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Terms and Conditions

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 $1^1/_2$ 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**.

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 5:00 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**.

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!

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bullard

Mining • Food Processing • Forestry

Transportation • Emergency Response • Utilities • Construction

Head, Face, and Hearing Protection

Warnings, Regulations and Standards for Head Protection

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.

Types of Hard Hats

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

Type II – 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.

CAN/CSA Z94.1-2005 is the 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.

The following Bullard hard hats and helmets meet the revised ANSI Z89.1-2003 and/or CSA Z94.1-2005 standards:

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

> **⚠ 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.

Warnings, Regulations and Standards for Face and Hearing 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			

ANSI S3.19-1974 – American National Standard for Hearing Protection

ANSI S3.19-1974, Method for the Measurement of Real-Ear Protection of Hearing Protectors and Physical Attenuation of Earmuffs, is the standard currently used and cited in 40 CFR 211. It describes a laboratory test procedure where test subjects are given hearing tests, then are tested again with the Hearing Protection Device (HPD) in place. The difference between how they hear with and without the HPD, with some statistical corrections thrown in, should be a good reflection of how much protection the devices provide.

Each model in the Bullard NRZone® and SafeCom® Series of hearing muffs and accessories meet or exceed ANSI S3.19-1974.

Advanced Head Protection - ADVENT® Helmet

The ADVENT. 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

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

Economical

ADVENT is affordable - 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.

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. Sure-Lock® 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.
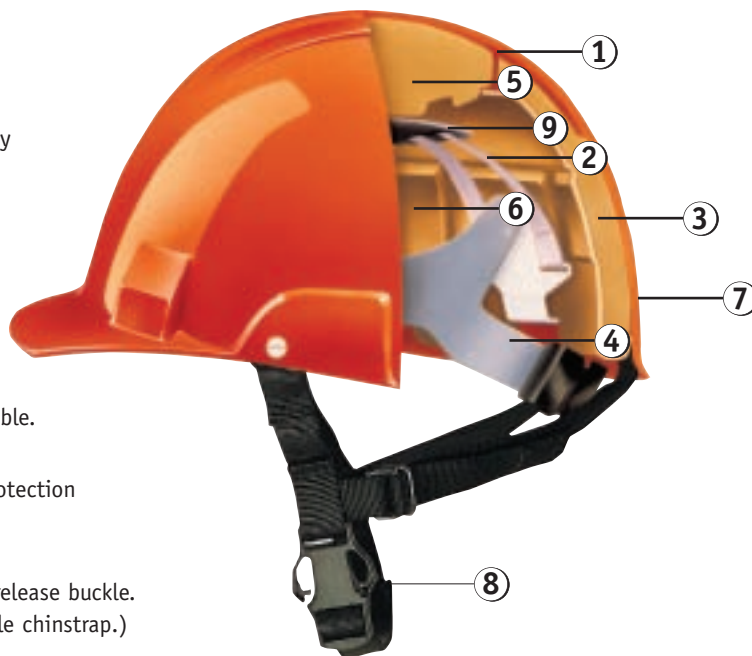
7. Outer Shell of Thermoplastic
Provides superior impact and penetration protection
over a wide range of temperatures.

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 Sure-Lock® 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

Available in five standard colors: White, Yellow, Red, Kentucky Blue and Orange.

Advanced Head Protection - VECTOR™ Helmet

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.

Protection

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 Sure-Lock® ratchet suspension, VECTOR offers advanced protection at a competitive price. A two-point chinstrap and heavy-duty polycarbonate faceshield are available as options.

Comfort

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.

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.

Value

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 II 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.

Advanced Head Protection - VECTOR™ Helmet

Advanced Levels of Protection

1. **Outer Shell of Polyethylene** – comfortable 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 comfort.

4. **Ventilation Channels** – help keep wearer cooler and more comfortable.

5. **Sizing Mechanism** – choose from either the Sure-Lock® ratchet or self-sizing suspension.
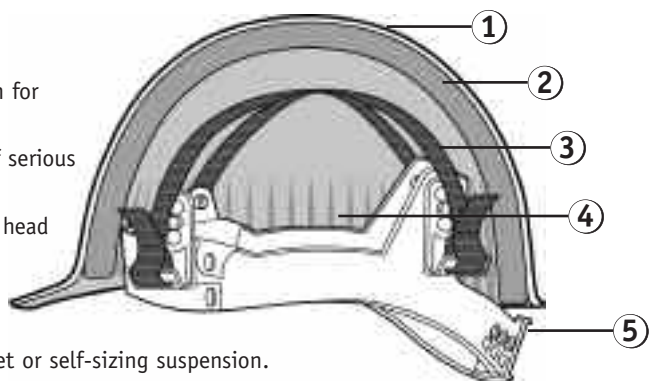
VECTOR-C **Helmet with self-sizing suspension**

- 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 Sure-Lock® ratchet suspension**

Same as Model VECTOR-C above with

- 4-point Sure-Lock ratchet suspension (VTRT600)
- Case quantity: 10

Available in White, Yellow, Red, Kentucky Blue, Navy Blue, Forest Green, Orange, Hi-Viz Orange and Hi-Viz Yellow.

Head Protection

Advanced Head Protection

ADVENT® Replacement Parts and Accessories

ADRTSL   **Suspension for ADVENT**
- 8-point Sure-Lock® 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 Sure-Lock 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
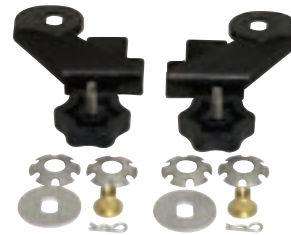
ADVENT® and VECTOR™ Replacement Parts

A110	**Chinstrap for ADVENT or VECTOR**
	• 2-point nylon chinstrap
	• Quick-release buckle

ADFB	**Accessory Blades**
	• For mounting 4" or 6" firefighter 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

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

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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

For additional customization options, please see to the Decoration section on pages 26-33.

Classic Series Hard Hats and Caps

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

Comfort

Featuring a wider profile than most hard hats, Classic caps and hats offer increased protection from rain, snow, dust and harmful ultraviolet (UV) rays. The six-point suspension, standard in all Classic Series products, has 1" (2.54 cm) wide nylon straps, providing increased balance and comfort. The full-profile shell also enhances ventilation.

Select either the RS6PC self-sizing suspension or the RS6RC Flex-Gear® non-slip ratchet suspension. Both suspensions feature an exclusive replaceable, cotton brow pad for superior absorbency and comfort. Snap-on replacement brow pads are available in cotton, vinyl and Polartec® cooling materials. Vertical adjustments can be made in the front and rear (without removing the suspension) for a truly customized fit.

Versatility

With a variety of shell styles and material offerings, each Classic Series hard cap and hat offers unique benefits to the wearer. Cap style models come equipped with accessory slots for mounting a variety of attachments including faceshields, welding helmets, earmuffs and headsets. Full-brim models offer additional sun and glare protection and enhanced ventilation. Choose from polyethylene or high-heat material options.

Brow pads on all Classic Series hard hats are replaceable. Replacement brow pads can easily be snapped on in place of or over the original pad. This feature, combined with the choice of vinyl, cotton or a special cooling material, ensures the right comfort level and protection for the wearer.

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 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.

Head Protection

Classic Series Hard Hats and Caps

C30 **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 C30 model 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

C33 **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 C33 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

For additional customization options and shell color chart, see the Decoration section on pages 26-32.
For Bullard faceshield bracket and visor offerings, see the Face Protection section on pages 41-47.
For Bullard earmuff offerings, see the Hearing Protection section on pages 37-40.

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's Model 911C and 911H are ideal for utilities, welding, foundries and steel mills. Select either the ESULTRA self-sizing suspension or the ESRTSL Sure-Lock® non-slip ratchet suspension. Both suspensions feature 1" (2.54 cm) wide nylon straps and an exclusive Sportek™ terrycloth-like 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.

911C	**High Heat Cap**

- High-heat resistant thermoplastic outer shell
- 6-point self-sizing suspension (ESULTRA)
- Sportek brow pad (TT1)
- 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 911C model above with
- 6-point Sure-Lock® ratchet suspension (ESRTSL)
- Sportek brow pad (TT2)
- Case quantity: 20; minimum order: 10

911C

911H   **High Heat Hat**
- High-heat resistant thermoplastic outer shell
- Full brim model
- 6-point self-sizing suspension (ESULTRA)
- Sportek brow pad (TT1)
- 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 911H above with
- 6-point Sure-Lock ratchet suspension (ESRTSL)
- Sportek brow pad (TT2)
- Case quantity: 10; minimum order: 10

911HR

Refer to the Decoration section on pages 26-32 for additional customization options and shell color chart.
Refer to the Face Protection section on pages 41-47 for Bullard faceshield bracket and visor offerings.
Refer to the Hearing Protection section on pages 37-40 for Bullard earmuff offerings.

Head Protection

"The Standard" Series

The Standard...setting the standard for comfort, style and versatility.

The Standard by Bullard takes style and comfort 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.

Comfort

The Standard Series of hats is available with two nylon suspension options: self-sizing or ratchet. Both suspension styles have large, pillowed, replaceable brow pads. Models S61, S62 and S71 come standard with a cotton brow pad. Model S51 comes standard with a poly brow pad.

The Bullard patented Flex-Gear® ratchet suspension is designed with built-in flex points that allow the ratchet housing to conform to the back of the worker's head, ensuring a snug, comfortable fit. The nape cushion adds to the comfort and overall fit of the suspension.

Easy to adjust vertical height settings, two front and two rear, provide a customized fit which will increase wear time and worker compliance. All vertical height adjustment settings ensure that the hard hat remains centered on the head.

The Standard is also offered in a vented design (Model S62). The vented model offers increased air circulation, resulting in optimal worker comfort.

The Standard Series also includes a full-brim style (S71) for additional protection from exposure to sun and rain.

Style

The low-profile shell design of the Standard cap combines a perfect fit with a look that workers prefer. The sleek, trim shell profile is the most stylish in the industry.

Hard hat colors can be used to identify different job functions, trades or departments within an organization. With this in mind, Bullard has chosen 16 of the most popular shell colors for its standard color offering. Many custom and special colors are also available upon request. Contact Bullard's Customer Service department for details.

Versatility

The Standard Series hard hats come equipped with accessory slots for mounting a variety of attachments including faceshields, welding helmets, earmuffs and headsets.

Brow pads on all Standard Series hard hats are replaceable. Replacement brow pads can easily be snapped on in place of or over the original pad. This feature, combined with the choice of vinyl, cotton or a special cooling material, ensures the right comfort level and protection for the wearer.

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 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. Your company's logo can be printed in up to eight locations around the hard hat. Reflective or non-reflective stripes can also be applied to increase worker visibility. No other manufacturer offers a decoration program that is as easy, fast or reliable.

The Standard Series Hard Hats and Caps

S51 **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 S51 model above with
- 4-point Flex-Gear® ratchet suspension with poly brow pad (RS4RP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 20; minimum order: 20

S61 **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 S61 above with
- 4-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS4RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 20; minimum order: 20

S62 **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 S62 above with
- 4-point Flex-Gear ratchet suspension with large, absorbent cotton brow pad (RS4RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 20; minimum order: 20

S71 **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 S71 above with
- 4-point Flex-Gear ratchet suspension
  with large, absorbent cotton brow pad (RS4RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Case quantity: 10; minimum order: 20

For additional customization options and shell color chart, see the Decoration section on pages 26-32.
For Bullard faceshield bracket and visor offerings, see the Face Protection section on pages 41-47.
For Bullard earmuff offerings, see the Hearing Protection section on pages 37-40.

Head Protection

Classic and Standard Series Hard Hats and Caps

Classic Series Replacement Parts and Accessories

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

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

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

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

Please Note: Models 3000 and 303 were replaced by Models C30 and C33 in December 2006.

Classic and Standard Series Hard Hats and Caps

Standard Series Replacement Parts and Accessories

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

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

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

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

Head Protection

Classic and Standard Series Hard Hats and Caps

Classic and Standard Series Replacement Parts and Accessories
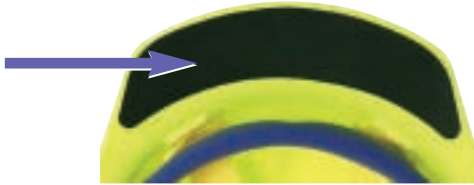
RBPCOTTON **Brow Pad**
- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions

RBPVINYL **Brow Pad**
- Vinyl replacement brow pad
- Snap on - fits all Bullard suspensions

RBPCOOL **Brow Pad**
- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions

TT1 **Sportek™ Replacement Brow Pad**
- For 6-point ESULTRA self-sizing suspension

TT2 **Sportek™ Replacement Brow Pad**
- For 6-point ESRTSL ratchet suspension

R160 **Ratchet Cover**
- Leather ratchet cover
- Fits all Bullard ratchet suspensions

ES42 **Chinstrap**
- Elastic chinstrap
- For Models C30, C33, 911C, 911H, S51, S61, S62, S71, 3000, 302RT, 303 and MK2V

R50 **Chinstrap**
- Nomex® chinstrap with postman's slide fastener
- For Models C30, C33, 911C, 911H, S51, S61, S62, S71, 3000, 302RT, 303 and MK2V

GC100 **Goggle Clips**
- Self-adhesive
- Set of three

30013 **Slot Plugs**
- Flexible plugs for hard hat accessory slots
- Set of two
- For Models C30, S51, S61, S62, 3000 and 302RT

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's 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

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

SS6   **Sun Shield**
Same as Model SS5 above
- Fits Models C33, S71, 911H and 3000

UBG   **Underbrim Anti-Glare Decal**
- Reduces glare
- For all helmets, hard hats and caps

For Bullard faceshield bracket and visor offerings, see the Face Protection section on pages 41-47.
For Bullard earmuff offerings, see the Hearing Protection section on pages 37-40.
For additional personal cooling options, see the Isotherm® section on pages 48-49.

Head Protection

Classic and Standard Series Hard Hats and Caps

Reflective Striping 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.

Standard stripe colors for ST1R, ST2R and STRSS are white (silver), red, orange, yellow, green and blue. 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

ST1R — **Reflective Stripe (available colors listed above)**
- Reflective single-color stripe for application around brim of cap/hat
- $1 \frac{1}{16}$" wide x 23" long

ST1R500 — **Highly Reflective Strip**
- 500 CPL silver stripe for application around brim of cap/hat
- $1 \frac{1}{16}$" wide x 23" long

ST1RORG175 — **Fluorescent Reflective Stripe**
- 175 CPL orange stripe for application around brim of cap/hat
- $1 \frac{1}{16}$" wide x 23" long

ST2R — **Single-color Stripes (available colors listed above)**
- Reflective single-color stripe for application between ribs of cap/hat
- $1 \frac{3}{4}$" wide x 17" long

Striping Options for Standard Series

STRSS — **Reflective Stripe (available colors listed above)**
- Reflective single-color stripe for application around brim of cap/hat
- 1" wide x $21 \frac{1}{2}$" long

STRSS500 — **Highly Reflective Strip**
- 500 CPL silver stripe for application around brim of cap/hat
- 1" wide x $21 \frac{1}{2}$" long

STRSSORG175 — **Fluorescent Reflective Stripe**
- 175 CPL orange stripe for application around brim of cap/hat
- 1" wide x $21 \frac{1}{2}$" long

Classic and Standard Series Hard Hats and Caps

Reflective Strips for Classic and Standard Series Hats and Caps

R538	**Retro-Reflective Strip** • Set of three white Scotchlite® strips • 1" x 4"

R540	**Retro-Reflective Strip** • Set of three lime-yellow Scotchlite strips • 1" x 4"

R541	**Retro-Reflective Strip** • Set of three red-orange Scotchlite strips • 1" x 4"

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/ST2RRED	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

For additional customization options and a hard hat shell color chart, refer to the Decoration section on pages 26-32.

Decoration for Hard Hats and Caps

Put your hard hat to work for you!

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.

Custom decoration has never been easier. With Bullard's quick and easy decoration program there are no artwork charges, no set-up charges, and proofs are provided free of charge for every new logo. There is only a 20 piece minimum, and our delivery is the quickest in the industry. Submit your artwork today and use your hard hat to its fullest potential!

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.

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	✓	✓	✓	✓	✓
Yellow	YL	109C	✓	✓	✓	✓	✓
Fire Engine Red	RD	186C	✓	✓	✓	✓	✓
Kentucky Blue	KB	301U	✓	✓	✓	✓	✓
Orange	OR	173C	✓	✓	✓	✓	✓
Forest Green	FG	3425C		✓	✓		✓
Chocolate Brown	CB	469			✓		✓
Dove Gray	DG	424C			✓		✓
Tan	TN	729C			✓		✓
Hi-Viz Orange	HO	811C		✓	✓		✓
Hi-Viz Yellow	HY	387C		✓	✓		✓
Hi-Viz Green	XX	361C			✓		✓
Kelly Green	KG	348C			✓		✓
Pacific Blue	PB	300C			✓		✓
Light Pink	LP	1895C			✓		✓
Gull Gray	GG	428C			*		*
Sky Blue	SK	2985C			*		*
Slate Blue	SL	549C			*		*
Navy	NB	2757C		✓	*		*
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.

Head Protection

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)	3"	4"	3"
	Height	3"	1 $^3/_4$"	3"
C30, C33,	Width (length)	2 $^3/_4$"	4"	2 $^3/_4$"
911C, 911H	Height	2 $^1/_2$"	1 $^3/_4$"	2 $^1/_2$"
S61, S62	Width (length)	2 $^1/_4$"	3 $^1/_4$"	2"
	Height	2"	1 $^1/_2$"	2"
S71	Width (length)	2"	3 $^3/_4$"	2 $^3/_4$"
	Height	2"	1 $^3/_4$"	1 $^3/_4$"
S51	Width (length)	2 $^1/_8$"	4"	2 $^3/_4$"
	Height	2 $^3/_4$"	1 $^3/_4$"	2 $^1/_2$"
MK2V	Width (length)	3"	N/A	N/A
	Height	2"	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

Quick and Easy Program

The Bullard decoration program is the best in the industry. It has never been easier to customize your hard hat or cap! Here's why:

Minimums

Only 20 piece minimum order required for custom logo work on all Bullard hats and caps. Twenty pieces must be made up of same cap or hat model and color.

Pricing

No hidden charges! No set-up charges! No artwork charges!

Delivery

We will ship your custom hard hat order in four business days or less. Note that decorated hat orders are not entered into the Bullard sales order system until final approval on artwork is received. Our proofing system helps to ensure accurate logo work and customer satisfaction.

Logo Colors

Our advanced pad print technology allows us to print crisp, clear logos in up to six colors.

Printing Locations

The most common locations for printing logos are the front, back and/or sides of the cap. Have another location you want printed? Contact our Customer Service Department for more details on our capabilities.

A Variety of Cap and Hat Models

Decorate any Bullard model you choose! See the logo size chart for on the opposite page for the imprint area size of each model.

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.

Submitting New Artwork

All new artwork must be submitted with a completed Decoration Order Form (see next page). Make copies of this page for future orders, or visit our website at www.bullard.com to download a copy anytime you need it.

To ensure that the logo is reproduced to your expectations, provide the following information on the Order Form: hat style and color, position(s) of the logo(s) on the hat, PMS color or a sample for matching of all the colors in the logo and any special instructions for printing. Omission of any of this information will result in additional time required to return a proof to you.

Electronic, camera-ready artwork is preferred. Electronic, camera-ready art is defined as a digital file of the logo that has been prepared for printing letterhead, t-shirts, or used in an advertisement or brochure. Artwork may be submitted via e-mail to **bullardart@bullard.com** or supplied on a compact disc and mailed to Bullard, 1898 Safety Way, Cynthiana, KY 41031, Attn: Customer Service.

Electronic submission of a camera-ready file will result in the quickest turnaround of your proof.

Acceptable & Preferred File Types: Camera-Ready Artwork

Deliver superior customized hard hats to your customers...with stunning logos advertising their companies! Bullard offers quick three-day turnaround times for camera-ready artwork proofs. Please submit electronic vector files to Bullard Art at bullardart@bullard.com. Providing camera-ready artwork will give you the sharpest logos with the fastest lead times. Camera-ready files are high-resolution (300 dpi) Mac-based files with the following extensions:

• **.EPS** • **.FH** • **.AI** • **.PDF** *(Please Note: PDF files are considered camera-ready only when saved in editable text and graphics format.)*

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 been **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.

Non Camera-Ready Artwork

We want to reproduce your customer's logo in the highest quality possible. However, if you cannot obtain camera-ready artwork, we can re-create a logo for you from the following files. Please Note: The file types listed below will require a longer lead time of five days for proofs:

• .TIFF • .JPEG • .PDF

You may still mail hard copy samples of the artwork, such as letterhead, business cards or camera-ready art on high quality paper (not inkjet or laser print outs). However, these samples should be clear, simple one-color designs or multi-color designs if the colors do not touch. A higher quality sample will produce the best reproduction.

Proofs can be returned to you via e-mail, UPS or FedEx, or in the case of a black and white proof, via fax. The proof will provide information on the final printed size of the logo, hat style, imprint colors and position on the hat.

Note that ink color may vary slightly when printed on different hard hat colors. We do not recommend printing light colors on dark color hats. The hat color may show through the ink and result in a less than desirable reproduction of the logo.

A sample "capability" cap with our logo capabilities can be ordered at no charge to the customer.

Reordering is a breeze! Bullard assigns "pad print" numbers that are unique to every logo we produce. Your new pad print logo number will be sent to you in the form of an order acknowledgement. Simply refer to these pad print numbers and the logo description on future orders to ensure that the correct logo is retrieved.

Decoration for Hard Hats and Caps

Bullard®
It's your life and you're worth it™

DECORATION ORDER FORM

Distributor: _____ Contact: _____ PO#: _____

Logo: _____

Phone: (_____)_____ Fax: (_____)_____

Style: _____ Color: _____ Suspension: ☐ Ratchet ☐ Standard

LOGO INFORMATION

MARK THE POSITION OF LOGO AND TEXT ON EACH LOCATION.

Front	Back	Left	Right

Colors   Colors

Front	Back	Left	Right
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

REFLECTIVE STRIPING

☐ ST1R (around brim)   Colors: _____   ☐ Custom (Call for pricing and minimums)

☐ ST2R (between ribs)   Location: _____   Notes: _____

BULLARD USE ONLY

Part No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]   SO# [ ][ ][ ][ ][ ]

Prod. Desc. [_____]

Ship Date [ ][ ][ ][ ][ ][ ]   Qty. [ ][ ][ ][ ][ ]   Bullard Contact: _____

Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**
Pad Print #:	**Color:**	**Location:**

Special Instructions:

Decoration for Hard Hats and Caps

Bullard®
It's your life and you're worth it™

FIRST BASE BUMP CAP
CUSTOM EMBROIDERY ORDER FORM

BULLARD USE ONLY

Bullard Sales Order No.:_____
Ship To #: _____
Logo No.: _____
Logo Desc.: _____

CONTACT INFORMATION

Account: _____   Customer P.O. #: _____

Contact: _____   Phone: _____

Address: _____   Fax: _____

_____   Date Submitted: _____

_____

HAT INFORMATION

Cap Style: FB2000 (ventilated)   ❑   Cap Shell Color: _____

FB2001 (non-ventilated)   ❑

LOGO INFORMATION

DRAW HOW LOGO AND TYPE ARE TO APPEAR ON CAP.

ATTENTION!
Maximum Logo Size:
Width: 4 1/2"
Height: 2 1/2"

Description of front logo (include name of font used in logo if you are not supplying camera-ready artwork):
_____

Colors in Logo (Six color maximum, reference Pantone Colors): _____

FAX BACK COMPLETED FORM WITH PURCHASE ORDER TO BULLARD CUSTOMER SERVICE AT (FAX) 800-877-1858

BULLARD USE ONLY

❑ Add
❑ Change

Part No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]   Product Type [ ][ ][ ][ ]   Qty [ ][ ][ ][ ][ ]

Logo Desc. [ ]

I.S. Rep: _____   Ext: _____   Date Issued: _____

Customer Bill-To #: _____   Customer Ship-To #: _____

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:

THINK SAFETY
PP290

THINK SAFETY
PP24689

PP6460

VISITOR
PP5009

SAFETY FIRST
PP24870

Safety depends on You!
PP6122

SINCE 1919
Bullard
PP24019

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.

DENHAM BLYTHE
561 GOLD HAT
PANTONE WHITE FRONT
PANTONE GOLD FRONT
PANTONE BLACK FRONT
W 2.75 INCHES
H 1.72 INCHES
BULLARD DISTRIBUTOR NAME

Bullard

DENHAM - BLYTHE

Please review this proof carefully! Signing this paper proof is a binding acknowledgement that this layout is correct. You are responsible for any products produced in accordance with this layout approved on this page. Production can not begin without your authorization. Please fax this approval back as soon as possible to 800-877-6858 so that we may begin production.   Thank you!

Approval signature_____Date_____

© 2007 by Bullard

Actual size: 8 ½ x 11 inches

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

Head Protection

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.

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

For additional customization options and shell color chart, see the Decoration section on pages 26-33.
For Bullard faceshield bracket and visor offerings, see the Face Protection section on pages 41-47.

Head Protection

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

See the Embroidery Order Form on page 31.

Hearing Protection

Hearing Protection from Bullard

Hearing protection is effective only when the correct product is used and workers wear it all of the time. When choosing hearing protectors, the noise levels, as well as the amount of time spent in the environment, must be taken into consideration. Failure to choose the correct level of protection or failure to wear the protector 100% of the time can result in irreversible damage to the user's hearing.

Designed to compliment Bullard head protection products, both SafeCom and NRZone muffs guarantee quality fit and performance. Bullard hearing protection is available in both cap mount and neckband muff styles. Accessories and replacement parts are also available.

SafeCom®

Electronic hearing protection including models COM23 and COM25B, allows wearers to hear surrounding sounds and communicate with those around them without removing the earmuff. The low/high tone control allows for alteration of the sound for optimum clarity.

The most important considerations when choosing hearing protection are noise reduction and worker wear time. With Bullard's SafeCom electronic protectors, 100% wear time can be assured with a level of protection to meet the requirements of the environment. With SafeCom, wearers are able to hear surrounding sounds such as conversations and important warning signals, and communicate with those around them, without removing the ear muff. The built-in electronic protection system (EPS) prevents noise levels beyond 82 dB(A) from going through the speaker. Built in speakers allow lower level sounds to enter the muff with a maximum amplification of 12dB(A). The low/high tone control allows for alteration of the sound for optimum clarity.

NRZone®

Passive hearing protection, including Models ZON22, ZON25 and ZON26B, is for use in various noise work environments. NRZone offers a high level of comfort and performance. Available in both cap mount and neckband styles, Bullard's NRZone muffs ensure that the wearer will be fully protected.

All Bullard hearing protection models are totally dielectric and meet or exceed ANSI S3.19-1974 requirements.

Hearing Protection

Hearing Protection

SafeCom®

COM23   **Cap Mount Hearing Muff**
- NRR 23
- Meets or exceeds ANSI S3.19-1974
- CSA Class B
- Hard hat not included

COM25B   **Neckband Hearing Muff**
- NRR 25
- Meets or exceeds ANSI S3.19-1974
- CSA Class A

NR Zone

ZON22   **Cap Mount Hearing Muff**
- NRR 22
- Meets or exceeds ANSI S3.19-1974
- CSA Class B
- Hard hat not included

ZON25   **Cap Mount Hearing Muff**
- NRR 25
- Meets or exceeds ANSI S3.19-1974
- CSA Class A
- Hard hat not included

ZON26B   **Neckband Hearing Muff**
- NRR 26
- Meets or exceeds ANSI S3.19-1974
- CSA Class A

Hearing Protection

SafeCom® Replacement Parts and Accessories

HKE   **Hygiene Kit**
- Includes two replacement ear cushions and two inner foam
- For use with active listening SafeCom units

BC1   **110 Volt Charger**
- Wall charger for SafeCom muffs

BC2   **12 Volt DC Car Adapter**
- DC vehicle charger for SafeCom muffs

CAB2   **SafeCom Connection Cable**
- For connection between SafeCom muff and 2.5 mm plug
  connection of phone, 2-way radio, MP3 player, etc.

CAB3   **SafeCom Connection Cable**
- For connection between SafeCom muff and 3.5 mm plug
  connection of phone, 2-way radio, MP3 player, etc.

CAB4   **SafeCom Connection Cable**
- For connection between SafeCom muff and 3.5 mm plug/screw
  connection of phone, 2-way radio, MP3 player, etc.

Hearing Protection

NRZone® Replacement Parts and Accessories

HKP   **Hygiene Kit**
- Includes two replacement ear cushions and two inner foam
- For use with passive NRZone units

SafeCom and NRZone Replacement Parts and Accessories

DEP   **Disposable Earpads**
- 100 pair/per box

HMCC   **Hearing Muff Carrying Case**
- For use with ZON26B or COM25B hearing protectors
- Muffs not included

Face Protection

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 6 $\frac{1}{2}$" 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

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
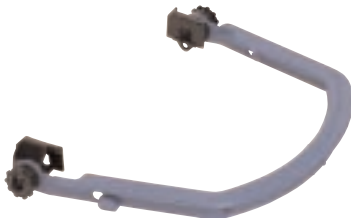
For Bullard visor offerings, see the Face Protection section on pages 45-47.

Face Protection

Aluminum Brackets

100G **Gold Line® Bracket**
- Front mounting aluminum bracket
- For cap style Models C30, S51, S61, S62 and 911C
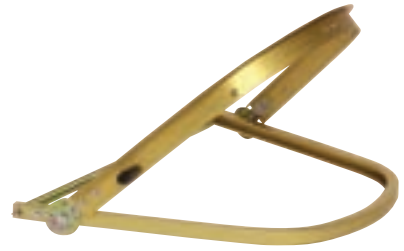
110G **Gold Line Bracket**
- Back mounting aluminum bracket
- For cap style Models C30, 302RT, 911C, FH911C and S51

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

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

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

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

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

Face Protection

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 $2\frac{1}{2}$ hours. The period of cooling depends solely on work activity and environmental conditions. 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

ISO2HY	**Isotherm 2 Hi-Viz Yellow** • Large cooling vest, fits medium to large sizes • Includes vest and one set of packs • Hi-viz yellow, flame retardant fabric
ISO2HYXL	**Isotherm 2 Hi-Viz Yellow Extra-Large** • Extra-large cooling vest, fits exra-large sizes • Includes vest and one set of packs • Hi-viz yellow, flame retardant fabric

ISOTHERM Cool Vest

ISO2   **Isotherm 2**
- Large cooling vest, fits medium to large sizes
- Includes vest and one set of packs
- Dark blue, flame retardant fabric

ISO2XL   **Isotherm 2 Extra-Large**
- Extra-large cooling vest, fits exra-large sizes
- Includes vest and one set of packs
- Dark blue flame retardant fabric

ISO2P   **Replacement Packs**
- For ISO2, large vest
- One set of two packs (front and back)

ISO2V   **Replacement Vest**
- ISO2, large vest
- Includes vest only
- Dark blue, flame retardant fabric
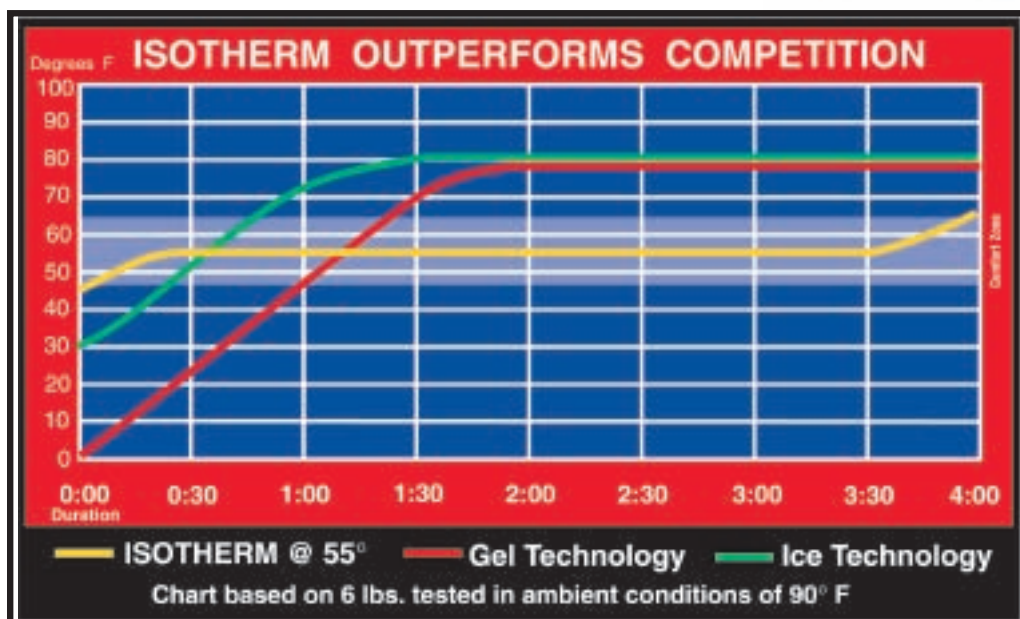
**Constant Temperature Phase-Change
Technology Outperforms Ice and Gel Packs by Hours**

The Turtle Club

Founded 1946

The Turtle Club: For People Who Do Things Right!

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, 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.

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.

The Turtle Club

For People Who Do Things Right!

Below is the testimonial Bullard received from Mr. Rick Hamilton:

Rick Hamilton (left) shown receiving the Bullard Turtle Club Award from Craig Lindsay (right) with Pacesetter Sales (Bullard's Canadian Sales Representative Group). In addition to the Turtle Club hat, Rick also received a membership certificate, membership card, Turtle Club pin and Turtle Club decal.
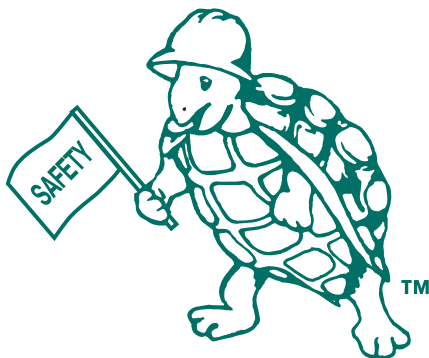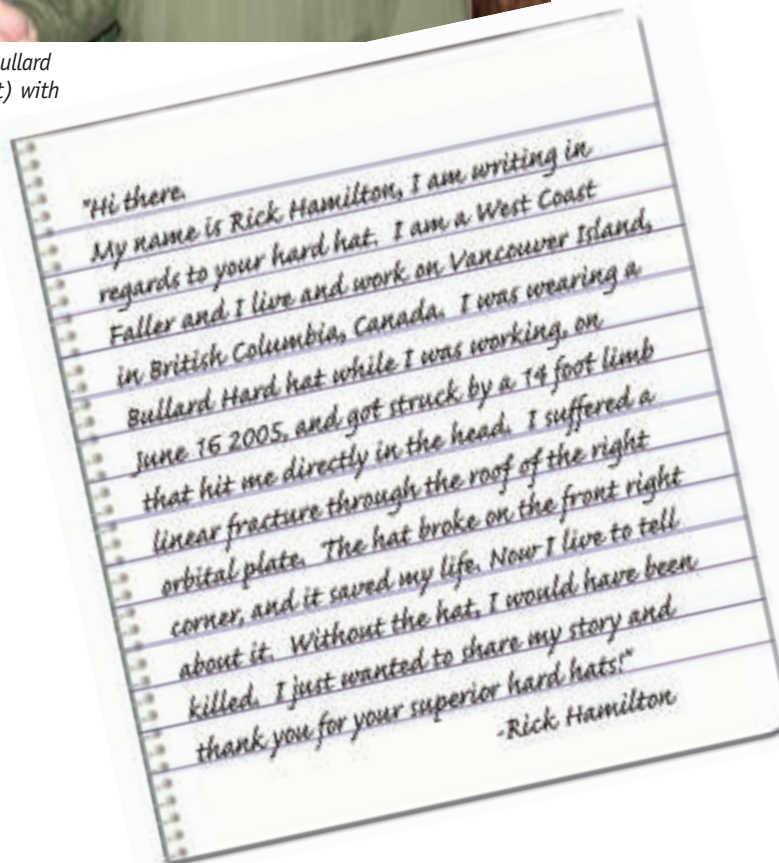
"Hi there,

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

www.bullard.com

Respiratory Protection

DANGER

DANGER

Respiratory Protection

Respirator Types

Bullard manufactures a variety of NIOSH approved respirators, including Supplied Air Respirators (SAR), Powered Air Purifying Respirators (PAPR) and Combination Supplied Air Self-Contained Breathing Apparatus (SAR/SCBA).

Key Respiratory Terms

APF - 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 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 or respirators and the exposure limit of the hazardous substance. MUC = APF x PEL or IDLH concentration (whichever is lower).

NIOSH – National Institute for Occupational Safety & Health (www.cdc.gov/niosh) is a research organization that approves respirators.

OSHA – Occupational Health & Safety Administration (www.osha.gov) is an enforcement agency that ensures workplaces are following the standards detailed in 29CFR1910.134 and other standards.

Agencies

There are numerous agencies that are involved in one or more of the following: testing & 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.

Standards

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

- Oxygen 19.5% - 23.5%
- Hydrocarbons or condensed oil 5 mg/m3 max
- Carbon Monoxide (CO) 10 ppm max
- Carbon Dioxide (CO2) 1,000 ppm max
- No noticeable tastes or smells
- 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) 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) 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.

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

Product Application Matrix	88VX	Lancer	CC20	PA20	PA30	PA40	GR50	PC90	Spectrum	FAMB	Climate Control	41 Series	Free-Air Pumps
Abrasive Blasting	X	X									X	X	X
Painting			X		X	X			X	X	X	X	X
Chemicals			X		X	X		X	X		X	X	X
Pharmaceuticals			X	X	X	X		X	X	X	X	X	X
Healthcare			X	X	X						X		X
Industrial			X	X	X	X	X		X	X	X	X	X
Potent Compounds			X		X	X		X	X		X		
Grinding/Welding							X			X	X	X	X
Confined Space										X			
Domestic Preparedness			X	X	X	X			X		X		X

Respiratory Protection

Protection Factors & Protection Factor Research

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[5]

Type of respirator [1,2]	Quarter mask	Half mask	Full face-piece	Helmet/ hood	Loose-fitting facepiece
1. Air-Purifying Respirator	5	[3]10	50		
2. Powered Air-Purifying Respirator (PAPR)		50	1,000	[4]25/1,000	25
3. Supplied-Air Respirator (SAR) or Airline Respirator					
• Demand mode		10	50		
• Continuous flow mode		50	1,000	[4]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:

[1] 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.

[2] 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.

[3] This APF category includes filtering facepieces, and half masks with elastomeric facepieces.

[4] 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.

[5] 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)(iii).

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 X 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 57 and 97 for the hood/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.
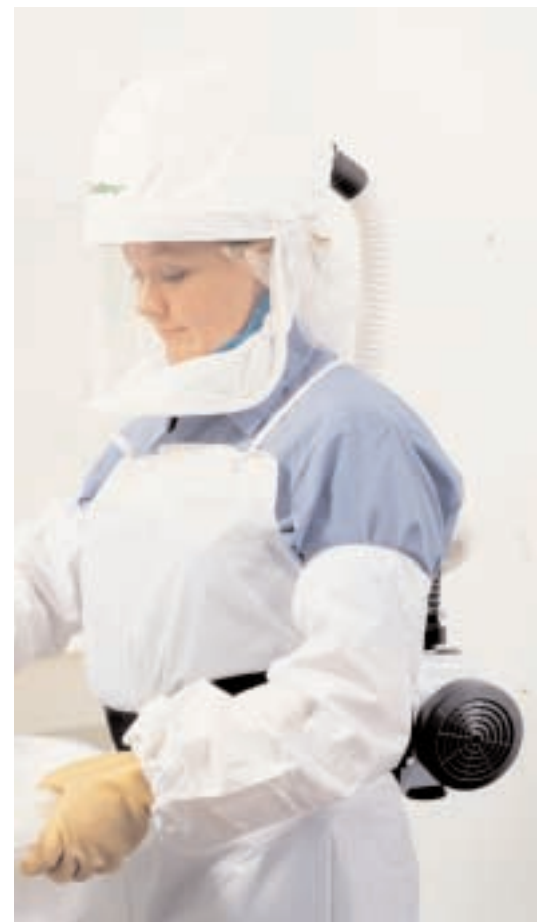
Powered Air Purifying Respirators (PAPRs)

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.

Applications

Bullard PAPR systems are versatile enough to be used in a wide variety of industries including:

•Pharmaceutical Manufacturing

•Healthcare

•Powder Coating

•Nuclear

•Chemical Processing

•Utilities

Superior Protection

Bullard has been a leader in personal protective equipment since 1898 and in respiratory protection for more than 70 years. This experience has helped Bullard design and manufacture innovative PAPRs that deliver up to 33 percent more than the NIOSH requirement and have been recognized by OSHA with Assigned Protection Factors (APFs) of up to 1000. Bullard PAPRs can be configured with filter cartridges for particulate hazards (HEPA), organic vapor, acid gas and particulate combinations, as well as nuclear, biological and chemical hazards (NBC). Bullard PAPRs are available with "in-the-ear" low voltage alarms and/or intrinsically safe certification.

Superior Comfort

Bullard PAPRs are designed for maximum comfort while providing superior protection and value. In general, PAPRs are more comfortable than negative pressure air purifying respirators (APRs) due to the cooling effect of the air flow and the freedom of working without an airline tether. However, Bullard PAPRs take comfort to the next level with some of the most compact, lightweight and ergonomically balanced units available today. Bullard loose-fitting hoods further enhance worker comfort by accommodating facial hair and eyewear with some of the largest viewing lenses in the industry.

Superior Value

Bullard PAPRs complete the trifecta of superior protection, comfort and value with features that give the lowest total cost of ownership. First of all, the 10-hour run time allows the wearer to complete an entire shift without stopping for a battery changeout. Next, NiMH battery technology with available gang charging options eliminates the concerns of battery management and "memory" issues with NiCad technology. Furthermore, the Tychem® hoods used with Bullard PAPRs are also compatible with Bullard Supplied Air Respiratory Systems (SAR), allowing inventory to be consolidated and reduced to a single hood type if necessary. These hoods do not require fit testing, thus eliminating costly equipment, testing administration and record keeping. Finally, Bullard PAPRs have been designed with careful consideration for fast and easy decontamination. In summary, Bullard has engineered superior value into each component of the PAPR system.

Bullard Product Assigned Protection Factors

	Bullard Product	Respirator Type	NIOSH TC #	APF	3rd Party Validation
Powered Air Purifying Respirators	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
For more information or a copy of one of the studies, please contact Bullard at 877-BULLARD.					

* Inner bib models.

PAPR Selection Chart

1. Choose Blower

- **PA1 -** 8-10 to hour Battery and Low Voltage Alarm
- **PA2 -** 6-hour Battery, No Alarm
- **PA3**
- **PA3IS** - Intrinsically Safe
- **PA4**

2. Choose Belt
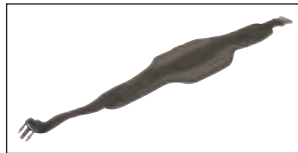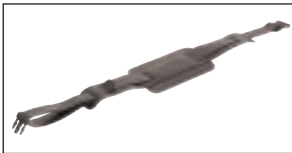
- **PA1SB -** Nylon Standard Belt, Comfort Pad
- **PA1DB -** Vinyl Decon Belt

3. 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 Facepice, Medium
- **20LFL -** Loose-Fitting facepiece, Large

- **RT1 -** Tychem QC Double Bib Hood with Extra-Large Lens
- **RT2 -** Tychem SL Saranex Coated Double Bib Hood with Extra-Large Lens and Taped Seams

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

4. Choose Suspension or Hard Hat

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

- **20TG -** Adjustable Headband Suspension

- **C30 -** 6-point Self-Sizing Suspension, Full Profile
- **C30R -** With 6-point Flex-Gear Ratchet Suspension

- **S51 -** 4-point Self -Sizing Suspension, Low Profile
- **S51R -** With 4-point Flex-Gear Ratchet Suspension

- **20NC -** Chinstrap, for Hoods
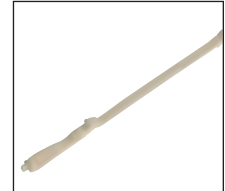
- **ES42 -** Chinstrap, for Hard Hats

5. Choose Breathing Tube

- **PA1BT -** 26" Breathing Tube Assembly for Hoods
- **PA1BXS -** 22" Breathing Tube Assembly for Hoods
- **PA20LFBT -** 33" Breathing Tube for Loose-Fitting Facepiece
- **PAFLFBTXS -** 26" Breathing Tube for Loose-Fitting 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

PA20 Series 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

PA20 Performance*
Airflow vs. Time

(Airflow - CFM vs. Time - Hours)
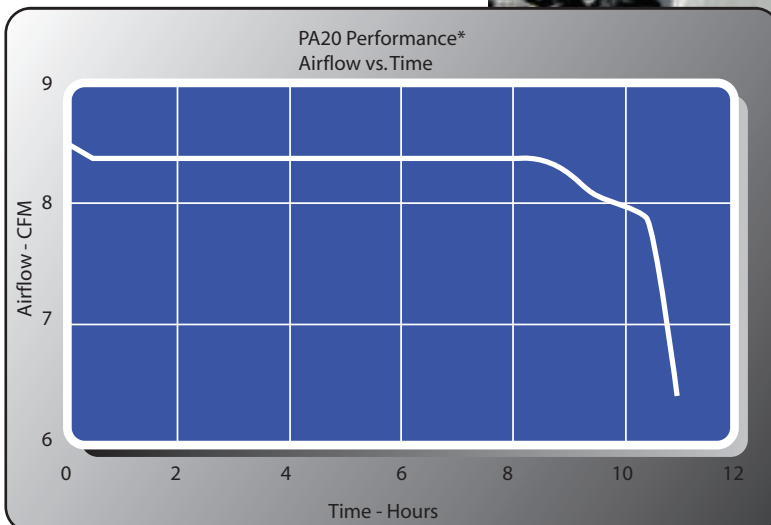
*Performance of a fully configured PA20 System: PA1 Blower Unit and 20TIC Hood

Powered Air-Purifying Respirators

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
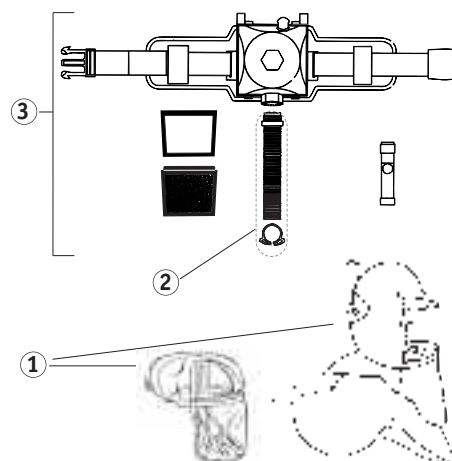
PA20 Series Assemblies (HEPA only protection)

PAPRs with 20LFL Loose-Fitting Facepiece
- Assemblies include blower with internal battery, charger and air flow indicator

PA20LFLDB	8 to 10-hour Battery with Decon Belt and Low Voltage Alarm
PA20LFLSB	8 to 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	8 to 10-hour Battery with Decon Belt and Low Voltage Alarm
PA20TJSB	8 to 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	8 to 10-hour Battery with Decon Belt and Low Voltage Alarm
PA20TCISB	8 to 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 8 to 10-hour Battery with Decon Belt, Low Voltage Alarm and C30R Hard Hat Included
PA20TICHDBS51R 8 to 10-hour Battery with Decon Belt, Low Voltage Alarm and S51R Hard Hat Included

PA20TICHSBC30R 8 to 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	8 to 10-hour Battery with Decon Belt and Low Voltage Alarm
PA20SICSB	8 to 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 8 to 10-hour Battery with Decon Belt, Low Voltage Alarm and C30R Hard Hat Included
PA20SICHDBS51R 8 to 10-hour Battery with Decon Belt, Low Voltage Alarm and S51R Hard Hat Included

PA20SICHSBC30R 8 to 10-hour Battery with Standard Comfort Belt, Low Voltage Alarm and C30R Hard Hat Included
PA20SICHSBS51R 8 to 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

Powered Air-Purifying Respirators

PA20 Series Powered Air-Purifying Respirator

PA20 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

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**

- 19" long outer bib
- Five per package

20SICH	**Tychem SL Double Bib Hood with Taped Seams, Hard Hat Not Included**
20SICHC30	**Same as 20SICH with C30 Hard Hat Included**
20SICHC30R	**Same as 20SICH with C30R Hard Hat Included**
20SICHS51	**Same as 20SICH with S51 Hard Hat Included**
20SICHS51R	**Same as 20SICH with S51R Hard Hat Included**

- For use with Bullard hard hat
- 9" long outer bib
- Five per package

20TIC	**Tychem QC Double Bib Hood With Inner Bib, Pinlock Suspension**
20TICR	**Tychem QC Double Bib Hood With Inner Bib, Ratchet Suspension**
20TICN	**Tychem QC Double Bib Hood With Inner Bib, No Suspension**

- 9" long outer bib
- 10 per package

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 C30 Hard Hat Included**
20TICHC30R	**Tychem QC Double Bib Hood, with C30R Hard Hat Included**
20TICHS51	**Tychem QC Double Bib Hood, with S51 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

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

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

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

Powered Air-Purifying Respirators

PA20 Series Powered Air-Purifying Respirator

PA20 Series Headpiece Replacement Parts

20RT — **Adjustable Ratchet Headband Suspension**
• Sportek™ brow pad

20TG — **Adjustable Headband Suspension**
• Sportek™ brow pad

TT3 — **Sportek™ Brow Pad**
• Sportek™ replacement brow pad for 20TG and 20RT suspensions

RBPCOTTON — **Brow Pad**
• Large, absorbent cotton replacement brow pad
• Fits all Bullard suspensions

RBPVINYL — **Brow Pad**
• Vinyl replacement brow pad
• Snap on - fits all Bullard suspensions

RBPCOOL — **Brow Pad**
• Polartec® replacement brow pad
• Wicking material moves sweat away from the worker's brow
• Fits all Bullard suspensions

20NC — **Elastic Chinstrap**
• For 20TG and 20RT suspensions
• 10 per package

PA20 Series Powered Air-Purifying Respirator

PA20 Series Head Protection

C30

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 C30 above with
- 6-point Flex-Gear® ratchet suspension
  with large, absorbent cotton brow pad (RS6RC)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Color: white

S51

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 S51 above with
- 4-point Flex-Gear ratchet suspension with poly brow pad (RS4RP)
- Replacement brow pads available (RBPCOTTON, RBPVINYL, RBPCOOL)
- Color: white

Powered Air-Purifying Respirators

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

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

S18051	**Breathing Tube Clamp**
	• 10 per package

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

PA20 Series Powered Air-Purifying Respirator

PA20 Series Replacement Blowers

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

PA2	**PAPR, 6-hour Assembly with Standard Belt and Air Flow Indicator**
PA2BU	**Replacement Blower Unit (blower & battery only)**

PA20 Series Replacement Filters

PA1FG3	**Filter/Gasket Assembly (three per package)**
PA1FGBP	**Filter/Gasket Assembly (36 per package)**

PA20 Series Batteries and Chargers

PA1UC   **Universal Smart Charger for PA1 (Replaces PA1SMC)**
- Charges in eight hours
- Automatically switches to trickle mode after charging is complete
- Compatible with 100-240V and 50 or 60 HZ power
- Request country-specific cord when ordering

PA1STC   **Standard Charger for PA1**
- Charges in 16 hours

PA1GC   **5-unit Gang Charger for PA1**
- Charges in eight hours
- Automatically switches to trickle mode after charging is complete

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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

PA20 Series Powered Air-Purifying Respirator

PA20 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 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**
· Ensures 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

Powered Air-Purifying Respirators

PA30 Series 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. Additonally, the PA3IS blower is designed to be used in environments requring 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 Series 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. Visit www.bullard.com to view the full range of headpieces and other options.

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.

PA30 Series Powered Air Purifying Respirator

Bullard PAPRs provide maximum airflow throughout the entire shift.

Greater Airflow = Greater Comfort

Airflow vs. Time

AIRFLOW in CFM

- Bullard PA30
- Bullard PA20
- Competitor's PAPR A
- NIOSH Standard
- Competitor's PAPR B

| | 1 Hours | 2 Hours | 3 Hours | 4 Hours | 5 Hours | 6 Hours | 7 Hours | 8 Hours |

Y-axis values: 8.5, 8, 7.5, 7, 6.5, 6.0, 5.5
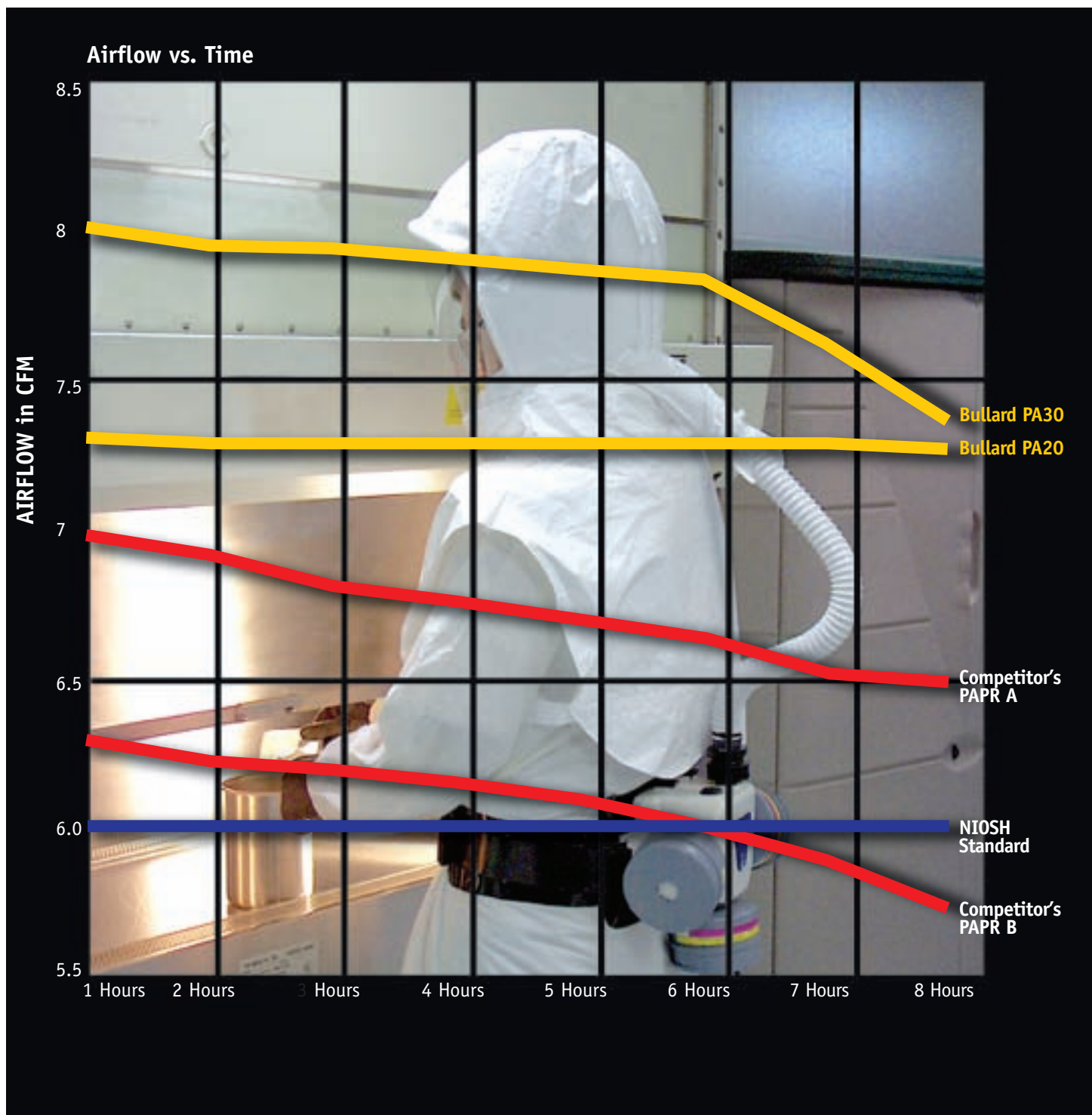
PA30 Series Powered Air Purifying Respirator

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.
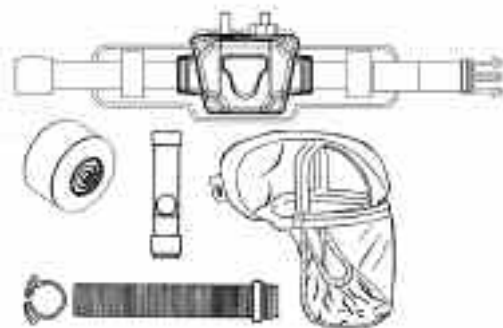
Approval No. TC-21C-0773 for High Efficiency (HE) Particulate Protection
Approval No. TC-23C-2237 OVAGHE Organic Vapor, Acid Gas, High Efficiency
Approval No. TC-23C-2236 NBC Nuclear, Biological, Chemical

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 alam 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**

  • Includes two batteries
  • 8-10 hour run time

PA30ISTICDB	**20TIC Double Bib Hood System with Decon Belt**
PA30ISTICSB	**20TIC Double Bib Hood System with Standard Comfort Belt**

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

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

PA30TICHDBC30R	**Double Bib Hood System, Decon Belt, with C30R Hard Hat Included**
PA30TICHDBS51R	**Double Bib Hood System, Decon Belt, with S51R Hard Hat Included**
PA30TICHSBC30R	**Double Bib Hood System, Standard Comfort Belt, with C30R Hard Hat Included**
PA30TICHSBS51R	**Double Bib Hood System, Standard Comfort Belt, with S51R Hard Hat Included**

  • Includes two batteries
  • 8-10 hour run time

PA30ISTICHDBC30R	**Double Bib Hood System, Decon Belt, with C30R Hard Hat Included**
PA30ISTICHDBS51R	**Double Bib Hood System, Decon Belt, with S51R Hard Hat Included**
PA30ISTICHSBC30R	**Double Bib Hood System, Standard Comfort Belt, with C30R Hard Hat Included**
PA30ISTICHSBS51R	**Double Bib Hood System, Standard Comfort Belt, with S51R Hard Hat Included**

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

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**

  • Includes two batteries
  • 8-10 hour run time

PA30ISSICDB	**20SIC Double Bib Saranex Coated Hood System with Decon Belt**
PA30ISSICSB	**20SIC Double Bib Saranex Coated 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 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

PA30SICHDBC30R   Double Bib Saranex Coated Hood, Decon Belt, with C30R Hard Hat Included
PA30SICHDBS51R   Double Bib Saranex Coated Hood, Decon Belt, with S51R Hard Hat Included

PA30SICHSBC30R   Double Bib Saranex Coated Hood, Standard Comfort Belt, with Hard Hat Included
PA30SICHSBS51R   Double Bib Saranex Coated Hood, Standard Comfort Belt, with S51R Hard Hat Included
  - Includes two batteries
  - 8-10 hour run time

PA30ISSICHDBC30R   Double Bib Saranex Coated Hood, Decon Belt, with C30R Hard Hat Included
PA30ISSICHDBS51R   Double Bib Saranex Coated Hood, Decon Belt, with S51R Hard Hat Included

PA30ISSICHSBC30R   Double Bib Saranex Coated Hood, Standard Comfort Belt,
            with C30R Hard Hat Included
PA30ISSICHSBS51R   Double Bib Saranex Coated Hood, Standard Comfort Belt, with S51R Hard Hat Included
  - **Intrinsically safe blower**
  - Includes one battery
  - 6-7 hour run time

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

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)

PAPRs with 20TICS Tychem QC Double Bib Hood with Taped Sealed 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**
      • Includes two batteries
      • 8-10 hour run time

PA30ISTICSDB   **20TICS Extra-Long Double Bib Hood System with Decon Belt**
PA30ISTICSSB   **20TICS Extra-Long Double Bib Hood System with Standard Comfort Belt**
      • **Intrinsically safe blower**
      • Includes one battery
      • 6-7 hour run time

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**
      • Includes two batteries
      • 8-10 hour run time

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

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**
      • Includes two batteries
      • 8-10 hour run time

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**
      • **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 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

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 C30 Hard Hat Included**
20SICHC30R	**Same as 20SICH with C30R Hard Hat Included**
20SICHS51	**Same as 20SICH with S51 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 C30 Hard Hat included**
20SICVHC30R	**same as 20SICVH with C30R Hard Hat included**
20SICVHS51	**same as 20SICVH with S51 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

RT1	**Tychem QC Double Bib Hood with Extra-Large Lens**
RT2	**Tychem SL Saranex Coated Double Bib Hood 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, C30 Hard Hat Included**
20TICHC30R	**Tychem QC Double Bib Hood, C30R Hard Hat Included**
20TICHS51	**Tychem QC Double Bib Hood, S51 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   **Tychem QC Double Bib Hood With Taped Seams, Pinlock Suspension**
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

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

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

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**
- 9" long outer bib
- 10 per package

Powered Air-Purifying Respirators

PA30 Series Powered Air Purifying Respirator

PA30 Series Headpiece Replacement Parts

20RT   **Adjustable Ratchet Headband Suspension**
- Sportek brow pad

20TG   **Adjustable Pinlock Headband Suspension**
- Sportek brow pad

TT3   **Sportek™ Brow Pad**
- Sportek replacement brow pad for 20TG and 20RT suspensions

RBPCOTTON   **Brow Pad**
- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions

RBPVINYL   **Brow Pad**
- Vinyl replacement brow pad
- Snap on - fits all Bullard suspensions

RBPCOOL   **Brow Pad**
- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions

20NC   **Elastic Chinstrap**
- For 20TG and 20RT suspensions
- 10 per package

PA30 Series Powered Air Purifying Respirator

PA30 Series Head Protection

C30   **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 C30 above with
- 6-point Flex-Gear® ratchet suspension
  with large, absorbent cotton brow pad (RS6RC)
- Color: white

S51   **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 S51 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

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

S18051 — **Breathing Tube Clamp**
- 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

PA3	**Blower Assembly with Standard belt, One NiMH battery and Air Flow Indicator**
PA3DB	**Same as PA3 with Decon Belt**
PA3BU	**Blower Unit Only**
PA3IS	**Intrinsically Safe Blower Assembly with Standard Belt,**
	One NiMH battery and Air Flow Indicator
PA3ISDB	**Same as PA3IS with Decon Belt**
PA3ISBU	**Intrinsically Safe Blower Unit Only**

PA30 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

PA3OVAGHE	**OV/AG/HE Filters**
	• Six per package
	• Organic vapors, Chlorine, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride and High Efficiency Particulate
	• Yellow/purple label

PA3NBC	**AG/AM/MA/FM/HE Filters**
	• Six per package
	• Chlorine, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride, Ammonia, Methylamine, Formaldehyde and High Efficiency Particulate
	• Tan/purple label

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

PA3ISC   **Quick Charger for PA3IS**
- Charges in six hours
- Single port
- Trickle charge feature

PA3GC   **Gang Charger for PA3 & 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

Powered Air-Purifying Respirators

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"

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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

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 Series 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 Performance and Durability

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.

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 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

In addition to the standard safeguards of a rotometer-style indicator which 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 while 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 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 unparalled peripheral vision while the clear silicone nosecup helps minimize the closed-in feeling that many respirator wearers experience. The Specturm facepiece has a minimal number of snap-together parts that require no special tools and are easy to stock and replace.

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

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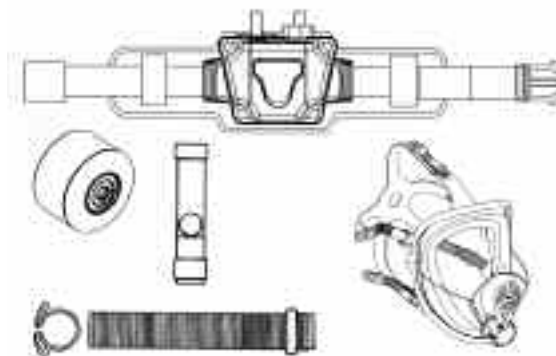
PA40 Series Assemblies (Tight Fitting, Full Facepiece PAPR)

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

PA40SPECSB	PA4, Spectrum Facepiece with Standard Belt
PA40SPECDB	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 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

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

PA40 Series Batteries and Chargers

PA3BP	**NiMH Battery Pack for PA3, PA4 and PA5**
	• Nickel Metal Hydride Technology
	• 4-5 hour run time per battery
	• Rechargeable

PA3BPC	**Battery Port Cover**
	• For PA3, PA4 and PA5 blowers when using a single battery
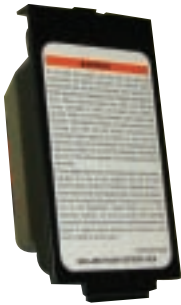
PA3GC	**Gang Charger**
	• Five port
	• Charges in four hours
	• Trickle charge feature
	• Conditioning feature

PA3SMC	**Quick Charger for PA3 & PA4**
	• Two port
	• Charges in four hours
	• Trickle charge feature

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

Powered Air-Purifying Respirators

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
Supplied Air	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	19C-412	1,000	RDECOM Study 2004
	PC/CS90	Supplied Air Respirator with Loose-Fitting Hood & Containment Suit	19C-280	1,000	Caldwell Study 1994
	For more information or a copy of one of the studies, please contact Bullard at 877-BULLARD.				

* 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. CC20 Series hoods are used in a wide variety of industries including:

• Pharmaceutical manufacturing

• Chemical and pesticide handling

• Spray painting and coating operations

• Nuclear operations

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 provided additional protection for liquid penetration encountered on-the-job or during decontamination.

Reusable or Disposable

CC20 Series respirator hoods are durable enough to reuse, yet economical enough to discard after each use, depending on the work application.

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). A versatile hood suitable for almost any application.

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 Facepice, Medium
- **20LFL -** Loose-Fitting Facepiece, Large

2. Choose Suspension or Hard Hat

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

- **20TG -** Adjustable Headband Suspension

- **C30 -** 6-point Self Sizing Suspension, Full Profile
- **C30R -** 6-point Flex-Gear Ratchet Suspension

- **S51 -** 4-point Self-Sizing Suspension, Low Profile
- **S51R -** 4-point Flex-Gear Ratchet Suspension

3. Choose Breathing Tube

- **20BT -** Breathing Tube for Hoods

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

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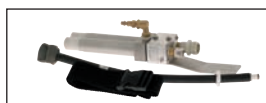
- **DC5040, DC5040B, DC5040S -** DUAL-COOL® Industrial Interchange
- **DC5041 -** DUAL-COOL Schrader
- **DC5042 -** DUAL-COOL Snap-Tite Steel
- **DC5043 -** DUAL-COOL Snap-Tite Brass
- **DC5044 -** DUAL-COOL Snap-Tite Stainless Steel
- **DC5047-** DUAL-COOL CEJN

6. Choose Belt and/or Accessories

- **4612 -** Nylon Belt

- **36501 -** Decon Belt

- **HS -** Heat Shield

- **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
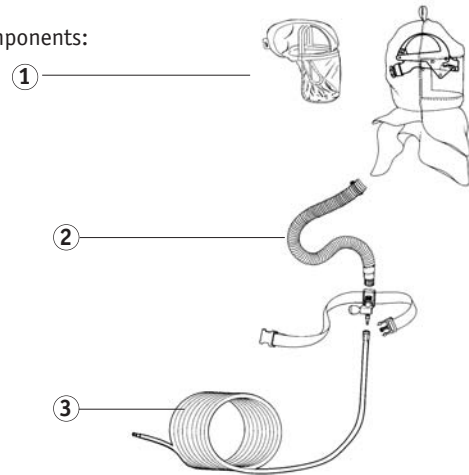
CC20 Series Constant Flow Respirator Systems for Use with Compressed Air

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

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

CC20TICH30   **Tychem® QC Double Bib Hood System with Bullard Hard Hat**
- 20TICH hood
- Model C30 hard hat
- V30 breathing tube assembly with F30 $\frac{1}{4}$" 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 S51 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

CC20SIC30   **Tychem SL Double Bib Hood System with Taped Seams**
- 20SICN hood
- 20TG pinlock suspension
- V30 breathing tube assembly with F30 $\frac{1}{4}$" 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

CC20LF30   **Tychem QC Loose-Fitting Facepiece System**
- 20LFL loose-fitting facepiece with sewn in suspension
- X30 breathing tube assembly with $\frac{1}{4}$" industrial interchange (Hansen compatible) nipple
- 4612 nylon belt

Supplied Air Respirators

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

20LFL	**Loose-Fitting Facepiece, Large**
20LFM	**Loose-Fitting Facepiece, Medium**

• Sewn in suspension
• Latex-free
• Quick-attach twist lock connection
• Five per package

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**

• 19" long outer bib
• Five per package

20SICH **Included**	**Tychem SL Double Bib Hood with Taped Seams, Hard Hat Not**
20SICHC30	**Same as 20SICH with C30 Hard Hat Included**
20SICHC30R	**Same as 20SICH with C30R Hard Hat Included**
20SICHS51	**Same as 20SICH with S51 Hard Hat Included**
20SICHS51R	**Same as 20SICH with S51R Hard Hat Included**

• For use with Bullard hard hat
• 9" long outer bib
• Five per package

20TIC	**Tychem QC® Double Bib Hood with Inner Bib, Pinlock Suspension**
20TICR	**Tychem QC Double Bib Hood with Inner Bib, Ratchet Suspension**
20TICN	**Tychem QC Double Bib Hood with Inner Bib, No Suspension**

• 9" long outer bib
• 10 per package

Supplied Air Respirators

CC20 Series Airline Respirator

CC20 Series Replacement Headpieces

20TICH	Tychem® QC Double Bib Hood, for Use with Bullard Hard Hat (Not Included)
20TICHC30	**Tychem QC Double Bib Hood, Includes C30 Hard Hat**
20TICHC30R	**Tychem QC Double Bib Hood, Includes C30R Hard Hat**
20TICHS51	**Tychem QC Double Bib Hood, Includes S51 Hard Hat**
20TICHS51R	**Tychem QC Double Bib Hood, Includes S51R Hard Hat**

- 9" long outer bib
- Five per package

20TICS	**Tychem QC Double Bib Hood with Taped Seams, Pinlock Suspension**

- Five per package

20TICSR	**Tychem QC Double Bib Hood with Taped Seams, Ratchet Suspension**

- Five per package
- 19" long outer bib

20TICSN	**Tychem QC Double Bib Hood with Taped Seams, No Suspension**

- 19" long outer bib
- 10 per package

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

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

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

CC20 Series Airline Respirator

CC20 Series Headpiece Replacement Parts

20RT **Adjustable Ratchet Headband Suspension**
- Sportek™ brow pad

20TG **Adjustable Headband Suspension**
- Sportek brow pad

TT3 **Sportek Brow Pad**
- Sportek replacement brow pad for 20TG and 20RT suspensions

RBPCOTTON **Brow Pad**
- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions

RBPVINYL **Brow Pad**
- Vinyl replacement brow pad
- Snap on - fits all Bullard suspensions

RBPCOOL **Brow Pad**
- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions

20NC **Elastic Chinstrap**
- For 20TG and 20RT suspensions
- 10 per package

20LCL **Adhesive-Edged Mylar Cover Lens**
- Clear
- 25 per package

Supplied Air Respirators

CC20 Series Airline Respirator

CC20 Series Head Protection

C30   **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 C30 above with
- 6-point Flex-Gear® ratchet suspension
  with large, absorbent cotton brow pad (RS6RC)
- Color: white

S51   **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 S51 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 S51
- 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	Adjustable Flow Assemblies
V30 • With F30 $\frac{1}{4}$" industrial interchange (Hansen compatible) quick-disconnect nipple • For use with compressed air	**V40** • With F40 $\frac{1}{4}$" industrial interchange (Hansen compatible) quick-disconnect nipple • For use with compressed air
V31 • With F31 $\frac{1}{4}$" Schrader quick-disconnect nipple • For use with compressed air	**V41** • With F41 $\frac{1}{4}$" Schrader quick-disconnect nipple • For use with compressed air
V32 • With F32 $\frac{1}{4}$" Snap-Tite steel quick-disconnect nipple • For use with compressed air	**V42** • With F42 $\frac{1}{4}$" Snap-Tite steel quick-disconnect nipple • For use with compressed air
V33 • With F33 $\frac{1}{4}$" Snap-Tite brass quick-disconnect nipple • For use with compressed air	**V43** • With F43 $\frac{1}{4}$" Snap-Tite brass quick-disconnect nipple • For use with compressed air
V35 • With F35 $\frac{1}{2}$" industrial interchange (Hansen compatible) quick-disconnect nipple • For use with Bullard Free-Air® pumps	

For heating and cooling options, see the Body Temperature Management section on pages 182-187.

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	Adjustable Flow Assemblies
X30 • With F30 $\frac{1}{4}$" industrial interchange (Hansen compatible) quick-disconnect nipple • For use with compressed air	**X40** • With F40 $\frac{1}{4}$" industrial interchange (Hansen compatible) quick-disconnect nipple • For use with compressed air

X31
• With F31 $\frac{1}{4}$" Schrader quick-disconnect nipple
• For use with compressed air

X32
• With F32 $\frac{1}{4}$" Snap-Tite steel quick-disconnect nipple
• For use with compressed air

X33
• With F33 $\frac{1}{4}$" Snap-Tite brass quick-disconnect nipple
• For use with compressed air

X35
• With F35 $\frac{1}{2}$" industrial interchange (Hansen compatible) quick-disconnect nipple
• For use with Bullard Free-Air® pumps

For heating and cooling options, see the Body Temperature Management section on pages 182-187.

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**

- $1/4$" 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
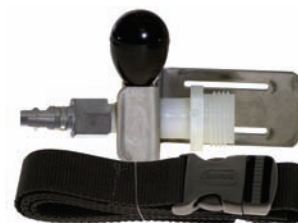
CC20 Series Airline Respirator

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

20BT	**Breathing Tube for Hoods**
	• Nipple not included
	• S18051 clamp

20LFBT	**Breathing Tube for Loose-Fitting Facepieces**
	• Nipple not included
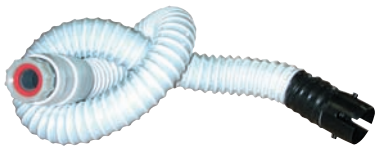
S18051	**Breathing Tube Clamp**
	• 10 per package

4612	**Nylon Belt**

36501	**Vinyl Decon Belt**

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 respiratory 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 as well as 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. They are long enough to tuck in (front and rear) with less chance to work loose during movement of the arms and shoulders. With the bibs tucked in, the excess air flowing out of the respirator will travel across the user's body, creating a cooling effect. Independent front and rear inner bibs eliminate the shoulder fit issue seen with many hoods.

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. The gray color allows for users to quickly and easily identify the hood appropriate for the task, and it allows for supervisors to visually confirm that their employees are wearing the appropriate hood.

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. Individually packaged with the breathing tube already attached, the user needs only to don the hood and connect the flow control device. 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 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 Breating 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

•**HS -** Heat Shield

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
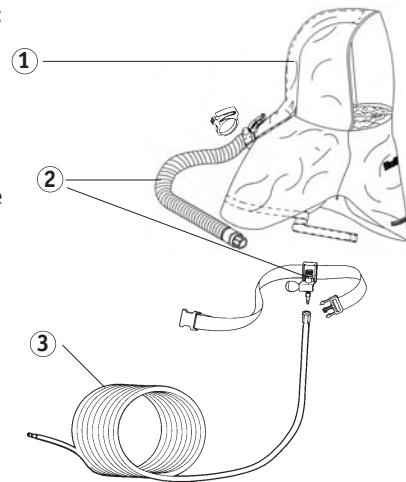
RT Series Constant Flow Respirator Systems for Compressed Air

RT130   **Constant Flow Respirator Assembly**
- RT1 Tychem QC double bib hood system - extra-large lens
- No suspension required
- V30 breathing tube assembly with F30 $\frac{1}{4}$" industrial interchange (Hansen compatible) nipple and 4612 nylon belt
- For use with compressed air

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 $\frac{1}{4}$" 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

Supplied Air Respirators

RT Series Airline Respirator

RT Series Breathing Tube Assemblies

V30 **Constant Flow Breathing Tube Assembly for Hoods**
- 20BT breathing tube
- F30 $\frac{1}{4}$" industrial interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- S18051 Clamp
- For use with compressed air

V31 **Constant Flow Breathing Tube Assembly for Hoods**
- 20BT breathing tube
- F31 $\frac{1}{4}$" Schrader quick-disconnect nipple
- S18051 Clamp
- For use with compressed air

V32 **Constant Flow Breathing Tube Assembly for Hoods**
Same as V31 above with:
- F32 $\frac{1}{4}$" Snap-Tite steel quick-disconnect nipple

V33 **Constant Flow Breathing Tube Assembly for Hoods**
Same as V32 above with:
- F33 $\frac{1}{4}$" Snap-Tite brass quick-disconnect nipple

V34 **Constant Flow Breathing Tube Assembly for Hoods**
Same as V32 above with:
- F34 $\frac{1}{4}$" Snap-Tite stainless steel quick-disconnect nipple

For heating and cooling options, see the Body Temperature Management section on pages 182-187.

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

For heating and cooling options, see the Body Temperature Management section on pages 182-187.

Supplied Air Respirators

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   **Tychem QC Breathing Tube Cover**
20SLBTC   **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 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
•**DC70XLXXL -** XL/XXL Cool Vest
•**DC705XL -** 5XL Cool Vest
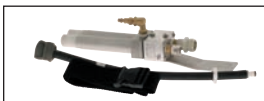
•**DC6040, DC6040B, DC6040S -** DUAL-COOL® Industrial Interchange
•**DC6041 -** DUAL-COOL Schrader
•**DC6042 -** DUAL-COOL Snap-Tite Steel
•**DC6043 -** DUAL-COOL Snap-Tite Brass
•**DC6044 -** DUAL-COOL Snap-Tite Stainless Steel
•**DC6047 -** DUAL-COOL CEJN

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
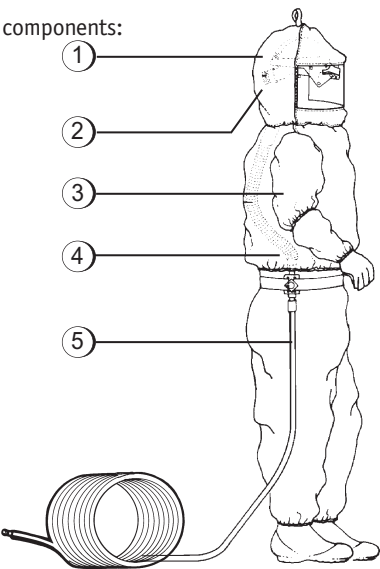
PC90 Series Parkas

PC90ML   **Medium/Large Respirator Parka**
PC90XL   **Extra-Large Respirator Parka**
PC90XXL   **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

20TG   **Adjustable Pinlock Headband Suspension**
- Sportek™ brow pad

20NC   **Elastic Chinstrap**
- For 20TG and 20RT suspensions
- 10 per package

PC90 Series Airline Containment Respirator

PC90 Series Containment Suits

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**

- 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

PC 90 Series Breathing Tube Assemblies

C40   **Adjustable Flow Breathing Tube Assembly, Industrial Interchange**
- 90BT breathing tube
- $1/4$" industrial interchange (Hansen compatible) nipple with adjustable flow control valve
- Vinyl decon belt
- S18051 clamp
- For use with compressed air

C41   **Adjustable Flow Breathing Tube Assembly, Schrader**
- Same as above with $1/4$" Schrader nipple with adjustable flow control valve

C42   **Adjustable Flow Breathing Tube Assembly, Snap-Tite Steel**
- Same as above with $1/4$" Snap-Tite nipple, steel with adjustable flow control valve

C43   **Adjustable Flow Breathing Tube Assembly, Snap-Tite Brass**
- Same as above with $1/4$" Snap-Tite nipple, brass with adjustable flow control valve

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

36501   **Vinyl Decon Belt**

4612   **Nylon Belt**

20LC   **Adhesive-Backed Mylar® Lens Cover**
- Clear
- 25 per package

Supplied Air Respirators

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.

- **1,000 Assigned Protection Factor**
- **Comfortable Fit**
- **Wide Field of Vision**
- **Abrasive Rebound Protection to Head, Neck and Upper Torso**

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).

The 88VX™ Series Advantage

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.

Blasting and Grinding

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.

Outer Shell provides ANSI Z89 Head Protection

Integrated, Anti-fogging Air Distribution Chamber

Replaceable Injection Molded Inner Shell
Fully adjustable Head Harness

Inner and outer lens provide ANSI Z87 Face Protection

Convenient Carrying Strap

Replaceable Breathing Tube Attachment

Chinstrap

Flexible, durable Window Frame
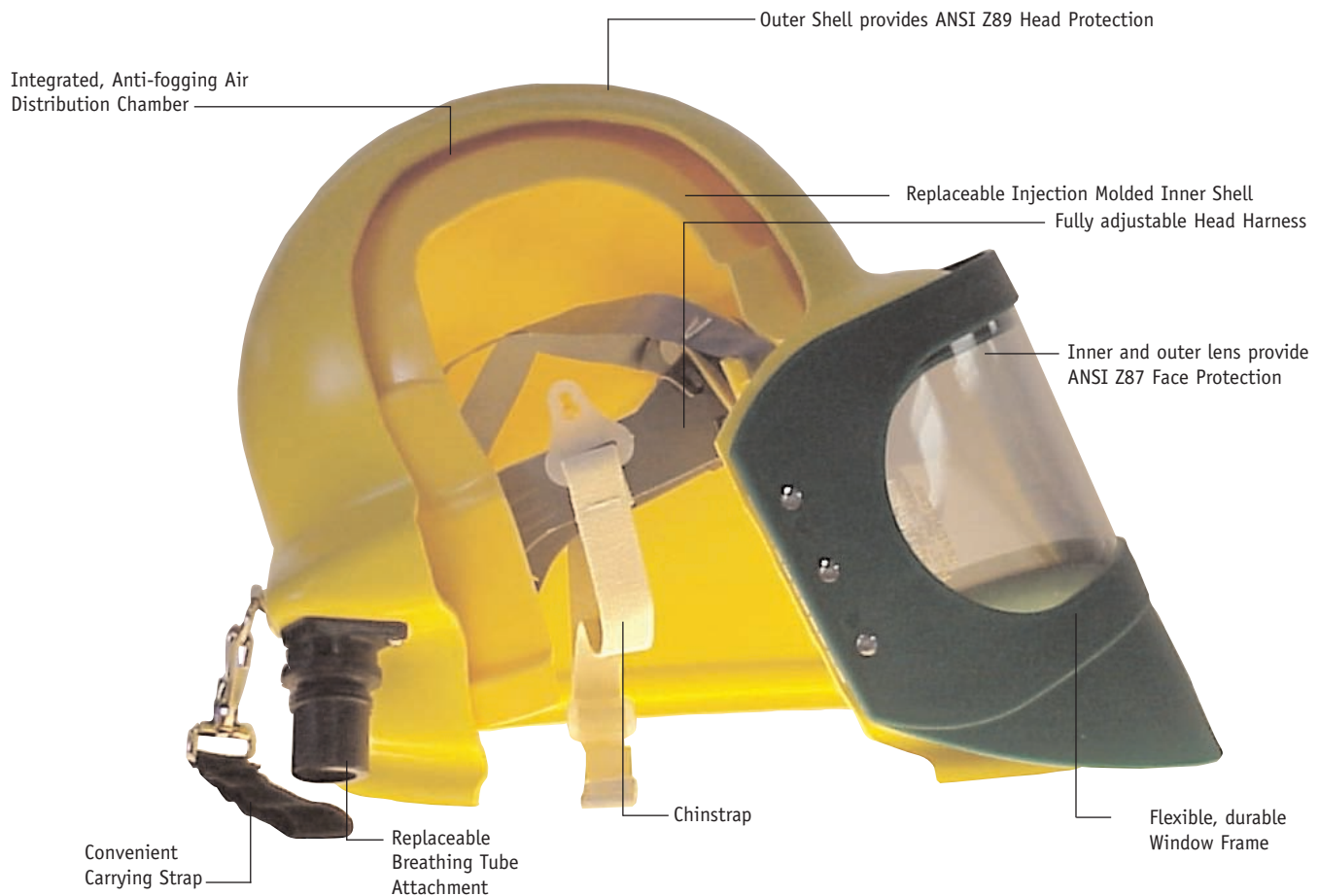
88VX Series Airline Respirator Selection Chart

1. Choose Window Style (Helmet included)

- •Oval Window (Standard)
- •Rectangular Window
- •Box Front Optional

2. Choose Suspension
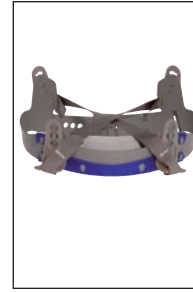
- •88VXTG - Adjustable Pinlock Suspension
- •88VXRT - Adjustable Ratchet Suspension

3. Choose Breathing Tube

- •88VXBT - Nipple not included

4. Choose Flow Control Device

- •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

- •F35, F35B, F35S for Free-Air Pumps - Constant Flow Control Valve, 1/2" 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
- •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
- •HS - Heat Shield
- •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
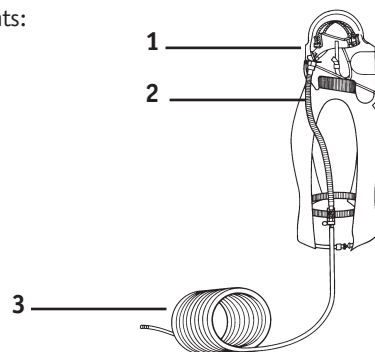
88VX™ Series Respirator Assemblies for use with Compressed Air

Respirators with 46VX Nylon Cape - 28" Length

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

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

88VX1330	**F30 Constant Flow $1/4$" Industrial Interchange Fitting**

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

Respirators with 21VX Nylon Cape - 38" Length

88VX2130	**F30 Constant Flow $1/4$" Industrial Interchange Fitting**
88VXR2130	**Rectangular Window Version or 88VX2130**
88VX2140	**F40 Adjustable Flow $1/4$" Industrial Interchange Fitting**

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)

88VX™ Series Airline Respirator

88VX™ Breathing Tube Assemblies

Constant Flow Breathing Tube Assemblies

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

All above include:
• 88VXBT breathing tube
• 4612 nylon belt

Adjustable Flow Breathing Tube Assemblies

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

All above include:
• 88VXBT breathing tube
• 4612 nylon belt

Constant Flow Breathing Tube Assembly

EVX35	F35 $\frac{1}{4}$" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple

All above include:
• 88VXBT breathing tube
• 4612 nylon belt

Cool Tube Assembly for 88VX™ Series Respirators

AC1000 **Cool Tube Assembly**
• $\frac{1}{4}$" 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

For additional heating and cooling control options, see the Body Temperature Management section on pages 182-187.

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"

Blasting and Grinding

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
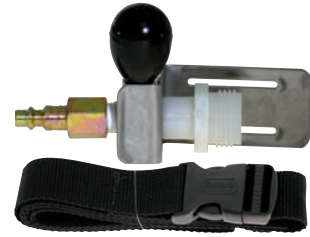
F41	**Adjustable Flow Control** • ¹/₄" Schrader quick-disconnect nipple • Threaded hose connector • Connects to 88VXBT, 20BT or 20LFBT • Nylon belt
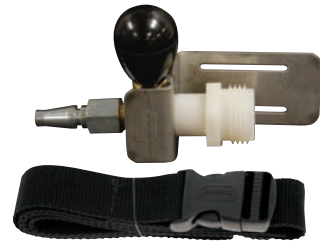
F42	**Adjustable Flow Control** • ¹/₄" Snap-tite steel quick-disconnect nipple • Threaded hose connector • Connects to 88VXBT, 20BT or 20LFBT • Nylon belt

F47	**Adjustable Flow Control Valve** • ¹/₄" CEJN stainless steel quick-disconnect nipple • Threaded hose connector • Connects to 88VXBT, 20BT or 20LFBT • Nylon belt
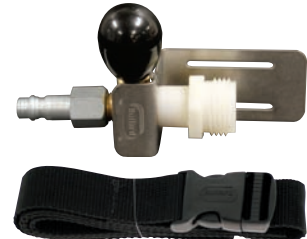
88VX™ Series Replacement Valves for Breathing Tube Assemblies for use with Bullard Free-Air Pumps

F35	**Constant Flow Control** • ¹/₄" 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

88VXTG   **Adjustable Pinlock Headband Suspension**
- Sportek™ brow pad

88VXRT   **Adjustable Ratchet Headband Suspension**
- Sportek™ brow pad

TT3   **Brow Pad**
- Sportek™ replacement brow pad for 88VXTG and 88VXRT headband suspensions

TT3VI   **Brow Pad**
- Vinyl replacement brow pad for 88VXTG and 88VXRT headband suspensions

99PL   **Inner Shell/Air Plenum**
- Does not include headband suspension or chinstrap

20NC   **Elastic Chinstrap**
- For use with 88VX Series and 99PL only
- 10 per package

88VX™ Series Airline Respirator

88VX™ Series Replacement Parts and Accessories

88CS	**Elastic Chinstrap** • For use with 88PL 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	

88VXRAK	**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
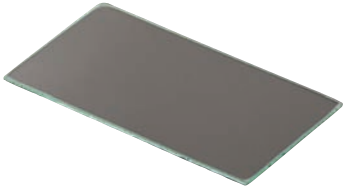
77LG — **Box Front Lens Gasket**
- For use with 77BFW and BFW
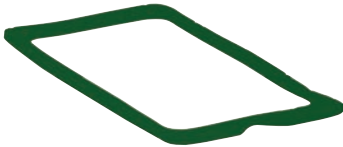
G4613 — **88VXR Window Frame Gasket**
- Rectangular gasket
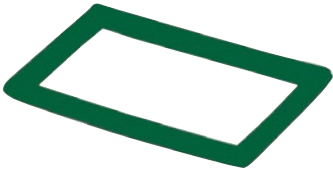
G7713 — **88VX Window Frame Gasket**
- Oval gasket
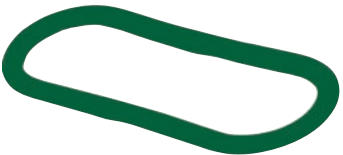
88VX™ Series Mylar® Lens

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

Inner Lens - Acetate, For Use with 77/88 Series
P771B   • 25 per package
B771B   • Eight packages of 25 lenses
           • Oval
           • .040" thick

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

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 OSHA's 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 hood. 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's low-pressure Free-Air® ambient breathing pumps.

Blasting and Grinding

LANCER Series Airline Respirator Selection Chart

1. Choose Window Style (Helmet is Included)

- **Oval Window (Standard)**
- **Rectangular Window (Optional)**
- **Box Front Window (Optional)**

2. Choose Suspension
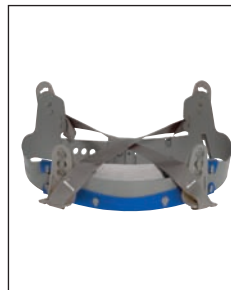
- **88VXTG -** Adjustable Pinlock Suspension
- **88VXRT -** Adjustable Ratchet Suspension

3. Choose Breathing Tube
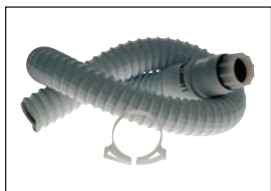
- **L99BT -** Clamp included, nipple not included

4. Choose Flow Control Device

- **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
- **HS -** Heat Shield
- **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
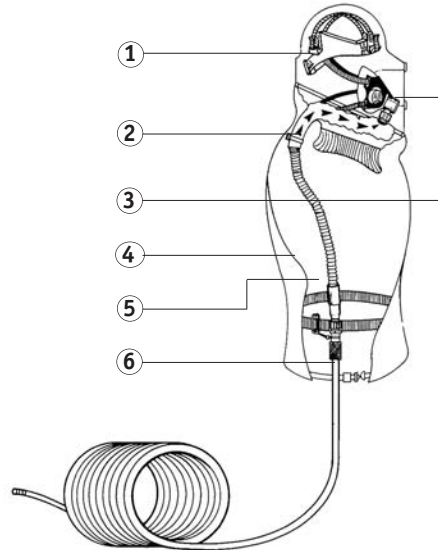
Lancer Airline Respirator Systems

511SM30	**Small Half Mask Respirator Assembly**
511MD30	**Medium Half Mask Respirator Assembly**
511LG30	**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**
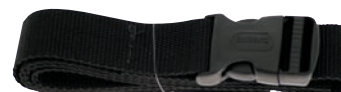
LANCER Series Airline Respirator

Lancer Series Replacement Capes & Suspensions

0032	**Nylon Parka (Tan)** • Includes zipper and belt strap	

0072	**Nylon Poncho (Tan)** • Includes snap hooks	

88VXTG	**Adjustable Pinlock Headband Suspension** • Sportek™ brow pad	
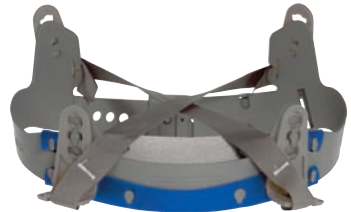
88VXRT	**Adjustable Ratchet Headband Suspension** • Sportek brow pad	

TT3	**Brow Pad** • Sportek replacement brow pad for 88VXTG and 88VXRT headband suspensions	

TT3VI	**Brow Pad** • Vinyl replacement brow pad for 88VXTG and 88VXRT headband suspensions	

Blasting and Grinding

LANCER Series Airline Respirator

Lancer Series Replacement Masks

LMS	**Small Half Mask**
LMM	**Medium Half Mask**
LML	**Large Half Mask**

• Two valves and cradle headband strap
• Mask connector not included

LMCON   **Mask Connector**

FAMCB   **Cradle Headband Strap**

FAMEVC2   **Exhalation Valve Covers**
• Two per package

FAMEVF10   **Exhalation Valve Flaps**
• 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
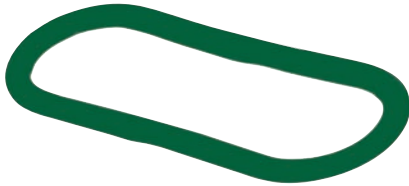
88VXBAIL   **Replacement Bail for Latch Assembly**
- 10 per package

88VXHP   **Replacement Hinge Pins for Latch Assembly**
- 10 per package

LANCER Series Airline Respirator

Lancer Series Mylar Lens

7714   **Adhesive-backed Mylar® Lens Cover**
- Clear
- Rectangular
- 25 per package

88VXLC   **Perforated Edge Mylar® Lens Cover**
- Clear
- 25 per package

Lancer Series Replacement Lenses

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

GR50 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 Airline Respirator Selection Chart

1. Choose Head Top

- **GRH -** Nomex® Grinding Hood

2. Choose Suspension or Hard Hat

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

- **20TG -** Adjustable Pinlock Headband Suspension

- **C30 -** 6-point Self-Sizing Suspension, Full Profile
- **C30R -** 6-point Flex-Gear® Ratchet Suspension

- **S51 -** 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
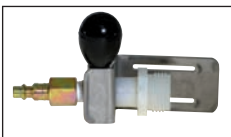
1/4" Adjustable Flow
- **F40, F40B, F40S -** Industrial Interchange
- **F41 -** Schrader
- **F42 -** Snap-Tite Steel
- **F43 -** Snap-Tite Brass
- **F44 -** Snap-Tite Stainless
- **F47 -** CEJN

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
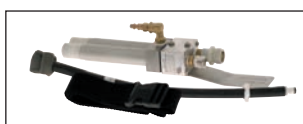
- **DC5040 -** DUAL-COOL® Industrial Interchange
- **DC5041 -** DUAL-COOL Schrader
- **DC5042 -** DUAL-COOL Snap-Tite Steel
- **DC5047 -** DUAL-COOL CEJN

6. Choose Belt and/or Accessories

- **4612 -** Nylon Belt

- **HS -** Heat Shield

- **20NC -** Chinstrap

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
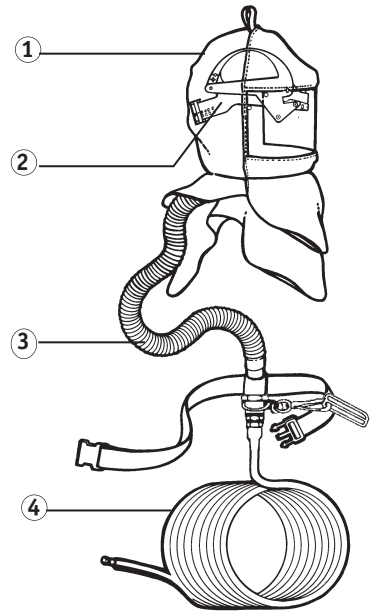
GR5030

Constant Flow Respirator with V30 Breathing Tube Assembly
- GRH hood
- 20TG suspension
- F30 $\frac{1}{4}$" 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 $\frac{1}{2}$" 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

20TG   **Adjustable Pinlock Headband Suspension**
- Sportek brow pad

20RT   **Adjustable Ratchet Headband Suspension**
- Sportek brow pad

20NC   **Elastic Chinstrap**
- For 20TG and 20RT suspensions
- 10 per package

TT3   **Sportek™ Brow Pad**
- Sportek replacement brow pad for 20TG and 20RT suspensions

RBPCOTTON   **Brow Pad**
- Large, absorbent cotton replacement brow pad
- Fits all Bullard suspensions

RBPVINYL   **Brow Pad**
- Vinyl replacement brow pad
- Snap on - fits all Bullard suspensions

RBPCOOL   **Brow pad**
- Polartec® replacement brow pad
- Wicking material moves sweat away from the worker's brow
- Fits all Bullard suspensions

Blasting and Grinding

GR50 Airline Respirator

GR50 Series Head Protection

C30

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 C30 above with
- 6-point Flex-Gear® ratchet suspension
  with large, absorbent cotton brow pad (RS6RC)
- Color: white

S51

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 S51 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 S51
- 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

Blasting and Grinding

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

For heating and cooling options, see the Body Temperature Management section on pages 182-187.

GR50 Airline Respirator

GR50 Airline Respirator Replacement Parts & Accessories

20BT **Breathing Tube**
- Nipple not included
- S18051 clamp

S18051 **Breathing Tube Clamp**
- 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®

Comfort, Low Profile, Outstanding Visibility, Simplicity

Finally there's a respirator that fits — your face, your needs and your high expectations. Introducing Spectrum Series full-face mask airline respirators from Bullard. Integrating intelligent features with innovative design, Bullard is moving respiratory protection to a whole new level. The Spectrum Series offers outstanding comfort, low profile fit, unparalleled visibility and simplicity.

With the addition of the Spectrum Series, Bullard can meet all of a customer's airline respirator needs — from continuous flow hood and helmet airline respirators to tight-fitting facepiece airline/ESCBA respirators. The four full facepiece models in the Spectrum Series include:

- Continuous flow
- Pressure demand
- Pressure demand with 5-minute cylinder
- Pressure demand with 10-minute cylinder

Spectrum Comfort

Spectrum's lightweight silicone flange seals softly against the user's face without feeling slippery, while the double flange provides a secure and comfortable fit across a wide range of facial sizes and contours.

Spectrum Low Profile

The low profile full facepiece allows ease of movement of the user's head. The low profile design is lightweight, thus reducing fatigue. The facepiece allows ease of movement of the user's head. Spectrum's low profile headstraps reduce the time to put on the facepiece, are extremely easy to adjust and enhance overall comfort.

Spectrum Visibility

Spectrum is designed with an optically correct lens that provides unparalleled peripheral vision. The clear silicone nosecup allows more light into the mask, minimizing the closed-in feeling many respirator wearers' experience.

Spectrum Simplicity

With a minimal number of snap-together parts, no special tools are required making assembly and maintenance quick and efficient. All respirator models incorporate a single platform design, simplifying stocking requirements.

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

SPECLSYS

Spectrum Series® Airline Respirator System
- SPEC35L respirator assembly
- EDP10 Free-Air® pump
- V20100ST hose
- LC lens covers

SPEC40L
SPEC40S

Spectrum-CF Respirator Assembly
SPECCFML Medium/Large Facepiece
SPECCFS 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

SPEC35L
SPEC35S

Spectrum-CF Respirator Assembly
SPECCFML Medium/Large Facepiece
SPECCFS 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

12 Mylar® lens cover

11C

11A Adjustable flow valve for use with all high pressure models

11B

11. Constant flow valve for use with low pressure model

11D
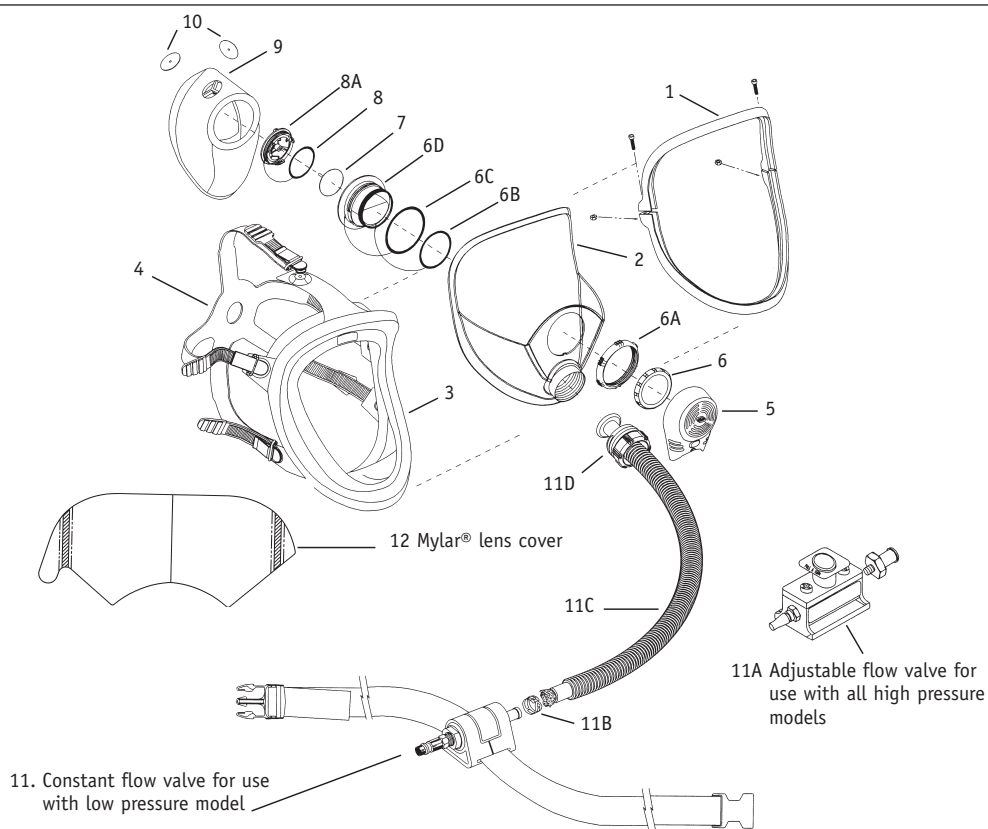
Cat. No.	Description	Cat. No.	Description
1. LCK	Lens Clamp Replacement	8. EVO	O-ring for Exhalation Valve Seat
2. RLS	Replacement Lens	8A	Exhalation Valve Seat
3. FKML & FKS	Facepiece Flange	9. LNK	Nose Cup
4. HSK	Headstrap with Buckles and Slides	10. SPECIVK	Inhalation Valve Flaps
5. MCK	Mask Cover	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 (Not Pictured)**
• 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   **Headstrap Kit**
              • Includes five buckles and five slides

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 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

Mask Style Respirators

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**

	Spectrum-PD Respirator Assembly
SPECPDLA	**SPECPDML Medium/Large Facepiece**
SPECPDSA	**SPECPDML Small Facepiece**

- PDR45 pressure demand regulator
- BHA belt harness assembly
- CA30 coupler assembly

	Spectrum-PDE5 Respirator Assembly
SPECPDE5L	**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

	Spectrum-PDE10 Respirator Assembly
SPECPDE10L	**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
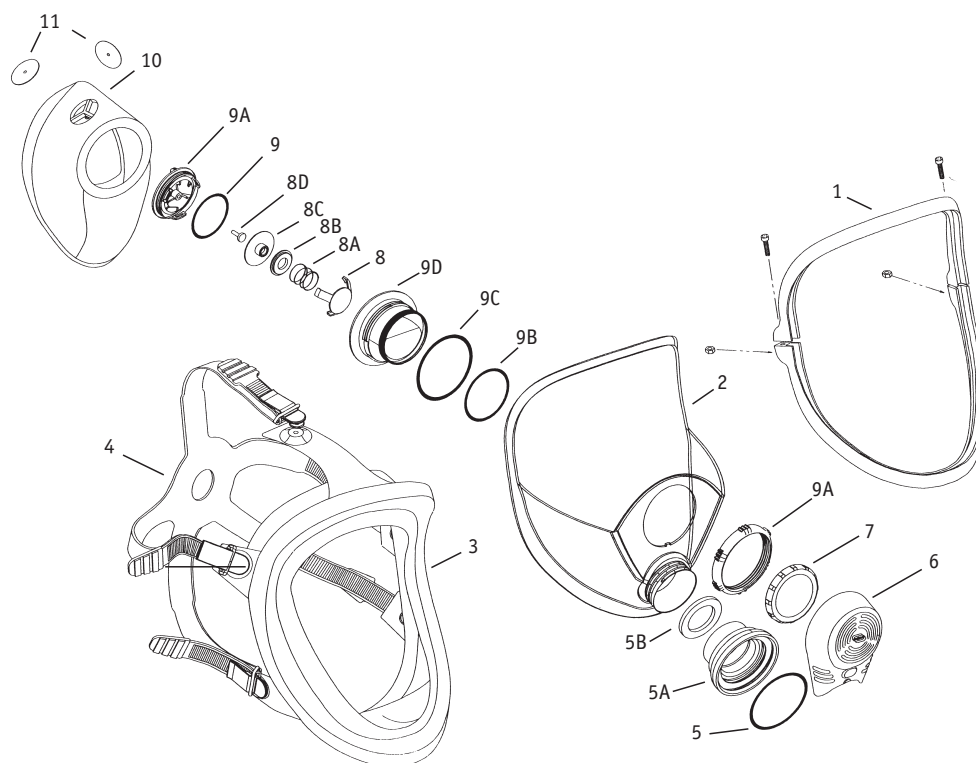
Cat. No.	Description	Cat. No.	Description
1. LCK	Lens Clamp	8. EVPDK	Spring Retainer
2. RLS	Replacement Lens	8A	Spring, PD*
3. FKML & FKS	Facepiece Flange	8B	Plate
4. HSK	Headstrap with Buckles & Slides	8C	Exhalation Valve Flap
5. RAK	O-ring, Regulator Adapter	8D	Stem
5A	Regulator Adapter	9. EVPDK	O-ring 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	**Medium/Large Facepiece Assembly**	
SPECPDS	**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**

EVPDK   **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   **Medium/Large Facepiece Flange**
FKS   **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 (Not Pictured)** • 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

Mask Style Respirators

Spectrum Series

Spectrum Series Pressure Demand Regulators & 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 SPECPDE5L
- 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

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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

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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

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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

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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

PCC45   **Protective Cleaning Cap**
- Five per package

BHA   **Replacement Shoulder Harness**
- 4611 Fire retardant nylon belt
- Buckle connector
- Shoulder strap

4611   **Fire Retardant Nylon Belt**

EH45   **5" Extension Hose for Regulator**

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
- $\frac{1}{8}$" 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 Half Mask Airline Respirator

FAMB Half Mask Airline Respirator

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
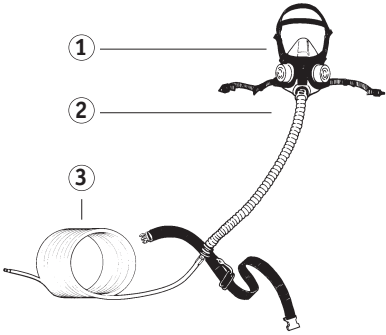
FAMBSYS

FAMB Series Airline Respirator System
• FAMB35M respirator
• EDP10 Free-Air® Pump
• V20100ST air supply hose

	Half Mask Respirator
FAMB30S	**Small Silicone Facepiece**
FAMB30M	**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

	Half Mask Respirator
FAMB35S	**Small Silicone Facepiece**
FAMB35M	**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

Mask Style Respirators

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   **Small Probed Mask Kit**
LMMPM   **Medium Probed Mask Kit**
LLMPM   **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 $3/8"$ 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 $3/8"$. 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 $1/2"$. 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
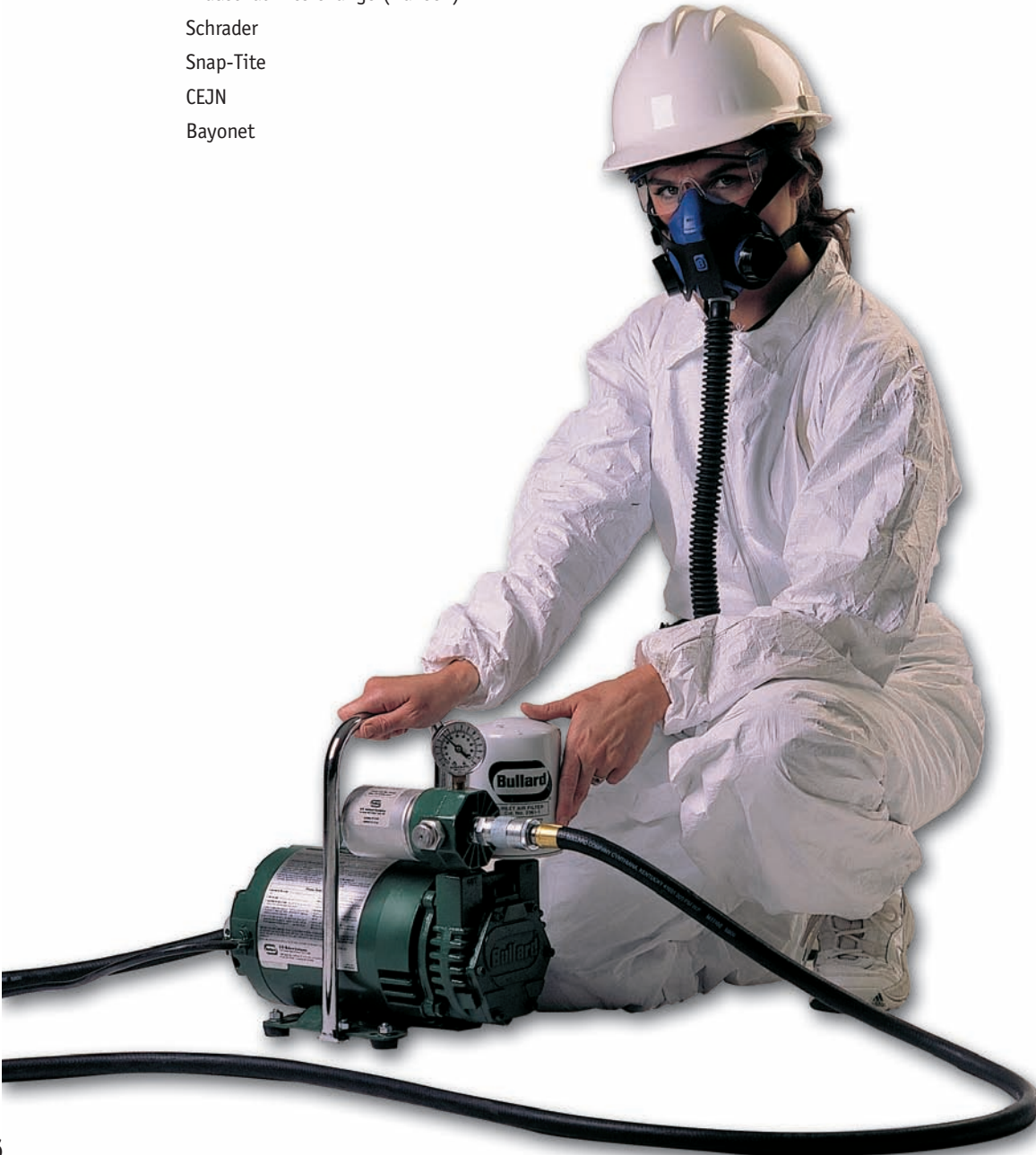
Breathing Air Supply Hose

V5 Coiled Hose for Compressed Air

25 Foot Lengths

V52530   **V5 Industrial Interchange Hose (Red)**
V52530GREEN **V5 Industrial Interchange Hose (Green)**
- $\frac{1}{4}$" 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)**
- $\frac{1}{4}$" 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)**
- $\frac{1}{4}$" 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 (Red)**
- $\frac{1}{4}$" 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

50 Foot Lengths

V55030   **V5 Industrial Interchange Hose (Red)**
V55030GREEN **V5 Industrial Interchange Hose (Green)**
- $\frac{1}{4}$" 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)**
- $\frac{1}{4}$" 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)**
- $\frac{1}{4}$" 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)**
V55033GREEN **V5 Snap-Tite Hose (Green)**
- $\frac{1}{4}$" 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

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

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

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

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

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

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

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 • $\frac{1}{2}$" 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 • $\frac{1}{2}$" industrial interchange (Hansen compatible) quick-disconnect coupler and nipple • For use with Bullard Free-Air® pumps

Hose Adapters

V11	**3/8" Hose to 3/8" Hose Adapter, Brass**

V12	**3/8" Hose to 1/4" Pipe Adapter, Brass**
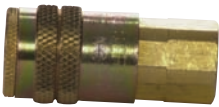
V13	**3/8" Hose to 3/8" Pipe Adapter, Brass**

Breathing Air Supply Hose

Breathing Air Supply Hose - Quick Disconnect Couplers

V14   **Industrial Interchange Female Coupler**
- $1/4$" Industrial Interchange (Hansen compatible) quick-disconnect coupler
- Includes shut-off with $1/4$" female pipe thread (NPT)
- V12 hose to pipe adapter required to connect to V10 extension hose

V15   **Industrial Interchange Female Coupler**
- $1/4$" Industrial Interchange (Hansen compatible) quick-disconnect coupler
- Includes shut-off with $3/8$" male pipe thread (NPT)

V18   **Schrader Female Coupler**
- $1/4$" Schrader quick-disconnect coupler
- Includes shut-off with $1/4$" female pipe thread (NPT)
- V12 hose to pipe adapter required to connect to V10 extension hose

V19   **Snap-Tite Female Coupler, Steel**
V19B   **Snap-Tite Female Coupler, Brass**
- $1/4$" Snap-Tite quick-disconnect coupler
- Includes shut-off with $1/4$" female pipe thread (NPT)
- V12 hose to pipe adapter required to connect to V10 extension hose

V27   **Industrial Interchange Coupler**
- $1/4$" Industrial Interchange coupler assembly
- Includes V12 hose to pipe adapter

3914   **CEJN Coupler**
- $1/4$" CEJN quick-disconnect coupler
- Includes shut-off with $1/4$" female pipe thread (NPT)
- Includes special orifice adapter which connects respirator to the airline extension hose. Use only with orifice adapter

3421   **Bayonet Coupler**
- $1/4$" Bayonet quick-disconnect coupler
- Includes shut-off with $1/4$" female pipe thread (NPT)

Breathing Air Supply Hose

Breathing Air Supply Hose - Quick Disconnect Nipples

V17   **Industrial Interchange Nipple**
- $\frac{1}{4}$" Industrial Interchange (Hansen compatible) steel male quick-disconnect nipple with $\frac{3}{8}$" female pipe thread (NPT)
- Requires V13 hose adapter to connect to Bullard V10 air supply hose

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S19432   **Schrader Nipple**
- $\frac{1}{4}$" Schrader steel male quick-disconnect nipple with $\frac{1}{4}$" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose

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S19442   **Snap-Tite Steel Nipple**
- $\frac{1}{4}$" Snap-Tite steel male quick-disconnect nipple with $\frac{1}{4}$" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose

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S19443   **Snap-Tite Brass Nipple**
- $\frac{1}{4}$" Snap-Tite brass male quick-disconnect nipple with $\frac{1}{4}$" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose

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3902   **CEJN Nipple**
- $\frac{1}{4}$" CEJN steel male quick-disconnect nipple with $\frac{1}{4}$" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose

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3420   **Bayonet Nipple**
- $\frac{1}{4}$" Bayonet steel male quick-disconnect nipple with $\frac{1}{4}$" female pipe thread (NPT)
- Requires V12 hose adapter to connect to Bullard V10 air supply hose

Body Temperature Management Devices

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 includes the AC1000, AC1000DC, ACL99 and FRIGITRON® 2000 which is 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 HC2400 cools or warms incoming air from compressed breathing air sources. It is ideally suited for early spring or late fall when the air needs warming in the morning and cooling in the afternoon. It is simple to convert the HC2400 from cool air to warm air or warm to cool. It takes the worker just seconds to convert from one mode to the other and then resume work activity.

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).

The HC2400 also features an adjustable airflow control valve that allows users to regulate the temperature of incoming air to a comfortable level.

DC50 and DC60 Series DUAL-COOL®

The DC50 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.

Specially engineered for use with the PC90 Series airline containment respirator, the DC60 DUAL-COOL cools air by as much as 30°F (17°C). This air-supplied system combines a breathing tube, dual-cool tube, cooling vest and one breathing air-supply hose to cool workers and maximize productivity.

The DC60 Series features separate air entries to deliver air to the vest and to the breathing zone. Separate control knobs allow the worker to adjust the temperature of air to each air entry.

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)			●			

* Consumes approximately 15 CFM (including the hood).
**Consumes approximately 20 CFM (including the hood).

Body Temperature Management Devices

Cool Tubes: AC1000 Assemblies & Accessories

	Cool Tube Assemblies
AC1000	**1/4" Industrial Interchange (Hansen Compatible)**
	Quick-Disconnect Nipple
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**
AC100037	**1/4" CEJN steel nipple**

- Adjustable temperature control
- 4612 nylon belt
- Approved for use with 88VX, CC20, RT (except AC100033 and AC100037) and GR50 Series respirators
- For use with compressed air

AC100038   1/4" Bayonet Steel Quick-Disconnect Nipple

- Adjustable temperature control
- 4612 nylon belt
- Approved for use with 88VX Series respirators only
- For use with compressed air

AC1000DC   Cool Tube Assembly for Use with DC70 Vest

- $1/4$" Industrial Interchange (Hansen compatible) steel nipple
- Adjustable temperature control
- 4612 nylon belt
- CH1000 connector hose and belt
- For use with compressed air

HS   Leather Heat Shield

- For use with AC1000, HC2400 and ACL99 assemblies

4611   Fire Retardant Belt

4612   Nylon Belt

36501   Vinyl Decon Belt

Body Temperature Management

Body Temperature Management Devices

Frigitron2000 Assemblies & Accessories

FRIGITRON2000 Cool Tube Assembly for Bullard Free-Air® Pumps
- $\frac{1}{2}$" 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 Bullard Free-Air® Pumps (ADP20 and EDP30 models only)
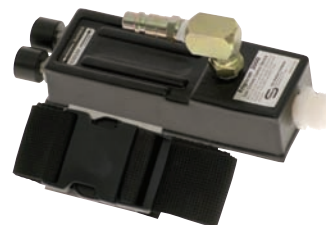
4611	Fire Retardant Belt

4612	Nylon Belt

36501	Vinyl Decon Belt

ACL99 Assemblies & Accessories

ACL99 **Cool Tube Assembly**
- $\frac{1}{4}$" Industrial Interchange (Hansen compatible) quick-disconnect nipple
- 4612 nylon belt
- Approved for use with Lancer® Series Respirator
- For use with compressed air

HS **Leather Heat Shield**
- For use with AC1000, HC2400 and ACL99 assemblies

4611	Fire Retardant Belt

4612	Nylon Belt

36501	Vinyl Decon Belt

Body Temperature Management Devices

Hot/Cold Tubes Assemblies & Accessories

	Hot/Cold Tube Assemblies
HC2400	**1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple**
HC240031	**1/4" Schrader Steel Quick-Disconnect Nipple**
HC240032	**1/4" Snap-Tite Steel Quick-Disconnect Nipple**
HC240033	**1/4" Snap-Tite Brass Quick-Disconnect Nipple**
HC240037	**1/4" CEJN stainless steel nipple**

- Adjustable temperature control
- 4612 nylon belt
- Approved for use with 88VX, CC20, RT (except AC100033 and AC100037)and GR50 Series respirators
- For use with compressed air

HC240038   **Hot/Cold Tube Assembly for use with 88VX Respirator Only**
1/4" Bayonet Steel Quick-Disconnect Nipple

MV2400   **HC2400 Muffler/Valve Assembly**

HC2400BB   **HC2400 Belt Bracket**

HS   **Leather Heat Shield**
- For use with AC1000, HC2400 and ACL99 assemblies

4611   **Fire Retardant Belt**

4612   **Nylon Belt**

36501   **Decon Belt**

Body Temperature Management Devices

Cooling Vests & Components: DC65 Series

DC65ML	**Medium/Large Cooling Vest**
DC65XLXXL	**Extra-Large/XX-Large Cooling Vest**

• For use with PC90 Series respirator

	DUAL-COOL™ Assemblies
DC6040	**1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple**
DC6041	**1/4" Schrader Quick-Disconnect Nipple**
DC6042	**1/4" Snap-Tite Steel Quick-Disconnect Nipple**
DC6043	**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
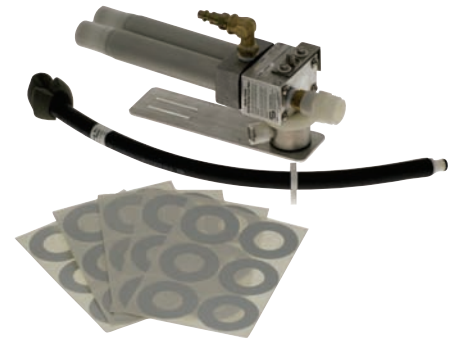
DC70 Series

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 & Components: DC5040 Series

	DUAL-COOL™ Assemblies
DC5040	**1/4" Industrial Interchange (Hansen compatible) Quick-Disconnect Nipple**
DC5041	**1/4" Schrader Quick Disconnect Nipple**
DC5042	**1/4" Snap-Tite Steel Quick Disconnect Nipple**
DC5043	**1/4" Snap-Tite Brass Quick Disconnect Nipple**
DC5044	**1/4" Snap-Tite Stainless Steel Quick Disconnect Nipple**
DC5047	**1/4" CEJN Quick Disconnect Nipple**

- Adjustable temperature control
- CH60 connector hose and 4612 nylon belt
- Must be used with DC70 vests
- Approved for use with 88VX, CC20 and GR50 Series respirators
- For use with compressed air

DC5048	**DUAL-COOL™ Assembly for use with 88VX Respirator Only** **1/4" Bayonet Steel Quick Disconnect Nipple**

CH1000	**AC1000DC Connector Hose**

CH60	**DC5040 DUAL-COOL™ Connector Hose**

Cooling Vest Accessories

HS	**Leather Heat Shield**
	• For use with AC1000, HC2400 and ACL99 assemblies

4611	**Fire Retardant Belt**

4612	**Nylon Belt**

36501	**Decon Belt**

Breathing Air Filtration

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.

Breathing Air Filtration

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 of air in outer cylinder

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

Outlet
Connector
(B)
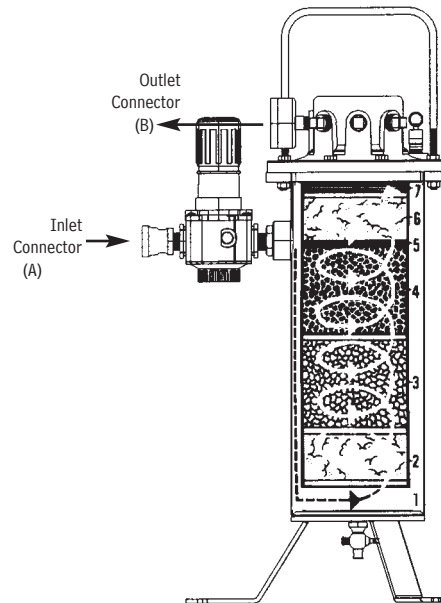
Inlet
Connector
(A)

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)					

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
- Shipping weight: 22 lbs. Cube: 2.9

41P2

2-Outlet
- 1" NPT inlet, $\frac{1}{4}$" and $\frac{3}{8}$" 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: 2.9

41P6

6-Outlet
- 1" NPT inlet, $\frac{3}{8}$" 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**
- $1/4$" 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

Free-Air® Pumps

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.
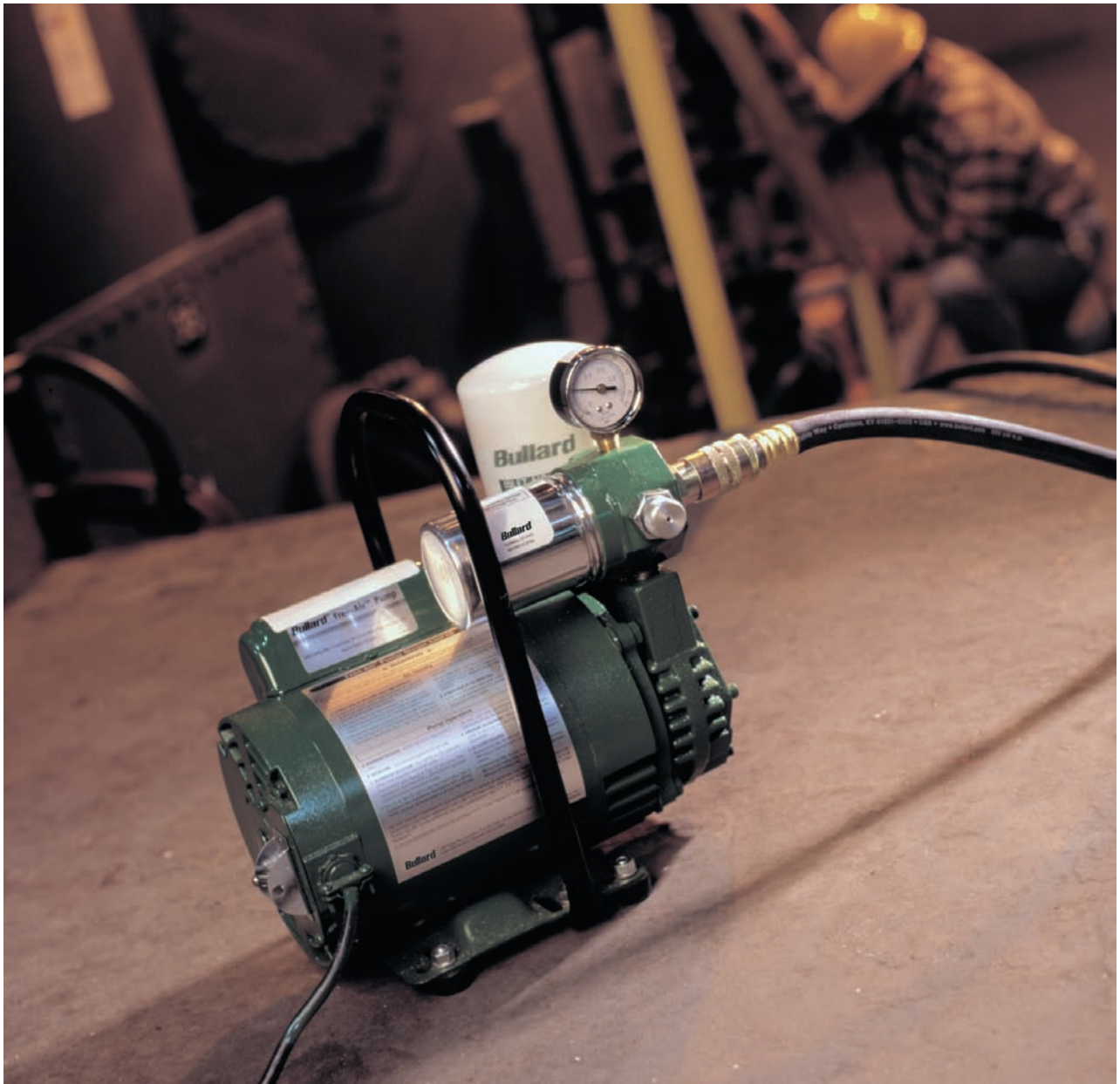
Free-Air® Pumps

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

23611
inlet filter

263552
O-Ring
(not shown)

244852
outlet filter jar

Air inlet
stand pipe

S17101
outlet filter
cartridge

S09853
pressure gauge
0-200 psig

S19683
pressure gauge
0-30 psig

S16191
quick-disconnect
coupler

15922
Service Kit
(not shown)

4621
Manifold Muffler

17761
Air Motor
Service Kit
(not shown)
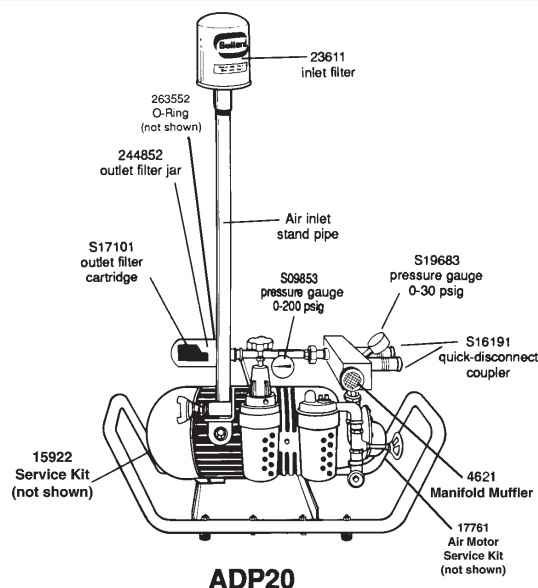
ADP20

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**

Breathing Air Filtration

Free-Air® Pumps

ADP20 Replacement Parts

4621   **ADP20 Manifold Muffler**

15922   **Service Kit**
- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge

21052   **Conversion Kit**
- Conversion components - ADP16 or ADP3CA to ADP20

S19683   **Pressure Gauge, 0-30 PSI**

S16191   **Quick-Disconnect Coupler**
- $\frac{1}{2}$" Industrial Interchange (Hansen compatible), shut-off
- $\frac{3}{8}$" NPT Pipe Thread

Free-Air® Pumps

ADP20 Replacement Parts

23611	**Inlet Filter** • Change every 500 hours or as required • One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 & EDP50	
244852	**Outlet Filter Jar**	
263552	**Outlet Filter Assembly O-Ring**	
S17101	**Outlet Filter** • Carbofine (change every 200 hours or as required) • One required for EDP10, EDP16TE/HAZ, ADP20; 4 required for EDP30; eight required for EDP50	
S17931	**Cleaning Solvent, 14 oz. Aerosol Can**	
V22	**Quick-Disconnect Coupler Adapter** • Converts pump's quick-disconnect coupler to double $3/8$" female NPT	
V23	**Quick-Disconnect Adapter** • Converts pump's quick-disconnect coupler to single $3/8$" female NPT	

V24	**Quick-Disconnect Coupler Splitter/Adapter**
	• Converts pump's quick-disconnect coupler to
	  double 1/2" Industrial Interchange female couplers
	  (one flow through, one shut-off)	

V50EX	**Remote Extension Hose Kit** • 50-ft. length • Connects to V50IN to extend length • Maximum five per pump • $1 1/2$" ID	
V50IN	**Remote Inlet Air Hose Kit** • 50-ft. length • Connects to pump for remote location of inlet filter • Maximum one per pump • $1 1/2$" ID	

Breathing Air Filtration

Free-Air® Pumps

Electric Driven Pumps

EDP10	**One to Two Person Pump**

- $3/4$ 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 $1/2$" Industrial Interchange (Hansen compatible) quick-disconnect coupler
- Shipping Weight: 60 lbs.

EDP10 Replacement Parts

244852
Outlet Filter Jar

23611
Inlet Filter

222752
Handle

S19681
Pressure Gauge

S17101
Outlet Filter
Cartridge

S16483
Quick-Disconnect
Coupler

15921
Service Kit
(not shown)

263552
O-Ring
(not shown)
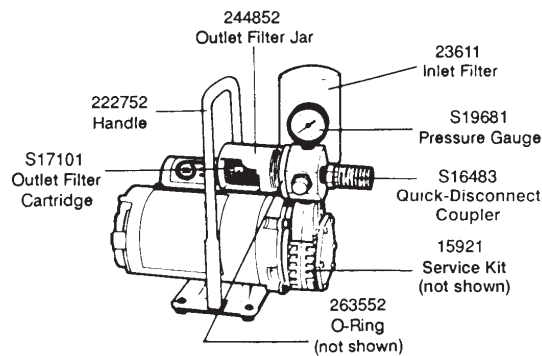
EDP10

15921	**Service Kit**

- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge

S19681	**Pressure Gauge, 0-15 PSI**

S16483	**Quick-Disconnect Coupler**

- $1/2$" Industrial Interchange, flow-through
- $3/4$" NPT pipe thread

Free-Air® Pumps

EDP10 Replacement Parts

23611	**Inlet Filter**
	• Change every 500 hours or as required
	• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 & EDP50

244852	**Outlet Filter Jar**

263552	**Outlet Filter Assembly O-Ring**

S17101	**Outlet Filter**
	• Carbofine (change every 200 hours or as required)
	• One required for EDP10, EDP16TE/HAZ, ADP20; fpur required for EDP30; eight required for EDP50

S17931	**Cleaning Solvent, 14 oz. Aerosol Can**

V22	**Quick-Disconnect Coupler Adapter**
	• Converts pump's quick-disconnect coupler to double $3/8$" female NPT

V23	**Quick-Disconnect Adapter**
	• Converts pump's quick-disconnect coupler to single $3/8$" female NPT

V24	**Quick-Disconnect Coupler Splitter/Adapter**
	• Converts pump's quick-disconnect coupler to double $1/2$" Industrial Interchange female couplers (one flow-through, one shut-off)

V50EX	**Remote Extension Hose Kit**
	• 50-ft. length
	• Connects to V50IN to extend length
	• Maximum five per pump
	• 1 $1/2$" ID

V50IN	**Remote Inlet Air Hose Kit**
	• 50-ft. length
	• Connects to pump for remote location of inlet filter
	• Maximum one per pump
	• 1 $1/2$" ID

Free-Air® Pumps

Electric Driven Pumps

EDP16TE   **Two to Three Person Pump**
- 1 $\frac{1}{2}$ HP electric-driven, oil-less air pump with totally enclosed fan-cooled motor drive (TFEC)
- Supplies air to two hood-style or 3 half or full face mask airline respirators
- Inlet and outlet filter cartridges
- Pressure gauge (0-30 psig)
- Electrical cord and On/Off switch
- Two $\frac{1}{2}$" Industrial Interchange (Hansen compatible) quick-disconnect couplers
- Shipping Weight: 100 lbs

EDP16HAZ   **Two to Three Person Hazardous Duty Pump (Not Pictured)**
- 1 $\frac{1}{2}$ 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/contactor to be supplied by user
- Two $\frac{1}{2}$" Industrial Interchange (Hansen compatible) quick-disconnect couplers
- Shipping Weight: 100 lbs.

EDP16 Replacement Parts

EDP16HAZ
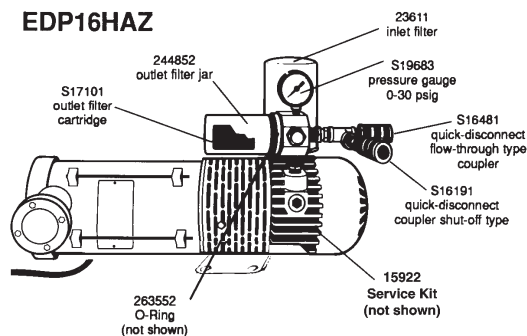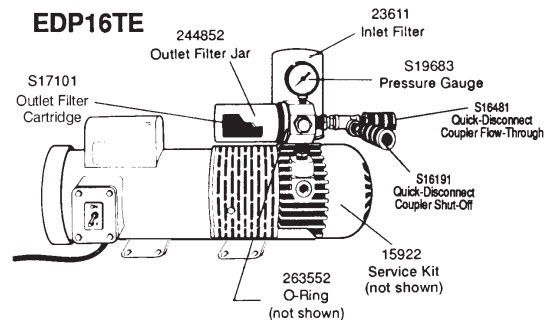
23611 inlet filter

244852 outlet filter jar

S17101 outlet filter cartridge

S19683 pressure gauge 0-30 psig

S16481 quick-disconnect flow-through type coupler

S16191 quick-disconnect coupler shut-off type

263552 O-Ring (not shown)

15922 Service Kit (not shown)

EDP16TE

23611 Inlet Filter

244852 Outlet Filter Jar

S17101 Outlet Filter Cartridge

S19683 Pressure Gauge

S16481 Quick-Disconnect Coupler Flow-Through

S16191 Quick-Disconnect Coupler Shut-Off

15922 Service Kit (not shown)

263552 O-Ring (not shown)

15922   **Service Kit**
- Four carbon vanes
- 23611 inlet filter
- S17101 outlet filter cartridge

S19683   **Pressure Gauge, 0-30 PSI**

S16191   **Quick-Disconnect Coupler**
- $\frac{1}{2}$" Industrial Interchange (Hansen compatible), shut-off
- $\frac{3}{8}$" NPT Pipe Thread

S16481   **Quick-Disconnect Coupler**
- $\frac{1}{2}$" Industrial Interchange (Hansen compatible), flow-through
- $\frac{3}{8}$" NPT Pipe Thread

Free-Air® Pumps

EDP16HAZ/EDP16TE Replacement Parts

23611	**Inlet Filter** • Change every 500 hours or as required • One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 & EDP50	

244852	**Outlet Filter Jar**	

263552	**Outlet Filter Assembly O-Ring**	

S17101	**Outlet Filter** • Carbofine (change every 200 hours or as required) • One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50	

S17931	**Cleaning Solvent, 14 oz. Aerosol Can**	

V22	**Quick-Disconnect Coupler Adapter** • Converts pump's quick-disconnect coupler to double $^3/_8$" Female NPT	

V23	**Quick-Disconnect Adapter** • Converts pump's quick-disconnect coupler to single $^3/_8$" Female NPT	

V24	**Quick-Disconnect Coupler Splitter/Adapter** • Converts pump's quick-disconnect coupler to double $^1/_2$" Industrial Interchange female couplers (one flow through, one shut-off)	

V50EX	**Remote Extension Hose Kit** • 50-ft. length • Connects to V50IN to extend length • Maximum five per pump • 1 $^1/_2$" ID	

V50IN	**Remote Inlet Air Hose Kit** • 50-ft. length • Connects to pump for remote location of inlet filter • Maximum one per pump • 1 $^1/_2$" ID	

Breathing Air Filtration

Free-Air® Pumps

Electric Driven Pumps

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.

EDP30A208	**Single Phase 5 HP Motor, 208 Volt**
EDP30A230	**Single Phase 5 HP Motor, 230 Volt**
EDP30B208	**Three Phase 5 HP Motor, Reversing Starter, 208 Volt**
EDP30B230	**Three Phase 5 HP Motor, Reversing Starter, 230 Volt**
EDP30B460	**Three Phase 5 HP Motor, Reversing Starter, 460 Volt**
EDP30C208	**Three Phase 7.5 HP Motor, Reversing Starter, 208 Volt**
EDP30C230	**Three Phase 7.5 HP Motor, Reversing Starter, 230 Volt**
EDP30C460	**Three Phase 7.5 HP Motor, Reversing Starter, 460 Volt**

Free-Air® Pumps

EDP30 Replacement Parts

V60	**Pod Extension Hose**
	• 100 Feet
	• 1 $\frac{1}{4}$" I.D.
	• Three per pod maximum

26701   **Pod Gasket (Filter Side)**

27161   **Pod Gasket (Cover Side)**

28151   **EDP30 Pressure Relief Valve**

28152   **EDP50 Pressure Relief Valve**

S16191	**Quick-Disconnect Coupler**
	• $\frac{1}{2}$" Industrial Interchange (Hansen compatible), shut-off
	• $\frac{3}{8}$" NPT pipe thread

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 ¼" ID aluminum	
S2090	**Kamlok Coupler (Manifold)** • 1 ¼" ID aluminum	
15924	**Service Kit** • Four carbon vanes • Two bearings • Two cover gaskets	

Free-Air® Pumps

EDP30 Replacement Parts

23611	**Inlet Filter**
	• Change every 500 hours or as required
	• One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 & EDP50

244852	**Outlet Filter Jar**

263552	**Outlet Filter Assembly O-Ring**

S17101	**Outlet Filter**
	• Carbofine (change every 200 hours or as required)
	• One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50

S17931	**Cleaning Solvent, 14 oz. Aerosol Can**

V22	**Quick-Disconnect Coupler Adapter**
	• Converts pump's quick-disconnect coupler to double $3/8$" Female NPT

V23	**Quick-Disconnect Adapter**
	• Converts pump's quick-disconnect coupler to single $3/8$" Female NPT

V24	**Quick-Disconnect Coupler Splitter/Adapter**
	• Converts pump's quick-disconnect coupler to double $1/2$" Industrial Interchange female couplers (one flow through, one shut-off)

V50EX	**Remote Extension Hose Kit**
	• 50-ft. length
	• Connects to V50IN to extend length
	• Maximum five per pump
	• 1 $1/2$" ID

V50IN	**Remote Inlet Air Hose Kit**
	• 50-ft. length
	• Connects to pump for remote location of inlet filter
	• Maximum one per pump
	• 1 $1/2$" ID

Free-Air® Pumps

Electric Driven Pumps

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.

EDP50A208	**Single Phase 5 HP Motor, 208 Volt**
EDP50A230	**Single Phase 5 HP Motor, 230 Volt**
EDP50B208	**Three Phase 5 HP Motor, Reversing Starter, 208 Volt**
EDP50B230	**Three Phase 5 HP Motor, Reversing Starter, 230 Volt**
EDP50B460	**Three Phase 5 HP Motor, Reversing Starter, 460 Volt**
EDP50C208	**Three Phase 7.5 HP Motor, Reversing Starter, 208 Volt**
EDP50C230	**Three Phase 7.5 HP Motor, Reversing Starter, 230 Volt**
EDP50C460	**Three Phase 7.5 HP Motor, Reversing Starter, 460 Volt**

Free-Air® Pumps

EDP50 Replacement Parts

V60 **Pod Extension Hose**
- 100 Feet
- 1 $\frac{1}{4}$" ID
- Three per pod maximum

26701 **Pod Gasket (Filter Side)**

27161 **Pod Gasket (Cover Side)**

28151 **EDP30 Pressure Relief Valve**

28152 **EDP50 Pressure Relief Valve**

S16191 **Quick-Disconnect Coupler**
- $\frac{1}{2}$" Industrial Interchange (Hansen compatible), shut-off
- $\frac{3}{8}$" NPT pipe thread

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 ¼" ID aluminum

S2090 **Kamlok Coupler (Manifold)**
- 1 ¼" ID aluminum

15924 **Service Kit**
- Four carbon vanes
- Two bearings
- Two cover gaskets

Free-Air® Pumps

EDP50 Replacement Parts

23611	**Inlet Filter** • Change every 500 hours or as required • One required for EDP10, EDP16TE/HAZ, ADP20; two required for EDP30 & EDP50	
244852	**Outlet Filter Jar**	
263552	**Outlet Filter Assembly O-Ring**	
S17101	**Outlet Filter** • Carbofine (change every 200 hours or as required) • One required for EDP10, EDP16TE/HAZ, ADP20; four required for EDP30; eight required for EDP50	
S17931	**Cleaning Solvent, 14 oz. Aerosol Can**	
V22	**Quick-Disconnect Coupler Adapter** • Converts pump's quick-disconnect coupler to double $3/8$" Female NPT	
V23	**Quick-Disconnect Adapter** • Converts pump's quick-disconnect coupler to single $3/8$" Female NPT	
V24	**Quick-Disconnect Coupler Splitter/Adapter** • Converts pump's quick-disconnect coupler to double $1/2$" Industrial Interchange female couplers (One flow-through, one shut-off)	
V50EX	**Remote Extension Hose Kit** • 50-ft. length • Connects to V50IN to extend length • Maximum five per pump • $1\,1/2$" ID	
V50IN	**Remote Inlet Air Hose Kit** • 50-ft. length • Connects to pump for remote location of inlet filter • Maximum one per pump • $1\,1/2$" ID	

Breathing Air Filtration

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