



THANKS
1917-2017 100th

July, 2015



Safety with Style

2056

Greeting



SHIGEMATSU can meet the demands of every customer.

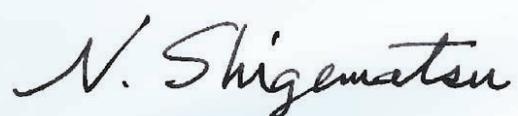
As a pioneer of respiratory protective equipments manufacturer, SHIGEMATSU WORKS CO., LTD. has produced many items based on the mission statement "protecting health of workers and supporting happiness". SHIGEMATSU has provided particulate respirators, gas respirators and other safety equipments, including chemical protective clothing since 1917.

Through these activities, SHIGEMATSU contributes to the society by protecting the health and life of workers in industry, fire departments and other sectors, and supporting happiness of their families.

The importance of crisis management is increasing day by day. Disaster preparedness planning for natural disaster (earthquakes, pandemic influenza, etc.) and man-made disaster (terrorism or nuclear power plant accidents, etc.) is enhanced in this dangerous world. In this context, SHIGEMATSU will assume a greater responsibility in this society.

SHIGEMATSU provides high quality products and services, develops and produces eco-friendly items in accordance to ISO 9001 and ISO 14001 requirements. Also, SHIGEMATSU provides sophisticated and state-of-the-art products that meet diverse needs through tireless efforts in R & D activities.

SHIGEMATSU appreciate your warm and continuing support from the bottom of our hearts. Please be assured that SHIGEMATSU is committed to future success and to continuing our focus on improving the health and safety of workers around the world.

A handwritten signature in black ink, appearing to read "N. Shigematsu".

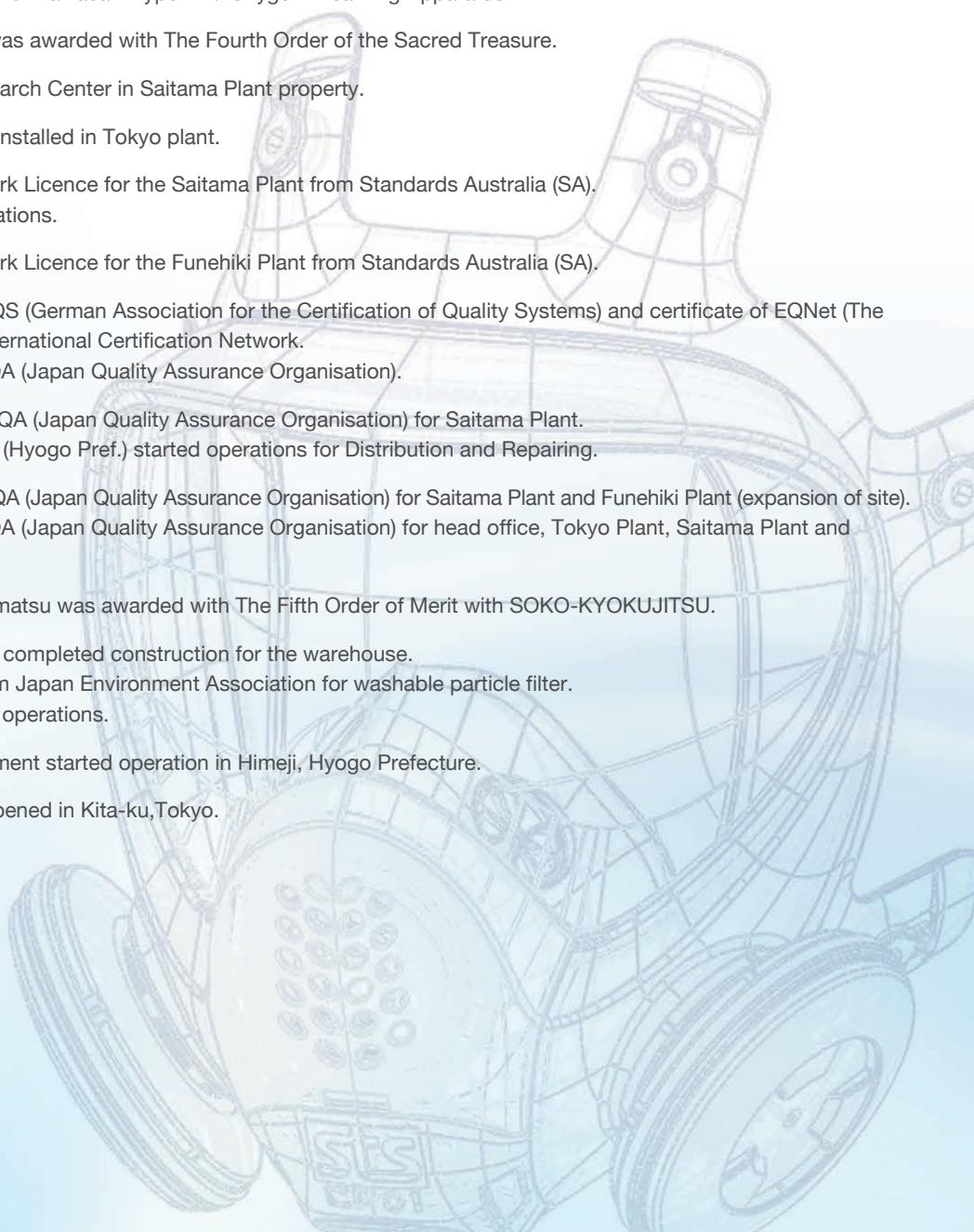
Nobuo Shigematsu
President

Safety Style
with

"Safety with style" describes characteristics of protecting health of workers and supporting happiness with continuous innovation towards technology and design by STS.

History

- 1917** Established by Teizo Shigematsu, who originally managed a private company.
While selling scientific instruments, he started manufacturing particulate and gas respirators and eye protection for mines and other industrial fields.
- 1942** Reorganised as SHIGEMATSU WORKS CO., LTD.
- 1945** By a war terminal air raid, head offices and plants were destroyed all by fire.
- 1947** The comeback operations.
- 1952** Tokyo Plant started operations.
(Already closed in Apr. 2008.)
- 1958** President Teizo Shigematsu was awarded the Medal with Blue Ribbon.
- 1962** Saitama Plant started operations.
- 1963** Registered at Tokyo Stock Market.
- 1965** Chairman Teizo Shigematsu was awarded with the Fifth Order of Merit with SOKO-KYOKUJITSU.
- 1967** Formed a business tie-up with Kawasaki Safety Service Industries, Ltd. (The present, "Air Water Safety Service Inc.") and became the exclusive agent of Kawasaki Type Air / Oxygen Breathing Apparatus.
- 1976** President Kiyoshi Takano was awarded with The Fourth Order of the Sacred Treasure.
- 1981** Established Technical Research Center in Saitama Plant property.
- 1987** Automatic warehouse was installed in Tokyo plant.
- 1990** Acquired the Standards Mark Licence for the Saitama Plant from Standards Australia (SA).
Funehiki Plant started operations.
- 1992** Acquired the Standards Mark Licence for the Funehiki Plant from Standards Australia (SA).
- 1993** Acquired ISO 9002 from DQS (German Association for the Certification of Quality Systems) and certificate of EQNet (The present, IQNet) from the International Certification Network.
Acquired ISO 9002 from JQA (Japan Quality Assurance Organisation).
- 1998** Acquired ISO 14001 from JQA (Japan Quality Assurance Organisation) for Saitama Plant.
Japan West Service Center (Hyogo Pref.) started operations for Distribution and Repairing.
- 1999** Acquired ISO 14001 from JQA (Japan Quality Assurance Organisation) for Saitama Plant and Funehiki Plant (expansion of site).
Acquired ISO 9001 from JQA (Japan Quality Assurance Organisation) for head office, Tokyo Plant, Saitama Plant and Funehiki Plant.
- 2002** Chairman Kaisaburo Shigematsu was awarded with The Fifth Order of Merit with SOKO-KYOKUJITSU.
- 2007** West Japan Service Center completed construction for the warehouse.
Acquired Ecology mark from Japan Environment Association for washable particle filter.
No.2 Funehiki Plant started operations.
- 2008** New manufacturing department started operation in Himeji, Hyogo Prefecture.
- 2011** New head office building opened in Kita-ku,Tokyo.





Breath responsive PAPR **SyncØ1VP3**

EN 12942:1998+A2 : 2008 TM3 P R SL
IEC 60529 : 2001 IP65 rated

Switchless

ON the system starts automatically as you breathe.

OFF it turns off 5 seconds after doffing.

Cordless

There is no battery connection cable, which simplifies preparation when donning the mask and does not disturb your work.



An LED flashes when it is time to replace the filter.



Order Information

Product Name	Size	Product Code	Weight* ¹	Packaging Unit
SyncØ1VP3	M	40400	App. 755 g	
	L	40401	App. 770 g	1 pc / bag

For Compatible Filters see Page 5 For Accessories see Page 13 For Spare Parts see Page 14

*1 Includes: Facepiece, Fan unit, Filter, Battery

More safety, the better

Easy breathing

Breath responsive PAPR provides clean filtered air by fan as you inhale.

Higher protection performance than Reusable Respirator

Pressure inside facepiece is kept positive to provide higher degree of safety.

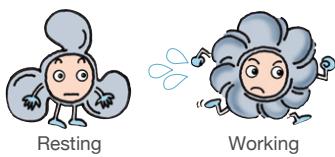
Even if airtightness breaks, the fan will keep running to lower the risk of breathing in particles.



Cost effective

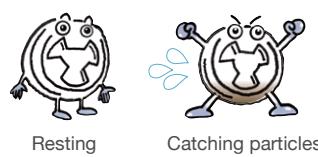
The filters last longer than on Reusable Respirator.

Comparison of breath responsive PAPR and Reusable Respirator



Ms. Fan

Provides filtered airflow into facepiece.



Mr. Filter

Purifies air by catching particles.



Breath responsive PAPR

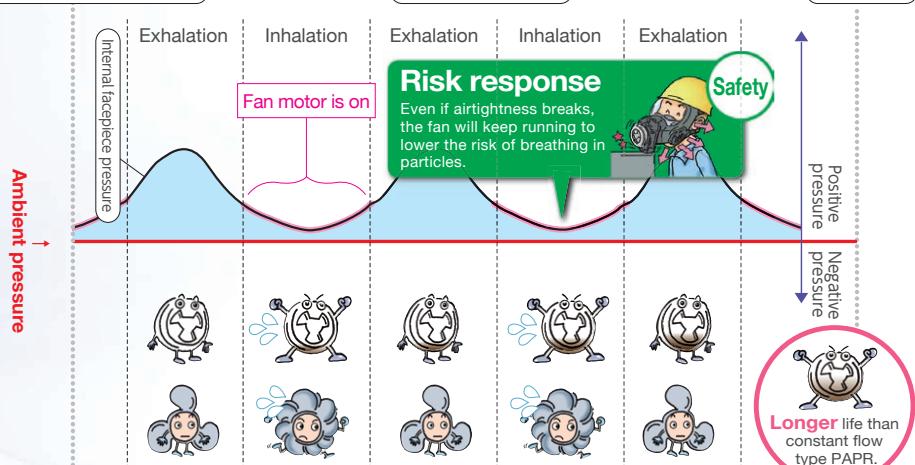
Provides purified air by fan as the wearer breathes.



Beginning of work

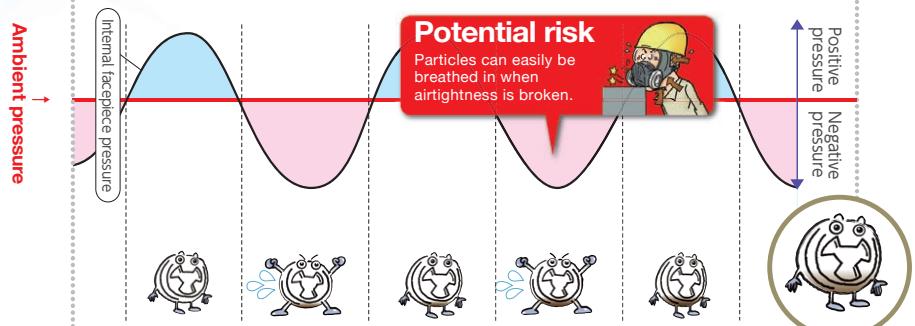
During work^{*1}

Finish



Reusable Respirator

Breathing by lungs capacity only.



*1 The graph only illustrates pressure difference. PAPR might fail to keep positive pressure when heavily inhaled.

PAPR:Powered Air Purifying Respirator



Breath responsive PAPR SyncØ1VP3

Complete Set



Rated input : AC100 - 240V 50 - 60Hz
Rated output : DC8.4V 1.2A
Charge time : Approximately 3.5 hours

Filter Type & Colour Code

Colour	Filter Type ^{*1}	Application
White	P	Particles

*1 Particle filter according to EN 12942:1998+A2 : 2008

Filter Application

Type	Particle Filter
Product Name	VP3
Product Code	40350
Dia. [mm]	96
Height [mm]	28
Weight [g]	less than 32
Packing Unit [pc / box]	1
Appearance	
Filter Type & Colour Code	P R SL ^{*2}
Compatible Mask	 SyncØ1VP3 See Page 3

*2 R : If the particle filter part of the combined filter is re-useable.
SL : For use against solid and water based aerosols only.

Battery Life Indicator

The Battery life indicators (2LEDs) will inform the remained battery life in order to make it easier to check the operating time.
After the battery is first attached to the fan unit, the battery life indicators (2LEDs) will light for approximately 30 seconds.



Battery life indicator patterns (2LEDs)	State	Remaining voltage
■ ■	Full charge	At least 8.0 V
■ ■ ■ ■	-	7.9 - 7.4 V
■ ■ ■ ■	Low charge	7.3 - 7.0 V
□ ■ ■ ■	Low charge	6.9 V or less
■ □	The fan is locked.	

■ : Lit ■ : Flashing □ : Not lit



Product Name	Product Code	Packing Unit
MNFT (Mask Inside Pressure & Fit Tester)	Please contact us	1 set
Fit Test Adaptor (For use with combination of Twist lock only)	41550	1 pc / pack

MNFT gives the idea to understand the difference whether it is sealed or not. Leakage and internal pressure of the mask is detected and visualised at the same time. MNFT visualises that PAPR has higher protection performance than Reusable Respirators.

High protection. No leak even when the seal breaks.



Breath responsive PAPR *SyncØ1VP3*

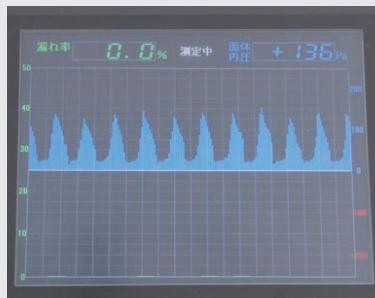
Risk response

Safety

Even if airtightness breaks, the fan will keep running to lower the risk of breathing in particles.

•PAPR

Sealed



No leak is detected, internal pressure of mask is kept positive constantly.

When the seal is broken...



Internal pressure of mask is still kept positive. Internal pressure is slightly lower when there is a gap in face seal.

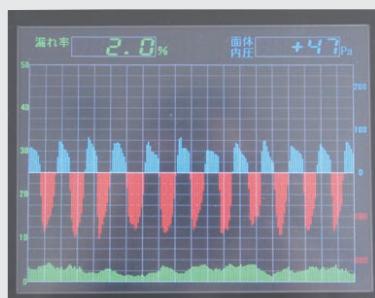
Reusable Respirator

Potential risk

Particles can easily be breathed in when airtightness is broken.

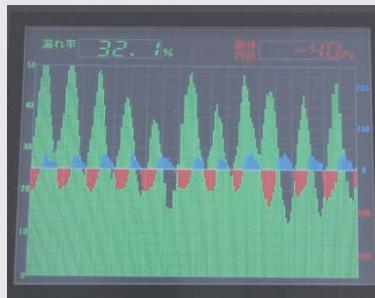
•Reusable Respirator

Sealed



The internal pressure fluctuates between positive and negative.

When the seal is broken...



Much higher leakage is detected when the seal is broken. The difference in pressure is decreased due to the leakage.

Colour shows... Positive Pressure: **blue**
Negative Pressure: **red**
Leakage: **green**

*1 The graph only illustrates pressure difference. PAPR might fail to keep positive pressure when heavily inhaled.

Please try our PAPR and feel the efficiency using MNFT.

Reusable Respirator

CF01

EN 136:1998 Class 1

Good Looking, Good Wearing



Order Information

Product Name	Size	Product Code	Weight (Without filters)	Packing Unit
CF01	S	40101	Less than 360 g	1 pc / bag
	M	40102		
	L	40103		

Ultra Lightweight 360g!!

Lighter than a football (410-450g).
Almost half the weight of other full face masks.



CX01

EN 136:1998 Class 2

Durable and Reliable



Order Information

Product Name	Size	Product Code	Weight (Without filters)	Packing Unit
CX01	S	40111	Less than 700 g	1 pc / bag
	M	40112		
	L	40113		

RS01

EN 140:1998

The Three "Free" Mask,
Fatigue-free,
Care-free,
Stress-free



RX01

EN 140:1998

Communication is
another Protective Factor



Reusable Respirator

Filter Type & Colour Code

Colour	Filter Type*1	Application
Brown	A	Organic gases and vapours (boiling point > 65°C)
Grey	B	Inorganic gases and vapours
Yellow	E	Sulphur dioxide and other acidic gases and vapours
Green	K	Ammonia and organic ammonia derivatives
Brown	AX	Organic gases and vapours (boiling point ≤ 65°C)
White	P	Particles

*1 Combined filters and gas filters according to EN 14387:2004 Particle filters according to EN 143:2000

Class type of gas filters (A, B, E and K*2)

Class	Max. Permissible Concentration*3
1	1,000 ppm (0.1 vol.%)
2	5,000 ppm (0.5 vol.%)
3	10,000 ppm (1.0 vol.%)

*2 AX filter is not classified.

*3 Modifications may be possible due to national regulations.

Class type of particle filters

Class	Filter Efficiency	Maximum Filter Penetration (%)
P1	Low	20
P2	Medium	6
P3	High	0.05

Filter Application

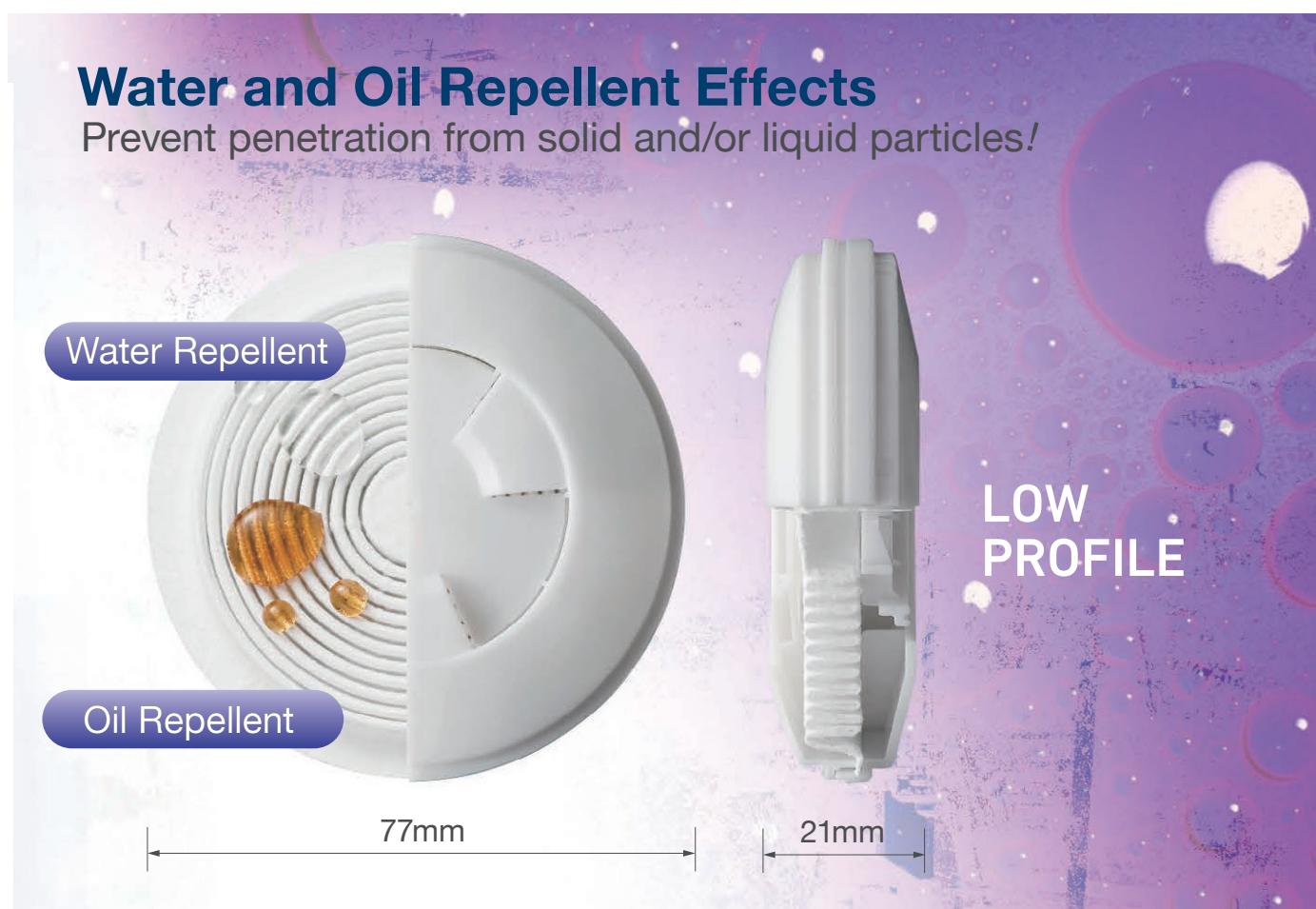
Series	CA								
Type	Particle Filters				Gas Filters				
Product Name	P3R	P2R	P3RC*1	P2RC*1	CA-A1	CA-A2	CA-K1	CA-AX	CA-ABEK1
Product Code	40302	40301	41522	41521	40201	40202	40204	40225	40203
Dia.[mm]	77	77	86	86	82	82	82	82	82
Height[mm]	21	21	+14.5*2	+14.5*2	24	34	34	44	34
Weight[g]	≤22	≤22	≤20	≤20	≤55	≤80	≤125	≤130	≤100
Packing Unit [pcs / box]	20	20	28	28	20	20	20	10	20
Appearance									
Filter Type & Colour Code					A1	A2	K1	AX	A1 B1 E1 K1
	P3 R*3	P2 R*3	P3 NR*3	P2 NR*3					
Compatible Masks					CF01 See Page 7	CX01 See Page 7	RS01 See Page 8	RX01 See Page 8	

*1 P3RC and P2RC particle filters can only be used when attaching to gas filters CA Series, and used as combined filters.

*2 "+" shows the additional height when P3RC/P2RC is attached to each gas filters CA Series.

*3 R : If the filter is re-usable respectively.

NR:If the filter is limited to single shift use only.



GX01

Advanced Ergonomic Design

Our original “2+1EVS” (Exhalation Valves System) ensure the interior of mask stays dry and cool, while the sleek and functional visor design provides distortion-free vision, and the silicone rubber-made double face seal which ensures a perfect seal for every type of face. Available in three sizes, GX01 is the best choice for users who are looking for safety and comfort.

**Polycarbonate 3D-curve Visor
(Anti-scratch coated)**
EN 166 1B

Steel Mesh Diaphragm

For improved communication.
Steel mesh prevents damage from fume.

Screw-in Type

EN148-1 standard thread

6-Point Head Harness

Simple and secure donning.
Non-sticky surface prevents hair entanglement.
Maximum stability.
Strengthened harness ensure maximum durability.

Silicone Double-cushion



Double sealing action provides maximum protection and comfort.
Silicone rubber.

Available in three sizes, ensure a perfect fit for every type of face.

“2+1EVS” (Exhalation Valves System)

2 main valves on both sides doubles the amount of air released during exhalation.

1 drain valve in the bottom remove moisture and sweat.



Ensure the interior stays cool and dry.
Less exhalation resistance.

Order Information

Product Name	Size	Product Code	Weight (Without filters)	Packing Unit
GX01	S	40121	Less than 730 g	
	M	40122	Less than 742 g	1 pc / bag
	L	40123	Less than 771 g	

Filters sold separately. For Compatible Filters see Page 12 | For accessories see Page 13 | For Spare Parts see Page 14

Filter Type & Colour Code

Colour	Filter Type* ¹	Application
Brown	A	Organic gases and vapours (boiling point > 65°C)
Grey	B	Inorganic gases and vapours
Yellow	E	Sulphur dioxide and other acidic gases and vapours
Green	K	Ammonia and organic ammonia derivatives
Brown	AX	Organic gases and vapours (boiling point ≤ 65°C)
White	P	Particles

*1 Combined filters and gas filters according to EN 14387:2004 Particle filters according to EN 143:2000

■ Class type of gas filters (A, B, E and K*²)

Class	Max. Permissible Concentration ³
1	1,000 ppm (0.1 vol.%)
2	5,000 ppm (0.5 vol.%)
3	10,000 ppm (1.0 vol.%)

*2 AX filter is not classified.

*3 Modifications may be possible due to national regulations.

■ Class type of particle filters

Class	Filter Efficiency	Maximum Filter Penetration (%)
P1	Low	20
P2	Medium	6
P3	High	0.05

Filter Application

Series	CC							
Type	Particle Filter	Gas Filters		Combined Filters				
Product Name	CC-P3R	CC-A2	CC-ABEK2	CC-A2P3R	CC-B2P3R	CC-ABEK2P3R	CC-AXP3NR	
Product Code	40303	40205	40208	40206	40210	40209	40207	
Dia. [mm]	96	111	111	111	111	111	111	
Height [mm]* ¹	32	52	69	71	71	88	71	
Weight [g]	≤35	≤500	≤500	≤500	≤500	≤500	≤500	
Packing Unit [pcs / box]	10	20	20	20	20	20	20	
Appearance								
Filter Type & Colour Code		A2 B2 E2 K2	A2	A2 B2 E2 K2	B2	A2 B2 E2 K2	AX P3 R* ²	
Compatible Masks			 GX01 See Page 11					

*1 EN148-1 standard thread part is not included.

*2 R:If the filter is re-usable respectively.

NR:If the filter is limited to single shift use only.

Accessories

Compatible Mask

Sync®1VP3



GX01



CF01



CX01



RS01



RX01



Product Name

Product Code

Packing Unit

Facepiece "FP-E01"	M	41731	1 pc / pack
	L	41732	
Fan Unit "FU-E01"		41730	1 pc / pack
Exhalation Valve		50000	5 pcs / pack
Exhalation Valve Cover		41474	5 pcs / pack
Inhalation Valve		03127	5 pcs / pack
Inner Mask Valve		50122	5 pcs / pack
Inner Mask		41114	1 pc / pack
Drain Valve		50008	5 pcs / pack
Head Harness		41401	1 pc / pack
Gasket Fan Unit-Facepiece		03123	10 pcs / pack
Gasket Filter-Fan Unit		41482	10 pcs / pack
Guarding Sponge "#03124"		03124	5 pcs / pack
Filter Guard "#03118"		03118	1 pc / pack
Unit Cover "Knit Cover 1R"		02800	10 pcs / pack
Speech Diaphragm Cover "#03058"		03058	10 pcs / pack
Battery "BA-L2H-E"		41735	1 pc / pack
Charger "CH-L2HAC"		41734	1 pc / pack
Exhalation Valve		50000	5 pcs / pack
Exhalation Valve Cover		41473	1 pc / pack
Inhalation Valve		41204	5 pcs / pack
Inhalation Valve Seat (Gasket)		41210	1 pc / pack
Inner Mask Valve		50101	5 pcs / pack
Inner Mask	S	41111	1 pc / pack
	M	41112	1 pc / pack
	L	41113	1 pc / pack
Drain Valve		41290	5 pcs / pack
Front Cover		41305	1 pc / pack
Head Harness		41405	1 pc / pack
Exhalation Valve		50000	5 pcs / pack
Inhalation Valve		50121	5 pcs / pack
Inner Mask Valve		50101	5 pcs / pack
Inner Mask	S	41105	1 pc / pack
	M	41106	1 pc / pack
	L	41107	1 pc / pack
Head Harness		41402	1 pc / pack
Gasket		50418	10 pcs / pack
Exhalation Valve		50000	5 pcs / pack
Inhalation Valve		50121	5 pcs / pack
Inner Mask Valve		50122	5 pcs / pack
Inner Mask	S	41101	1 pc / pack
	M	41102	1 pc / pack
	L	41103	1 pc / pack
Head Harness		41401	1 pc / pack
Gasket		50418	10 pcs / pack
Exhalation Valve		50000	5 pcs / pack
Exhalation Valve Cover		41471	1 pc / pack
Inhalation Valve		50121	5 pcs / pack
Head Harness		50310	5 pcs / pack
Gasket		50418	10 pcs / pack
Exhalation Valve		50000	5 pcs / pack
Inhalation Valve		50121	5 pcs / pack
Head Harness		41414	5 pcs / pack
Gasket		50418	10 pcs / pack

Spare Parts

Compatible Mask	Product Name	Power of Lens	Product Code	Packing Unit
SyncØ1VP3 GX01 CF01 CX01	 Corrective Glasses CG1	-1.50 -2.00 -2.50 -3.00 -3.50 -4.00 -4.50 -5.00 -5.50 -6.00 -7.00 -8.00	07521 07522 07523 07524 07525 07526 07527 07528 07529 07530 07531 07532	1 pc / box
SyncØ1VP3 CF01			02659	5 pcs / pack
GX01	Visor Protection Cover		02660	5 pcs / pack
CX01			02658	5 pcs / pack
SyncØ1VP3	Airflow Tester FM-6	 SyncØ1VP3	04478	1 pc / box
VP3 Particle and Combined Filters (CC Series)*1		R18 	13001	1 pc / pack
Gas Filters (CA Series)	Fit Checker	R10 	02860	1 pc / pack
Particle Filters (CA Series)		R15 	02865	1 pc / pack

*1 CC-A2, CC-ABEK2 not included.

Memo

RESPIRATORY PROTECTIVE DEVICE



Front Cover Picture

● Specifications are subject to change without notice. ● The actual colour may vary from those shown.



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