

Z4® welding 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



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

CE 2797
UK 0086

EN12941:1998
+A2:2008 TH3/2 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

EN812:2012
HEAD PROTECTION
Only in conjunction with 15-850 Bump Cap.

PRODUCT CERTIFICATION



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



RPB Z4 respirator with FR shoulder cape.

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)/TH3/2 (EU) respiratory protection)	18-524
Vision-Link™ helmet light	16-901
Comms-Link™ in-helmet communication system	16-922
Bump cap	15-850
FR breathing tube cover	04-814
Shade 5 side windows	15-821-5
Side window blockers	15-821
Comfort side padding system	15-848

Product Packages

NIOSH approved packages	Part #
Z4 with face seal and PX5® PAPR	15-018-11-FR
Z4 with shoulder cape and PX5® PAPR	15-018-21-FR
Z4 with face seal	15-010-11
Z4 with shoulder cape	15-010-21

Additional configurations are available.

CE & AS/NZS approved packages	Part #
Z4 with face seal	15-010-11-CE
Z4 with shoulder cape	15-010-21-CE

Additional configurations are available.

Warranty

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

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

The Z4 weld/grind headtop is a supplied air 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.

Type description

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

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.

Z4[®] welding respirator



Protecting you for life's best moments.

TECHNICAL DATA SHEET

GVS-RPB.COM

Required Component Options

Fittings and couplers

NIOSH	RPB Quick Connect Schrader Twist Connect RPB RZ Quick Connect
-------	---

NIOSH approved flow control devices

	Part #
C40™ Climate Control Device	03-501
Constant Flow Valve	03-101
PX4 Air [®] PAPR	03-901-FR
PX5 [®] PAPR	03-801-FR
HX5™ PAPR	03-601-FR

CE & AS/NZS approved flow control devices

	Part #
PX4 Air [®] PAPR (TH3)	03-901-G
PX5 [®] PAPR (TH2)	03-801-G

Breathing Tubes

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

Cape options

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

NIOSH approved breathing airlines - standard hose

Fitting type	Hose length	Part #
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 maximum working length - 300ft
Max working pressure - 300psi

NIOSH approved breathing airlines - recoil hose

Fitting type	Hose length	Part #
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 maximum working length - 1 hose
Max working pressure - 300psi

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 without ADF, with FR face seal	15-000-11
Z4 visor without ADF, with FR face seal - CE	15-000-11-CE
Z4 visor without ADF, with FR shoulder 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 and fixed shade lenses)

	Part #
Front impact lens (for both ADF and 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

Z4[®] welding respirator



Protecting you for life's best moments.

TECHNICAL DATA SHEET

GVS-RPB.COM

Specifications

Assigned Protection Factor

NIOSH	APF 1000+
CE	APF 40 - TH3 (NPF 500) w/PX4 APF 20 - TH2 (NPF 50) w/PX5

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	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

The Z4 is latex free.

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

Z4 with cape and ADF lens 1.77lbs (805g)



Employers

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

Provide the manuals to all users.

Product users

Read the Z4 respirator and the flow control device instruction manual and follow the product user safety instructions.

Manuals are regularly updated.

Current version of manual and for other languages:

gvs-rpb.com/industrial/resources

Contact

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

gvs-rpb.com