

SafeArmor™

AL3000

Aluminized Suit With Supplied Air Respirator & Vortex Cooling Device

An Aluminized Suit with Para-Aramid-Fabric A 370 K PES 6 µm is a high-performance protective garment designed for work in extreme heat environments. The aluminized outer layer reflects radiant heat, while the Para-Aramid-Fabric provides excellent thermal insulation, helping protect the wearer from high temperatures, molten metal splashes, and intense radiant heat.

Applications

- Foundries and metal casting operations
- Hot-metal handling
- Steel plants and rolling mills
- Glass manufacturing and processing
- Firefighting in industrial high-temperature environments



Product Specification

Outer Fabric	Aluminized Para-Aramid-Fabric A 370 K PES 6 µm
Outer Fabric GSM	500 GSM
Lining Fabric	100% Cotton FR
Thermal Barrier	Woolen Insulation Fabric
Thread	Heavy Duty P-Aramide Thread
Approvals for Aluminized Suit	EN ISO 11612:2015 (A1. B1. C3. D3. E3. F1)
Approvals for Hard Hood	EN 166: 2001, EN 397:2012+A1:2012
Approvals for Low Pressure PVC Hose	EN 14593 1/2:2005 & EN 14594:2005 : Heavy duty (class B), AS/NZS 1716:2012

Fabric Performance as per EN ISO 11612

Limited flame spread	A1
Convective heat	B1
Radiant heat	C3
Molten aluminium splash	D3
Molten iron splash	E3
Contact heat	F1



Set Consists Of

- Aluminized Jacket + Pant or Aluminized 1 Piece Coverall.
- Aluminized Hood with Visor, hard hood (HH500) with Quick Release Breathing Tube & Aluminised Breathing Tube Cover .
- Aluminized 5 fingered Gloves.
- Aluminized Boots.
- Vortex Cooling Device (CAVX01).
- Low Pressure PVC Hose (CA101-Series).
- SAR Regulator Panel (CA300AFI).

Optional

- Breathing Apparatus Pouch
- Hood stitched with Coat or Hood stitched with 1 Piece Overall.

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Jacket

- **Full-Sleeve Design:** Ensures complete protection for arms and upper body during high-heat operations.
- **High Collar:** Offers added protection to the neck area from radiant heat and sparks.
- **Front Opening with Overlap Closure:** Designed to reduce heat ingress while allowing easy wearing and removal.

Pant

- **High-Waist Bib Design:** Offers extended protection to the lower torso, abdomen, and upper thighs.
- **Adjustable Shoulder Suspenders:** Heavy-duty elastic suspenders ensure a secure, comfortable fit and distribute weight evenly.



Gloves



- **Extended Cuff Design:** Long cuffs protect wrists and lower forearms from heat, sparks, and splashes.
- **Flexible & Ergonomic Fit:** Designed to allow hand movement and grip without compromising protection.
- **Comfortable Inner Feel:** Lining helps reduce heat discomfort during prolonged use.

Boots



- **Side Zipper Closure:** Heavy-duty zipper enables quick wearing and removal while ensuring a secure fit.
- **High-Ankle Coverage:** Extended height offers enhanced protection to ankles and lower legs.
- **Slip-Resistant Rubber Sole:** Deep tread pattern ensures strong grip and stability on industrial floors.

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Hood

- **Heat-Resistant Viewing Visor:** Integrated visor offers clear visibility while protecting the face from radiant heat and sparks.
- **Full Head & Neck Coverage:** Designed to cover head, neck, and shoulders for comprehensive protection.



Hard Hood

- **Impact-Resistant Hard Shell:** Certified hard hood provides reliable head protection against impact while ensuring durability in demanding industrial environments.
- **Panoramic Viewing Visor:** Large, optically clear polycarbonate visor delivers an extra-wide field of vision while protecting the face from dust, flying particles, and sparks.
- **Integrated Respiratory Protection:** Designed for seamless use with the ConAer® SAR Regulator Panel with Vortex Cooling Device(CAVX01) delivering cool airflow for comfortable breathing.
- **Adjustable Comfort Fit:** Multi-point adjustable headgear with ratchet suspension and airflow direction control ensures a secure, balanced, and comfortable fit during extended use.



Quick Release Breathing Tube with Aluminised Breathing Tube Cover

- **Convenient Bayonet Fitting:** Features a bayonet-style connector for quick and secure attachment to air ducts.
- **One-Hand Installation:** Designed for effortless snapping into place, allowing easy installation with a single hand.
- **Flexible Hose Design:** Corrugated structure ensures durability and flexibility for comfortable use in breathing systems.
- **Reliable Connection:** Provides a firm seal to maintain consistent airflow and safety during operation.
- **Aluminised Breathing Tube Cover:** Shields against sparks, molten metal, and hot particles that could damage the tube.



Vortex Cooling Device

- **Integrated Respiratory Protection:** Designed for seamless integration with ConAer® Supplied Air Respirator (SAR) systems to efficiently cool incoming compressed air, ensuring a steady flow of refreshing, breathable air throughout the work shift.
- **Optimal Thermal Comfort:** Specifically engineered to deliver exceptional comfort for operators working in hot, humid, and demanding industrial environments.
- **Variable Cooling Performance:** Capable of significantly reducing air temperature based on input pressure lowering temperatures by 14°C to 19°C at 3 bar, up to a maximum reduction of 18°C to 24°C at 5 bar.



Bison Life CEJN Straight Hose

- CEJN Bison Life Straight Hose comes with 25-102 feet length along with CEJN Series 342 couplings and nipples.
- Fulfills requirements acc. EN 14593 1/2:2005 and EN 14594:2005 : Heavy duty (class B), AS/NZS 1716:2012
- Valid for working temperature at +20°C

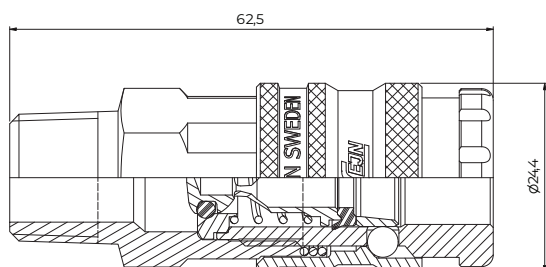
Specification

Max. working pressure	10 bar (145 PSI)
Min. burst pressure	25 bar (362 PSI*)
Temperature range	-20°C - +60°C (-4°F - +140°F)
Hose material	Ester-based polyurethane, Non-Braided
ID x OD (MM)	6,5 x 10 o 8 x 12

Features

- Resistance to sparks from welding and grinding
- Color Green
- Light and flexible with very good rebound qualities
- Excellent resistance to oils, solvents and other non-aqueous solutions
- Long service life
- Other series couplings/nipples upon request

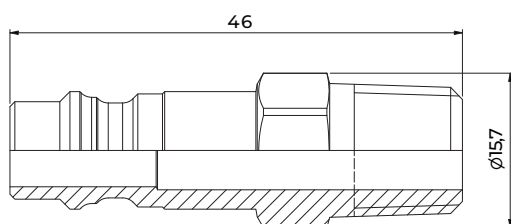
Bison Life CEJN Coupling (Code-342 Series)



Specification

Nominal flow Ø DN	7.4 mm
Connection Stroke	22.7 mm
Max WP Connected	35 bar
Min BP Connected	140 bar
Temperature range	-30°C - +100°C
Connection	R 3/8" Male
Sealing material	NBR
Hexagon	20

Bison Life CEJN Nipple (Code-342 Series)



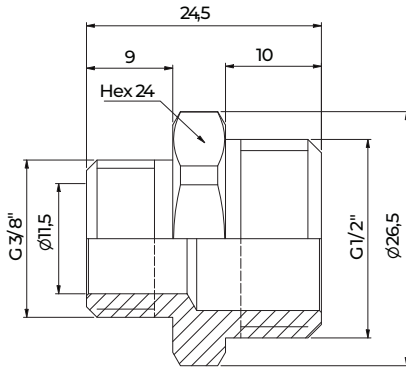
Specification

Nominal flow Ø DN	7.4 mm
Connection Stroke	mm
Max WP Connected	35 bar
Min BP Connected	140 bar
Temperature range	-30°C - +100°C
Connection	R 1/4" Male
Hexagon	14
Material	Steel, Hard. Plated

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Bison Life CEJN Adapter



Max. working pressure: 35 bar (507 PSI)

Material : Brass, plated



SAR Regulator Panel

- **Advanced Filtration & Regulation:** Three-stage filtration system with brass, coalescing, and fine particle filters to remove oil, water, dirt, rust, and odors from compressed air, ensuring clean breathable supply.
- **Reliable Respiratory Safety:** Designed for seamless integration with ConAer® Supplied Air Respirators (SAR), providing consistent air quality for helmets, hoods, and facepieces.
- **High Performance Capacity:** Rated for up to 50 cfm airflow at 105 psi, with adjustable outlet pressure range of 0–115 psi, supporting demanding industrial applications.
- **Smart Maintenance Features:** Equipped with auto drain valves and a filter change indicator that signals replacement needs, reducing downtime and ensuring continuous protection.

Specification

Inlet pressure (max.)	150 psi static
Rated air flow (max.)	50 cfm (1416 L/min) at 105 psi
Inlet pressure (recommended)	90 to 120 psi (6.2-8.3 bar)
Outlet pressure range	0 to 115±5 psi (0 to 7.2±0.34 bar)

Packaging Information

1 Set / Kit

