



Technical Data Sheet

RPB® Z4® Respirator

DESCRIPTION

The Z4® Weld/Grind head-top is a supplied or powered air respirator which provides the user with protection while performing heavy industry welding related applications, including eye protection from weld arc, respiratory protection from airborne contaminants while performing or inspecting their work, and eye and hearing protection while cutting or grinding.

This respirator does not require face fit testing.

The Z4® offers a number of optional accessory items, including:

	Part #
Quiet-Slim™ Ear Defender system (under the cape so user maintains APF 1000(US)/TH3 (EU) respiratory protection)	18-524
Vision-Link™ helmet light	16-901
Comms-Link™ in-helmet communication system	16-922
Bump Cap	15-851
FR breathing tube cover	04-814
Shade 5 Side Windows	15-821-5
Side Window Blockers	15-821
Comfort side padding system	15-848

Type description

Loose fitting continuous flow supplied air respirator (NIOSH only) or powered air purifying respirator.

Package numbers

	Part #
NIOSH	
Z4® with face seal and PX4 Air®	15-019-11-FR
Z4® with face seal	15-010-11
Z4® with shoulder cape	15-010-21
CE/AS/NZS	
Z4® with face seal	15-010-11-CE
Z4® with shoulder cape	15-010-21-CE

(additional configurations are available)



Shown without cape or face seal. Never use the Z4® without a cape or face seal.

APPROVALS AND STANDARDS



PAPR & SAR



S3.19

HEARING PROTECTION
Only in conjunction with 18-524 earmuffs.

Z87+

EYE & FACE PROTECTION

Z87W

WELDING EYE PROTECTION



Certified Model
Modèle certifié

CSA Z94.3-15

EYE & FACE PROTECTION
Class 7D and 7B Respirator Facepiece
PROTECTION DES YEUX ET DU VISAGE
Masque respiratoire classe 7D et 7B



EN12941:1998
+A2:2008 TH3 P R SL
RESPIRATORY PROTECTION

EN352-1:2002
HEARING PROTECTION
Only in conjunction with 18-524 earmuffs.

EN166:2001 CLASS 1B
EYE & FACE PROTECTION

EN379:2003+A1:2009
and EN175:1997
WELDING EYE PROTECTION



BSI Certified Product

AS/NZS 1716:2012
BMP# 714303
RESPIRATORY PROTECTION

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

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

Protecting you for life's best moments





Technical Data Sheet

RPB® Z4® Respirator

SPECIFICATIONS

Assigned Protection Factor

NIOSH	APF 1000+
CE	APF 40 - TH3 NPF 500

Materials

Nylon	Injection molded parts
Polyurethane	Silencer foam, comfort padding
MDPE	Head suspension
Polycarbonate	Safety lens, shade 5 side windows
Glass	ADF Lens, fixed shade lens
FR Cotton	Cape, face seal

Noise rating (when used with the 18-524 ear defenders)

NRR: 21 / SNR: 28

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 cape and ADF lens	1.77lbs/805g
-------------------------------	--------------

Required components

- Z4® respirator head-top
- Cape or face seal
- Breathing tube
- Flow control device and breathing airline, or RPB® PAPR

Application ranges (including but not limited to the following)

Welding, grinding, arc spray/metalization, plasma/oxy acetylene cutting, lancing and burning.

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

Warranty

1 year for Z4® Weld Visor. 3 years for ADF lens.

Conditions apply, visit rpbsafety.com/legal for full details.



Technical Data Sheet

RPB® Z4® Respirator

LENS OPTIONS

Auto Darkening Lens (ADF)	Part #
ADF - standard with 15-010 Z4® assembly	16-871

Passive fixed shade lens - parts required

	Part #
1. Z4® Visor w/o ADF, with FR face seal	15-000-11
Z4® Visor w/o ADF, with FR face seal - CE	15-000-11-CE
Z4® Visor w/o ADF, with FR cape	15-000-21
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
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

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

*NIOSH approval pending
Recoil hose max working length - 1 hose
Max working pressure - 300psi
Refer to instruction manual for more detail

Fittings and couplers

NIOSH	RPB® Quick Connect
	Schrader Twist Connect
	RPB® RZ Quick Connect

Flow control devices

	Part #
NIOSH	
C40™ Climate Control Device	03-501
Constant Flow Valve	03-101
PX4 Air® PAPR	03-901-FR
CE	
PX4 Air® PAPR	03-901-FR-G

Cape options

FR Face Seal	15-711
FR Shoulder Cape	15-721

Protecting you for life's best moments





Technical Data Sheet



Employers

Read the Z4® and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

Product users

Read the Z4® 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/respirators/z4](https://www.rpbsafety.com/respirators/z4)

Contact

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

www.rpbsafety.com