Z-Link® respirator

Protecting you for life's best moments.

TECHNICAL DATA SHEET GVS-RPB.COM

Approvals & Standards

ISO9001 CERTIFIED COMPANY

NIOSH APPROVED
TYPE C PAPR & SAR

ANSI
S3.19
HEARING PROTECTION
Only in conjunction with 18-533 earmuffs.

Z89.1
HARD HAT PROTECTION
Type 1 Class C

Z87+
EYE & FACE PROTECTION

PRODUCT CERTIFICATION
BSI Certified Product
AS/NZS 1716:2012
BMP# 714303
RESPIRATORY PROTECTION

AS/NZS 1801:1997
BMP# 714306
HARD HAT PROTECTION
Not all configurations conform to this standard.
Please visit gvs-rpb.com for more details.

AS/NZS 1337.1:2010
BMP# 714304
EYE & FACE PROTECTION

CE 2797
UKCA 0086
EN14594:2018 3B
EN12941:2023 TH3/2
RESPIRATORY PROTECTION
See instruction manual for protection levels.

EN352-3:2020
HEARING PROTECTION
Only in conjunction with 18-533 earmuffs and 18-534 SENA Tufftalk M-02.

EN397:2012+A1:2012
HARD HAT PROTECTION

EN166:2001 CLASS 1 BT 9 3
EYE & FACE PROTECTION

EN ISO 11612: 2015 CLAUSE 7.4 LEVEL D3
MOLTEN ALUMINUM SPLASH
Only when used with Zytec®

EN 14325: 2018 CLASS 6
ABRASION RESISTANCE
Only when used with Zytec®

EN ISO 11612: 2015 CLAUSE 7.5 LEVEL E3
MOLTEN IRON SPLASH
Only when used with Zytec®

c SEI
Certified Model
Modèle certifié

CSA Z94.3-15
EYE & FACE PROTECTION
Class 7D Respirator Facepiece
PROTECTION DES YEUX ET DU VISAGE
Masque respiratoire classe 7D



16-010-21 - Z-Link with optional 16-810-IR5 lens

The GVS-RPB Z-Link is a multi-use powered or supplied air loose-fitting respirator, covering a number of different industrial applications where there is a need for respiratory, eye, face, head, and hearing protection.

This respirator does not require face fit testing.

Type description

Loose fitting continuous flow supplied air respirator or powered air purifying respirator.

The Z-Link offers a number of optional accessory items, including:	Part #
Z-Link+® Weld Visor accessory	16-670/16-640
Quiet-Link™ Ear Defender system (under the cape so user maintains APF 1000(US)/TH3 (EU) respiratory protection)	18-533
Vision-Link™ helmet light	16-901
Comms-Link™ in-helmet communication system	16-922
IR Shade 5 lens (other lenses available)	16-810-IR5
FR Breathing Tube Cover	04-854

Package numbers	Part #
Breathing tube, PAPR or flow device sold separately.	
NIOSH Powered Air - PX5®	
Z-Link with Tychem® 2000 Face Seal	16-018-12
Z-Link with Zytec® FR Face Seal	16-018-11-FR
Z-Link with Zytec FR Shoulder Cape	16-018-21-FR
NIOSH Supplied Air (includes breathing tube and C40™)	
Z-Link with Tychem® 2000 Face Seal	16-015-12
Z-Link with Zytec FR Face Seal	16-015-11-FR
Z-Link with Zytec FR Shoulder Cape	16-015-21-FR
CE/AS/NZS Powered Air - PX5	
Z-Link with Tychem® 2000 Face Seal	16-018-12-CE
Z-Link with Zytec FR Face Seal	16-018-11-CE
Z-Link with Zytec FR Shoulder Cape	16-018-21-CE
CE/AS/NZS Supplied Air	
Z-Link with Tychem® 2000 Face Seal	16-020-12
Z-Link with Zytec FR Face Seal	16-020-11
Z-Link with Zytec FR Shoulder Cape	16-020-21

(additional configurations are available)

Z-Link® respirator

Protecting you for life's best moments.

Required components

- Z-Link respirator head-top
- Cape, face seal, or chin seal
- Breathing tube
- Flow control device and breathing airline, or GVS-RPB PAPR

Required Component Options

Breathing airlines		Part #
NIOSH		
RPB	25ft Breathing Airline	NV2028
	50ft Breathing Airline	NV2029
	100ft Breathing Airline	NV2027
Schrader	25ft Breathing Airline	04-342-25
	50ft Breathing Airline	04-342-50
	100ft Breathing Airline	04-342-100
RZ	25ft Breathing Airline	04-352-25-RZ
	50ft Breathing Airline	04-352-50-RZ
	100ft Breathing Airline	04-352-100-RZ
Standard hoses max working length - 300ft Max working pressure - 300psi		
RPB	15ft recoil hose*	04-412-15
	25ft recoil hose*	04-412-25
Schrader	15ft recoil hose*	04-442-15
	25ft recoil hose *	04-442-25
Recoil hose max working length - 1 hose Max working pressure - 300psi		
CE/AS/NZS		
CEJN	7.5m Breathing Airline	04-322-25
	15m Breathing Airline	04-322-50
	30m Breathing Airline	04-322-100
Max working length - 90m Max working pressure - 20.7bar		
Refer to instruction manual for more detail		

Flow control devices		Part #
NIOSH	C40™ Climate Control Device	03-501
	Constant Flow Valve	03-101
	PX5 PAPR	03-801
	HX5™ PAPR	03-601
CE/AS/NZS	C40 Climate Control Device	03-502
	Constant Flow Valve	03-102
	PX5 PAPR	03-801-G

Fittings and couplers	
NIOSH	GVS-RPB Quick Connect Schrader Twist Connect GVS-RPB RZ Quick Connect
CE/AS/NZS	CEJN 342 Double Action Safety Coupler

Breathing Tubes	Part #
Supplied Air	04-833
Powered Air	04-831
Powered Air - short for backpack	04-841

Cape options	Part #
Zytec FR Face Seal	16-711
Zytec FR Shoulder Cape	16-721
Tychem® 2000 Face Seal	16-712
Tychem® 2000 Shoulder Cape	16-722
Tychem® 4000 Face Seal	16-713
Tychem® 4000 Shoulder Cape	16-723
Zytec FR Chin Seal (Reduced APF)	16-731

Accessories & Consumables

Accessories	Part #
Z-Link+ clip on weld visor assembly - RPB	16-670
Z-Link+ clip on weld visor assembly - GVS	16-640
Vision-Link helmet mounted light	16-910
Quiet-Link in-helmet mounted ear defenders	18-533
SENA Tufftalk M-02 communication earmuffs	18-534
Comms-Link in-helmet communication	16-922
Comfort-Link™ helmet padding system	16-520-T
FR breathing tube cover	04-814

Safety lens options	Part #
Safety Lens Anti-Fog/Anti-Scratch	16-810
Safety Lens Anti-Fog/Anti-Scratch (K thickness)	16-810-AF
Mirror Tinted Anti-Fog	16-810-MT
Smoke Tinted Anti-Fog/Anti-Scratch	16-810-ST
Infrared (Shade 5)	16-810-IR5
Yellow Tinted Anti-Fog/Anti-Scratch	16-810-YT
Tear-off Lens	16-811

Z-Link® respirator

Protecting you for life's best moments.

Specifications

NIOSH

PAPR MODEL	APPARATUS MODEL	ASSIGNED PROTECTION FACTOR (APF)
PX5, HX5	Shoulder Cape or Face Seal	1000+
PX5, HX5	Chin seal	500+

CE/AS/NZS

PAPR MODEL	APPARATUS MODEL	DEVICE CLASSIFICATION EN 12941
PX5	Shoulder Cape	TH3
PX5	Face Seal	TH2
PX5	Chin Seal	TH2

CE/AS/NZS SAR Protection

3B

Materials

Nylon	Injection molded parts
Polyurethane foam	Silencer foam, comfort padding
Polystyrene	Impact absorber
Polypropylene	Visor
MDPE	Head suspension
Polycarbonate	Safety lens
Tychem® 2000	Cape, face seal
Tychem® 4000	Cape, face seal with sealed seams
Zytec	Cape, face seal, chin seal

The Z-Link is latex free.

Noise rating

NRR: 25 / SNR 33 (when used with the 18-533 ear defenders)
NRR: 41 (when used with the 18-533 ear defenders and NRR31 rated earplugs)
NRR: 31 / SNR 35 (when used with the 18-534 Tufftalk M-02 Communication Earmuffs)

Operating temperature

14°F to 140°F / -10°C to 60°C

Storage temperature

14°F to 113°F / -10°C to 45°C <90%RH

Weight

Z-Link with Tychem® 2000 neck seal and no side pads	1.95lbs (0.88kg)
Z-Link with FR neck seal and no side pads	2.10lbs (0.95kg)
Z-Link with FR shoulder cape and no side pads	2.35lbs (1.07kg)

Application ranges (including but not limited to the following)

Metal cutting/grinding, brazing, fettling, thermospray/metalization, sanding, painting (automotive, industrial, fire proofing), welding, concrete cutting, aggregate, pharmaceutical, healthcare, chemical and foundry applications.

Warranty

1 year. Conditions apply, visit gvs-rpb.com/legal for full details.



Employers

Read the Z-Link and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

Product users

Read the Z-Link and the flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated.

Current version of manual and for other languages:

gvs-rpb.com/resources

Contact

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gvs-rpb.com

Z-Link® respirator

Z-Link+® Weld Visor

Protecting you for life's best moments.

Approvals & Standards

(In addition to the GVS-RPB Z-Link standards)

ANSI
Z87W
WELDING EYE PROTECTION

CE 2797
UKCA 0086
EN379:2003
WELDING EYE PROTECTION

EN16321-2:2021
WELDING EYE PROTECTION

c SEI
Certified Model
Modèle certifié

CSA Z94.3-15
EYE & FACE PROTECTION
Class 7D Respirator Facepiece
PROTECTION DES YEUX ET DU VISAGE
Masque respiratoire classe 7D

BSI Certified Product

AS/NZS 1338.1:2012
BMP# 714305
WELDING EYE PROTECTION

The GVS-RPB Z-Link+ is an optional attachment accessory for the GVS-RPB Z-Link multi-use respirator. It is intended for use in welding and grinding applications where there is a need for protection from airborne contaminants, eye/face protection and head protection. The Z-Link+ does not provide respiratory protection when not used in conjunction with the GVS-RPB Z-Link. There are two ADF options available.

Type description

Z-Link weld visor attachment.

Part numbers	Part #
Z-Link+ with RPB Auto Darkening Filter	**16-670**
Z-Link+ with GVS Auto Darkening Filter	**16-640**
No lenses	**16-671**

Required components

- RPB Z-Link respirator head-top
- FR cape or face seal
- Breathing tube
- Flow control device and breathing airline, or GVS-RPB PAPR

Application ranges (including but not limited to the following)

Heavy industry welding (where hard hat is required), arc spray/metalization, plasma/oxy-acetylene cutting, lancing, and burning.



16-670 GVS-RPB Z-Link+ Weld Visor with ADF lens

Specifications

RPB ADF technical data

Model	RPB ADF
Viewing area	2.66 x 3.89 in (67.6 x 98.8mm)
ADF overall dimensions	4.49 x 4.57 x 0.47 in (114 x 116.2 x 11.9mm)
Weight	4.59oz (130g)
Open state shade	3 (bright mode)
Closed state shade	9-13 (dark mode)
Switching time from light to dark	0.1 ms (23°C / 73°F) 0.1 ms (55°C / 131°F)
Switching time from dark to light	0.15s - 1.0s
UV / IR protection	Maximum protection in light and dark modes
Operating temperature	23°F to 131°F (-5°C to 55°C)
Storage temperature	-4°F to 157°F (-20°C to 70°C)
Power supply	Solar cells, 2 pcs. replaceable 3V LI batteries (CR2032)
Classification in accordance with EN379	Optical class = 1 Scattered light = 1 Homogeneity = 1 Viewing angle dependence = 2
Standard	EN379:2003+A1:2009
Certifications	CE, ANSI, compliance with CSA

Z-Link® respirator

Protecting you for life's best moments.

GVS ADF technical data

Model	GVS ADF
Viewing area	2.64 x 3.96 in (67.3 x 100.6 mm)
ADF overall dimensions	4.49 x 4.57 x 0.47 in (114 x 116.2 x 11.9mm)
Weight	4.76oz (135g)
Open state shade	3 (bright mode)
Closed state shade	7-13 (dark mode)
Switching time	0.04 ms
Sensitivity Adjustment	Adjustable (7 step, Low to Hi)
Delay Adjustment	Adjustable (7 step, fast-slow)
Dual Sensor	Photo sensors - 4 ea RF sensors - RF mode
Mode Switch	RF mode ↔ Photo (PT) mode
UV / IR protection	Maximum protection in light and dark modes
Operating temperature	23°F to 131°F (-5°C to 55°C)
Storage temperature	-4°F to 157°F (-20°C to 70°C)
Power supply	Solar cells, 2 pcs. replaceable 3V LI batteries (CR2032)/2000 hours Solar cell (Auto On/Off)
Classification in accordance with EN379	Optical class = 1 Scattered light = 1 Homogeneity = 1 Viewing angle dependence = 2
Standard	EN16321-2:2021
Certifications	CE, ANSI, CSA

Materials

Nylon super tough	Injection molded parts, fixed shade frame
Zytec	Cape or face seal
Polycarbonate	Impact lens
Glass	ADF lens or fixed shade lens
ABS	ADF housing

The Z-Link+ is latex free.

Storage temperature

Visor: 14°F to 113°F / -10°C to 45°C <90%RH
ADF: -4°F to 157°F / -20°C to 70°C

Weight

Z-Link+ with ADF	0.84lbs (380g)
Z-Link+ with passive lens	0.66lbs (301g)

Warranty

1 year for Z-Link Weld Visor. 3 years for RPB ADF lens. 1 year for GVS ADF lens. Conditions apply, visit **gvs-rpb.com/industrial/legal** for full details.

Lens Options

Auto Darkening Lens (ADF)	Part #
RPB ADF - standard with 16-670 Z-Link+ assembly	16-871
GVS ADF - standard with 16-640 Z-Link+ assembly	16-871-4

Passive fixed shade lens - parts required	Part #
1. Z-Link+ Visor without ADF	16-671
2. Fixed shade lens frame	16-877
3. Passive fixed shade lens	
Shade 5	16-877-5
Shade 8	16-877-8
Shade 9	16-877-9
Shade 10	16-877-10
Shade 11	16-877-11
Shade 12	16-877-12

Protective lenses (to protect ADF/fixed shade lenses)	Part #
Front impact lens (for both ADF/fixed shade lenses)	16-872
Front impact lens - Aluminum Plated Shade 4 (for high heat applications)	16-872-AL
Rear lens (for ADF only)	16-873
Rear lens (for fixed shade only)	16-878

Magnifying lenses	Part #
1.0x	13-072-1
1.5x	13-072-1.5
2.0x	13-072-2
2.5x	13-072-2.5



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Z-Link® respirator

Z-Link® Radiant Heat Kit

Protecting you for life's best moments.

Approvals & Standards

ISO9001 CERTIFIED COMPANY

NIOSH APPROVED

ANSI Z87+ EYE & FACE PROTECTION

CE 2797 UKCA 0086
EN166:2001 CLASS 1 BT 9 3
EYE & FACE PROTECTION

BSI Certified Product
AS/NZS 1337.1:2010
BMP# 714304
EYE & FACE PROTECTION

c SEI Certified Model
Modèle certifié
CSA Z94.3-15
EYE & FACE PROTECTION
Class 7D Respirator Facepiece
PROTECTION DES YEUX ET DU VISAGE
Masque respiratoire classe 7D



Z-Link with optional Radiant Heat Kit

The Z-LINK Radiant Heat Kit is an optional visor and cape attachment for high heat applications such as foundries, steel mills and glass manufacturing. It allows the user to quickly add on the high heat attachments to any Z-LINK Respirator for radiant heat and flame protection while maintaining APF 1000 (TH3) respiratory protection.

Replacement Visors - c/w clip and retainers	**Part #**
Radiant Heat Gold Visor	**16-675-GT**
Radiant Heat Gold Visor IR5	**16-675-GTIR5**
IR5 Visor	**16-675-IR5**
Radiant Heat Gold on Clear Visor - Shade 3	**16-675-GT3**
Radiant Heat Half Gold Visor	**16-675-HGT**
Clear Visor	**16-675-CL**
Arc Flash Visor AR_{LIM} 11 cal/cm^2	**16-675-ARC**

Additional Components	**Part #**
Aluminized Cape	**16-724**
Aluminized Top Cover	**16-744**
Aluminized Rear Cover	**16-754**
Aluminized Breathing Tube Cover	**04-855**

Required components

- Z-Link respirator head-top
- Cape - Aluminized Radiant Heat or Zytec®
- Breathing tube - Aluminized Radiant Heat cover optional
- Flow control device and breathing airline, or GVS-RPB PAPR

Application ranges (including but not limited to the following)
Foundries, steel mills, glass manufacturing, arc flash.

Specifications

Assigned Protection Factor	
NIOSH	APF 1000+
CE/AS/NZS	APF 40 / TH3 / 3B

Materials	
Nylon	Injection molded parts
Polycarbonate/24k Gold	Lens
O-PAN/Aramid Aluminized fabric	Cape, top and rear covers, breathing tube cover
Brass	Threaded insert

The Z-Link RH Kit is latex free.

Operating temperature
14°F to 200°F / -10°C to 93°C

Storage temperature
14°F to 113°F / -10°C to 45°C <90%RH

Weight	
Gold Plated Lens with clip and knobs	0.44lbs (198g)
Radiant Heat Cape	0.50lbs (229g)
Radiant Heat Top Panel	0.07lbs (34g)
Radiant Heat Rear Panel	0.11lbs (50g)
Radiant Heat Breathing Tube Cover	0.17lbs (76g)

Z-Link® respirator

Z-Link® Radiant Heat Kit

Protecting you for life's best moments.

Ratings

- The Radiant Heat Visor meets ANSI/ISEA Z87.1, EN 166:2001, AS/NZS 1337.1:2010 and CSA Z94.3-15
- The aluminized aramid fabric testing and certifications:
  - ASTM F1939 test method and rated to temperatures up to 800°F (+427°C) and a radiant temperature of 3000°F (+1649°C). ISO 6942, EN 366
  - ISO 9151, EN 367 Convective Heat
  - ISO 15052, EN 532
  - ISO 9158, EN 348, ASTM F955
  - ISO 13937, EN 388

Arc Flash

For use in arc flash environments, use the 16-675-ARC Arc Visor with the 16-721 Zytec FR Shoulder Cape. This combination has a rating of NFPA 70E PPE Cat2 and AR_{LIM} 11 cal/cm^2

Warranty

1 year. Conditions apply, visit **gvs-rpb.com/legal** for full details.



Employers

Read the Z-Link, Radiant Heat Kit and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

Product users

Read the Z-Link, Radiant Heat Kit and the flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated.

Current version of manual and for other languages:

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Contact

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