** – The primary standard for breathing air is Grade D, as set by the Compressed Gas Association ([www.cganet.com](http://www.cganet.com)):

- Oxygen 19.5% - 23.5%
- Carbon Monoxide (CO) 10 ppm max
- No noticeable tastes or smells
- Hydrocarbons or condensed oil 5 mg/m<sup>3</sup> max
- Carbon Dioxide (CO<sub>2</sub>) 1,000 ppm max
- No toxic contaminants at levels that make the air unsafe to breathe

**Respirator System Approval** - All Bullard respirators are approved by NIOSH ([www.cdc.gov/niosh](http://www.cdc.gov/niosh)) in accordance with Title 42 Code of Federal Regulations Part 84. These approvals are assigned only to complete systems; components may not be altered or mixed between manufacturers without voiding NIOSH approval.

**Respirator Protection Programs** - In any workplace where respirators are necessary to protect the health of the employee or whenever respirators are required by the employer, the employer shall establish and implement a written respiratory protection program. These requirements are detailed in the OSHA ([www.osha.gov](http://www.osha.gov)) respiratory protection standard Title 29 Code of Federal Regulations Part 1910.134 and includes procedures for: selecting respirators; medical evaluations; fit testing; proper use; cleaning, storing and maintaining; ensuring proper air quality; training and evaluating effectiveness.



# Supplied Air Respirators (SARs)



## What is a Supplied Air Respirator?

Supplied Air Respirators deliver breathable air to the worker from a clean air source. The air can come from a variety of sources including high pressure compressors, low-pressure pumps or bottled air cylinders. In addition, Supplied Air Respirators can be configured with a variety of head tops including loose-fitting hoods, helmets, tight-fitting masks (full and half) or loose-fitting facepieces.

### Supplied Air Respirator Advantages

There are many advantages to utilizing a Bullard Supplied Air Respirator System, including the ability to protect against a wide array of contaminants without any filter cartridges to purchase or replace. In addition, Bullard Supplied Air Respirators can be configured with heating/cooling tubes to increase worker comfort by as much as 30 degrees F. Finally, Bullard offers the largest selection of available head tops including loose-fitting hoods that do not require fit testing.

### Configuring a Supplied Air Respirator System

There are many choices to make when piecing together various components of a Supplied Air Respirator System. The following steps may help simplify this intimidating task:

- Choose Air Source (Free-Air® Pump or Compressor)
- Choose Head Top
- Choose Suspension and/or Hard Hat
- Choose Breathing Tube
- Choose Flow Control
- Choose Cooling Vest (optional)

### Bullard Product Assigned Protection Factors

Bullard Product	Respirator Type	NIOSH TC #	APF	3rd Party Validation
Lancer	Supplied Air Respirator with Loose-Fitting Helmet	19C-309	1,000	Caldwell Study 1994
77 Series	Supplied Air Respirator with Loose-Fitting Helmet	19C-84	1,000	LLNL Study 1995
88 Series	Supplied Air Respirator with Loose-Fitting Helmet	19C-293	1,000	LLNL Study 1995
CC20 Series*	Supplied Air Respirator with Loose-Fitting Hood	19C-154	1,000	ORC Study 1997
RT Series	Supplied Air Respirator with Loose-Fitting Hood	21C-0796, 23C-2306	1,000	RDECOM Study 2006
PC90 Series	Supplied Air Respirator with Loose-Fitting Hood and Containment Suit	19C-280	1,000	Caldwell Study 1994

\* inner bib models

# CC20 Series Airline Respirator

## Simple, Effective, Ultra-Light

The CC20 Series Tychem® hoods provide a wide variety of simple, effective and economical options for on-the-job respiratory protection. The result is better protection, improved productivity and greater comfort that combines to produce the best value on the market. These hoods are available for use in a CC20 Series Airline Respirator configuration or PA20 and PA30 Series Powered Air Purifying Respirator configuration. These hoods are approved by NIOSH and recommended by Bullard for use in Type C applications.

## Proven Performance

In a 1996 study of hood-style respirators coordinated by the Organization Resources Counselors (ORC), the Bullard Model 20TIC hood was surveyed to be the *number one hood used in the pharmaceutical industry*.

The most commonly used hoods were then used in a simulated workplace protection factor study (SWPF). The Bullard Model 20TIC hood was also the top-performing loose-fitting hood among a variety of competitors. All measurements in the SWPF study were above 150,000, resulting in a study Assigned Protection Factor (APF) of 10,000! This research has resulted in OSHA recognizing a 1,000 APF for the Bullard 20TIC hood.

For a summary of this research, call Bullard Customer Service at 1-800-827-0423.

## Unique Air Delivery System

A patented neck cuff design helps maintain positive pressure inside the hood to aid in keeping contaminants out. As air enters the hood, the inner collar inflates, providing a snug, comfortable fit around the neck and continuous flow of air to the worker's breathing zone.

## Lightweight, Comfortable and Economical

CC20 Series hoods are lighter and more comfortable than tight-fitting full facepiece respirators. Covering the entire head, face and neck, the hood provides splash and overspray protection and makes clean-up quick and easy.

A wide angle lens offers the largest field of vision among Tychem hood style respirators on the market, optimizing worker productivity and safety.

Available in a variety of styles, the hood is constructed of either Tychem QC or Tychem SL depending on the job application. Taped and sealed seams are also available to provide additional protection for liquid penetration encountered on-the-job or during decontamination.

## No Fit Testing

The hood does not require fit testing nor extensive recordkeeping. It easily accommodates beards, prescription eyewear or safety glasses.

## Powered Air or Supplied Air

The hood is available for use as a supplied air respirator (CC20 Series) or powered air respirator (PA20 and PA30 Series). The CC20 is a versatile hood suitable for almost any application.





# CC20 Series Airline Respirator

## CC20 Series Airline Respirator Selection Chart

### 1. Choose Head Top



- 20TJN - Tychem QC Single Bib Hood
- 20TPN - With Solvent-Resistant Lens



- 20TICN - Tychem QC Double Bib Hood
- 20TPCN - With Solvent-Resistant Lens



- 20SICN - Tychem SL Double Bib Hood w/Taped Seams
- 20TICSN - Tychem QC Double Bib Hood w/Taped Seams



- 20SICH - Tychem SL Double Bib Hood w/Taped Seams, for Hard Hats
- 20TICH - Tychem QC Double Bib Hood for Hard Hats



- 20LFM - Loose-Fitting Facepiece, Medium
- 20LFL - Loose-Fitting Facepiece, Large
- 20LF2S, 20LF2M, 20LF2L

### 2. Choose Head Top



- 20RT - Adjustable Ratchet Headband Suspension



- 20TG - Adjustable Headband Suspension



- C30P - 6-point Self Sizing Suspension, Full Profile
- C30R - 6-point Flex-Gear Ratchet Suspension



- S51P - 4-point Self-Sizing Suspension, Low Profile
- S51R - 4-point Flex-Gear Ratchet Suspension



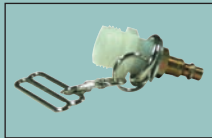
- 20BT - Breathing Tube for Hoods



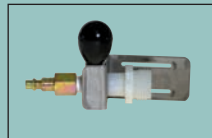
- 20LFLBT - Breathing Tube for Loose-Fitting Facepieces

### 3. Choose Breathing Tube

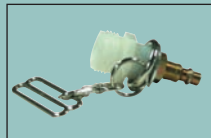
### 4. Choose Flow Control Device



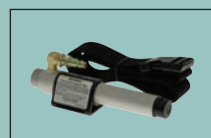
- 1/4" Continuous Flow**
- F30, F30B, F30S - Industrial Interchange
- F31 - Schrader
- F32 - Snap-Tite Steel
- F33 - Snap-Tite Brass
- F34 - Snap-Tite Stainless
- F37 - CEJN



- 1/4" Adjustable Flow**
- F40, F40B, F40S - Industrial Interchange
- F41 - Schrader
- F42 - Snap-Tite Steel
- F43 - Snap-Tite Brass
- F44 - Snap-Tite Stainless
- F47 - CEJN



- 1/2" Continuous Flow for Free-Air Pumps**
- F35, F35B, F35S - Industrial Interchange



- Cool Tubes for Compressed Air**
- AC100030, AC100030B, AC100030S - 1/4" Industrial Interchange
- AC100031 - Schrader
- AC100032 - Snap-Tite Steel
- AC100033 - Snap-Tite Brass
- AC100034 - Snap-Tite Stainless
- AC100037 - CEJN



- Cool Tubes for Free-Air® Pumps**
- FRIGITRON2000 - 1/2" Industrial Interchange
- FRIGITRON200B - Brass
- FRIGITRON200S - Stainless Steel



- Hot/Cold Tubes**
- HC240030, HC240030B, HC240030S - 1/4" Industrial Interchange
- HC240031 - Schrader
- HC240032 - Snap-Tite Steel
- HC240033 - Snap-Tite Brass
- HC240034 - Snap-Tite Stainless
- HC240037 - CEJN

### 5. Choose Cooling Vest System



- DC70ML - Med/Lg Cool Vest
- DC70XLXXL - XL/XXL Cool Vest
- DC705XL - 5XL Cool Vest



- DC5040, DC5040B, DC5040S - DUAL-COOL® Industrial Interchange
- DC5041 - DUAL-COOL Schrader
- DC5042 - DUAL-COOL Snap-Tite Steel
- DC5043 - DUAL-COOL Snap-Tite Brass
- DC5044 - DUAL-COOL Snap-Tite Stainless Steel
- DC5047 - DUAL-COOL CEJN

### 6. Choose Belt and/or Accessories



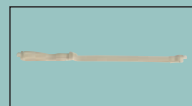
- 4612 - Nylon Belt



- 36501 - Decon Belt



- 20NC - Chinstrap for Hoods



- ES42 - Chinstrap for Hard Hats

# CC20 Series Airline Respirator

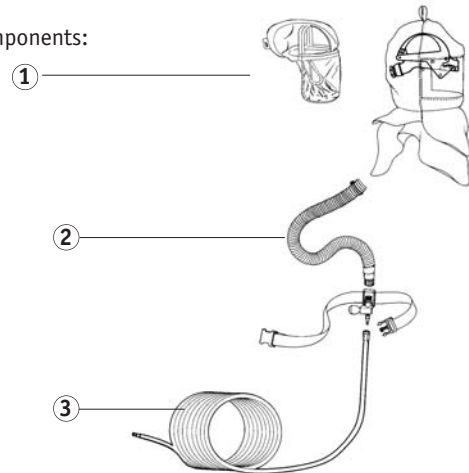
## CC20 Systems

A complete CC20 Series Airline Respirator consists of the following three components:

1. Respirator Hood or Loose-Fitting Facepiece with suspension
2. Breathing Tube with Flow Control Device
3. Breathing Air Supply Hose

All three Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-19C-154



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## CC20 Series Constant Flow Respirator Systems for Use with Compressed Air

- CC20TJ30 Tychem® QC Single Bib Hood System**
- 20TJN hood
  - 20TG pinlock suspension
  - V30 breathing tube assembly with F30 1/4" industrial interchange (Hansen compatible) nipple
  - 4612 nylon belt
- CC20TJ30RT Tychem QC Single Bib Hood System**
- Same as above with 20RT ratchet suspension
- CC20TP30RT Tychem QC Single Bib Hood System**
- Same as above with solvent-resistant lens
- CC20TPC30RT Tychem QC Double Bib Hood System**
- Same as above with solvent-resistant lens



- 
- CC20TIC30 Tychem QC Double Bib Hood System**
- 20TICN hood
  - 20TG pinlock suspension
  - V30 breathing tube assembly with F30 1/4" industrial interchange (Hansen compatible) nipple
  - 4612 nylon belt
- CC20TIC30RT Tychem QC Double Bib Hood System**
- Same as above with 20RT ratchet suspension



# CC20 Series Airline Respirator

## CC20 Series Constant Flow Respirator Systems for use with Compressed Air

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### CC20TICH30 Tychem® QC Double Bib Hood System with Bullard Hard Hat

- 20TICH hood
- Model C30P hard hat
- V30 breathing tube assembly with F30 1/4" industrial interchange (Hansen compatible) nipple
- 4612 nylon belt

### CC20TICH30RT Tychem QC Double Bib Hood System - for Use with Bullard Hard Hat

- Same as above with C30R hard hat with Flex-Gear® suspension

### CC20TICH30S51 Tychem QC Double Bib Hood System - for Use with Bullard Hard Hat

- Same as above with S51P hard hat with pinlock suspension

### CC20TICH30S51R Tychem QC Double Bib Hood System - for Use with Bullard Hard Hat

- Same as above with S51R hard hat with Flex-Gear suspension



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### CC20SIC30 Tychem SL Double Bib Hood System with Taped Seams

- 20SICN hood
- 20TG pinlock suspension
- V30 breathing tube assembly with F30 1/4" industrial interchange (Hansen compatible) nipple
- 4612 nylon belt

### CC20SIC30RT Tychem SL Double Bib Hood System with Taped Seams

- Same as above with 20RT ratchet suspension



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### CC20LF30 Tychem QC Loose-Fitting Facepiece System

- 20LFL loose-fitting facepiece with sewn in suspension
- X30 breathing tube assembly with 1/4" industrial interchange (Hansen compatible) nipple
- 4612 nylon belt



# CC20 Series Airline Respirator

## CC20 Series Constant Flow Respirator Systems for use with Free-Air® Pumps

- 
- CC20SYS One-Worker Respirator System**
- CC20TIC35 respirator assembly
  - EDP10 Free-Air® pump
  - V20100ST air supply hose
  - 20LCL lens covers (One pack of 25)



- 
- CC20TJ35 Tychem® QC Single Bib Hood System**
- 20TJN hood
  - 20TG pinlock suspension
  - V35 breathing tube assembly with F35 1/2" industrial interchange (Hansen compatible) nipple
  - 4612 nylon belt

- CC20TJ35RT Tychem QC Single Bib Hood System**
- Same as above with 20RT ratchet suspension



- 
- CC20TIC35 Tychem QC Double Bib Hood System**
- 20TICN hood
  - 20TG pinlock suspension
  - V35 breathing tube assembly with F35 1/2" industrial interchange (Hansen compatible) nipple
  - 4612 nylon belt

- CC20TIC35RT Tychem QC Double Bib Hood System**
- Same as above with 20RT ratchet suspension



- 
- CC20LF35 Tychem QC Loose-Fitting Facepiece System**
- 20LFL loose-fitting facepiece with sewn in suspension
  - X35 breathing tube assembly with 1/2" industrial interchange (Hansen compatible) nipple
  - 4612 nylon belt



# CC20 Series Airline Respirator

## CC20 Series Replacement Headpieces

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20LFL	<b>Loose-Fitting Facepiece, Large</b>
20LFM	<b>Loose-Fitting Facepiece, Medium</b> <ul style="list-style-type: none"><li>• Sewn in suspension</li><li>• Latex-free</li><li>• Quick-attach twist lock connection</li><li>• Five per package</li></ul>
20LF2L	<b>Loose-Fitting Facepiece with Narrow Profile, Large</b> <ul style="list-style-type: none"><li>• Sewn in suspension</li><li>• Latex-free</li><li>• Quick-attach twist lock connection (Black)</li><li>• Five per package</li></ul>
20LF2M	<b>Same as 20LF2L with Blue Twist Lock Connection, Medium</b>
20LF2S	<b>Same as 20LF2L with Green Twist Lock Connection, Small</b>

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20SIC	<b>Tychem® SL Double Bib Hood with Taped Seams, Pinlock Suspension</b>
20SICR	<b>Tychem SL Double Bib Hood with Taped Seams, Ratchet Suspension</b>
20SICN	<b>Tychem SL Double Bib Hood with Taped Seams, No Suspension</b> <ul style="list-style-type: none"><li>• 19" long outer bib</li><li>• Five per package</li></ul>

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20SICH	<b>Tychem SL Double Bib Hood with Taped Seams, Hard Hat Not Included</b>
20SICHC30	<b>Same as 20SICH with C30P Hard Hat Included</b>
20SICHC30R	<b>Same as 20SICH with C30R Hard Hat Included</b>
20SICHS51	<b>Same as 20SICH with S51P Hard Hat Included</b>
20SICHS51R	<b>Same as 20SICH with S51R Hard Hat Included</b> <ul style="list-style-type: none"><li>• For use with Bullard hard hat</li><li>• 9" long outer bib</li><li>• Five per package</li></ul>

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20TIC	<b>Tychem QC® Double Bib Hood with Inner Bib, Pinlock Suspension</b>
20TICR	<b>Tychem QC Double Bib Hood with Inner Bib, Ratchet Suspension</b>
20TICN	<b>Tychem QC Double Bib Hood with Inner Bib, No Suspension</b> <ul style="list-style-type: none"><li>• 9" long outer bib</li><li>• 10 per package</li></ul>
20TICNX	<b>Tychem QC Double Bib Hood With Inner Bib, No Suspension, No Lens Tissue</b>
20TICRX	<b>Tychem QC Double Bib Hood With Inner Bib, Ratchet Suspension, No Lens Tissue</b>

---



# CC20 Series Airline Respirator

## CC20 Series Replacement Headpieces

- 
- |            |   |
|------------|---|
| 20TICH     | <b>Tychem® QC Double Bib Hood, for Use with Bullard Hard Hat (Not Included)</b> |
| 20TICHC30  | <b>Tychem QC Double Bib Hood, Includes C30P Hard Hat</b>                        |
| 20TICHC30R | <b>Tychem QC Double Bib Hood, Includes C30R Hard Hat</b>                        |
| 20TICH551  | <b>Tychem QC Double Bib Hood, Includes S51P Hard Hat</b>                        |
| 20TICH551R | <b>Tychem QC Double Bib Hood, Includes S51R Hard Hat</b>                        |
- 9" long outer bib
  - Five per package



- 
- |         |   |
|---------|---|
| 20TICS  | <b>Tychem QC Double Bib Hood with Taped Seams, Pinlock Suspension</b> |
| 20TICSR | <b>Tychem QC Double Bib Hood with Taped Seams, Ratchet Suspension</b> |
| 20TICSN | <b>Tychem QC Double Bib Hood with Taped Seams, No Suspension</b>      |
- Five per package
  - 19" long outer bib
  - 10 per package



- 
- |       |  |
|-------|--|
| 20TJ  | <b>Tychem QC Single Bib Hood, Pinlock Suspension</b> |
| 20TJR | <b>Tychem QC Single Bib Hood, Ratchet Suspension</b> |
| 20TJN | <b>Tychem QC Single Bib Hood, No Suspension</b>      |
- 10 per package
  - 9" long bib



- 
- |       |   |
|-------|---|
| 20TP  | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension</b> |
| 20TPR | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension</b> |
| 20TPN | <b>Tychem QC Single Bib Hood for Painting, Solvent Resistant Lens, No Suspension</b>      |
- 10 per package
  - 9" long bib



- 
- |        |   |
|--------|---|
| 20TPC  | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Pinlock Suspension</b> |
| 20TPCR | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, Ratchet Suspension</b> |
| 20TPCN | <b>Tychem QC Double Bib Hood for Painting, Solvent Resistant Lens, No Suspension</b>      |
- 10 per package
  - 9" long bib



# CC20 Series Airline Respirator

## CC20 Series Headpiece Replacement Parts

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**20RT Adjustable Ratchet Headband Suspension**

- Sportek™ brow pad
- Fits sizes 6½ to 8 (52-64 mm)



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**20TG Adjustable Headband Suspension**

- Sportek brow pad
- Fits sizes 6½ to 8 (52-64 mm)



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**RBPCOTTON Brow Pad**

- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



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**RBPVINYL Brow Pad**

- Vinyl replacement brow pad
- Fits all Bullard suspensions
- Easy, snap-on design



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**RBPCOOL Brow Pad**

- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions
- Easy, snap-on design



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**20NC Elastic Chinstrap**

- For 20TG and 20RT suspensions
- 10 per package



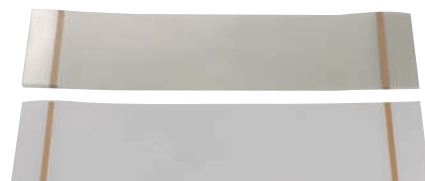
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**20LCL Adhesive-Edged Mylar® Lens Covers**

- 25 per package

**20LCLBP**

- Same as 20LCL
- Eight packs of 25



Supplied Air Respirators

# CC20 Series Airline Respirator

## CC20 Series Head Protection

---

C30P

### Hard Hat

- High-density polyethylene shell
- Full profile, wide brim
- Accessory slots for attachments
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



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C30R

### Hard Hat

- Same as Model C30P above with
- 6-point Flex-Gear® ratchet suspension with large, absorbent cotton brow pad (RS6RC)
  - Color: white



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S51P

### Hard Hat

- High-density, polyethylene shell
- Flat front, low-profile design
- Accessory slots for cap attachments
- Rain trough brim
- 4-point self-sizing suspension with poly brow pad (RS4PP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



---

S51R

### Hard Hat

- Same as Model S51P above with
- 4-point Flex-Gear ratchet suspension with poly brow pad (RS4RP)
  - Color: white





# CC20 Series Airline Respirator

## CC20 Series Head Protection Replacement Parts

RS6PC

### 6-pt. Suspension

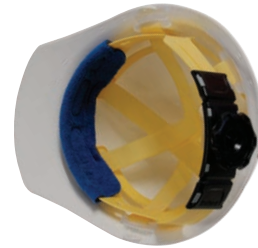
- 6-point self-sizing suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33
- Hard hat not included



RS6RC

### 6-pt. Suspension

- 6-point Flex-Gear® ratchet suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- Vertical height adjustments (two front, three rear)
- For Models C30R and C33R
- Hard hat not included



RS4PC

### 4-pt. Suspension

- 4-point self-sizing suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, two rear)
- For Model S51P
- Hard hat not included



RS4RC

### 4-pt. Suspension

- 4-point Flex-Gear ratchet suspension
- Large Cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Model S51R
- Hard hat not included



ES42

### Chinstrap

- Elastic chinstrap
- For Models C30R and S51R



# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Assemblies for Hoods

- assemblies include 20BT breathing tube, 4612 nylon belt and S18051 clamp

### Constant Flow Assemblies

**V30**

- With F30 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with compressed air



**V31**

- With F31 1/4" Schrader quick-disconnect nipple
- For use with compressed air



**V32**

- With F32 1/4" Snap-Tite steel quick-disconnect nipple
- For use with compressed air



**V33**

- With F33 1/4" Snap-Tite brass quick-disconnect nipple
- For use with compressed air



**V35**

- With F35 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with Bullard Free-Air® pumps



### Adjustable Flow Assemblies

**V40**

- With F40 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with compressed air



**V41**

- With F41 1/4" Schrader quick-disconnect nipple
- For use with compressed air



**V42**

- With F42 1/4" Snap-Tite steel quick-disconnect nipple
- For use with compressed air



**V43**

- With F43 1/4" Snap-Tite brass quick-disconnect nipple
- For use with compressed air



# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Assemblies for Loose-Fitting Facepieces

- assemblies include 20LFBT breathing tube and 4612 nylon belt

### Constant Flow Assemblies

X30

- With F30 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with compressed air



### Adjustable Flow Assemblies

X40

- With F40 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with compressed air



X31

- With F31 1/4" Schrader quick-disconnect nipple
- For use with compressed air



X32

- With F32 1/4" Snap-Tite steel quick-disconnect nipple
- For use with compressed air



X33

- With F33 1/4" Snap-Tite brass quick-disconnect nipple
- For use with compressed air



X35

- With F35 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
- For use with Bullard Free-Air® pumps



Supplied Air Respirators

# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Replacement Parts

- 
- F30** Constant Flow Control Valve  
**F30B** Constant Flow Control Valve, Brass with Nylon Belt  
**F30S** Constant Flow Control Valve, Stainless Steel with Nylon Belt  
**F30SD** Constant Flow Control Valve, Stainless Steel with Decon Belt  
**F30VDB** Constant Flow Control Valve with Vinyl Belt
- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
  - Threaded hose connector
  - Connects to 88VXBT, L99BT, 20BT or 20LFBT
  - For use with compressed air



- 
- F31** Constant Flow Control Valve
- Same as above with 1/4" Schrader quick-disconnect nipple



- 
- F32** Constant Flow Control Valve
- Same as F30 above with 1/4" Snap-Tite steel quick-disconnect nipple



- 
- F33** Constant Flow Control Valve
- Same as F30 above with 1/4" Snap-Tite brass quick-disconnect nipple



- 
- F34** Constant Flow Control Valve
- Same as F30 above with 1/4" Snap-Tite stainless steel quick-disconnect nipple



# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Replacement Parts

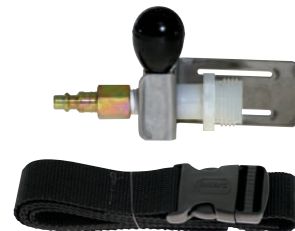
- F35** Constant Flow Control Valve, Steel  
**F35B** Constant Flow Control Valve, Brass  
**F35S** Constant Flow Control Valve, Stainless Steel
- 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
  - Threaded hose connector
  - Nylon belt
  - Connects to 88VXBT, L99BT, 20BT or 20LFBT
  - For use with Bullard Free-Air® pumps



- F37** Constant Flow Control Valve
- Same as F35 above with 1/4" CEJN quick-disconnect nipple
  - For use with compressed air



- F40** Adjustable Flow Control Valve, Steel, Nylon Belt  
**F40B** Adjustable Flow Control Valve, Brass, Nylon Belt  
**F40S** Adjustable Flow Control Valve, Stainless Steel, Nylon Belt  
**F40VDB** Adjustable Flow Control Valve, Vinyl Decon Belt
- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
  - Threaded hose connector
  - Connects to 88VXBT, L99BT, 20BT or 20LFBT
  - For use with compressed air



- F41** Adjustable Flow Control Valve
- Same as F40 above with 1/4" Schrader quick-disconnect nipple
  - Nylon belt



Supplied Air Respirators

# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Replacement Parts

F42

**Adjustable Flow Control Valve**

- 1/4" Snap-Tite steel quick-disconnect nipple
- Threaded hose connector
- Nylon belt
- Connects to 88VXBT, L99BT, 20BT or 20LFLBT
- For use with compressed air



F43

**Adjustable Flow Control Valve**

- Same as F42 above with 1/4" Snap-Tite brass quick-disconnect nipple



F44

**Adjustable Flow Control Valve**

- Same as F42 above with 1/4" Snap-Tite stainless steel quick-disconnect nipple



F45

**Adjustable Flow Control Valve**

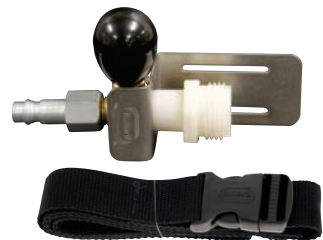
- Same as F42 above with 1/4" Industrial Interchange brass quick-disconnect nipple



F47

**Flow Control Valve**

- Same as F42 above with 1/4" CEJN quick-disconnect nipple



# CC20 Series Airline Respirator

## CC20 Series Breathing Tube Replacement Parts

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**20BT Breathing Tube for Hoods**

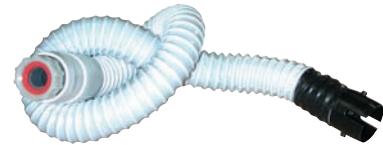
- Nipple not included
- S18051 clamp



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**20LFBT Breathing Tube for Loose-Fitting Facepieces**

- Nipple not included



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**S18051 Breathing Tube Clamp**

- 10 per package



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**S18051BLACK Breathing Tube Clamp, Black**

- 10 per package



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**4612 Nylon Belt**



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**36501 Vinyl Decon Belt**



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**20QCBTC Tychem® QC Breathing Tube Cover**  
**20SLBTC Tychem SL Breathing Tube Cover**



# RT Series Airline Respirator

## Innovative and Proven

Similar to the proven design of the Bullard CC20, the top performing hood in the OSHA-acknowledged ORC Study, the RT Series hood family represents a significant improvement in the realm of Tychem® hood protection. In addition to the recognized benefits of hood-style respirators (no fit testing, no facial hair issues and eyewear accommodation), the RT Series offers several unique, customer-driven features that make it stand out from other Tychem hoods.

### Patent-pending Air Delivery System

Air flows into the neck cuff and is then directed through a three-channel air delivery system that delivers the air over the user's head, down the front of the lens and into the breathing zone. This unique air delivery method provides for a positive seal, minimizes fogging of the lens, minimizes dry eyes and nasal passages, and provides a reservoir of breathing air to help maintain positive pressure.

### Panoramic View

The domed feature of the RT Series hood lens, provides added visibility and allows more light in minimizing the "closed-in," claustrophobic feeling sometimes experienced in other respirator hoods. A latex-free elastic band located in the neck cuff promotes curvature of the lens while aiding in the neck cuff's inflation.

### Long Inner and Outer Bibs

The 20" long outer bibs of the RT Series provide splash protection and feature Velcro® straps that connect the front and rear outer bibs providing a custom fit, eliminating the possibility of the bib "flipping up" during bending or scooping operations and provide added stability to the hood. Inner bibs add an additional barrier between the worker and the contaminants. With the bibs tucked in, the excess air flowing out of the respirator will travel across the user's body, creating a cooling effect.

### Tychem SL (Saranex®) Visual

The RT Series Hood is available in either white Tychem QC (RT1) or gray Tychem SL (RT2). The RT2, constructed of gray Tychem SL, features taped and sealed seams to minimize the potential for any inward leakage at the sewn seams. Tychem SL is Saranex coated and provides excellent permeation characteristics against more caustic chemicals.

### Ultimate Disposability

The RT Series Hood is available as a stand-alone replacement hood for those applications that allow for decontamination and reuse of the breathing tube. For those applications or processes that do not allow for decontamination, the RT Series is available fully assembled with a disposable lightweight breathing tube. After exiting from the area, the user may dispose of the complete assembly.

### RT Series Hoods Perform in SWPF Study

At Bullard's request, the US Army's RDECOM (Research Development and Engineering Command) Center performed a simulated workplace protection factor (SWPF) study using the well-respected ORC Study protocol. Exercises were chosen to simulate activities that may be seen in a pharmaceutical manufacturing application. Using 15 test subjects, with 10 exercises in four different trials, the RT Series Hood was shown to have 5th percentile SWPFs in excess of 100,000!





# RT Series Airline Respirator

## RT Series Airline Respirator Selection Chart

### 1. Choose Head Top

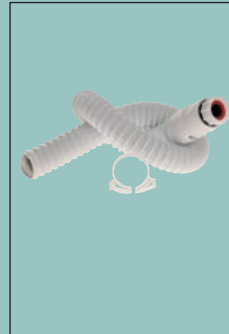


•RT1 - Tychem® QC Double Bib Hood



•RT2 - Tychem SL (Saranex coated) Double Bib Hood with Taped Seams

### 2. Choose Breathing Tube



•20BT - Breathing Tube for Hoods



•RTBT - Disposable Breathing Tube

### 3. Choose Flow Control Device



**1/4" Continuous Flow**  
 •F30, F30B, F30S - Industrial Interchange  
 •F31 - Schrader  
 •F32 - Snap-Tite Steel  
 •F33 - Snap-Tite Brass  
 •F34 - Snap-Tite Stainless



**Cool Tubes for Compressed Air**  
 •AC100030, AC100030B, AC100030S - Industrial Interchange  
 •AC100031 - Schrader  
 •AC100032 - Snap-Tite Steel



**Hot/Cold Tubes**  
 •HC240030, HC240030B, HC240030S - Industrial Interchange  
 •HC240031 - Schrader  
 •HC240032 - Snap-Tite Steel

### 4. Choose Belt and/or Accessories



•4612 - Nylon Belt



•36501 - Decon Belt

# RT Series Airline Respirator

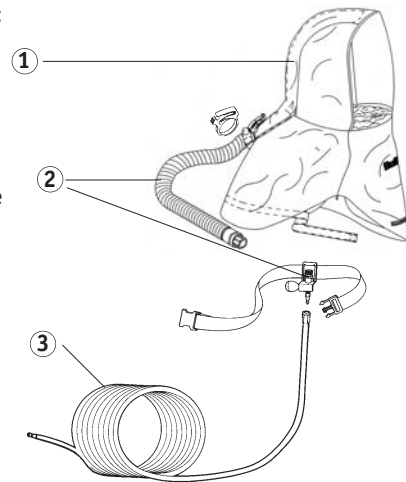
## RT Systems

A complete RT Series Airline Respirator consists of the following three components:

1. Respirator Hood
2. Breathing Tube with Fitting or Optional Climate Control Assembly
3. Breathing Air Supply Hose

All three Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

**Approval No. TC-19C-412, Type C, Continuous Flow Class**



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## RT Series Constant Flow Respirator Systems for Compressed Air

**RT130**

**Constant Flow Respirator Assembly**

- RT1 Tychem® QC double bib hood system - extra-large lens
- No suspension required
- V30 breathing tube assembly with F30 1/4" Industrial Interchange (Hansen compatible) nipple and 4612 nylon belt
- For use with compressed air



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**RT230**

**Constant Flow Respirator Assembly**

- RT2 Tychem SL (gray, Saranex coated) double bib hood system - extra-large lens
- Taped seams
- No suspension required
- V30 breathing tube assembly with F30 1/4" Industrial Interchange (Hansen compatible) nipple and 4612 nylon belt
- For use with compressed air



# RT Series Airline Respirator

## RT Series Disposable Respirator Systems

RT1DA

### Constant Flow Disposable Assembly

- RT1 Tychem® QC double bib hood system - extra-large lens
- No suspension required
- RTBT lightweight disposable breathing tube assembly
- Preassembled and individually bagged
- Flow control device sold separately



RT2DA

### Constant Flow Disposable Assembly

- RT2 Tychem SL (gray, Saranex coated) double bib hood system - extra-large lens
- No suspension required
- RTBT lightweight disposable breathing tube assembly
- Preassembled and individually bagged
- Flow control device sold separately



## RT Series Replacement Hoods

RT1

### Tychem QC Double Bib Hoods

- Inner bib, 20" long outer bib
- Bib retention straps
- Extra-large lens
- No suspension required
- 10 per package



RT2

### Tychem SL (Saranex coated) Double Bib Hoods

- Inner bib, 20" long outer bib, taped seams
- Bib retention straps
- Gray color for visual indication of Tychem SL
- Extra-large lens
- No suspension required
- Five per package



# RT Series Airline Respirator

## RT Series Breathing Tube Assemblies

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**V30**      **Constant Flow Breathing Tube Assembly for Hoods**

- 20BT breathing tube
- F30 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- S18051 Clamp
- For use with compressed air



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**V31**      **Constant Flow Breathing Tube Assembly for Hoods**

- 20BT breathing tube
- F31 1/4" Schrader quick-disconnect nipple
- S18051 Clamp
- For use with compressed air



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**V32**      **Constant Flow Breathing Tube Assembly for Hoods**

- Same as V31 above with:
- F32 1/4" Snap-Tite steel quick-disconnect nipple



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**V33**      **Constant Flow Breathing Tube Assembly for Hoods**

- Same as V32 above with:
- F33 1/4" Snap-Tite brass quick-disconnect nipple



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**V34**      **Constant Flow Breathing Tube Assembly for Hoods**

- Same as V32 above with:
- F34 1/4" Snap-Tite stainless steel quick-disconnect nipple



# RT Series Airline Respirator

## RT Series Breathing Tube Replacement Parts

F30

### Constant Flow Control Valve

- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- 4612 nylon belt
- Connects to 88VXBT, L99BT, 20BT, RTBT or 20LFBT
- For use with compressed air



F31

### Constant Flow Control Valve

- 1/4" Schrader quick-disconnect nipple
- Threaded hose connector
- 4612 nylon belt
- Connects to 88VXBT, L99BT, 20BT, RTBT or 20LFBT
- For use with compressed air



F32

### Constant Flow Control Valve

- 1/4" Snap-Tite steel quick-disconnect nipple
- Threaded hose connector
- 4612 nylon belt
- Connects to 88VXBT, L99BT, 20BT, RTBT or 20LFBT
- For use with compressed air



F33

### Constant Flow Control Valve

- 1/4" Snap-Tite brass quick-disconnect nipple
- Threaded hose connector
- 4612 nylon belt
- Connects to 88VXBT, L99BT, 20BT, RTBT or 20LFBT
- For use with compressed air



F34

### Constant Flow Control Valve

- 1/4" Snap-Tite stainless steel quick-disconnect nipple
- Threaded hose connector
- 4612 nylon belt
- Connects to 88VXBT, L99BT, 20BT, RTBT or 20LFBT
- For use with compressed air



# RT Series Airline Respirator

## RT Series Breathing Tube Replacement Parts

20BT

**Breathing Tube for Hoods**

- Nipple not included
- S18051 clamp



RTBT

**Disposable Breathing Tube**

- Nipple not included
- S18051 clamp



S18051

**Breathing Tube Clamp**

- 10 per package



4612

**Nylon Belt**



36501

**Vinyl Decon Belt**



20QCBTC  
20SLBTC

**Tychem® QC Breathing Tube Cover**  
**Tychem SL Breathing Tube Cover**



# PC90 Series Airline Containment Respirator



## Respiratory and Full Body Dermal Protection.

The Bullard PC90 Series Airline Respirator stands apart from other Type C, continuous flow respirators as a NIOSH approved airline respirator that includes a full body containment suit. Designed especially for potent-compound applications, the PC90 respirator provides the wearer with respiratory protection from airborne contaminants and full-body dermal protection to help prevent contaminants from being absorbed by the skin. This exclusive system also helps protect products against contamination during the manufacturing process – an important safeguard in many industries.

### Complete coverage

The lightweight, parka-style hood and full-body suit create a strong and tear-resistant physical barrier to airborne contaminants. As a positive pressure device, air pushes outward from the worker, helping protect the worker's respiratory tract and entire body from exposure to airborne contaminants.

### Durable Material

The parka-style hood and suit are constructed of high strength, dust-free Tychem® SL, a Tyvek® based material that is laminated with Saranex 23-P. Seams are serged, then taped and sealed to further prevent the entry of airborne contaminants.

### Enhanced Worker Comfort and Productivity

The PC90 is made of a lightweight, supple material for easy bending and stretching. For cooling on the job, the respirator is approved for use with the Bullard DC60 DUAL-COOL®, a climate control system that features separate air entries to deliver air to a cooling vest and to the hood, dropping air temperature by as much as 30°F (17°C).

### Reusable or Disposable

The PC90 parka and containment suit are durable enough for limited reuse, yet inexpensive enough to discard after each use, depending on the work application. They are easily decontaminated in air or water decontamination showers.

### Unique Air Delivery System

As air enters the hood, the inner air trough inflates, providing a snug, comfortable fit around the neck and a continuous flow of air directly to the worker's breathing zone. Excess air exits from the hood and funnels into the containment suit. The air moves over the body to provide some cooling and exits through one-way exhaust valves.

### No Fit Testing

Hood-style respirators do not require fit testing and elaborate record keeping. The parka-style hood easily accommodates beards, prescription eyewear or safety glasses.

# PC90 Series Airline Respirator

## PC90 Series Airline Respirator Selection Chart

### 1. Choose Parka Size



- PC90ML - Medium/Large Respirator Parka
- PC90XL - Extra-Large/XX-Large Respirator Parka
- PC90XXXL - XXX-Large Respirator Parka

### 2. Choose Containment Suit



- CS90S - Small Containment Suit
- CS90M - Medium Containment Suit
- CS90L - Large Containment Suit
- CS90XL - Extra-Large Containment Suit
- CS90XXL - XX-Large Containment Suit
- CS90XXXL - XXX-Large Containment Suit

### 3. Choose Suspension



- 20RT - Adjustable Ratchet Headband Suspension



- 20TG - Adjustable Headband Suspension

### 4. Choose Breathing Tube with Flow Control



- C40 - Adjustable Flow, 1/4" Industrial Interchange
- C41 - Adjustable Flow Breathing Tube Assembly, 1/4" Schrader
- C42 - Adjustable Flow Breathing Tube Assembly, 1/4" Snap-Tite Steel
- C43 - Adjustable Flow Breathing Tube Assembly, 1/4" Snap-Tite Brass

### 5. Choose Cooling Vest System



- DC70ML - Med/Lg Cool Vest
- DC70LXXL - XL/XXL Cool Vest
- DC705XL - 5XL Cool Vest



- DC6040, DC6040B, DC6040S - DUAL-COOL® Industrial Interchange
- DC6041 - DUAL-COOL Schrader
- DC6042 - DUAL-COOL Snap-Tite Steel
- DC6043 - DUAL-COOL Snap-Tite Brass
- DC6044 - DUAL-COOL Snap-Tite Stainless Steel
- DC6047 - DUAL-COOL CEJN

### 6. Choose Belt and/or Accessories



- 4612 - Nylon Belt



- 36501 - Decon Belt



- 20NC - Chinstrap



# PC90 Series Airline Containment Respirator

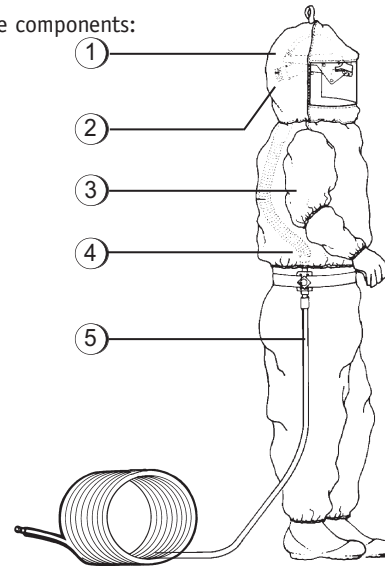
## PC90 Series Systems

A complete PC90 Series Airline Containment Respirator consists of the following five components:

1. Parka-style Respirator Hood
2. Suspension
3. Containment Suit
4. Breathing Tube Assembly with Optional Climate Control Device
5. Breathing Air Supply Hose

All of these components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-19C-280, Type C, Continuous Flow Class



## PC90 Series Parkas

PC90ML  
PC90XL  
PC90XXL

Medium/Large Respirator Parka

Extra-Large Respirator Parka

XX-Large Respirator Parka

- Tychem® SL material
- Seams are taped and thermally sealed
- Includes sewn-in lens
- Suspension, containment suit and breathing tube assembly must be ordered separately



## PC90 Series Headband Suspensions

20RT

Adjustable Ratchet Headband Suspension

- Sportek™ brow pad
- Fits sizes 6½ to 8 (52-64 mm)



20TG

Adjustable Headband Suspension

- Sportek brow pad
- Fits sizes 6½ to 8 (52-64 mm)



20NC

Elastic Chinstrap

- For 20TG and 20RT suspensions
- 10 per package



Supplied Air Respirators

# PC90 Series Airline Containment Respirator

## PC90 Series Containment Suits

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CS90S	<b>Small Containment Suit</b>
CS90M	<b>Medium Containment Suit</b>
CS90L	<b>Large Containment Suit</b>
CS90XL	<b>Extra-Large Containment Suit</b>
CS90XXL	<b>XX-Large Containment Suit</b>
CS90XXXL	<b>XXX-Large Containment Suit</b>

- Tychem® SL material
- Seams are taped and thermally sealed
- Four air exhaust valves
- Includes sewn-in glove liners, elastic stirrups and elastic neck closure with barrel cinch



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## PC 90 Series Breathing Tube Assemblies

C40	<b>Adjustable Flow Breathing Tube Assembly, Industrial Interchange</b> <ul style="list-style-type: none"><li>• 90BT breathing tube</li><li>• 1/4" industrial interchange (Hansen compatible) nipple with adjustable flow control valve</li><li>• Vinyl decon belt</li><li>• S18051 clamp</li><li>• For use with compressed air</li></ul>
C41	<b>Adjustable Flow Breathing Tube Assembly, Schrader</b> <ul style="list-style-type: none"><li>• Same as above with 1/4" Schrader nipple with adjustable flow control valve</li></ul>
C42	<b>Adjustable Flow Breathing Tube Assembly, Snap-Tite Steel</b> <ul style="list-style-type: none"><li>• Same as above with 1/4" Snap-Tite nipple, steel with adjustable flow control valve</li></ul>
C43	<b>Adjustable Flow Breathing Tube Assembly, Snap-Tite Brass</b> <ul style="list-style-type: none"><li>• Same as above with 1/4" Snap-Tite nipple, brass with adjustable flow control valve</li></ul>



# PC90 Series Airline Containment Respirator

## PC90 Series Replacement Parts and Accessories

90BT

### Breathing Tube

- Nipple not included
- For use with adjustable flow control valve
- S18051 clamp



S18051

### Breathing Tube Clamp

- 10 per package



S18051BLACK

### Breathing Tube Clamp, Black

- 10 per package



36501

### Vinyl Decon Belt



4612

### Nylon Belt



20LC

### Adhesive-Backed Mylar® Lens Cover

- Clear
- 25 per package



Supplied Air Respirators

# Blasting and Grinding Respirators



## What are Blasting and Grinding Respirators?

Bullard has been a leader in the abrasive blasting and grinding industry since the 1930s when it developed the supplied air abrasive blasting respirator for the construction of the Golden Gate Bridge. Since then, Bullard has continued to develop respiratory protection products for not only abrasive blasters, but also for industrial grinding.

### Abrasive Blasting

Abrasive blasting respirators are defined as Type CE by NIOSH according to 42CFR84 as follows:

#### 84.130 Supplied-air respirators; description.

*(f) "Type "CE" supplied-air respirators. A type "C" supplied-air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning."*

Bullard offers abrasive blasters two choices in respiratory protection: 88VX and Lancer.

The 88VX is rated as a continuous flow Type CE abrasive blasting respirator, complete with a durable cape to protect the wearer's head and neck against abrasive rebound, as well as a durable helmet which meets the ANSI head protection standard requirements. The helmet has both an inner lens and an outer lens to meet the requirements of 42CFR.130 explained above. The 88VX has been recognized by OSHA to meet a 1,000 APF for use in Lead in Construction.

The Lancer has the same style protective helmet and cape system as the 88VX, but also carries the additional rating for pressure demand since it includes a tight fitting half mask inside the helmet. This configuration meets the OSHA's recommended assigned protection factor of 1,000.

### Grinding

Bullard was one of the first to offer a hood-style respirator designed specifically with grinding operations in mind. The GR50 is lightweight and fully protective with a Nomex outer hood, flame retardant inner bib and the ability to integrate a hard hat.

### Solutions

Whether blasting or grinding, Bullard can provide the appropriate respiratory protection.



# 88VX™ Series Airline Respirator

## The most popular blasting respirator in the industry.

The Bullard 88VX Series airline respirators offer advancements in comfort and reliable respiratory protection for abrasive blasters and painters.

The 88VX Respirator is NIOSH approved as a Type C and CE Continuous Flow Class Respirator (Approval No. TC-19C-293).

### Advanced Protection

88VX Series airline respirators provide advanced protection in the harsh exposures of blasting and painting. The snug, yet comfortable, sewn in neck cuff provides a physical barrier to airborne contaminants and helps maintain positive pressure within the helmet. A new double lining in the neck area now enhances durability and protection.

### Comfortable Fit

A lightweight inner shell with an adjustable headband suspension holds the respirator firmly and comfortably on the wearer's head. Airflow is channeled directly to the user's breathing zone for easy breathing. The helmet easily accommodates beards, prescription eye wear or safety glasses. No fit testing is required.

### Head Protection

The helmet provides top impact and penetration protection. The helmet and cape help protect the worker's entire head, face and upper body from abrasive rebound, airborne contaminants and messy overspray.

### Optimum Visibility

The wide-angle faceshield lens and headband suspension system are positioned for optimum visibility. With the translucent yellow helmet, workers don't experience a closed-in feeling.

### Overall Convenience

88VX respirator components are easily replaceable, saving you lost time on the job as well as the inconvenience of having to replace the entire respirator assembly.

### Climate Control

Optional climate control assemblies permit workers to warm or cool incoming air to maximize comfort and improve productivity.



# 88VX™ Series Airline Respirator

## Features and Benefits

### Injection-molded inner shell

Key slots for suspension are molded in the shell to provide a better fit. The shell is also lightweight, compact and portable.

### Latch design on window frame and helmet

Stronger, lower profile provides more tension on window and protection for the interior cape hook.

### Forest green window frame gasket material

More durable, enhanced resistance to temperature variations, better conformity to window frame. Easier to install into hood and replace inner lens.

### Forest green window frame material

More flexible and durable with a better gasket seal. Easier to install outer lens.

### Breathing tube with more flexible coating and forest green cuffs

More flexible and durable, reducing the amount of strain on the helmet and thus the user's neck.

### Cape design with double lining above neck

Double lining enhances durability, comfort and protection.

### Latch position behind window frame

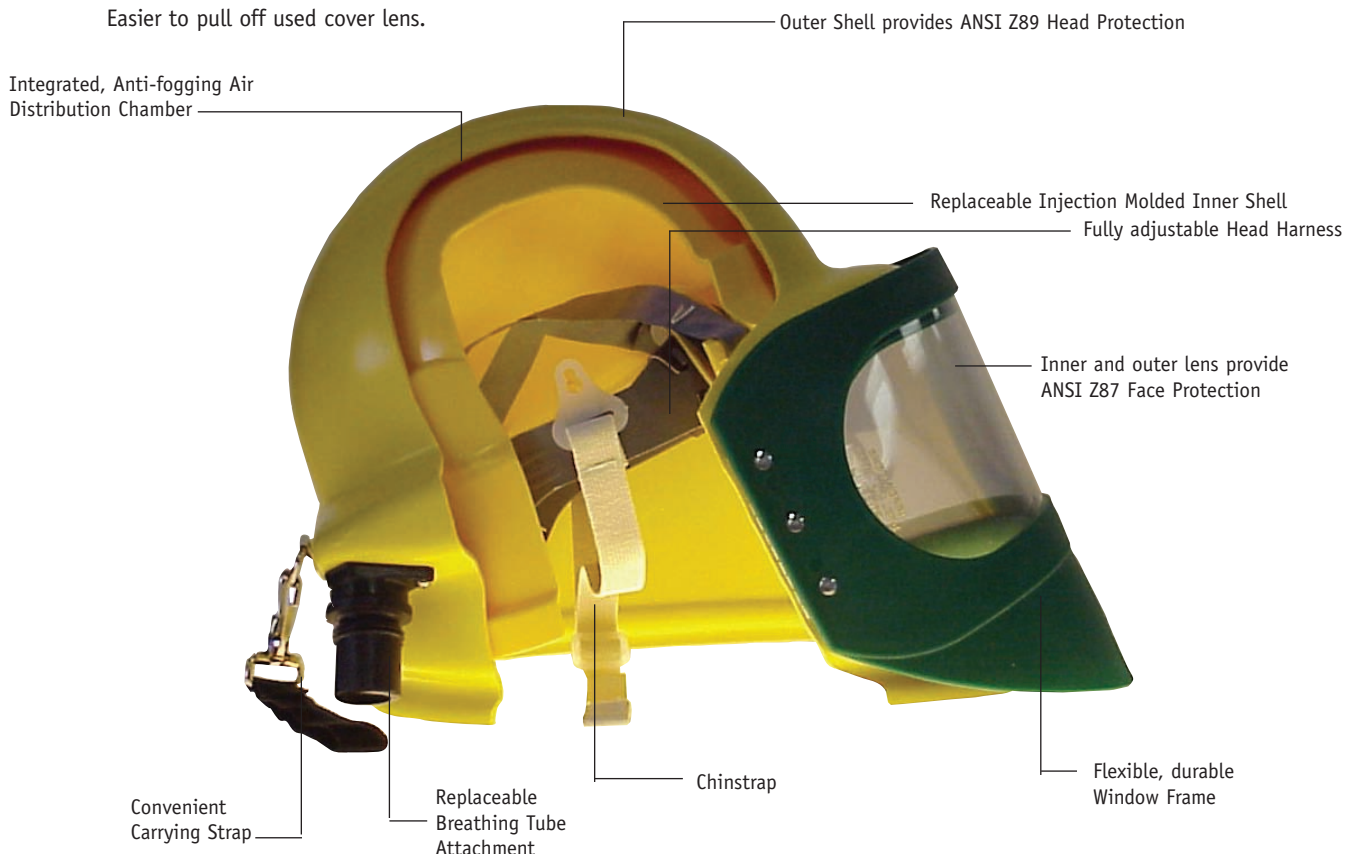
Reduces difficulty of attaching cape to helmet and prevents accidental opening.

### Breathing tube positioning loops on back of cape to retain the breathing tube

Reduced snagging hazard on breathing tube.

### Mylar® cover lens with new pull-tab design

Easier to pull off used cover lens.



# 88VX™ Series Airline Respirator

## 88VX Series Airline Respirator Selection Chart

### 1. Choose Window Style (Helmet included)



•Oval Window (Standard)



•Rectangular Window



•Box Front Optional



•88VXRTP - Adjustable Ratchet Headband Suspension - Inner Shell/Air Plenum included

•88VXTGP - Adjustable Pinlock Headband Suspension - Inner Shell/Air Plenum included

### 3. Choose Breathing Tube



•88VXBT - Nipple not included

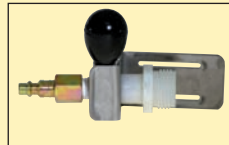
### 4. Choose Flow Control



•F30, F30B, F30S - Constant Flow Control Valve, 1/4" Industrial Interchange  
•F31 - Schrader  
•F32 - Snap-Tite Steel  
•F33 - Snap-Tite Brass  
•F34 - Snap-Tite Stainless  
•F37 - CEJN  
•F38 - Bayonet Steel



•F35, F35B, F35S for Free-Air Pumps - Constant Flow Control Valve, 1/2" Industrial Interchange



**1/4" Adjustable Flow**  
•F40, F40B, F40S - Industrial Interchange  
•F41 - Schrader  
•F42 - Snap-Tite Steel  
•F43 - Snap-Tite Brass  
•F44 - Snap-Tite Stainless  
•F47 - CEJN  
•F48 - Bayonet Steel



**Cool Tubes for Compressed Air**  
•AC100030, AC100030B, AC100030S - 1/4" Industrial Interchange  
•AC100031 - Schrader  
•AC100032 - Snap-Tite Steel  
•AC100033 - Snap-Tite Brass  
•AC100034 - Snap-Tite Stainless  
•AC100037 - CEJN  
•AC100038 - Bayonet Steel



**Cool Tubes for Free-Air® Pumps**  
•FRIGITRON2000 - 1/2" Industrial Interchange  
•FRIGITRON2000B - Brass  
•FRIGITRON2000S - Steel

### 5. Choose Cape



•46VX - 28" Nylon Cape  
•13VX - 38" Nylon Cape  
•21VX - 38" Nylon Cape

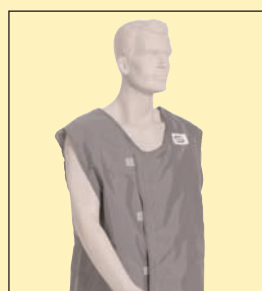


•21821 - 38" "Golden Gate" Nylon Cape



•36VX - 38" Length Parka  
•36XLVX - 38" Length Parka

### 6. Choose Cooling Vest



•DC70ML - Med/Lg Cool Vest  
•DC70XLXXL - XL/XXL Cool Vest  
•DC705XL - 5XL Cool Vest



•DC5040 - DUAL-COOL® Industrial Interchange  
•DC5041 - DUAL-COOL Schrader  
•DC5042 - DUAL-COOL Snap-Tite Steel  
•DC5044 - DUAL-COOL Snap-Tite Stainless  
•DC5047 - DUAL-COOL CEJN

### 7. Choose Belt and/or Accessories



•4612 - Nylon Belt



•20NC - Chinstrap

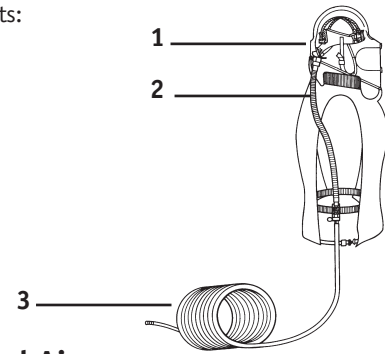
# 88VX™ Series Airline Respirator

A complete 88VX Series Airline Respirator consists of the following three components:

1. Respirator Helmet and Cape
2. Breathing Tube with Fitting or Optional Climate Control Assembly
3. Breathing Air Supply Hose

All three Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-19C-293, Type C and CE, Continuous Flow Class



## 88VX™ Series Respirator Assemblies for use with Compressed Air

### Respirators with 46VX Nylon Cape - 28" Length

- |                  |   |
|------------------|---|
| <b>88VX3230</b>  | <b>F30 Constant Flow 1/4" Industrial Interchange Fitting</b>                            |
| <b>88VXR3230</b> | <b>Rectangular Window Version of 88VX3230</b>   |
| <b>88VX3240</b>  | <b>F40 Adjustable Flow 1/4" Industrial Interchange Fitting</b>                          |
| <b>88VX3230H</b> | <b>F30 Constant Flow 1/4" Industrial Interchange Fitting with 4696 Starter Hose 25'</b> |
| <b>88VX3231</b>  | <b>F31 Constant Flow 1/4" Schrader Fitting</b>  |

All systems above include:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)



### Respirators with 13VX Nylon Cape - 38" Length

- |                 |  |
|-----------------|--|
| <b>88VX1330</b> | <b>F30 Constant Flow 1/4" Industrial Interchange Fitting</b> |
|-----------------|--|

System above includes:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)



### Respirators with 21VX Nylon Cape - 38" Length

- |                  |  |
|------------------|--|
| <b>88VX2130</b>  | <b>F30 Constant Flow 1/4" Industrial Interchange Fitting</b>   |
| <b>88VXR2130</b> | <b>Rectangular Window Version or 88VX2130</b>                  |
| <b>88VX3340</b>  | <b>F40 Adjustable Flow 1/4" Industrial Interchange Fitting</b> |

All systems above include:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)





# 88VX™ Series Airline Respirator

## 88VX Series Respirator Assemblies for Use with Compressed Air

### Respirators with 36VX Hibernia Parka (Tan) - 38" length

88VX3630	F30 Constant Flow 1/4" Industrial Interchange Fitting
88VX36XL30	88VX3630 with Extra-Large Parka

All systems above include:

- Breathing tube assembly
- Inner and outer lens with Mylar® lens cover (package of five)



## 88VX Series Respirator Assemblies for use with Bullard Free-Air® Pumps

### Complete Respirator Work System

88VXSYS	88VX3235 Respirator with 46VX Nylon Cape - 28" length
	ADP20 Free-Air Pump
	V2050ST Air Supply Hose
	FRIGITRON2000 climate control device

All systems above include:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)



### Respirators with 46VX Nylon Cape - 28" length

88VX3235	F35 Constant Flow 1/2" Industrial Interchange Fitting
88VX3235H100	F35 Constant Flow 1/2" Industrial Interchange Fitting with V20100ST Supply Hose, 100'

All systems above include:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)

### Respirators with 13VX Nylon Cape - 38" length

88VX1335	F35 Constant Flow 1/2" Industrial Interchange Fitting
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System above includes:

- Breathing tube assembly
- Inner and outer lens with Mylar lens cover (package of five)



# 88VX™ Series Airline Respirator

## 88VX Breathing Tube Assemblies

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### Constant Flow Breathing Tube Assemblies

EVX30	F30 1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple
EVX31	F31 1/4" Schrader Quick Disconnect Nipple
EVX32	F32 1/4" Snap-Tite Steel Quick Disconnect Nipple
EVX33	F33 1/4" Snap-Tite Brass Quick Disconnect Nipple
EVX37	F37 1/4" CEJN Quick Disconnect Nipple
EVX38	F38 1/4" Bayonet Quick Disconnect Nipple

All above include:

- 88VXBT breathing tube
- 4612 nylon belt



### Adjustable Flow Breathing Tube Assemblies

EVX40	F30 1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple
EVX41	F31 1/4" Schrader Quick Disconnect Nipple
EVX42	F32 1/4" Snap-Tite Steel Quick Disconnect Nipple
EVX43	F33 1/4" Snap-Tite Brass Quick Disconnect Nipple
EVX47	F37 1/4" CEJN Quick Disconnect Nipple
EVX48	F38 1/4" Bayonet Quick Disconnect Nipple

All above include:

- 88VXBT breathing tube
- 4612 nylon belt



### Constant Flow Breathing Tube Assembly

EVX35	F35 1/2" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple
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All above include:

- 88VXBT breathing tube
- 4612 nylon belt



## Cool Tube Assembly for 88VX™ Series Respirators

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### AC1000 Cool Tube Assembly

- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- Adjustable temperature control
- 4612 nylon belt
- Approved for use with 88VX, CC20 and GR50 Series respirators
- For use with compressed air



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Valves for Breathing Tube Assemblies for use with Compressed Air

F30

### Constant Flow Control

- 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- Nylon belt



F31

### Constant Flow Control

- 1/4" Shrader quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- Nylon belt



F32

### Constant Flow Control

- 1/4" Snap-Tite steel quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- Nylon belt



F33

### Constant Flow Control

- 1/4" Snap-Tite brass quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- Nylon belt



F37

### Constant Flow Control

- 1/4" CEJN steel quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, 20BT or 20LFBT
- Nylon belt



F38

### Constant Flow Control Valve

- 1/4" Bayonet steel quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT
- Nylon belt
- No ball bearings to "jam up"



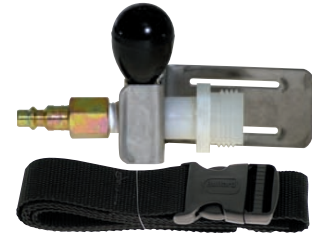
# 88VX™ Series Airline Respirator

## 88VX Series Replacement Valves for Breathing Tube Assemblies for use with Compressed Air

F40

### Adjustable Flow Control

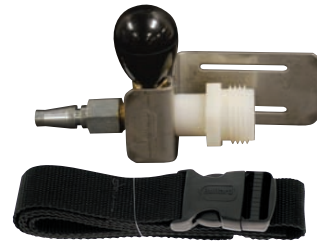
- 1/4" Industrial Interchange (Hansen Compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, 20BT or 20LFBT
- Nylon belt



F41

### Adjustable Flow Control

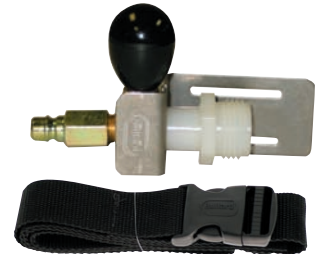
- 1/2" Schrader quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, 20BT or 20LFBT
- Nylon belt



F42

### Adjustable Flow Control

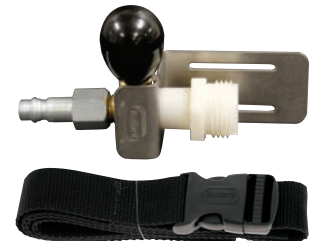
- 1/4" Snap-tite steel quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, 20BT or 20LFBT
- Nylon belt



F47

### Adjustable Flow Control Valve

- 1/4" CEJN stainless steel quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, 20BT or 20LFBT
- Nylon belt



## 88VX™ Series Replacement Valves for Breathing Tube Assemblies for use with Bullard Free-Air Pumps

F35

### Constant Flow Control

- 1/2" Industrial Interchange (Hansen Compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- Nylon belt



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Parts for Breathing Tube Assemblies

4612 Nylon Belt



88VXBT Breathing Tube  
• Nipple not included



88CK Breathing Tube Connector Kit  
• Connector with sleeve  
• Hardware  
• Gasket  
• "O" ring



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Capes

- 
- 46VX**      **28" Length Nylon Cape (Tan)**
- Includes snap hooks
  - Includes breathing tube straps
  - Includes additional nylon liner in neck cuff area



- 
- 13VX**      **38" Length Nylon Cape (Tan)**
- Includes snap hooks
  - Includes breathing tube straps
  - Includes additional nylon liner in neck cuff area



- 
- 21VX**      **38" Length Nylon Cape (Tan)**
- Includes cinch straps/fabric ties
  - Includes breathing tube straps
  - Includes additional nylon liner in neck cuff area



- 
- 21821**      **38" Length "Golden Gate" Nylon Cape (Tan)**
- Cut-off cap sleeves
  - Includes cinch straps/fabric ties
  - Includes breathing tube straps
  - Includes additional nylon liner in neck cuff area



- 
- 36VX**      **38" Length Hibernia Parka (Tan)**  
**36XLVX**      **38" Length Hibernia Parka Extra-Large Size (Tan)**
- Nylon cape with long sleeves
  - Includes belt straps
  - Includes breathing tube straps
  - Includes additional nylon liner in neck cuff area



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Parts and Accessories

- 
- |                |   |
|----------------|---|
| <b>88VXRTP</b> | <b>Adjustable Ratchet Headband Suspension - Inner Shell/Air Plenum Included</b> <ul style="list-style-type: none"><li>• Poly brow pad</li></ul> |
| <b>88VXTGP</b> | <b>Adjustable Pinlock Headband Suspension - Inner Shell/Air Plenum Included</b> <ul style="list-style-type: none"><li>• Poly brow pad</li></ul> |
- 



- 
- |                  |  |
|------------------|--|
| <b>RBPCOTTON</b> | <b>Brow Pad</b> <ul style="list-style-type: none"><li>• Large, absorbent cotton replacement brow pad</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul> |
|------------------|--|
- 



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- |                 |  |
|-----------------|--|
| <b>RBPVINYL</b> | <b>Brow Pad</b> <ul style="list-style-type: none"><li>• Vinyl replacement brow pad</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul> |
|-----------------|--|
- 



- 
- |                |   |
|----------------|---|
| <b>RBPCOOL</b> | <b>Brow Pad</b> <ul style="list-style-type: none"><li>• Polartec® replacement brow pad</li><li>• Wicking material moves sweat away from the worker's brow</li><li>• Fits all Bullard suspensions</li><li>• Easy, snap-on design</li></ul> |
|----------------|---|
- 



- 
- |             |   |
|-------------|---|
| <b>20NC</b> | <b>Elastic Chinstrap</b> <ul style="list-style-type: none"><li>• For use with 88VX Series only</li><li>• 10 per package</li></ul> |
|-------------|---|
- 



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Parts and Accessories

88CS

### Elastic Chinstrap

- For use with 88VXTGP or 88VXRTP only
- 10 per package



88CA

### Replacement Carrying Strap



88VXAK

### Maintenance Kit - Door/Gasket/Latch Assembly

- Includes 88VX Series door with catch, gasket, inner lens, bail and hinge pin in a preassembled kit ready for mounting



88VXRK

### Maintenance Kit - Rectangular Door/Gasket/Latch Assembly

- Includes 88VX Series door with catch, gasket, inner lens, bail and hinge pin in a preassembled kit ready for mounting



88VXBAIL

### Replacement Bail for Latch Assembly

- 10 per package



88VXHP

### Replacement Hinge Pins for Latch Assembly

- 10 per package





# 88VX™ Series Airline Respirator

## 88VX Series Replacement Parts and Accessories

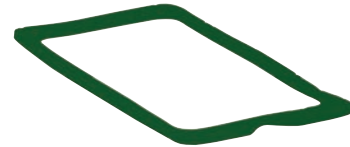
- BFW**      **Box Front Window Frame**
- Accommodates rectangular glass lens (77GLT)
  - Catch, bail and hinge pin in a preassembled kit; ready for mounting



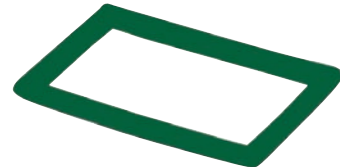
- 77GLT**      **Box Front Glass Lens**
- For use with 77BFW and BFW



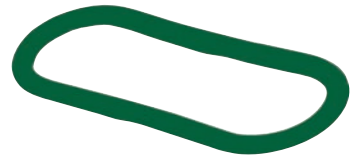
- 77LG**      **Box Front Lens Gasket**
- For use with 77BFW and BFW



- G4613**      **88VXR Window Frame Gasket**
- Rectangular gasket



- G7713**      **88VX Window Frame Gasket**
- Oval gasket



## 88VX Series Mylar® Lens

- 7714**      **Adhesive-backed Mylar® Lens Cover**
- Clear
  - Rectangular
  - 25 per package



- 88VXLC**      **Perforated Edge Mylar Lens Cover**
- Clear
  - 25 per package



# 88VX™ Series Airline Respirator

## 88VX Series Replacement Lenses

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### Inner Lens - Acetate, For Use with 77/88 Series

- P771B** • 25 per package  
**B771B** • Eight packages of 25 lenses
- Oval
  - .040" thick



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### Inner Lens - Acetate, For Use with 88VXR/46 Series

- B461B** • 20 packages of 25 lenses
- Rectangular
  - .040" thick



---

### Outer Lens - Acetate, For Use with 77/88 Series

- P771040** • 25 per package  
**B771040** • Eight packages of 25 lenses
- Oval
  - .040" thick



---

### Outer Lens - Acetate, For use with 46 Series

- B461040** • 20 packages of 25 lenses
- Rectangular
  - .040" thick



---

### Outer Lens - PETG, For Use with 77/88 Series

- P771020** • 50 per package  
**B771020** • Eight packages of 50 lenses
- Oval
  - .020" thick



- B771E040** • Eight packages of 25 lenses
- Oval
  - .040" thick

- P771R** • 50 per package  
**B771R015** • 10 packages of 50 lenses
- Rectangular
  - .015" thick



- B771D015** • 10 packages of 50 lenses
- Rectangular
  - .015" thick
  - Protective film on both sides of lens

---

### Outer Lens - PETG, For Use with 88VX Series

- B771R020** • Seven packages of 50 lenses
- Rectangular
  - .020" thick



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### Outer Lens - PETG, For Use with 46 Series or 88VXR Series

- B461R015** • 10 packages of 50 lenses
- Rectangular
  - .015" thick





# Lancer Series Airline Respirator

The Bullard Lancer Series was designed to meet the OSHA Interim Final Standard for Lead in Construction by combining a Type CE helmet-style respirator with a Pressure Demand Class tight-fitting half mask.

## **1,000 APF**

Lancer offers abrasive blasters a helmet-style respirator that meets the requirements for respiratory protections of 1,000 times the Permissible Exposure Limit (PEL).

## **Better Vision and Integral Head Protection**

Unlike full-facepiece blasting respirators, Lancer provides the wearer with the same large field of vision found on the Bullard 88 Series respirator. Additionally, Lancer provides integral head protection and meets ANSI Standard Z89.1-1969 (except weight).

## **Comfortable**

Lancer maintains many of the same attributes found in a standard loose-fitting helmet. Abrasive rebound protection to head and neck; keeps grit out of eyes, and off skin and hair. Optional cooling is available with the Lancer ACL99 Cool Tube. The Lancer helmet is lightweight for maximum comfort and wearability. Lancer has an adjustable suspension that holds the respirator firmly and comfortably on the wearer's head. Airflow is channeled directly to the user's breathing zone for easy breathing. Lancer's design allows the user to wear safety glasses or protective goggles.

## **Unique Air Delivery System**

With the Lancer unique air delivery system, air travels through Lancer breathing tube, inflates the air delivery system air trough and is delivered directly to the integrated half mask. The air delivery system helps maintain positive pressure inside the helmet. Along with the knitted neck cuff, the inflatable air trough conforms to the user's neck and acts as an additional barrier to contaminants.

## **Compatible with Different Air Sources**

Lancer respirators are compatible with compressors, as well as Bullard low-pressure Free-Air® ambient breathing pumps.

# Lancer Series Airline Respirator

## Lancer Series Airline Respirator Selection Chart

### 1. Choose Window Style (Helmet included)



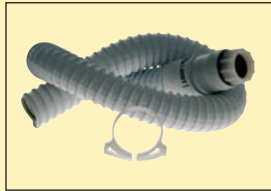
- Oval Window (Standard)
- Rectangular Window (Optional)
- Box Front Window (Optional)

### 2. Choose Suspension



- 88VXRTP - Adjustable Ratchet Head band Suspension - Inner Shell/Air Plenum included
- 88VXTGP - Adjustable Pinlock Headband Suspension - Inner Shell/Air Plenum included

### 3. Choose Breathing Tube



- L99BT - Clamp included, nipple not included

### 4. Choose Flow Control



- F30 - Constant Flow Control Valve, 1/4" Industrial Interchange



- F35 - Constant Flow Control Valve, 1/2" Industrial Interchange



- ACL99 - Cool Tube Assembly, 1/4" Industrial Interchange

### 5. Choose Cape



- 0032 - Nylon Parka



- 0072 - Nylon Poncho

### 6. Choose Belt and/or Accessories



- 4612 - Nylon Belt



- 20NC - Chinstrap

# LANCER Series Airline Respirator

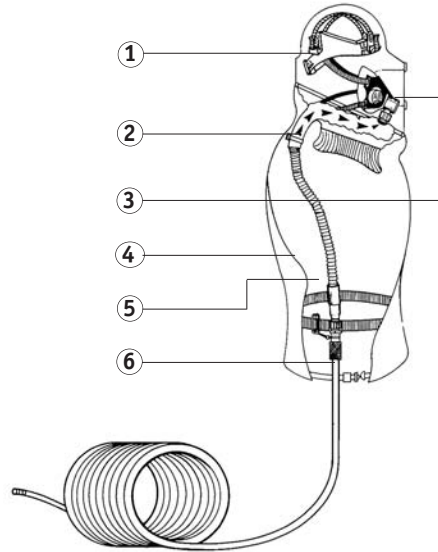
## LANCER Series Airline Respirator

A complete Lancer® Series Airline Respirator assembly consists of the following six components:

1. Respirator Helmet
2. Air Delivery System
3. Half Mask
4. Outer Cape
5. Breathing Tube with fitting or Optional Climate Control Assembly
6. Breathing Air Supply Hose

All six Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

**Approval No. TC-19C-309, Type C, Pressure Demand Class, and Type CE**



## Lancer Airline Respirator Systems

511SM30  
511MD30  
511LG30

**Small Half Mask Respirator Assembly**

**Medium Half Mask Respirator Assembly**

**Large Half Mask Respirator Assembly**

- Helmet with suspension and air delivery system (ADS)
- L30 breathing tube assembly with F30 1/4" industrial interchange (Hansen compatible) nipple and belt
- Inner and outer lens
- Outer cape (poncho style)
- For use with compressed air



# LANCER Series Airline Respirator

## Lancer Series Breathing Tubes & Replacement Parts

L99BT

### Breathing Tube

- Nipple not included
- Clamp included



F30

### Constant Flow Control Valve

- 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- 4612 nylon belt
- For use with compressed air



F35

### Constant Flow Control Valve

- 1/2" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88VXBT, L99BT, 20BT or 20LFBT
- 4612 nylon belt
- For use with Bullard Free-Air® pumps



ACL99

### Cool Tube Assembly

- 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- Approved for use with Lancer® Series respirator
- For use with compressed air



ADS

### Air Delivery System

- Breathing tube not included



4612

### Nylon Belt



# LANCER Series Airline Respirator

## Lancer Series Replacement Capes & Suspensions

- 0032 **Nylon Parka (Tan)**  
• Includes zipper and belt strap



- 0072 **Nylon Poncho (Tan)**  
• Includes snap hooks



- 88VXRTP **Adjustable Ratchet Headband Suspension - Inner Shell/Air Plenum Included**  
• Poly brow pad

- 88VXTGP **Adjustable Pinlock Headband Suspension - Inner Shell/Air Plenum Included**  
• Poly brow pad



- RBPCOTTON **Brow Pad**  
• Large, absorbent cotton replacement brow pad  
• Fits all Bullard suspensions  
• Easy, snap-on design



- RBPVINYL **Brow Pad**  
• Vinyl replacement brow pad  
• Fits all Bullard suspensions  
• Easy, snap-on design



- RBPCOOL **Brow Pad**  
• Polartec® replacement brow pad  
• Wicking material moves sweat away from the worker's brow  
• Fits all Bullard suspensions  
• Easy, snap-on design



# LANCER Series Airline Respirator

## Lancer Series Replacement Masks

- 
- |     |                         |
|-----|-------------------------|
| LMS | <b>Small Half Mask</b>  |
| LMM | <b>Medium Half Mask</b> |
| LML | <b>Large Half Mask</b>  |
- Two valves and cradle headband strap
  - Mask connector not included



- 
- |       |                       |
|-------|-----------------------|
| LMCON | <b>Mask Connector</b> |
|-------|-----------------------|



- 
- |       |                              |
|-------|------------------------------|
| FAMCB | <b>Cradle Headband Strap</b> |
|-------|------------------------------|



- 
- |         |                                |
|---------|--------------------------------|
| FAMEVC2 | <b>Exhalation Valve Covers</b> |
|---------|--------------------------------|
- Two per package



- 
- |          |                               |
|----------|-------------------------------|
| FAMEVF10 | <b>Exhalation Valve Flaps</b> |
|----------|-------------------------------|
- 10 per package





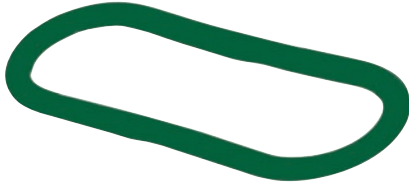
# LANCER Series Airline Respirator

## Lancer Series Replacement Parts

**88VXAK**      **Maintenance Kit - Door/Gasket/Latch Assembly**  
• Includes 88VX Series door with catch, gasket, inner lens, bail and hinge pin in a preassembled kit ready for mounting



**G7713**      **88VX Series Window Frame Gasket**  
• Oval gasket



**88VXBAIL**      **Replacement Bail for Latch Assembly**  
• 10 per package



**88VXHP**      **Replacement Hinge Pins for Latch Assembly**  
• 10 per package



B l a s t i n g   a n d   G r i n d i n g

# LANCER Series Airline Respirator

## Lancer Series Mylar Lens

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### 7714 Adhesive-backed Mylar® Lens Cover

- Clear
- Rectangular
- 25 per package



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### 88VXLC Perforated Edge Mylar® Lens Cover

- Clear
- 25 per package



## Lancer Series Replacement Lenses

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### Inner Lens - Acetate

#### P771B

- Oval
- .040" thick
- 25 per package

#### B771B

- Oval
- .040" thick
- 8 packages of 25 lenses



---

### Outer Lens - Acetate

#### P771040

- Oval
- .040" thick
- 25 per package

#### B771040

- Oval
- .040" thick
- Eight packages of 25 lenses



# LANCER Series Airline Respirator

## Lancer Series Replacement Lenses

### Outer Lens - PETG, For use with 77/88 Series

**P771020**

- Oval
- .020" thick
- 50 per package

**B771020**

- Oval
- .020" thick
- Eight packages of 50 lenses

**B771E040**

- Oval
- .040" thick
- Eight packages of 25 lenses



**P771R**

- Rectangular
- .015" thick
- 50 per package

**B771R015**

- Rectangular
- .015" thick
- 10 packages of 50 lenses

**B771D015**

- Rectangular
- .015" thick
- Protective film on both sides of lens
- 10 packages of 50 lenses

**B771R020**

- Rectangular
- .020" thick
- Seven packages of 50 lenses



Blasting and Grinding

# GR50 Series Airline Respirator

## Enhanced Comfort and Protection for Grinding Operations

Offering both respiratory and dermal protection, the Bullard GR50 is the first hood-style airline respirator designed especially to meet the challenges that are encountered in grinding operations. The lightweight outer hood, made from Nomex®, protects the operator's entire head, face and neck from sparks and airborne particulates. The inner bib, made from flame-retardant cotton, is an added protective barrier. Applications in which the GR50 airline respirator can be used include grinding and metalworking.

For workers who use compressed breathing air, the Bullard GR50 is complete with Nomex respirator hood, breathing tube and a choice of belt-mounted airline quick-disconnect fittings. The GR50 can also be used with convenient and low-cost Bullard Free-Air® pumps. Bullard V10 and V20 air supply hoses, sold separately, are available with point-of-attachment fittings for breathing air compressor systems or ambient air pumps.

### Breathing Protection

Continuous airflow is delivered through a unique neck cuff, maintaining positive pressure inside the hood to help keep contaminants out.

### Comfortable and Durable

Weighing only 12 oz. (340 g), the GR50 from Bullard is a lightweight alternative for workers accustomed to wearing heavier helmet-type respirators during grinding.

### Head Protection and Climate Control Options

When worn with a Bullard hard hat, the hood meets ANSI Z89.1-2003 requirements for protective headwear. A variety of climate control devices allow workers to cool incoming air to meet their comfort requirements, helping to boost productivity.

### Flexible Hood and Window

In operations performed in tight spaces, the flexible hood and window enhance worker mobility. The inner window, made of .040" (1 mm) acetate so it stands up to a variety of chemicals.

### No Fit-Testing

One size fits all, so fit testing is not required. The hood easily accommodates beards, hearing protection, prescription eyewear or safety glasses.

### Maximum Visibility

Wide-angle faceshield and headband suspension system are positioned to create the maximum viewing area. Replacement outer lens helps protect inner lens from sparks and debris, extending the usable life of the product.



# GR50 Series Airline Respirator

## 88VX Series Airline Respirator Selection Chart

### 1. Choose Head Top



•GRH - Nomex® Grinding Hood



•20RT - Adjustable Ratchet Headband Suspension



•20TG - Adjustable Pinlock Headband Suspension



•C30P - 6-point Self-Sizing Suspension, Full Profile  
•C30R - 6-point Flex-Gear® Ratchet Suspension



•S51P - 4-point Self-Sizing Suspension, Low Profile  
•S51R - 4-point Flex-Gear® Ratchet Suspension

### 3. Choose Breathing Tube

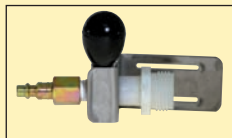


•20BT - Breathing Tube for Hoods

### 4. Choose Flow Control Device



**1/4" Continuous Flow**  
•F30, F30B, F30S - Industrial Interchange  
•F31 - Schrader  
•F32 - Snap-Tite Steel  
•F33 - Snap-Tite Brass  
•F34 - Snap-Tite Stainless  
•F35, F35B, F35S - 1/2" Industrial Interchange for Free-Air Pumps  
•F37 - CEJN



**1/4" Adjustable Flow**  
•F40, F40B, F40S - Industrial Interchange  
•F41 - Schrader  
•F42 - Snap-Tite Steel  
•F43 - Snap-Tite Brass  
•F44 - Snap-Tite Stainless  
•F47 - CEJN



**Cool Tubes for Compressed Air**  
•AC100030, AC100030B, AC100030S - 1/4" Industrial Interchange  
•AC100031 - Schrader  
•AC100032 - Snap-Tite Steel  
•AC100033 - Snap-Tite Brass  
•AC100034 - Snap-Tite Stainless  
•AC100037 - CEJN



**Cool Tubes for Free-Air® Pumps**  
•FRIGITRON2000 - 1/2" Industrial Interchange  
•FRIGITRON2000B - Brass  
•FRIGITRON2000S - Steel

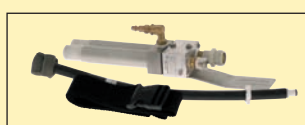


**Hot/Cold Tubes**  
•HC240030, HC240030B, HC240030S - 1/4" Industrial Interchange  
•HC240031 - Schrader  
•HC240032 - Snap-Tite Steel  
•HC240033 - Snap-Tite Brass  
•HC240034 - Snap-Tite Stainless  
•HC240037 - CEJN

### 5. Choose Cooling Vest



•DC70ML - Med/Lg Cool Vest  
•DC70XLXXL - XL/XXL Cool Vest  
•DC705XL - 5XL Cool Vest



•DC5040 - DUAL-COOL® Industrial Interchange  
•DC5041 - DUAL-COOL Schrader  
•DC5042 - DUAL-COOL Snap-Tite Steel  
•DC5047 - DUAL-COOL CEJN



•4612 - Nylon Belt



•20NC - Chinstrap

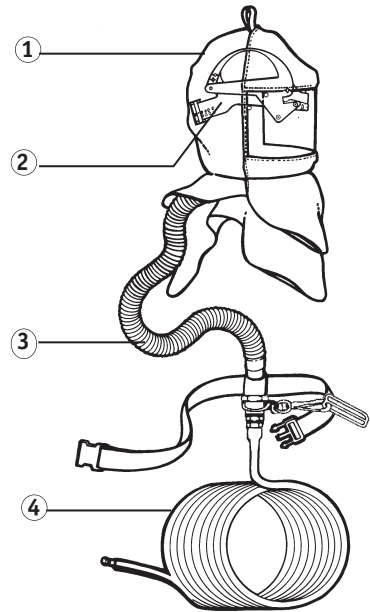
### 6. Choose Belt and/or Accessories

# GR50 Airline Respirator

## GR50 Airline Respirator Systems

Bullard's GR50 Airline Respirator consists of four components; all must be present and properly assembled to constitute a complete NIOSH-approved respirator. **Approval Number TC-19C-329, Type C.**

1. Respirator Hood
2. Headband or Head Protection
3. Breathing Tube Assembly
4. Air Supply Hose



### GR5030

#### Constant Flow Respirator with V30 Breathing Tube Assembly

- GRH hood
- 20TG suspension
- F30 3/4" industrial interchange (Hansen compatible) quick-disconnect nipple and nylon belt
- MB1 outer lens
- For use with compressed air



### GR50SYS

#### GR50 Series Airline Respirator System

- GR5035 respirator assembly
- EDP10 Free-Air® pump
- V20100ST air supply hose



### GR5035

#### Constant Flow Respirator with V35 Breathing Tube Assembly

- GRH hood
- 20TG suspension
- F35 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple and nylon belt
- MB1 outer lens
- For use with Bullard Free-Air® pumps



# GR50 Airline Respirator

## GR50 Airline Respirator Replacement Respirator Hood

- GRH**      **Nomex Grinding Hood**
- Includes MB1 outer lens
  - 12" long outer bib



## GR50 Airline Respirator Replacement Parts

- 20RT**      **Adjustable Ratchet Headband Suspension**
- Sportek™ brow pad
  - Fits sizes 6½ to 8 (52-64 mm)



- 20RT**      **Adjustable Ratchet Headband Suspension**
- Sportek™ brow pad
  - Fits sizes 6½ to 8 (52-64 mm)



- 20NC**      **Elastic Chinstrap**
- For 20TG and 20RT suspensions
  - 10 per package



- RBPCOTTON**      **Brow Pad**
- Large, absorbent cotton replacement brow pad
  - Fits all Bullard suspensions
  - Easy snap-on design



- RBPVINYL**      **Brow Pad**
- Vinyl replacement brow pad
  - Fits all Bullard suspensions
  - Easy snap-on design



- RBPCOOL**      **Brow pad**
- Polartec® replacement brow pad
  - Wicking material moves sweat away from the worker's brow
  - Fits all Bullard suspensions
  - Easy snap-on design



# GR50 Airline Respirator

## GR50 Series Head Protection

C30P

**Hard Hat**

- High-density polyethylene shell
- Full profile, wide brim
- Accessory slots for attachments
- 6-point self-sizing suspension with large, absorbent cotton brow pad (RS6PC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



C30R

**Hard Hat**

- Same as Model C30P above with
- 6-point Flex-Gear® ratchet suspension with large, absorbent cotton brow pad (RS6RC)
  - Color: white



S51P

**Hard Hat**

- High-density, polyethylene shell
- Flat front, low-profile design
- Accessory slots for cap attachments
- Rain trough brim
- 4-point self-sizing suspension with poly brow pad (RS4PP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Meets or exceeds ANSI Z89.1-2003, Type I, Class E & G requirements
- Color: white



S51R

**Hard Hat**

- Same as Model S51P above with
- 4-point Flex-Gear ratchet suspension with poly brow pad (RS4RP)
  - Color: white





# GR50 Airline Respirator

## GR50 Airline Respirator Head Protection Replacement Parts

RS6PC

### 6-pt. Suspension

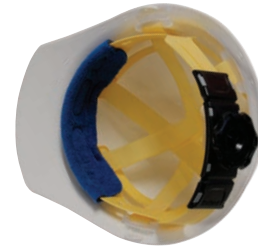
- 6-point self-sizing suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, three rear)
- For Models C30 and C33
- Hard hat not included



RS6RC

### 6-pt. Suspension

- 6-point Flex-Gear™ ratchet suspension
- Large, absorbent cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- Vertical height adjustments (two front, three rear)
- For Models C30R and C33R
- Hard hat not included



RS4PC

### 4-pt. Suspension

- 4-point self-sizing suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Vertical height adjustments (two front, two rear)
- For Model S51P
- Hard hat not included



RS4RC

### 4-pt. Suspension

- 4-point Flex-Gear® ratchet suspension
- Large cotton brow pad
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Flex-points and nape cushion
- Large, easy-to-turn ratchet knob
- For Model S51R
- Hard hat not included



ES42

### Chinstrap

- Elastic chinstrap
- For Models C30R and S51R



# GR50 Airline Respirator

## GR50 Airline Respirator Breathing Tubes & Parts

V30

### Constant Flow Breathing Tube Assembly

- 20BT breathing tube
- F30 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- S18051 clamp
- For use with compressed air



V40

### Adjustable Flow Breathing Tube Assembly

- 20BT breathing tube
- F40 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple with adjustable flow control valve
- 4612 nylon belt
- S18051 clamp
- For use with compressed air



V35

### Constant Flow Breathing Tube Assembly

- 20BT breathing tube
- F35 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- S18051 clamp
- For use with Bullard Free-Air® pumps



F30

### Constant Flow Control Valve

- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88BT, L99BT, 20BT or 20FLBT
- 4612 nylon belt
- For use with compressed air



F40

### Adjustable Flow Control Valve

- 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88BT, L99BT, 20BT or 20FLBT
- 4612 nylon belt
- For use with compressed air



F35

### Constant Flow Control Valve

- 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
- Threaded hose connector
- Connects to 88BT, L99BT, 20BT or 20FLBT
- 4612 nylon belt
- For use with Bullard Free-Air® pumps



# GR50 Airline Respirator

## GR50 Airline Respirator Replacement Parts & Accessories

20BT

**Breathing Tube**

- Nipple not included
- S18051 clamp



S18051

**Breathing Tube Clamp**

- 10 per package



S18051BLACK

**Breathing Tube Clamp, Black**

- 10 per package



4612

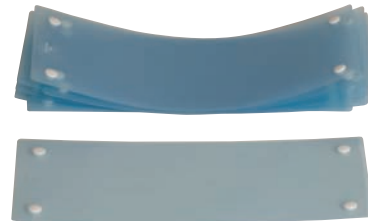
**Nylon Belt**



MB1

**PETG Outer Lens**

- .020" thick
- 10 per package



20LC

**Adhesive-Backed Mylar® Lens Cover**

- Clear
- 25 per package



7714

**Adhesive-Backed Mylar® Lens Cover**

- Clear
- Rectangular
- 25 per package



# Spectrum® Series

## Spectrum Series Continuous Flow Airline Respirator

A complete Spectrum Series Continuous Flow Airline Respirator consists of the following three components:

1. Full Facepiece
2. Breathing Tube Assembly
3. Breathing Air Supply Hose

All three Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

**Approval No. TC-19C-322, Type C, Continuous Flow Class**

**Approval No. TC-19C-321, Type C, Pressure Demand Class**



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### SPECLSYS Spectrum Series Airline Respirator System

- SPEC35L respirator assembly
- EDP10 Free-Air® pump
- V20100ST hose
- LC lens covers



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### SPEC40L Spectrum-CF Respirator Assembly SPEC40S SPEC CFML Medium/Large Facepiece SPEC CFSS Small Facepiece

- BT100 breathing tube assembly with 1/4" industrial interchange (Hansen compatible) nipple, adjustable flow control valve and nylon belt
- For use with compressed air



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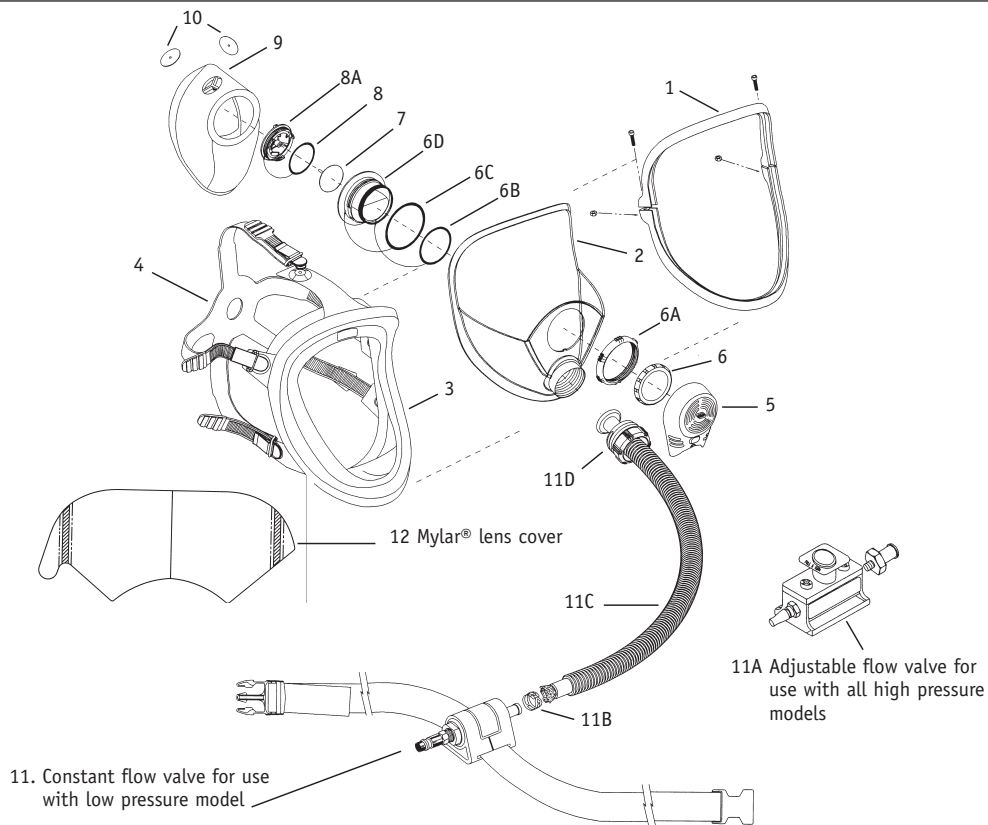
### SPEC35L Spectrum-CF Respirator Assembly SPEC35S SPEC CFML Medium/Large Facepiece SPEC CFSS Small Facepiece

- BT135 breathing tube assembly with 1/2" industrial interchange (Hansen compatible) nipple and nylon belt
- For use with Bullard Free-Air pumps



# Spectrum Series

## Spectrum Series Continuous Flow Replacement Parts



Cat. No.	Description	Cat. No.	Description
1. LCK	Lens Clamp Replacement	8. EVO	O-ring for Exhalation Valve Seat
2. RLS	Replacement Lens	8A	Exhalation Valve Seat
3. FKML & FKS	Facepiece Flange	9. LNK	Nose Cup
4. HSK	Headstrap with Buckles and Slides	10. SPECIVK	Inhalation Valve Flaps
5. MCK	Mask Cover	11. BTXXX	Breathing Tube Assembly
6. SEK	Speaker Diaphragm	11A	Flow Control Valve
6A	Outer Locking Ring	11B	Hose Clamp
6B	O-ring Speaker Diaphragm	11C	Breathing Tube
6C	O-ring Speaker/Exhalation	11D	Breathing Tube Adapter
6D	Speaker/Exhalation Body	12. LC	Mylar® Lens Covers
7. 6059	Exhalation Valve		

# Spectrum Series

## Spectrum Series Continuous Flow Facepiece Components

- SPECCFML**      **Medium/Large Facepiece Assembly**  
**SPECCFS**      **Small Facepiece Assembly**
- Complete with facepiece, lens, head straps, exhalation valve and facepiece components
  - For use only with SPEC-CF respirators



- LNK**      **Replacement Nose Cup**
- Includes two inhalation valve flaps



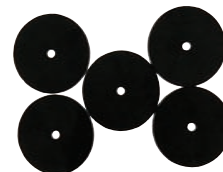
- RLS**      **Replacement Lens**



- LCK**      **Lens Clamp Replacement Kit**
- Upper and lower clamps
  - Screws and nuts



- SPECIVK**      **Inhalation Valve Kit**
- Includes five inhalation valve flaps



- FKML**      **Medium/Large Facepiece Flange**  
**FKS**      **Small Facepiece Flange**



- 6059**      **Exhalation Valve (Not Pictured)**
- Continuous flow versions only
  - Includes five exhalation valve flaps

# Spectrum Series

## Spectrum Series Continuous Flow Facepiece Components

HSK	<b>Headstrap Kit</b> <ul style="list-style-type: none"><li>• Includes five buckles and five slides</li></ul>	
MCK	<b>Mask Cover</b> <ul style="list-style-type: none"><li>• Includes five inhalation valve flaps</li></ul>	
SEK	<b>Speaker/Exhalation Kit</b> <ul style="list-style-type: none"><li>• Speaker/exhalation body</li><li>• Speaker diaphragm</li><li>• Outer locking ring</li><li>• O-ring for speaker diaphragm</li><li>• O-ring for speaker/exhalation body</li></ul>	
EVO	<b>Exhalation Valve Seat and O-Ring</b>	
PL	<b>Spectacle Frame Assembly</b>	
LC	<b>Mylar® Lens Covers</b> <ul style="list-style-type: none"><li>• 25 per package</li></ul>	
AFW45	<b>Anti-Fog Lens Wipes</b> <ul style="list-style-type: none"><li>• 10 per package</li></ul>	

# Spectrum Series

## Spectrum Series Continuous Flow Breathing Tubes

BT100

**Adjustable Flow Breathing Tube Assembly - Industrial Interchange**

- 1/4" industrial interchange with adjustable flow control valve (Hansen compatible) nipple
- 4612 nylon belt
- For use with compressed air



BT101

**Adjustable Flow Breathing Tube Assembly - Schrader**

- 1/4" Schrader nipple with adjustable flow control valve
- 4612 nylon belt
- For use with compressed air



BT102

**Adjustable Flow Breathing Tube Assembly - Snap-Tite**

- 1/4" Snap-Tite steel nipple with adjustable flow control valve
- 4612 nylon belt
- For use with compressed air



BT103

**Adjustable Flow Breathing Tube Assembly - Snap-Tite**

- Same as BT102 except with brass nipple

BT108

**Adjustable Flow Breathing Tube Assembly**

- 1/4" Bayonet steel nipple with adjustable flow control valve
- 4612 nylon belt
- For use with compressed air

BT135

**Constant Flow Breathing Tube Assembly - Industrial Interchange**

- 1/2" industrial interchange (Hansen compatible) nipple
- 4612 nylon belt
- For use with Bullard Free-Air® pumps





# Spectrum Series

## Spectrum Series Pressure Demand Airline Respirator

A complete Spectrum Series® Pressure Demand Airline Respirator consists of the following four components:

1. Full Facepiece
- 2a. Second Stage Regulator Assembly (PD Only)
- 2b. First and Second Stage Regulator Assembly (PDE Only)
- 3a. Harness Assembly
- 3b. Harness Assembly Including 5- or 10-minute Cylinder (PDE Only)
4. Air Supply Hose

All four Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

**SPEC-PD Approval No. TC-19C-354, Type C, Pressure Demand Class**

**SPEC-PDE-5 Approval No. TC-13F-387, Combination SCBA and Type C Pressure Demand Class**

**SPEC-PDE-10 Approval No. TC-13F-388, Combination SCBA and Type C Pressure Demand Class**



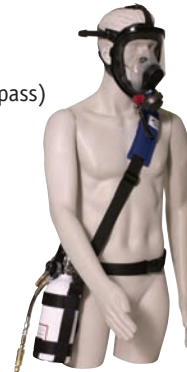
**SPECPDLA Spectrum-PD Respirator Assembly**  
**SPECPDML Medium/Large Facepiece**  
**SPECPDSA SPECPDML Small Facepiece**

- PDR45 pressure demand regulator
- BHA belt harness assembly
- CA30 coupler assembly



**SPECPDE5L Spectrum-PDE5 Respirator Assembly**  
**SPECPDML Medium/Large Facepiece**  
**SPECPDE5S SPECPDS Small Facepiece**

- RA45B regulator assembly (including 1st and 2nd stage regulators with bypass)
- Harness assembly (including 5-minute ESCBA cylinder)
- CA30 coupler assembly



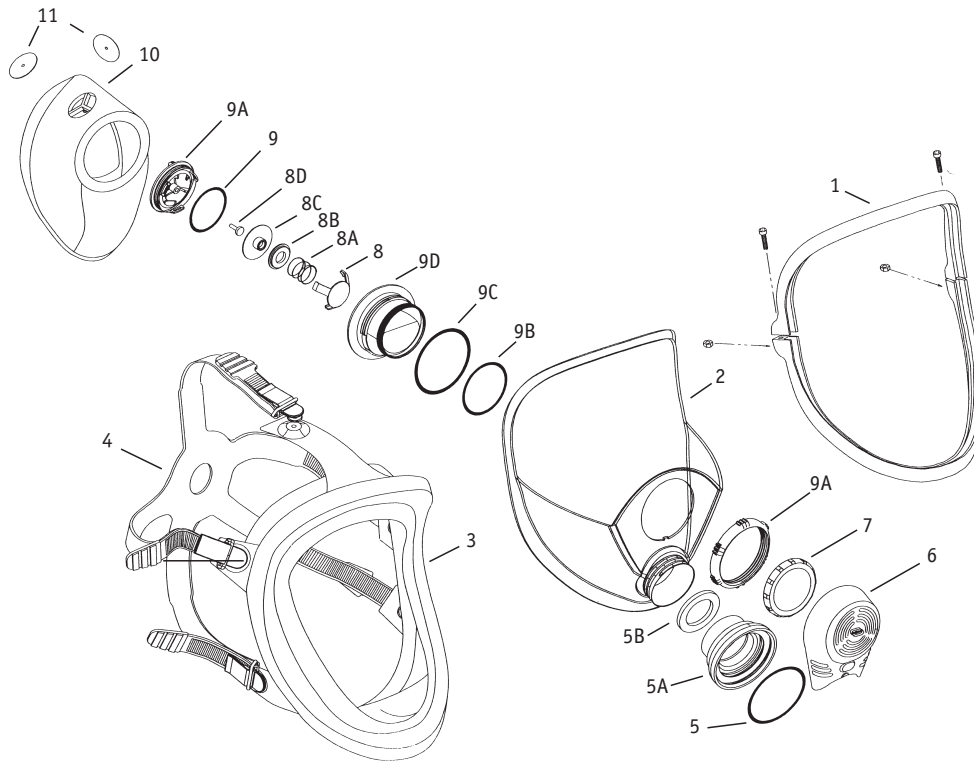
**SPECPDE10L Spectrum-PDE10 Respirator Assembly**  
**SPECPDML Medium/Large Facepiece**  
**SPECPDE10S SPECPDS Small Facepiece**

- RA45B regulator assembly (including 1st and 2nd stage regulators with bypass)
- Harness assembly (including 10-minute ESCBA cylinder)
- CA30 coupler assembly



# Spectrum Series

## Spectrum Series Pressure Demand Facepiece Replacement Parts



Cat. No.	Description	Cat. No.	Description
1. LCK	Lens Clamp	8. EVPDK	Spring Retainer
2. RLS	Replacement Lens	8A	Spring, PD*
3. FKML & FKS	Facepiece Flange	8B	Plate
4. HSK	Headstrap with Buckles & Slides	8C	Exhalation Valve Flap
5. RAK	O-ring, Regulator Adapter	8D	Stem
5A	Regulator Adapter	9. EVPDK	O-ring for Exhalation Valve Seat
5B	Gasket, Lens Port	9A	Exhalation Valve Seat
6. MCK	Mask Cover	10. LNK	Nose Cup
7. SEK	Speaker Diaphragm	11. SPECIVK	Inhalation Valve Flap
7A	Outer Locking Ring		
7B	O-ring, Speaker Diaphragm		
7C	O-ring, Speaker/Exhalation		
7D	Speaker/Exhalation Body		

# Spectrum Series

## Spectrum Series Pressure Demand Facepiece Components

SPECPDML  
SPECPDS

### Medium/Large Facepiece Assembly

### Small Facepiece Assembly

- Complete with facepiece, lens, head straps, exhalation valve and facepiece components
- For use with SPEC-PD respirators



RAK

### Facepiece Components

- O-ring for regulator adapter
- Regulator adapter
- Lens port gasket



RLS

### Replacement Lens



EVSDK

### Exhalation Valve Kit

- Spring retainer
- Spring
- Plate
- Exhalation valve flap and stem



LCK

### Lens Clamp Replacement Kit

- Upper and lower clamps
- Screws and nuts



FKML  
FKS

### Medium/Large Facepiece Flange

### Small Facepiece Flange



HSK

### Headstrap Kit

- Includes five buckles and five slides



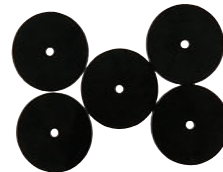
# Spectrum Series

## Spectrum Series Pressure Demand Facepiece Components

**LNK**      **Replacement Nose Cup**  
• Includes two inhalation valve flaps



**SPECIVK**      **Inhalation Valve Kit**  
• Includes five inhalation valve flaps



**MCK**      **Mask Cover**  
• Includes five inhalation valve flaps



**SEK**      **Speaker/Exhalation Kit**  
• Speaker/exhalation body  
• Speaker diaphragm  
• Outer locking ring  
• O-ring for speaker diaphragm  
• O-ring for speaker/exhalation body



**EVO**      **Exhalation Valve Seat and O-Ring**



**PL**      **Spectacle Frame Assembly**



**LC**      **Mylar® Lens Covers**  
• 25 per package



**AFW45**      **Anti-Fog Lens Wipes**  
• 10 per package



# Spectrum Series

## Spectrum Series Pressure Demand Regulators and Cylinders

FSR45

**First Stage Regulator**

- Includes CA30 coupler assembly
- For use only with SPEC-PDE respirators



PDR45

**Second Stage Regulator without Bypass**

- Includes CA30 coupler assembly
- For use only with SPEC-PD respirators



PDR45B

**Second Stage Regulator with Bypass**

- Includes CA30 coupler assembly
- For use only with SPEC-PDE



RA45B

**First Stage Regulator and Second Stage Regulator with Bypass**

- Includes CA30 coupler assembly
- For use only with SPEC-PDE



CYL455

**5-Minute Escape Cylinder with Valve**

- Additional shipping charges may apply



CYL4510

**10-Minute Escape Cylinder with Valve**

- Additional shipping charges may apply



CYL5H

**5-Minute Escape Cylinder with Valve and Holster**

- For use with SPEC-PDE5L
- Additional shipping charges may apply



# Spectrum Series

## Spectrum Series Pressure Demand Coupler Assemblies

- 
- CA30**     **1/4" Industrial Interchange Quick-Disconnect Coupler Assembly**
- Male threaded (Hansen compatible) nipple
  - Female threaded coupler with ball lock and adapter which connects the respirator to the airline extension hose



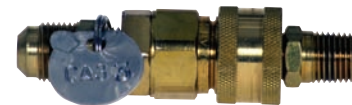
- 
- CA31**     **1/4" Schrader Quick-Disconnect Coupler Assembly**
- Male threaded nipple
  - Female threaded coupler with adapter, which connects the respirator to the airline extension hose



- 
- CA32**     **1/4" Snap-Tite Steel Quick-Disconnect Coupler Assembly**
- Male threaded nipple
  - Female threaded coupler with adapter, which connects the respirator to the airline extension hose



- 
- CA33**     **1/4" Snap-Tite Brass Quick-Disconnect Coupler Assembly**  
**CA34**     **1/4" Snap-Tite Stainless Steel Quick-Disconnect Coupler Assembly**
- Male threaded nipple
  - Female threaded coupler with adapter, which connects the respirator to the airline extension hose



- 
- CA37**     **1/4" CEJN Steel Quick-Disconnect Coupler Assembly**
- Male threaded nipple
  - Female threaded coupler with special orifice adapter, which connects the respirator to the airline extension hose
  - Use only with orifice adapter



# Spectrum Series

## Spectrum Series Pressure Demand Accessories

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PCC45

**Protective Cleaning Cap**

- Five per package



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BHA

**Replacement Shoulder Harness**

- 4611 Fire retardant nylon belt
- Buckle connector
- Shoulder strap



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4611

**Fire Retardant Nylon Belt**



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EH45

**5" Extension Hose for Regulator**



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ILS45

**In-Line Screen for 2nd Stage Regulator Hose**

- 25 per package
- Spacer and screen



# Spectrum Series

## Spectrum Series Fit Testing Accessories: Pressure Demand and Continuous Flow

QNFT45

### Quantitative Fit Test Kit

- Fit test adapter
- Facepiece sampling adapter
- 1/8" barbed mask probe
- One HEPA filter cartridge



FTR45

### Fit Test Refill Kit

- 15 feet of Tygon tubing
- 25 suction cups and 25 clips



HFC45

### Replacement HEPA Filter Cartridges

- For quantitative or qualitative fit testing (except for isoamyl acetate)
- Four per carton





# FAMB Half Mask Airline Respirator

A comfortable positive pressure airline respirator, Bullard FAMB presents a simple means of supplying clean air to workers. Available with both pressure demand and continuous flow approvals, FAMB provides a continuous airflow to workers operating in environments that are contaminated with dusts, mists, gases and vapors.

FAMB airline respirators are approved by MSHA/NIOSH for use in Type C applications, including:

- Spray painting and coating operations
- Chemical and pesticide handling
- Wood finishing

## **FAMB Comfort**

The Bullard FAMB half mask, available in three sizes, features a soft, flexible silicone facepiece that conforms to the worker's face. The double exhalation valve system offers minimal breathing resistance and reduces worker fatigue, increasing productivity.

## **Low Air Pressure Requirement**

Specifically designed for use with low pressure air sources such as Bullard Free-Air® pumps, the respirator operates efficiently at air pressures between 1.5-20 psig (103-138 kPa), depending on hose length. FAMB respirators are also approved for use with high pressure air sources, such as breathing air compressors.

## **More Protection**

The FAMB respirator provides a higher degree of protection than negative pressure air purifying respirators. Because FAMB is an airline respirator, there is no need to maintain or buy expensive filter cartridges.

## **Wide Field of Vision**

The low-profile facepiece allows a wide field of vision and easily accommodates workers wearing prescription or safety glasses. FAMB can be worn under faceshields, visors and some welding helmets.



# FAMB Series Half Mask Airline Respirator

## FAMB Half Mask Airline Respirator System

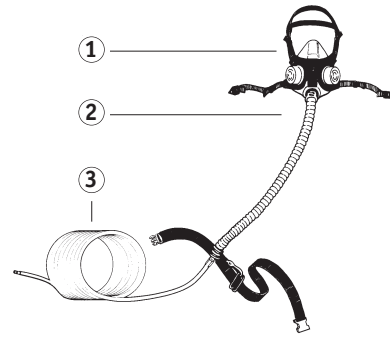
A complete FAMB Series Airline Respirator consists of the following three components:

1. Half Mask
2. Breathing Tube Assembly with Flow Control Device
3. Breathing Air Supply Hose

All three Bullard components must be present and properly assembled to constitute a NIOSH approved respirator.

Approval No. TC-19C-315, Type C, Pressure Demand Class

Approval No. TC-19C-155, Type C, Continuous Flow Class



### FAMBSYS FAMB Series Airline Respirator System

- FAMB35M respirator
- EDP10 Free-Air® Pump
- V20100ST air supply hose



### FAMB30S Half Mask Respirator FAMB30M Small Silicone Facepiece FAMB30L Medium Silicone Facepiece FAMB30L Large Silicone Facepiece

- Cradle suspension and breathing tube
- 1/4" industrial interchange (Hansen compatible) nipple and belt
- For use with compressed air



### FAMB35S Half Mask Respirator FAMB35M Small Silicone Facepiece FAMB35L Medium Silicone Facepiece FAMB35L Large Silicone Facepiece

- Cradle suspension and breathing tube
- 1/2" industrial interchange (Hansen compatible) nipple and belt
- For use with Bullard Free-Air® Pumps



# FAMB Half Mask Airline Respirator

## FAMB Series Half Mask Respirator Components

- FAMS Small Half Mask
- FAMM Medium Half Mask
- FAML Large Half Mask
- Silicone
- Includes head straps



- FAMCB Cradle Headband Strap



- FAMEVC2 Exhalation Valve Covers
- Two per package



- FAMEVF10 Exhalation Valve
- 10 per package





# FAMB Half Mask Airline Respirator

## FAMB Series Half Mask Fit Testing Accessories

LSMPM  
LMMPM  
LLMPM

- Small Probed Mask Kit**  
**Medium Probed Mask Kit**  
**Large Probed Mask Kit**
- 1/4" probe mounted in mask
  - Includes head straps
  - PMFC Filters sold separately



PMFC

- P100 Filter Cartridges**
- Two per package



## FAMB Series Half Mask Breathing Tube Assemblies

FAMBT2C

- Breathing Tube Assembly**
- For use with FAMB35
  - Two nylon clamps (S18052)
  - 1/2" industrial interchange (Hansen compatible) quick-disconnect nipple
  - 4612 nylon belt
  - For use with Bullard Free-Air® Pumps



FAMBT3C

- Breathing Tube Assembly**
- For use with FAMB30
  - Two nylon clamps (S18052)
  - 1/4" industrial interchange (Hansen compatible) quick-disconnect nipple
  - 4612 nylon belt
  - For use with compressed air



S18052

- Replacement Breathing Tube Clamps**
- 10 per package



4612

**Nylon Belt**



36501

**Vinyl Decon Belt**



# Breathing Air Supply Hose

Bullard offers a variety of hoses and fittings to deliver breathable air to the worker from a clean air source.

## V5 Series

Bullard V5 Series hose offers the user a coiled option that assists in workplace cleanliness by keeping the hose off of the floor. Constructed of nylon with  $\frac{3}{8}$ " I.D. V5 Series hose is available in 25- or 50-foot lengths of red or green.

## V10 Series

Bullard V10 Series hose is intended for use with compressed air and has an inside diameter of  $\frac{3}{8}$ ". Constructed of strong yet flexible rubber reinforced to prevent crushing or kinking, V10 Series hose is available in 25-, 50- and 100-foot sections configurable up to 300 feet in total length.

## V20 Series

Bullard V20 Series hose is intended for use with Bullard Free-Air® Pumps and has an inside diameter of  $\frac{1}{2}$ ". Constructed of strong yet flexible rubber reinforced to prevent crushing or kinking, V20 Series hose is available in 50- and 100 foot sections configurable up to 300 feet in total length.

## Fittings

Bullard offers five different types of fittings to ensure breathing air supply fittings are incompatible with fittings for non-breathing air gases such as nitrogen, natural gas and argon. These fittings include:

- Industrial Interchange (Hansen)
- Schrader
- Snap-Tite
- CEJN
- Bayonet



# Breathing Air Supply Hose

## V5 Coiled Hose for Compressed Air

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### 25 Foot Lengths

- V52530**     **V5 Industrial Interchange Hose (Red)**  
**V52530GREEN**     **V5 Industrial Interchange Hose (Green)**
- 3/4" industrial interchange (Hansen compatible) quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators



- 
- V52531**     **V5 Schrader Hose (Red)**
- 3/4" Schrader quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90 and 88VX Series respirators

- 
- V52532**     **V5 Snap-Tite Hose (Red)**
- 3/4" Snap-Tite H-Series steel quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators

- 
- V52533**     **V5 Snap-Tite (Brass) Hose (Green)**
- 3/4" Snap-Tite H-Series brass quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators

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### 50 Foot Lengths

- V55030**     **V5 Industrial Interchange Hose (Red)**  
**V55030GRN**     **V5 Industrial Interchange Hose (Green)**
- 3/4" industrial interchange (Hansen compatible) quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps.
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators



- 
- V55031**     **V5 Schrader Hose (Red)**
- 3/4" Schrader quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators

- 
- V55032**     **V5 Snap-Tite Hose (Red)**
- 3/4" Snap-Tite H-Series steel quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators

- 
- V55033**     **V5 Snap-Tite Hose (Red)**  
**V55033GRN**     **V5 Snap-Tite Hose (Green)**
- 3/4" Snap-Tite H-Series brass quick-disconnect coupler and nipple
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
  - For use with Bullard CC20, GR50, PC90, RT and 88VX Series respirators

# Breathing Air Supply Hose

## V10 3/8" ID Hose for Compressed Air

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### Starter Hoses

#### 25 Foot Lengths

4696 **V1025ST Industrial Interchange Hose Kit (Black)**

46916 **V1025ST Industrial Interchange Hose Kit (Green)**

- 1/4" industrial interchange (Hansen compatible) quick-disconnect coupler
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps
- For use with Bullard CC20, GR50, PC90, RT, FAMB, Spectrum CF and 88VX series respirators
- Quick-disconnect nipple sold separately



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46913 **V1025ST Schrader Hose Kit (Black)**

- 1/4" Schrader quick-disconnect coupler
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps
- For use with Bullard CC20, GR50, PC90, RT, FAMB, Spectrum CF and 88VX series respirators
- Quick-disconnect nipple sold separately



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46915 **V1025ST Snap-Tite Hose Kit (Black)**

- 1/4" Snap-Tite quick-disconnect coupler
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps
- For use with Bullard CC20, GR50, PC90, RT, FAMB, Spectrum CF and 88VX series respirators
- Quick-disconnect nipple sold separately



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#### 50 Foot Lengths

46917 **V1050ST Snap-Tite Hose Kit (Green) (Not Pictured)**

46919 **V1050ST Snap-Tite Hose Kit (Blue) (Not Pictured)**

- 1/4" Snap-Tite quick-disconnect coupler
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps
- For use with Bullard CC20, GR50, PC90, FAMB, Spectrum CF and 88VX series respirators
- Quick-disconnect nipple sold separately

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### Extension Hoses

#### 25 Foot Lengths

5454 **V1025EXT Hose Kit (Black)**

54510 **V1025EXT Hose Kit (Green)**

- V11 hose-to-hose adapter fitting
  - V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
  - For use with compressed air only. Not for use with Bullard Free-Air® pumps
- 54514 • V1025 extension hose kit (blue)



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#### 50 Foot Lengths

5457 **V1050EXT Hose Kit (Black)**

54511 **V1050EXT Hose Kit (Blue)**

54513 **V1050EXT Hose Kit (Green)**

- V11 hose-to-hose adapter fitting
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps

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#### 100 Foot Lengths

5458 **V10100EXT Hose Kit (Black)**

54512 **V10100EXT Hose Kit (Blue)**

- V11 hose-to-hose adapter fitting
- V13 hose-to-pipe adapter fitting (3/8" hose to 3/8" pipe)
- For use with compressed air only. Not for use with Bullard Free-Air® pumps

# Breathing Air Supply Hose

## V20 1/2" ID Hose for Free Air Pumps

- 
- V2050ST**      **V20 Industrial Interchange Hose (Black)**
- 50 feet of hose
  - 1/2" industrial interchange (Hansen compatible) quick-disconnect coupler and nipple
  - For use with Bullard Free-Air® pumps



- 
- V20100ST**      **V20 Industrial Interchange Hose (Black)**
- 100 feet of hose
  - 1/2" industrial interchange (Hansen compatible) quick-disconnect coupler and nipple
  - For use with Bullard Free-Air® pumps



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## Hose Adapters

- V11**      **3/8" Hose to 3/8" Hose Adapter, Brass**



- 
- V12**      **3/8" Hose to 1/4" Pipe Adapter, Brass**



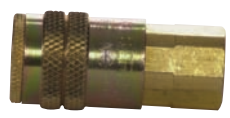






- 
- V13**      **3/8" Hose to 3/8" Pipe Adapter, Brass**





# Breathing Air Supply Hose

## Breathing Air Supply Hose - Quick-Disconnect Couplers

V14	<b>Industrial Interchange Female Coupler</b> <ul style="list-style-type: none"><li>• 1/4" Industrial Interchange (Hansen compatible) quick-disconnect coupler</li><li>• Includes shut-off with 1/4" female pipe thread (NPT)</li><li>• V12 hose to pipe adapter required to connect to V10 extension hose</li></ul>	
V15	<b>Industrial Interchange Female Coupler</b> <ul style="list-style-type: none"><li>• 1/4" Industrial Interchange (Hansen compatible) quick-disconnect coupler</li><li>• Includes shut-off with 3/8" male pipe thread (NPT)</li></ul>	
V18	<b>Schrader Female Coupler</b> <ul style="list-style-type: none"><li>• 1/4" Schrader quick-disconnect coupler</li><li>• Includes shut-off with 1/4" female pipe thread (NPT)</li><li>• V12 hose to pipe adapter required to connect to V10 extension hose</li></ul>	
V19 V19B	<b>Snap-Tite Female Coupler, Steel</b> <b>Snap-Tite Female Coupler, Brass</b> <ul style="list-style-type: none"><li>• 1/4" Snap-Tite quick-disconnect coupler</li><li>• Includes shut-off with 1/4" female pipe thread (NPT)</li><li>• V12 hose to pipe adapter required to connect to V10 extension hose</li></ul>	
V27	<b>Industrial Interchange Coupler</b> <ul style="list-style-type: none"><li>• 1/4" Industrial Interchange coupler assembly</li><li>• Includes V12 hose to pipe adapter</li></ul>	
3914	<b>CEJN Coupler</b> <ul style="list-style-type: none"><li>• 1/4" CEJN quick-disconnect coupler</li><li>• Includes shut-off with 1/4" female pipe thread (NPT)</li><li>• Includes special orifice adapter which connects respirator to the airline extension hose. Use only with orifice adapter</li></ul>	
3421	<b>Bayonet Coupler</b> <ul style="list-style-type: none"><li>• 1/4" Bayonet quick-disconnect coupler</li><li>• Includes shut-off with 1/4" female pipe thread (NPT)</li></ul>	

# Breathing Air Supply Hose

## Breathing Air Supply Hose - Quick-Disconnect Nipples

V17

### Industrial Interchange Nipple

- 1/4" Industrial Interchange (Hansen compatible) steel male quick-disconnect nipple with 3/8" female pipe thread (NPT)
- Requires V13 hose adapter to connect to Bullard V10 air supply hose



S19432

### Schrader Nipple

- 1/4" Schrader steel male quick-disconnect nipple with 1/4" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose



S19442

### Snap-Tite Steel Nipple

- 1/4" Snap-Tite steel male quick-disconnect nipple with 1/4" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose



S19443

### Snap-Tite Brass Nipple

- 1/4" Snap-Tite brass male quick-disconnect nipple with 1/4" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose



3902

### CEJN Nipple

- 1/4" CEJN steel male quick-disconnect nipple with 1/4" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose



3420

### Bayonet Nipple

- 1/4" Bayonet steel male quick-disconnect nipple with 1/4" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose



# Body Temperature Management

## Bullard climate control devices help increase worker comfort and productivity.

Bullard offers six belt-mounted, climate-control devices for use with Bullard airline respirators. Each system enables a worker to adjust and control the temperature of air delivered to the respirator. On extremely hot summer days, air exiting a typical breathing air compressor can exceed 300°F (150°C). Air exiting a Bullard Free-Air® pump can exceed 200°F (100°C). Even with properly installed aftercoolers and in-line filters, the air entering a respirator could exceed ambient temperatures. If workers breathe excessively warm air for prolonged periods of time, they may experience discomfort, fatigue and possibly dehydration. During winter months, excessively cold air can have similar effects. Eventually all of these conditions may reduce worker productivity. Bullard optional climate-control devices help correct these uncomfortable working conditions for wearers of Bullard airline respirators.

### Cool Tubes

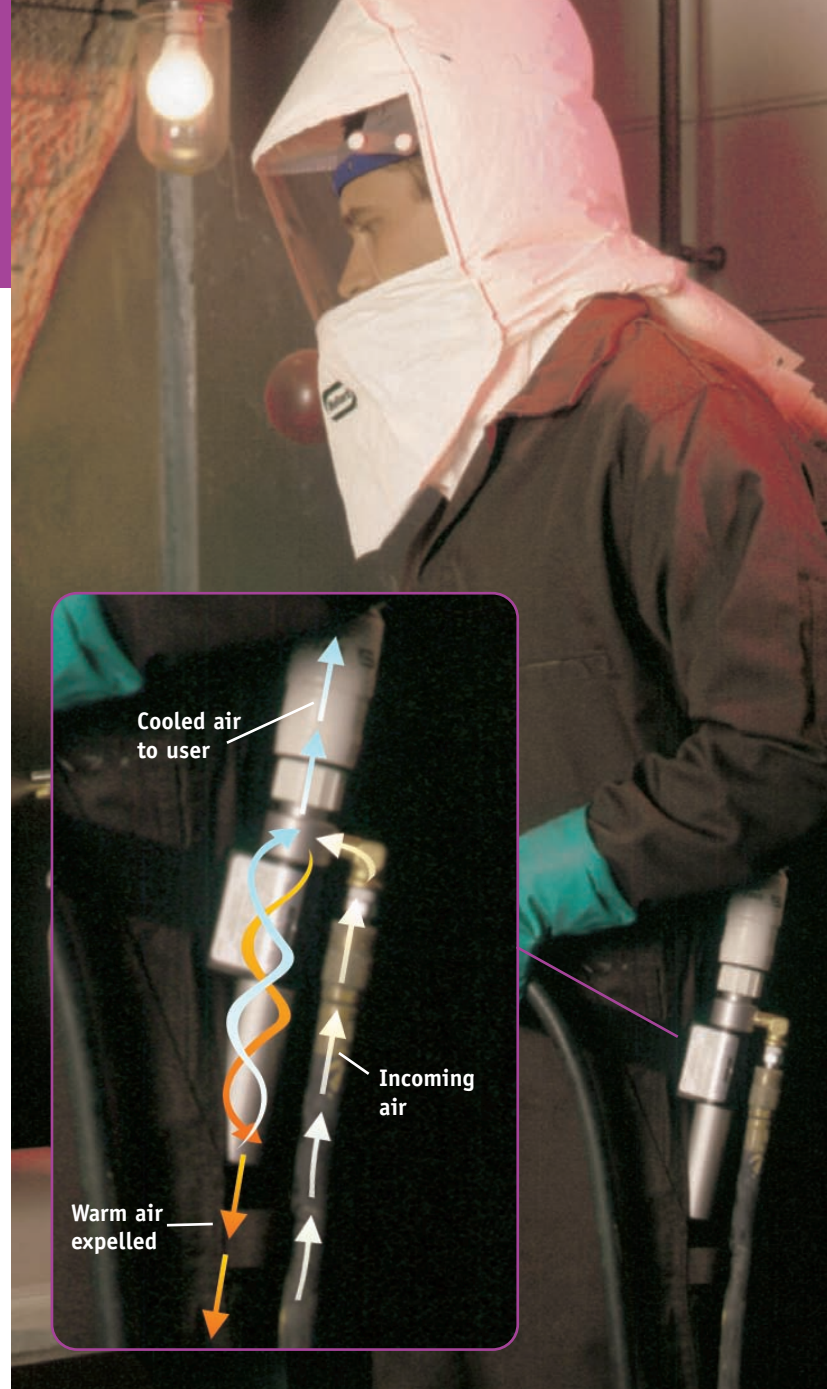
The Bullard line of cool tubes are designed for use with Bullard ambient air pumps. Each of these cool incoming air from compressed breathing air sources by as much as 20°-30°F (11°-17°C) and feature adjustable airflow control valves that allow the user to adjust the incoming air temperature to a level best suited to individual comfort.

### Hot/Cold Tubes

The Bullard Hot/Cold Tubes cool or warm incoming air from compressed breathing air sources. When used in the cool mode, the Hot/Cold Tube decreases the incoming air temperature by as much as 30°F (17°C). When warm air is desired, the incoming air temperature may be increased by up to 30°F (17°C).

### DC50 and DC60 Series DUAL-COOL®

The DUAL-COOL Series provides superior cooling to Bullard respirators, while also sending cool air to the vest for upper torso cooling. The DUAL-COOL will cool incoming air from compressed breathing sources by as much as 30°F (17°C). Separate control knobs allow the worker to adjust the temperature of air to each zone.



## Body Temperature Management - Complete Assemblies

		Climate Control Devices					
		AC1000*	HC2400*	Frigitron**	DC6040**	DC5040**	ACL99*
Bullard Respirator	CC20	●	●●	●		●●	
	GR50	●	●●	●		●●	
	88VX	●	●●	●		●●	
	PC90				●●		
	Lancer®						●
	RT	●	●●				
Air Flow	Adjustable	●	●●	●	●●	●●	
Air Source	Breathing Air Compressor	●	●●		●●	●●	●
	Ambient Air Pump (ADP20/EDP30)			●			

- Cooling
- Heating/Cooling
- DUAL-COOL

\* Consumes approximately 15 CFM (including the hood).

\*\* Consumes approximately 20 CFM (including the hood).

# Body Temperature Management Devices

## Cool Tubes: AC1000 Assemblies and Accessories

AC1000	<b>Cool Tube Assemblies</b> <b>1/4" Industrial Interchange (Hansen Compatible) Quick-Disconnect Nipple</b>
AC100031	1/4" Schrader steel quick-disconnect nipple
AC100032	1/4" Snap-tite steel quick-disconnect nipple
AC100033	1/4" Snap-tite brass quick-disconnect nipple
AC100034	1/4" Snap-Tite stainless steel quick-disconnect nipple
AC100037	1/4" CEJN steel nipple
	<ul style="list-style-type: none"><li>• Adjustable temperature control</li><li>• 4612 nylon belt</li><li>• Heat Shield (HS) included</li><li>• Approved for use with 88VX, CC20, RT (except AC100033 and AC100037) and GR50 Series respirators</li><li>• For use with compressed air</li></ul>
AC100038	<b>1/4" Bayonet Steel Quick-Disconnect Nipple</b>
	<ul style="list-style-type: none"><li>• Adjustable temperature control</li><li>• 4612 nylon belt</li><li>• Heat Shield (HS) included</li><li>• Approved for use with 88VX Series respirators only</li><li>• For use with compressed air</li></ul>
AC1000DC	<b>Cool Tube Assembly for Use with DC70 Vest</b>
	<ul style="list-style-type: none"><li>• 1/4" Industrial Interchange (Hansen compatible) steel nipple</li><li>• Adjustable temperature control</li><li>• 4612 nylon belt</li><li>• Heat Shield (HS) included</li><li>• CH1000 connector hose and belt</li><li>• For use with compressed air</li></ul>



V1000	<b>Replacement fitting</b>
	<ul style="list-style-type: none"><li>• Replacement 1/4" Industrial Interchange (Hansen compatible) male fitting</li></ul>



HS	<b>Leather Heat Shield</b>
	<ul style="list-style-type: none"><li>• For use with AC1000, HC2400 and ACL99 assemblies</li></ul>



4611	<b>Fire Retardant Belt</b>
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4612	<b>Nylon Belt</b>
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36501	<b>Vinyl Decon Belt</b>
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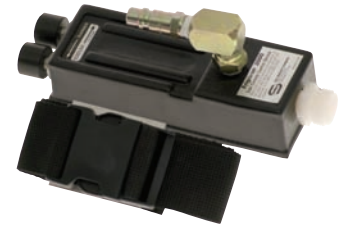
# Body Temperature Management Devices

## Frigitron2000 Assemblies and Accessories

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### FRIGITRON2000 Cool Tube Assembly for Bullard Free-Air® Pumps

- 1/2" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- Adjustable temperature control
- 4612 nylon belt
- Heat Shield (HS) included
- Approved for use with 88VX, CC20 and GR50 Series respirators
- For use with Bullard Free-Air® Pumps (ADP20 and EDP30 models only)



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4611 Fire Retardant Belt



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4612 Nylon Belt



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36501 Vinyl Decon Belt



## ACL99 Assemblies and Accessories

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### ACL99 Cool Tube Assembly

- 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- Heat Shield (HS) included
- Approved for use with Lancer® Series Respirator
- For use with compressed air



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HS Leather Heat Shield  
• For use with AC1000, HC2400 and ACL99 assemblies



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4611 Fire Retardant Belt



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4612 Nylon Belt










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36501 Vinyl Decon Belt



# Body Temperature Management Devices

## Hot/Cold Tubes Assemblies and Accessories

HC2400 HC240031 HC240032 HC240033 HC240037	<b>Hot/Cold Tube Assemblies</b> 1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple 1/4" Schrader Steel Quick-Disconnect Nipple 1/4" Snap-Tite Steel Quick-Disconnect Nipple 1/4" Snap-Tite Brass Quick-Disconnect Nipple 1/4" CEJN stainless steel nipple <ul style="list-style-type: none"><li>Adjustable temperature control</li><li>4612 nylon belt</li><li>Heat Shield (HS) included</li><li>Approved for use with 88VX, CC20, RT (except AC100033 and AC100037) and GR50 Series respirators</li><li>For use with compressed air</li></ul>	
HC240038	<b>Hot/Cold Tube Assembly for use with 88VX Respirator Only</b> 1/4" Bayonet Steel Quick-Disconnect Nipple <ul style="list-style-type: none"><li>Heat Shield (HS) included</li></ul>	
MV2400	<b>HC2400 Muffler/Valve Assembly</b>	
HC2400BB	<b>HC2400 Belt Bracket</b>	
HS	<b>Leather Heat Shield</b> <ul style="list-style-type: none"><li>For use with AC1000, HC2400 and ACL99 assemblies</li></ul>	
4611	<b>Fire Retardant Belt</b>	
4612	<b>Nylon Belt</b>	
36501	<b>Decon Belt</b>	



# Body Temperature Management Devices

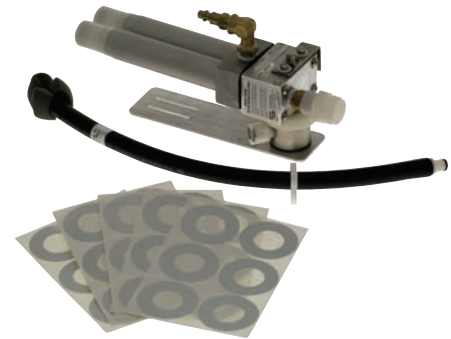
## Cooling Vests and Components: DC65 Series

- 
- DC65ML** Medium/Large Cooling Vest  
**DC65XLXXL** Extra-Large/XX-Large Cooling Vest
- For use with PC90 Series respirator



- 
- DC6040** DUAL-COOL™ Assemblies  
**DC6041** 1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple  
**DC6042** 1/4" Schrader Quick-Disconnect Nipple  
**DC6043** 1/4" Snap-Tite Steel Quick-Disconnect Nipple  
1/4" Snap-Tite Brass Quick-Disconnect Nipple

- Adjustable temperature control
- Must be used with DC65 vests
- CH60 connector hose
- Approved for use with PC90 Series respirator
- Pass through style connection
- For use with compressed air




## DC70 Series

- 
- DC70ML** Medium/Large Cooling Vest  
**DC70XLXXL** Extra-Large/XX-Large Cooling Vest
- For use with 88VX, CC20 and GR50 Series respirators
  - Can be used without respirator when coupled with AC1000DC Cool Tube Assembly





# Body Temperature Management Devices

## Cooling Vests and Components: DC5040 Series


DC5040	<b>DUAL-COOL™ Assemblies</b>	
DC5041	1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple	
DC5042	1/4" Schrader Quick Disconnect Nipple	
DC5043	1/4" Snap-Tite Steel Quick Disconnect Nipple	
DC5044	1/4" Snap-Tite Stainless Steel Quick Disconnect Nipple	
DC5047	1/4" CEJN Quick Disconnect Nipple	
	<ul style="list-style-type: none"><li>• Adjustable temperature control</li><li>• CH60 connector hose and 4612 nylon belt</li><li>• Heat Shield (HS) included</li><li>• Must be used with DC70 vests</li><li>• Approved for use with 88VX, CC20 and GR50 Series respirators</li><li>• For use with compressed air</li></ul>	

DC5048	<b>DUAL-COOL™ Assembly for use with 88VX Respirator Only</b>	
	1/4" Bayonet Steel Quick Disconnect Nipple	
	<ul style="list-style-type: none"><li>• Heat Shield (HS) included</li></ul>	

CH1000	<b>AC1000DC Connector Hose</b>	
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CH60	<b>DC5040 DUAL-COOL™ Connector Hose</b>	
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## Cooling Vest Accessories

HS	<b>Leather Heat Shield</b>	
	<ul style="list-style-type: none"><li>• For use with AC1000, HC2400 and ACL99 assemblies</li></ul>	

4611	<b>Fire Retardant Belt</b>	
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4612	<b>Nylon Belt</b>	
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36501	<b>Decon Belt</b>	
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# 41 Series Airline Filters

## 41 Series Airline Filters help deliver cleaner air for up to six workers.

### Versatile Application

Bullard Airline Filters can be used in conjunction with other compressor safeguards such as carbon monoxide monitoring to supply Grade D breathing air to supplied-air respirators. They may also be used to supply drier, cleaner air to tools and pneumatic systems to reduce down-time and repair costs.

### Heavy Duty

The 41 Series Airline Filters are constructed of heavy gauge steel to withstand rugged industrial environments.

### High Capacity

41 Series Airline Filters contain large disposable filter cartridges allowing longer periods of filtration.

### Light Weight for Easy Portability

Each model weighs approximately 23 pounds (10.5 kg).

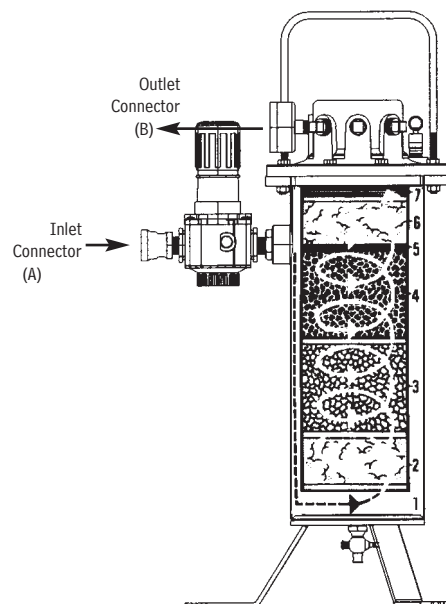
### Efficient

The 41 Series Filter cartridges are specifically designed to effectively trap and remove oil particulates, odor and organic vapors using a multi-layer filtering system. Compressor-supplied air enters the filter and travels through six layers of filter material before exiting through the outlet port. Carded cotton, felt material, activated charcoal and activated alumina work in sequence to supply cleaner air to workers or equipment.

### Replaceable filter cartridge (7-stage operation)

Cartridges effectively trap and remove impurities with little pressure loss. The supplied-air enters the compressor at inlet connector (A), travels through six layers of filter material and exits outlet connector (B). Filter materials work in sequence to trap and hold water, oil, particulates, odors and organic vapors so that cleaner air is delivered to workers or equipment.

1. Water is removed by condensation against the cylinder wall
2. Carded cotton removes particulates
3. Activated alumina adsorbs oil and moisture
4. Activated charcoal removes odors and moisture
5. Felt material removes particulates
6. Carded cotton removes particulates
7. Respiratory felt at final stage acts as a final filter before air is transferred to worker or air driven tools



# 41 Series Airline Filters



Specifications					
Airline Filter	Model 41A	Model 41P2	Model 41P6	Model 41P6WM	Model 41P2E
Max. Air Flow Rate	100 cfm* (2830 lpm)	75 cfm (2120 lpm)	75 cfm (2120 lpm)	75 cfm (2120 lpm)	75 cfm (2120 lpm)
Inlet Connection	1" NPT (Fem.)	1" NPT (Fem.)	1" NPT (Fem.)	1" NPT (Fem.)	3/4" (19 mm) NPT (Fem.)
Outlet Connection	1" NPT (Fem.)	2 outlets 3/8" NPT (Fem.)	6 outlets 3/8" NPT (Fem.)	6 outlets 3/8" NPT (Fem.)	2 outlets 1/4" (6 mm) BPT (Fem.)
Relief Valve	-	125 psig (8.6 bar)	125 psig (8.6 bar)	125 psig (8.6 bar)	125 psig (8.6 bar)
Tank Diameter	5 1/2" (14 cm)	5 1/2" (14 cm)	5 1/2" (14 cm)	5 1/2" (14 cm)	5 1/2" (14 cm)
Height	19" (48 cm)	23 1/2" (60 cm)	25 1/4" (64 cm)	22" (56 cm)	23 1/2" (60 cm)
Weight	19 lb. (8.6 kg)	22 lb. (10 kg)	24 lb. (10.9 kg)	28 lb. (12.7 kg)	22 lb. (10 kg)
*At maximum recommended pressure of 100 psig (6.9 bar)					

## 41 Series Portable Filtration and CO Monitoring

### One or Two Worker Systems

- All assemblies include Heavy Duty 41 Series Filter with 7-stage filtration, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and 6-foot 110 VAC power cord.

10 PPM PART NUMBER	5 PPM PART NUMBER
COHP41P2	C05HP41P2

75 CFM, Two Outlet Unit with Hansen Couplings



### One to Six Worker Systems

- All assemblies include Heavy Duty 41 Series Filter with 7-stage filtration, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and 6-foot 110 VAC power cord.

10 PPM PART NUMBER	5 PPM PART NUMBER
COHP41P6	C05HP41P6

75 CFM, Six Outlet Unit with Hansen Couplings

# Breathing Air Filtration

## 41 Series Filter Assemblies

41A

### Single Outlet

- 1" NPT inlet, 1" NPT outlet
- Includes 41AF filter cartridge
- Does not include regulator, pressure gauge, or relief valve
- Handle (41HK) must be ordered separately
- Shipping weight: 22 lbs. Cube: 2.9



41P2

### 2-Outlet

- 1" NPT inlet, 1/4" and 3/8" NPT (female) outlets
- Includes 41AF filter cartridge
- Regulator adjustable between 0-100 psig
- Relief valve set at 125 psig
- Pressure gauge
- Handle (41HK) must be ordered separately
- Shipping weight: 27 lbs. Cube: 2.9



41P6

### 6-Outlet

- 1" NPT inlet, 3/8" NPT (female) outlets
- Includes 41AF filter cartridge
- Regulator adjustable between 0-100 psig
- Relief valve set at 125 psig
- Pressure gauge
- Shipping weight: 27 lbs. Cube: 2
- Handle (41HK) must be ordered separately



41P6WM

### 6-Outlet, Wall Mount

- Same as Model 41P6 above with:
- Galvanized steel wall mount bracket (no legs)
- Shipping weight: 31 lbs. Cube: 2.9



41AF

### Filter Cartridge

- Filter cartridge for 41A, 41P2, 41P6 and 41P6WM
- Shipping weight: 6 lbs. Cube: .6





# Breathing Air Filtration

## 41 Series Filter Replacement Parts

**41P2M**      **41P2 Manifold Assembly for 41P2 Filter**

- Steel manifold plate
- Regulator adjustable between 0-100 psig
- Relief valve set at 125 psig
- Pressure gauge
- Shipping weight: 7.0 lbs.



**41P6UPK**      **41P6 Manifold Assembly for 41P6 Filter**

- Steel manifold plate
- Regulator adjustable between 0-100 psig
- Relief valve set at 125 psig
- Pressure gauge
- Shipping weight: 10.0 lbs.



**41RG**      **Regulator Gauge**

- For 41P2 and 41P6
- 0-160 psi



**41PRV**      **Pressure Relief Valve**

- For 41P2 and 41P6
- 125 psig activation



**41P2R**      **41P2 Regulator and Gauge Assembly**

- For use with flat top design only



**V15**      **Industrial Interchange Female Coupler**

- 3/4" Industrial Interchange (Hansen compatible) quick-disconnect coupler
- Includes shut-off with 3/8" male pipe thread (NPT)



**41KB2**      **Replacement Knob for 41P2**



**41HK**      **Handle Kit**

- For use with all 41 Series Airline Filters



# Clean Air Box (CAB) Series Breathing Air Filtration

## Clean Air Boxes (CAB)

### High Performance Air Filtering and Monitoring

Clean Air Boxes can help employers comply with Grade D breathing standards by providing high performance particulate filtration and continuous CO monitoring. Available as either portable case enclosed or fixed wall mount, these units feature high performance three-stage filtration, auto-drains, CO monitoring, filter change indicators and the capacity to support up to eight workers.

## Remote Air Manifold (RAM)

### Air Distribution and Regulation

Remote Air Manifolds are effective for air distribution and regulation to multiple workers from a common air source. Standard features include multiple respirator couplings, single or multiple pressure regulators and a rugged protective case.

## Carbon Monoxide Monitors

### Continuous Monitoring for Carbon Monoxide

This compact, durable unit connects easily to any compressed breathing air source (connection kit included). The monitor is factory set to sound a 93 dB alarm when CO level exceeds 10 ppm, the OSHA limit. Monitors are also available with a CO alarm set point of 5 ppm to meet CSA and certain international requirements. External operation lights show green for normal and red for alarm for easy visual monitoring. An alarm jack to allow connection to remote alarm devices is standard. Monitors operate on 9-volt battery or 110-volt AC power. Backup battery power supply capability is standard on all units.



## CAB Series Sizing Chart

\* This chart is intended solely as a guide. The actual number of respirators that may be connected to these products is dependent on the inlet pressure to the panel and the airflow and pressure requirements of the respirator.  
\*\* Single Cool Tubes

Number of Workers	Mask Respirators	Hood Respirators	Hood Respirators with Cool Tubes**
1	CAB15	CAB15	CAB15
2	CAB15 or COHP41P2	CAB30 or COHP41P2	CAB30 or COHP41P2
3	CAB15 or COHP41P6	CAB30 or COHP41P6	CAB50 or COHP41P6
4	CAB30 or COHP41P6	CAB50 or COHP41P6	CAB50 or COHP41P6
5	CAB30 or COHP41P6	CAB50 or COHP41P6	CAB100 or COHP41P6
6	CAB30 or COHP41P6	CAB100 or COHP41P6	CAB100 or COHP41P6
7	CAB50 or COHP41P6	CAB100 or COHP41P6	CAB100
8	CAB50 or COHP41P6	CAB100 or COHP41P6	CAB100

## RAM Series Sizing Chart

Number of Workers	Mask Respirators	Hood Respirators	Hood Respirators with Cool Tubes**
1	RAM1	RAM1	RAM1
2	RAM2	RAM2	RAM2
3	RAM4	RAM4	RAM4
4	RAM4	RAM4	RAM4
5	RAM8	RAM8	RAM8
6	RAM8	RAM8	RAM8
7	RAM8	RAM8	RAM8
8	RAM8	RAM8	RAM8

# CAB Breathing Air Filtration

## CAB Series Portable Filtration and CO Monitoring

### One Worker Systems

- All assemblies include Pelican® Case, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and 6-foot 110 VAC power cord.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB15HA	CAB15HA5	15 CFM Clean Air Box with Hansen Outlet Coupling
CAB15SC	CAB15SC5	15 CFM Clean Air Box with Schrader Outlet Coupling
CAB15CE	CAB15CE5	15 CFM Clean Air Box with CEJN Outlet Coupling
CAB15SN	CAB15SN5	15 CFM Clean Air Box with SnapTite Outlet Coupling
CAB15SS	CAB15SS5	15 CFM Clean Air Box with Stainless Steel Hansen Outlet Coupling



Model CAB15HA

### One Worker Systems with Tychem Respirator

- All assemblies include a Clean Air Box, 3-stage filtration, visual filter change indicators, CO monitor with auto-calibration, audible and visual alarms for high CO and low battery. Respirator includes Tychem hood, cool tube, breathing tube and breathing hose assembly.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB15HASYS	CAB15HASYS5	15CFM Clean Air Box System with Tychem® Hood Respirator



Model CAB15HASYS

### One Worker Systems with Blasting Respirator

- All assemblies include a Clean Air Box, 3-stage filtration, visual filter change indicators, CO monitor with auto-calibration, audible and visual alarms for high CO and low battery. Respirator includes 88VX3230 hood, cool tube, breathing tube and breathing hose assembly.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB15HA88VXSYS	CAB15HA88VXSYS5	15CFM Clean Air Box System with 88VX3230 Blasting Respirator



Model CAB15HASYS

### One or Two Worker Systems

- All assemblies include Pelican Case, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, 6-foot 110 VAC power cord and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB30HA	CAB30HA5	30 CFM Clean Air Box with Hansen Outlet Couplings
CAB30SC	CAB30SC5	30 CFM Clean Air Box with Schrader Outlet Couplings
CAB30CE	CAB30CE5	30 CFM Clean Air Box with CEJN Outlet Couplings
CAB30SN	CAB30SN5	30 CFM Clean Air Box with SnapTite Outlet Couplings
CAB30SS	CAB30SS5	30 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings
CAB30IRHA	CAB30IRHA5	30 CFM Clean Air Box with Hansen Outlet Couplings and Independent Regulators
CAB30IRSC	CAB30IRSC5	30 CFM Clean Air Box with Schrader Outlet Couplings and Independent Regulators
CAB30IRCE	CAB30IRCE5	30 CFM Clean Air Box with CEJN Outlet Couplings and Independent Regulators
CAB30IRSN	CAB30IRSN5	30 CFM Clean Air Box with SnapTite Outlet Couplings and Independent Regulators
CAB30IRSS	CAB30IRSS5	30 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings and Independent Regulators



Model CAB30IRHA

# CAB Breathing Air Filtration

## CAB Series Portable Filtration and CO Monitoring

### One to Four Worker Systems

- All assemblies include Pelican® Case, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, 6-foot 110 VAC power cord and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB50HA	CAB50HA5	50 CFM Clean Air Box with Hansen Outlet Couplings
CAB50SC	CAB50SC5	50 CFM Clean Air Box with Schrader Outlet Couplings
CAB50CE	CAB50CE5	50 CFM Clean Air Box with CEJN Outlet Couplings
CAB50SN	CAB50SN5	50 CFM Clean Air Box with SnapTite Outlet Couplings
CAB50SS	CAB50SS5	50 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings
CAB50IRHA	CAB50IRHA5	50 CFM Clean Air Box with Hansen Outlet Couplings and Independent Regulators
CAB50IRSC	CAB50IRSC5	50 CFM Clean Air Box with Schrader Outlet Couplings and Independent Regulators
CAB50IRCE	CAB50IRCE5	50 CFM Clean Air Box with CEJN Outlet Couplings and Independent Regulators
CAB50IRSN	CAB50IRSN5	50 CFM Clean Air Box with SnapTite Outlet Couplings and Independent Regulators
CAB50IRSS	CAB50IRSS5	50 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings and Independent Regulators

### One to Eight Worker Systems

- All assemblies include Pelican Case, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, 6-foot 110 VAC power cord and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB100HA	CAB100HA5	100 CFM Clean Air Box with Hansen Outlet Couplings
CAB100SC	CAB100SC5	100 CFM Clean Air Box with Schrader Outlet Couplings
CAB100CE	CAB100CE5	100 CFM Clean Air Box with CEJN Outlet Couplings
CAB100SN	CAB100SN5	100 CFM Clean Air Box with SnapTite Outlet Couplings
CAB100SS	CAB100SS5	100 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings
CAB100IRHA	CAB100IRHA5	100 CFM Clean Air Box with Hansen Outlet Couplings and Independent Regulators
CAB100IRSC	CAB100IRSC5	100 CFM Clean Air Box with Schrader Outlet Couplings and Independent Regulators
CAB100IRCE	CAB100IRCE5	100 CFM Clean Air Box with CEJN Outlet Couplings and Independent Regulators
CAB100IRSN	CAB100IRSN5	100 CFM Clean Air Box with SnapTite Outlet Couplings and Independent Regulators
CAB100IRSS	CAB100IRSS5	100 CFM Clean Air Box with Stainless Steel Hansen Outlet Couplings and Independent Regulators



Model CAB100IRHA

## CAB Series Fixed Breathing Air Filtration and CO Monitoring

### One Worker Systems

- All assemblies include heavy duty wall mount panel, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB15PMHA	CAB15PMHA5	15 CFM Clean Air Panel with Hansen Outlet Coupling
CAB15PMSC	CAB15PMSC5	15 CFM Clean Air Panel with Schrader Outlet Coupling
CAB15PMCE	CAB15PMCE5	15 CFM Clean Air Panel with CEJN Outlet Coupling
CAB15PMSN	CAB15PMSN5	15 CFM Clean Air Panel with SnapTite Outlet Coupling
CAB15PMSS	CAB15PMSS5	15 CFM Clean Air Panel with Stainless Steel Hansen Outlet Coupling



# CAB Breathing Air Filtration

## CAB Series Fixed Breathing Air Filtration and CO Monitoring

### One Worker Systems with Tychem® Respirator

- All assemblies include heavy duty wall mount panel, 3-stage filtration, visual filter change indicators, CO monitor with auto-calibration, audible and visual alarms for high CO and low battery. Respirator includes Tychem® hood, cool tube, breathing tube and breathing hose assembly.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB15PMHASYS	CAB15PMHASYS5	15CFM Clean Air Panel System with Tychem Hood Respirator

### One or Two Worker Systems

- All assemblies include heavy duty wall mount panel, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB30PMHA	CAB30PMHA5	30 CFM Clean Air Panel with Hansen Outlet Couplings
CAB30PMSC	CAB30PMSC5	30 CFM Clean Air Panel with Schrader Outlet Couplings
CAB30PMCE	CAB30PMCE5	30 CFM Clean Air Panel with CEJN Outlet Couplings
CAB30PMSN	CAB30PMSN5	30 CFM Clean Air Panel with SnapTite Outlet Couplings
CAB30PMSS	CAB30PMSS5	30 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings
CAB30PMIRHA	CAB30PMIRHA5	30 CFM Clean Air Panel with Hansen Outlet Coupling and Independent Regulators
CAB30PMIRSC	CAB30PMIRSC5	30 CFM Clean Air Panel with Schrader Outlet Couplings and Independent Regulators
CAB30PMIRCE	CAB30PMIRCE5	30 CFM Clean Air Panel with CEJN Outlet Couplings and Independent Regulators
CAB30PMIRSN	CAB30PMIRSN5	30 CFM Clean Air Panel with SnapTite Outlet Couplings
CAB30PMIRSS	CAB30PMIRSS5	30 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings and Independent Regulators

### Two to Four Worker Systems

- All assemblies include heavy duty wall mount panel, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB50PMHA	CAB50PMHA5	50 CFM Clean Air Panel with Hansen Outlet Couplings
CAB50PMSC	CAB50PMSC5	50 CFM Clean Air Panel with Schrader Outlet Couplings
CAB50PMCE	CAB50PMCE5	50 CFM Clean Air Panel with CEJN Outlet Couplings
CAB50PMSN	CAB50PMSN5	50 CFM Clean Air Panel with SnapTite Outlet Couplings
CAB50PMSS	CAB50PMSS5	50 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings
CAB50PMIRHA	CAB50PMIRHA5	50 CFM Clean Air Panel with Hansen Outlet Couplings and Independent Regulators
CAB50PMIRSC	CAB50PMIRSC5	50 CFM Clean Air Panel with Schrader Outlet Couplings and Independent Regulators
CAB50PMIRCE	CAB50PMIRCE5	50 CFM Clean Air Panel with CEJN Outlet Couplings and Independent Regulators
CAB50PMIRSN	CAB50PMIRSN5	50 CFM Clean Air Panel with SnapTite Outlet Couplings and Independent Regulators
CAB50PMIRSS	CAB50PMIRSS5	50 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings and Independent Regulators



# CAB Breathing Air Filtration

## CAB Series Fixed Breathing Air Filtration and CO Monitoring

### One to Eight Worker Systems

- All assemblies include heavy duty wall mount panel, 3-stage filtration, visual filter change indicators, CO monitor with auto calibration, audible and visual alarms for high CO and low battery, and remote alarm jack.

10 PPM PART NUMBER	5 PPM PART NUMBER	
CAB100PMHA	CAB100PMHA5	100 CFM Clean Air Panel with Hansen Outlet Couplings
CAB100PMSC	CAB100PMSC5	100 CFM Clean Air Panel with Schrader Outlet Couplings
CAB100PMCE	CAB100PMCE5	100 CFM Clean Air Panel with CEJN Outlet Couplings
CAB100PMSN	CAB100PMSN5	100 CFM Clean Air Panel with SnapTite Outlet Couplings
CAB100PMSS	CAB100PMSS5	100 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings
CAB100PMIRHA	CAB100PMIRHA5	100 CFM Clean Air Panel with Hansen Outlet Couplings and Independent Regulators
CAB100PMIRSC	CAB100PMIRSC5	100 CFM Clean Air Panel with Schrader Outlet Couplings and Independent Regulators
CAB100PMIRCE	CAB100PMIRCE5	100 CFM Clean Air Panel with CEJN Outlet Couplings and Independent Regulators
CAB100PMIRSN	CAB100PMIRSN5	100 CFM Clean Air Panel with SnapTite Outlet Couplings and Independent Regulators
CAB100PMIRSS	CAB100PMIRSS5	100 CFM Clean Air Panel with Stainless Steel Hansen Outlet Couplings and Independent Regulators



Model CAB100PMIRHA

## RAM Series Remote Air Manifolds

### One Worker Systems - Wall Mount

RAM1WMHA One Outlet Remote Air Manifold with Hansen Outlet Coupling



Model RAM1WMHA

### One Worker Systems - Portable

- All assemblies below include Pelican® case, male inlet fitting and female quick-disconnect outlet fitting(s).

RAM1HA	One Outlet Remote Air Manifold with Hansen Outlet Coupling
RAM1SC	One Outlet Remote Air Manifold with Schrader Outlet Coupling
RAM1CE	One Outlet Remote Air Manifold with CEJN Outlet Coupling
RAM1SN	One Outlet Remote Air Manifold with SnapTite Outlet Coupling
RAM1SS	One Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Coupling



Model RAM1HA

# CAB Breathing Air Filtration

## RAM Series Remote Air Manifolds

### Two Worker Systems - Portable

- All assemblies below include Pelican® case, male inlet fitting and female quick-disconnect outlet fitting(s)

<b>RAM2HA</b>	Two Outlet Remote Air Manifold with Hansen Outlet Couplings
<b>RAM2SC</b>	Two Outlet Remote Air Manifold with Schrader Outlet Couplings
<b>RAM2CE</b>	Two Outlet Remote Air Manifold with CEJN Outlet Couplings
<b>RAM2SN</b>	Two Outlet Remote Air Manifold with SnapTite Outlet Couplings
<b>RAM2SS</b>	Two Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings
<b>RAM2IRHA</b>	Two Outlet Remote Air Manifold with Hansen Outlet Couplings and Independent Regulators
<b>RAM2IRSC</b>	Two Outlet Remote Air Manifold with Schrader Outlet Couplings and Independent Regulators
<b>RAM2IRCE</b>	Two Outlet Remote Air Manifold with CEJN Outlet Couplings and Independent Regulators
<b>RAM2IRSN</b>	Two Outlet Remote Air Manifold with SnapTite Outlet Couplings and Independent Regulators
<b>RAM2IRSS</b>	Two Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings and Independent Regulators



**Model RAM2IRHA**

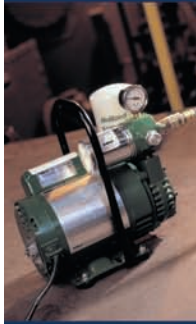
### Four Worker Systems - Portable

- All assemblies below include Pelican case, male inlet fitting and female quick-disconnect outlet fitting(s).

<b>RAM4HA</b>	Four Outlet Remote Air Manifold with Hansen Outlet Couplings
<b>RAM4SC</b>	Four Outlet Remote Air Manifold with Schrader Outlet Couplings
<b>RAM4CE</b>	Four Outlet Remote Air Manifold with CEJN Outlet Couplings
<b>RAM4SN</b>	Four Outlet Remote Air Manifold with SnapTite Outlet Couplings
<b>RAM4SS</b>	Four Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings
<b>RAM4IRHA</b>	Four Outlet Remote Air Manifold with Hansen Outlet Couplings and Independent Regulators
<b>RAM4IRSC</b>	Four Outlet Remote Air Manifold with Schrader Outlet Couplings and Independent Regulators
<b>RAM4IRCE</b>	Four Outlet Remote Air Manifold with CEJN Outlet Couplings and Independent Regulators
<b>RAM4IRSN</b>	Four Outlet Remote Air Manifold with SnapTite Outlet Couplings and Independent Regulators
<b>RAM4IRSS</b>	Four Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings and Independent Regulators



**Model RAM4IRHA**



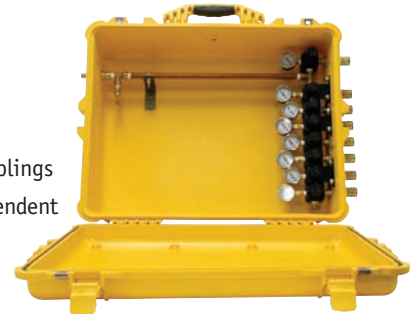
# CAB Breathing Air Filtration

## RAM Series Remote Air Manifolds

### Eight Worker Systems - Portable

- All assemblies below include Pelican® case, male inlet fitting and female quick-disconnect outlet fitting(s)

<b>RAM8HA</b>	Eight Outlet Remote Air Manifold with Hansen Outlet Couplings
<b>RAM8SC</b>	Eight Outlet Remote Air Manifold with Schrader Outlet Couplings
<b>RAM8CE</b>	Eight Outlet Remote Air Manifold with CEJN Outlet Couplings
<b>RAM8SN</b>	Eight Outlet Remote Air Manifold with SnapTite Outlet Couplings
<b>RAM8SS</b>	Eight Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings
<b>RAM8IRHA</b>	Eight Outlet Remote Air Manifold with Hansen Outlet Couplings and Independent Regulators
<b>RAM8IRSC</b>	Eight Outlet Remote Air Manifold with Schrader Outlet Couplings and Independent Regulators
<b>RAM8IRCE</b>	Eight Outlet Remote Air Manifold with CEJN Outlet Couplings and Independent Regulators
<b>RAM8IRSN</b>	Eight Outlet Remote Air Manifold with SnapTite Outlet Couplings and Independent Regulators
<b>RAM8IRSS</b>	Eight Outlet Remote Air Manifold with Stainless Steel Hansen Outlet Couplings and Independent Regulators



Model RAM8IRHA

## CAB and RAM Series Accessories

### Monitors and Remote Alarms

<b>RA</b>	Remote Alarm
<b>COHP</b>	CO Monitor System for High Pressure, 10 ppm Set Point
<b>CO5HP</b>	CO Monitor System for High Pressure, 5 ppm Set Point
<b>COM5</b>	Replacement CO Monitor 5ppm Alarm Set Point
<b>COM10</b>	Replacement CO Monitor 10ppm Alarm Set Point
<b>CABRS</b>	Replacement Sensor for CO Monitor



Model RA

### Calibration Kits and Gas

<b>CABCK</b>	Calibration Kit (includes Zero Air C34L Cylinders, 10 ppm CO, Regulators, Tubing and Connector)
<b>CABCK17L</b>	Same as above, with 17L Cylinders
<b>CABCK103L</b>	Same as above, with 103L Cylinders
<b>CABCG0</b>	Zero Air, 34L Cylinder
<b>CABCG017L</b>	Zero Air, 17L Cylinder
<b>CABCG0103L</b>	Zero Air, 103L Cylinder
<b>CABCG10</b>	10 PPM CO, 34L Cylinder
<b>CABCG1017L</b>	10 PPM CO, 17L Cylinder
<b>CABCG10103L</b>	10 PPM CO, 103L Cylinder
<b>CABCALREG</b>	Regulator, tubing and connector fitting for CABCK calibration kit



Model CABCK

### Replacement Filters, Elements and Change Indicators

<b>CAB30FA</b>	Filter Stage 1 - 15 or 30 cfm
<b>CAB30FB</b>	Filter Stage 2 - 15 or 30 cfm
<b>CAB30FC</b>	Filter Stage 2 - 15 or 30 cfm
<b>CAB30FK</b>	Filter Element Kit, Includes CAB30FEA, CAB30FEB and CAB30FEC
<b>CAB30FEA</b>	Filter Element A - Particulate
<b>CAB30FEB</b>	Filter Element B - Coalescing
<b>CAB30FEC</b>	Filter Element C - Activated Charcoal



Model CAB30FK



# CAB Breathing Air Filtration

## CAB and RAM Series Accessories

### Replacement Filters, Elements and Change Indicators

<b>CAB50FA</b>	Filter Stage 1 - 50 cfm
<b>CAB50FB</b>	Filter Stage 2 - 50 cfm
<b>CAB50FC</b>	Filter Stage 2 - 50 cfm
<b>CAB50FK</b>	Filter Element Kit • Includes CAB50FEA, CAB50FEB AND CAB50FEC
<b>CAB50FEA</b>	Filter Element A - Particulate
<b>CAB50FEB</b>	Filter Element B - Coalescing
<b>CAB50FEC</b>	Filter Element C - Activated Charcoal
<b>CAB100FA</b>	Filter Stage 1 - 100 cfm
<b>CAB100FB</b>	Filter Stage 2 - 100 cfm
<b>CAB100FC</b>	Filter Stage 2 - 100 cfm
<b>CAB100FK</b>	Filter Element Kit • Includes CAB100FEA, CAB100FEB AND CAB100FEC
<b>CAB100FEA</b>	Filter Element A - Particulate
<b>CAB100FEB</b>	Filter Element B - Coalescing
<b>CAB100FEC</b>	Filter Element C - Activated Charcoal
<b>CAB15FCI</b>	Filter Change Indicator 15 cfm
<b>CAB30FCI</b>	Filter Change Indicator 30 cfm
<b>CAB50FCI</b>	Filter Change Indicator 50 cfm
<b>CAB100FCIA</b>	Filter Change Indicator 100 cfm, Stage 1
<b>CAB100FCIAB</b>	Filter Change Indicator 100 cfm, Stages 2 and 3



Model CAB50FK



Model CAB100FK



Model CAB30FCI

### Replacement Regulators

<b>CABREG1</b>	Replacement Regulator 15 and 30 CFM
<b>CABREG2</b>	Replacement Regulator 50 CFM
<b>CABREG3</b>	Replacement Regulator 100 CFM
<b>CABREG4</b>	Replacement Independent Regulator
<b>CABQDHA</b>	Quick-Disconnect Outlet Fitting Hansen (v14)
<b>CABQDSN</b>	Quick-Disconnect Outlet Fitting Snap Tite
<b>CABQDSC</b>	Quick-Disconnect Outlet Fitting Schrader
<b>CABQDCE</b>	Quick-Disconnect Outlet Fitting CEJN
<b>CABQDSS</b>	Quick-Disconnect Outlet Fitting Hansen Stainless Steel
<b>CABQDCAP</b>	Quick-Disconnect Dust Cap
<b>41PRV</b>	Pressure Relief Valve, 125 psi - All CAB and RAM Units



Model CABREG1



Model CABQDCAP

### International Power Cords

<b>PA3UCJACORD</b>	6-Foot Power Cord for Japan
<b>PA3UCUKCORD</b>	6-Foot Power Cord for United Kingdom
<b>PA3UCAUCORD</b>	6-Foot Power Cord for Australia
<b>PA3UCEUCORD</b>	6-Foot Power Cord for Europe



Model PA3UCEUCORD

## Reliable, Economical Air Sources for Airline Respirators.

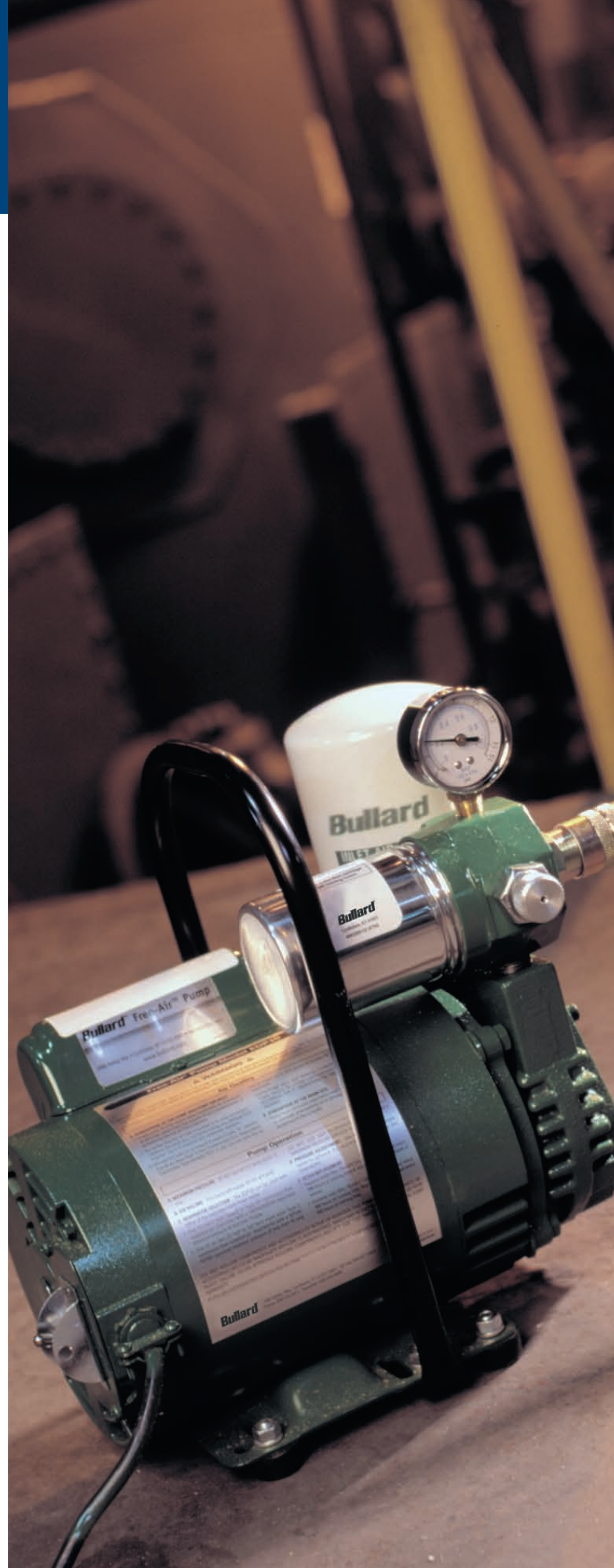
Easy to operate and maintain, Bullard Free-Air® pumps offer a low cost way to supply clean, breathable air to workers in contaminated environments. They are an economical air source when compressed air is not available and an inexpensive way to add breathing capacity when a compressed air source is at its maximum utilization.

### Economical

Bullard Free-Air pumps are efficient and economical. They are portable and can be moved quickly and easily from jobsite to jobsite. Plus, they require no expensive plumbing or installation. Bullard Free-Air pumps are oil-less so they do not produce carbon monoxide, oil vapor or oil mist. Since CO monitors, temperature alarms, airline filters and complicated calibration equipment aren't necessary, Free Air pumps are frequently a more cost effective alternative to compressed air.

### Easy-To-Use

Bullard Free-Air pumps are reliable and easy to use. They are available in both electric and air driven models. Electric models have low power requirements; simply plug-in, set the proper air pressure and go to work. The air driven model is ideal for both general purpose and hazardous duty use. Used with optional extension hose kits, the breathable air inlet can be located up to 300 feet away from the pump.



# Free-Air® Pumps

## Air Driven Pumps

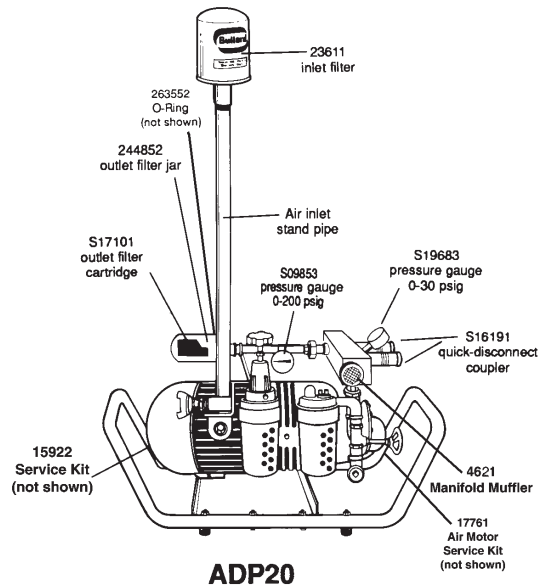
ADP20

### Air-Driven, Oil-Less Air Pump

- Supplies air to four hood-style respirators or six half or full face mask respirators
- 30 CFM at 5 psi with minimum 85 cfm at 95 psi incoming drive air pressure
- Intrinsically safe
- Pressure gauge (0-30 psig)
- Two 1/2" Industrial Interchange (Hansen compatible) quick-disconnect couplers
- Shipping Weight: 100 lbs.



## ADP20 Replacement Parts



17761

### Service Kit

- Four vanes
- Two motor bearings
- Four vane springs
- Seal
- Two body gaskets
- Two push pins
- End cap gasket
- O-ring



S09853

### Pressure Gauge, 0-200 PSI



# Free-Air® Pumps

## ADP20 Replacement Parts

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4621 ADP20 Manifold Muffler



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15922 **Service Kit**

- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge



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21052 **Conversion Kit**

- Conversion components - ADP16 or ADP3CA to ADP20



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S19683 **Pressure Gauge, 0-30 PSI**



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S16191 **Quick-Disconnect Coupler**

- 1/2" Industrial Interchange (Hansen compatible), shut-off
- 3/8" NPT Pipe Thread



# Free-Air® Pumps

## ADP20 Replacement Parts

23611	<b>Inlet Filter</b> <ul style="list-style-type: none"><li>• Change every 500 hours or as required</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 &amp; EDP50</li></ul>	
244852	<b>Outlet Filter Jar</b>	
263552	<b>Outlet Filter Assembly O-Ring</b>	
S17101	<b>Outlet Filter</b> <ul style="list-style-type: none"><li>• Carbofine (change every 200 hours or as required)</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; 4 required for EDP30; eight required for EDP50</li></ul>	
S17931	<b>Cleaning Solvent, 14 oz. Aerosol Can</b>	
V22	<b>Quick-Disconnect Coupler Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 3/8" female NPT</li></ul>	
V23	<b>Quick-Disconnect Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to single 3/8" female NPT</li></ul>	
V24	<b>Quick-Disconnect Coupler Splitter/Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 1/2" Industrial Interchange female couplers (one flow through, one shut-off)</li></ul>	
V50EX	<b>Remote Extension Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to V50IN to extend length</li><li>• Maximum five per pump</li><li>• 1 1/2" ID</li></ul>	
V50IN	<b>Remote Inlet Air Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to pump for remote location of inlet filter</li><li>• Maximum one per pump</li><li>• 1 1/2" ID</li></ul>	





# Free-Air® Pumps

## Electric Driven Pumps

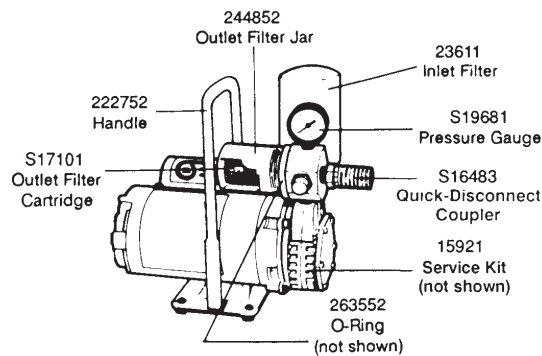
### EDP10

#### One to Two Person Pump

- ¾ HP electric-driven, oil-less air pump with open drip-proof motor drive
- Supplies air to one hood-style or two half or full face mask airline respirators
- Carrying handle
- Inlet and outlet filter cartridges
- Pressure gauge (0-15 psig)
- Electrical cord and On/Off switch
- One ½" Industrial Interchange (Hansen compatible) quick-disconnect coupler
- Shipping Weight: 60 lbs.



### EDP10 Replacement Parts



**EDP10**

### 15921

#### Service Kit

- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge



### S19681

#### Pressure Gauge, 0-15 PSI



### S16483

#### Quick-Disconnect Coupler

- ½" Industrial Interchange, flow-through
- ¾" NPT pipe thread



# Free-Air® Pumps

## EDP10 Replacement Parts

23611	<b>Inlet Filter</b> <ul style="list-style-type: none"><li>• Change every 500 hours or as required</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 &amp; EDP50</li></ul>	
244852	<b>Outlet Filter Jar</b>	
263552	<b>Outlet Filter Assembly O-Ring</b>	
S17101	<b>Outlet Filter</b> <ul style="list-style-type: none"><li>• Carbofine (change every 200 hours or as required)</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; fpur required for EDP30; eight required for EDP50</li></ul>	
S17931	<b>Cleaning Solvent, 14 oz. Aerosol Can</b>	
V22	<b>Quick-Disconnect Coupler Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 3/8" female NPT</li></ul>	
V23	<b>Quick-Disconnect Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to single 3/8" female NPT</li></ul>	
V24	<b>Quick-Disconnect Coupler Splitter/Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 1/2" Industrial Interchange female couplers (one flow-through, one shut-off)</li></ul>	
V50EX	<b>Remote Extension Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to V50IN to extend length</li><li>• Maximum five per pump</li><li>• 1 1/2" ID</li></ul>	
V50IN	<b>Remote Inlet Air Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to pump for remote location of inlet filter</li><li>• Maximum one per pump</li><li>• 1 1/2" ID</li></ul>	



# Free-Air® Pumps

## Electric Driven Pumps

### EDP16TE

#### Two to Three Person Pump

- 1 1/2 HP electric-driven, oil-less air pump with totally enclosed fan-cooled motor drive (TFEC)
- Supplies air to two hood-style or half or full face mask airline respirators
- Inlet and outlet filter cartridges
- Pressure gauge (0-30 psig)
- Electrical cord and On/Off switch
- Two 1/2" Industrial Interchange (Hansen compatible) quick-disconnect couplers
- Shipping Weight: 100 lbs

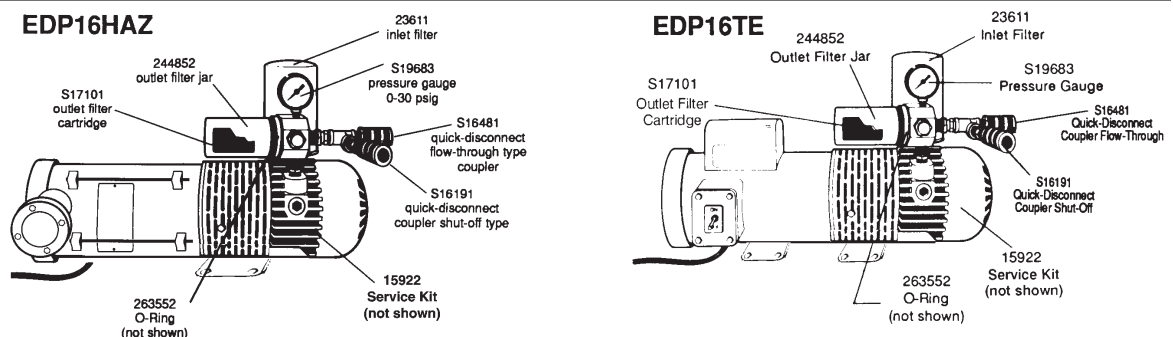


### EDP16HAZ

#### Two to Three Person Hazardous Duty Pump (Not Pictured)

- 1 1/2 HP electric-driven, oil-less air pump with hazardous-duty motor
- Supplies air to two hood-style or three half or full face mask airline respirators
- Inlet and outlet filter cartridges
- Pressure gauge (0-30 psig)
- Starter/contacter to be supplied by user
- Two 1/2" Industrial Interchange (Hansen compatible) quick-disconnect couplers
- Shipping Weight: 100 lbs.

## EDP16 Replacement Parts



### 15922

#### Service Kit

- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge



### S19683

#### Pressure Gauge, 0-30 PSI



### S16191

#### Quick-Disconnect Coupler

- 1/2" Industrial Interchange (Hansen compatible), shut-off
- 3/8" NPT Pipe Thread



### S16481

#### Quick-Disconnect Coupler

- 1/2" Industrial Interchange (Hansen compatible), flow-through
- 3/8" NPT Pipe Thread



# Free-Air<sup>®</sup> Pumps

## EDP16HAZ/EDP16TE Replacement Parts

23611	<b>Inlet Filter</b> <ul style="list-style-type: none"><li>• Change every 500 hours or as required</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 &amp; EDP50</li></ul>	
244852	<b>Outlet Filter Jar</b>	
263552	<b>Outlet Filter Assembly O-Ring</b>	
S17101	<b>Outlet Filter</b> <ul style="list-style-type: none"><li>• Carbofine (change every 200 hours or as required)</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50</li></ul>	
S17931	<b>Cleaning Solvent, 14 oz. Aerosol Can</b>	
V22	<b>Quick-Disconnect Coupler Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 3/8" Female NPT</li></ul>	
V23	<b>Quick-Disconnect Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to single 3/8" Female NPT</li></ul>	
V24	<b>Quick-Disconnect Coupler Splitter/Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 1/2" Industrial Interchange female couplers (one flow through, one shut-off)</li></ul>	
V50EX	<b>Remote Extension Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to V50IN to extend length</li><li>• Maximum five per pump</li><li>• 1 1/2" ID</li></ul>	
V50IN	<b>Remote Inlet Air Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to pump for remote location of inlet filter</li><li>• Maximum one per pump</li><li>• 1 1/2" ID</li></ul>	



# Free-Air® Pumps

## Electric Driven Pumps

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### Electric Driven, Oil-less Air Pump

- All motors are open drip-proof.
- Supplies air to:
  - Four hood-style; or
  - Six half or full face mask airline respirators; or
  - Two hood-style respirators equipped with FRIGITRON® climate control devices.
- Respirators must be approved to operate on 30 psig or less.
- Shipped complete with inlet and outlet filter cartridges, pressure gauges, pressure relief valves and one air supply hose quick-disconnect pod with six 1/2" Industrial Interchange (Hansen compatible) quick-disconnect couplers.
- Three phase motors come standard with protective reversing starters to prevent running backwards.
- Shipping weight: 292 lbs.



**NOTE:** EDP30 pumps are custom built to your specifications. Contact Bullard Customer Service for lead time information.

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**EDP30A208    Single Phase 5 HP Motor, 208 Volt**

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**EDP30A230    Single Phase 5 HP Motor, 230 Volt**

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**EDP30B208    Three Phase 5 HP Motor, Reversing Starter, 208 Volt**

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**EDP30B230    Three Phase 5 HP Motor, Reversing Starter, 230 Volt**

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**EDP30B460    Three Phase 5 HP Motor, Reversing Starter, 460 Volt**

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**EDP30C208    Three Phase 7.5 HP Motor, Reversing Starter, 208 Volt**

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**EDP30C230    Three Phase 7.5 HP Motor, Reversing Starter, 230 Volt**

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**EDP30C460    Three Phase 7.5 HP Motor, Reversing Starter, 460 Volt**



# Free-Air® Pumps

## EDP30 Replacement Parts

V60	<b>Pod Extension Hose</b> <ul style="list-style-type: none"><li>• 100 Feet</li><li>• 1 1/4" I.D.</li><li>• Three per pod maximum</li></ul>	
26701	<b>Pod Gasket (Filter Side)</b>	
27161	<b>Pod Gasket (Cover Side)</b>	
28151	<b>EDP30 Pressure Relief Valve</b>	
28152	<b>EDP50 Pressure Relief Valve</b>	
S16191	<b>Quick-Disconnect Coupler</b> <ul style="list-style-type: none"><li>• 1/2" Industrial Interchange (Hansen compatible), shut-off</li><li>• 3/8" NPT pipe thread</li></ul>	

# Free-Air® Pumps

## EDP30 Replacement Parts

- 
- S19683**      **Pressure Gauge, 0-30 PSI**  
• For EDP30 and EDP50 pod



- 
- S19688**      **Pressure Gauge, 0-60 PSI**  
• For EDP30 and EDP50 manifold



- 
- S2084**      **EDP30 Drive Belt (Matched Pair)**



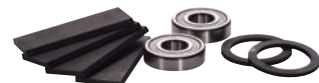
- 
- S2089**      **Kamlok Adapter (Pod)**  
• 1 1/4" ID aluminum



- 
- S2090**      **Kamlok Coupler (Manifold)**  
• 1 1/4" ID aluminum



- 
- 15924**      **Service Kit**  
• Four carbon vanes  
• Two bearings  
• Two cover gaskets



# Free-Air<sup>®</sup> Pumps

## EDP30 Replacement Parts

23611	<b>Inlet Filter</b> <ul style="list-style-type: none"><li>• Change every 500 hours or as required</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 &amp; EDP50</li></ul>	
244852	<b>Outlet Filter Jar</b>	
263552	<b>Outlet Filter Assembly O-Ring</b>	
S17101	<b>Outlet Filter</b> <ul style="list-style-type: none"><li>• Carbofine (change every 200 hours or as required)</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50</li></ul>	
S17931	<b>Cleaning Solvent, 14 oz. Aerosol Can</b>	
V22	<b>Quick-Disconnect Coupler Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 3/8" Female NPT</li></ul>	
V23	<b>Quick-Disconnect Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to single 3/8" Female NPT</li></ul>	
V24	<b>Quick-Disconnect Coupler Splitter/Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 1/2" Industrial Interchange female couplers (one flow through, one shut-off)</li></ul>	
V50EX	<b>Remote Extension Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to V50IN to extend length</li><li>• Maximum five per pump</li><li>• 1 1/2" ID</li></ul>	
V50IN	<b>Remote Inlet Air Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to pump for remote location of inlet filter</li><li>• Maximum one per pump</li><li>• 1 1/2" ID</li></ul>	





# Free-Air® Pumps

## Electric Driven Pumps

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### Electric Driven, Oil-less Air Pump

- All motors are open drip-proof.
- Supplies air to:
  - Seven hood-style; or
  - Ten half or full face mask airline respirators.
- Respirators must be approved to operate on 15 psig or less.
- Shipped complete with inlet and outlet filter cartridges, pressure gauges, pressure relief valves and two air supply hose quick-disconnect pods with six 1/2" industrial interchange (Hansen compatible) quick-disconnect couplers.
- Three phase motors come standard with protective reversing starters to prevent running backwards.
- Shipping weight: 317 lbs.



**NOTE:** EDP50 pumps are custom built to your specifications. Contact Bullard Customer Service for lead time information.

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**EDP50A208    Single Phase 5 HP Motor, 208 Volt**

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**EDP50A230    Single Phase 5 HP Motor, 230 Volt**

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**EDP50B208    Three Phase 5 HP Motor, Reversing Starter, 208 Volt**

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**EDP50B230    Three Phase 5 HP Motor, Reversing Starter, 230 Volt**

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**EDP50B460    Three Phase 5 HP Motor, Reversing Starter, 460 Volt**

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**EDP50C208    Three Phase 7.5 HP Motor, Reversing Starter, 208 Volt**

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**EDP50C230    Three Phase 7.5 HP Motor, Reversing Starter, 230 Volt**

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**EDP50C460    Three Phase 7.5 HP Motor, Reversing Starter, 460 Volt**



# Free-Air<sup>®</sup> Pumps

## EDP50 Replacement Parts

V60	<b>Pod Extension Hose</b> <ul style="list-style-type: none"><li>• 100 Feet</li><li>• 1 1/4" ID</li><li>• Three per pod maximum</li></ul>	
26701	<b>Pod Gasket (Filter Side)</b>	
27161	<b>Pod Gasket (Cover Side)</b>	
28151	<b>EDP30 Pressure Relief Valve</b>	
28152	<b>EDP50 Pressure Relief Valve</b>	
S16191	<b>Quick-Disconnect Coupler</b> <ul style="list-style-type: none"><li>• 1/2" Industrial Interchange (Hansen compatible), shut-off</li><li>• 3/8" NPT pipe thread</li></ul>	

# Free-Air® Pumps

## EDP50 Replacement Parts

- 
- S19683**      **Pressure Gauge, 0-30 PSI**  
• For EDP30 and EDP50 pod



- 
- S19688**      **Pressure Gauge, 0-60 PSI**  
• For EDP30 and EDP50 manifold



- 
- S2085**      **EDP50 Drive Belt (Matched Pair)**



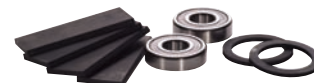
- 
- S2089**      **Kamlok Adapter (Pod)**  
• 1 3/4" ID aluminum



- 
- S2090**      **Kamlok Coupler (Manifold)**  
• 1 3/4" ID aluminum



- 
- 15924**      **Service Kit**  
• Four carbon vanes  
• Two bearings  
• Two cover gaskets



# Free-Air® Pumps

## EDP50 Replacement Parts

23611	<b>Inlet Filter</b> <ul style="list-style-type: none"><li>• Change every 500 hours or as required</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 &amp; EDP50</li></ul>	
244852	<b>Outlet Filter Jar</b>	
263552	<b>Outlet Filter Assembly O-Ring</b>	
S17101	<b>Outlet Filter</b> <ul style="list-style-type: none"><li>• Carbofine (change every 200 hours or as required)</li><li>• One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50</li></ul>	
S17931	<b>Cleaning Solvent, 14 oz. Aerosol Can</b>	
V22	<b>Quick-Disconnect Coupler Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 3/8" Female NPT</li></ul>	
V23	<b>Quick-Disconnect Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to single 3/8" Female NPT</li></ul>	
V24	<b>Quick-Disconnect Coupler Splitter/Adapter</b> <ul style="list-style-type: none"><li>• Converts pump's quick-disconnect coupler to double 1/2" Industrial Interchange female couplers (One flow-through, one shut-off)</li></ul>	
V50EX	<b>Remote Extension Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to V50IN to extend length</li><li>• Maximum five per pump</li><li>• 1 1/2" ID</li></ul>	
V50IN	<b>Remote Inlet Air Hose Kit</b> <ul style="list-style-type: none"><li>• 50-ft. length</li><li>• Connects to pump for remote location of inlet filter</li><li>• Maximum one per pump</li><li>• 1 1/2" ID</li></ul>	



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