



# Technical Data Sheet

## RPB® Z-Link® Respirator

### DESCRIPTION

The 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.

#### The Z-Link offers a number of optional accessory items, including:

	Part #
Z-Link+® Weld Visor accessory	16-670
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

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)



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

### APPROVALS & STANDARDS

ISO9001  
CERTIFIED COMPANY

National Institute for Occupational Safety and Health  
**NIOSH**  
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

**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

CE 2797

EN14594:2005 3B  
EN12941:1998  
+A2:2008 TH3 P R SL  
RESPIRATORY PROTECTION

EN352-3:2002  
HEARING PROTECTION  
Only in conjunction with 18-533 earmuffs.

EN397:2003+A1:2009  
HARD HAT PROTECTION  
IMPACT CLAUSES

EN166:2001 CLASS 1F  
EYE & FACE PROTECTION



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 [rpbafety.com](http://rpbafety.com) for more details.

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

#### Required components

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

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## RPB Z-Link Respirator

### 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		
NIOSH	C40™ Climate Control Device	03-501
	Constant Flow Valve	03-101
	PX4 AIR PAPR	03-901
	PX5® PAPR	03-801
CE/AS/NZS	C40 Climate Control Device	03-502
	Constant Flow Valve	03-102
	PX4 AIR PAPR	03-901-G
	PX5® PAPR	03-801-G

#### Fittings and couplers

NIOSH	RPB Quick Connect
	Schrader Twist Connect
	RPB RZ Quick Connect
CE/AS/NZS	CEJN 342 Double Action Safety Coupler

#### 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	16-670
Vision-Link helmet mounted light	16-910
Quiet-Link in-helmet mounted ear defenders	18-533
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
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

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## RPB Z-Link Respirator

### SPECIFICATIONS

#### Assigned Protection Factor

NIOSH	APF 1000+
CE/AS/NZS	APF 40 - TH3 NPF 500

#### 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

#### Noise rating

NRR: 25 (when used with the standard side pads)  
NRR: 41 (when used with the 18-533 ear defenders and bell shaped earplugs)

#### 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 [rpbsafety.com/legal](http://rpbsafety.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:

[rpbsafety.com/resources](http://rpbsafety.com/resources)

#### Contact

RPB® Safety - Global Headquarters  
2807 Samoset Rd, Royal Oak, MI 48073, USA  
T: 1-866-494-4599  
E-mail: [sales@rpbsafety.com](mailto:sales@rpbsafety.com)

[www.rpbsafety.com](http://www.rpbsafety.com)

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# Technical Data Sheet

## RPB Z-Link+ Weld Visor

### DESCRIPTION

The RPB Z-Link+ is an optional attachment accessory for the 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 RPB Z-Link.

#### Type description

Z-Link weld visor attachment.

Part numbers	Part #
Auto darkening configuration	16-670
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 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 RPB Z-Link+  
Weld Visor with ADF lens

### APPROVALS & STANDARDS

(In addition to the RPB Z-Link standards)





# Technical Data Sheet

## RPB Z-Link+ Weld Visor

### SPECIFICATIONS

#### 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

#### 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

#### 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 ADF lens.

Conditions apply, visit [rpbsafety.com/legal](http://rpbsafety.com/legal) for full details.



# Technical Data Sheet

## RPB Z-Link+ Weld Visor (continued)

### LENS OPTIONS

#### Auto Darkening Lens (ADF) Part #

ADF - standard with 16-670 Z-Link+ assembly 16-871

#### 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 Part #

##### (to protect ADF/fixed shade lenses)

Front impact lens 16-872

(for both ADF/fixed shade lenses)

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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