



431 CATALOGUE 2023 0

ABOUT US

VENUS Safety & Health Pvt. Ltd. is a global quality manufacturer of Personal Protective Equipment (PPE) and filtration products.

Venus has grown manifold in volume and revenues since its inception in the year 1986.

A continuous urge to improve the performance of existing products and the development of new products is a driving force for our experienced team of professionals. The combination of various distinctive attributes of Venus has helped it to stay ahead in the competitive industry and provide 100% Made in India quality products to the people of the nation since 1986. We are the manufacturer of Neck-up Personal Protective Equipment (PPE) and many other health and safety related products.

We have 6 manufacturing facilities in India with a workforce of 2000+, which enables us to provide the best quality products to India with a licensed certification of ISO 9001:2015. We have a total of 4 international registered patents, of which 10+ are ISI licensed certified products, 50+ CE products, and 25+ NIOSH products. Venus has been exporting for the last 15 years to 35+ countries and has offices in the USA, EU, and UAE with 50% exports.

We work in 3 primary safety marketing divisions:

▲ Industrial Safety (IS) Division

For over 30 years, we have been a specialist in industrial neck-up PPE, with over 150 channel partners across India, mainly with large customer segments viz. Railways, Cement, Agro, Ceramics, Construction, Tyre manufacturing, Food & Beverages, Heavy Engineering, Mining, Pharmaceuticals, etc.

▲ Medical and Health Division

Supplier of N95 respirators for the State Government Medical Services during the COVID-19 pandemic and GOI. We have established a network of 100+ distributors across PAN India and launched the New Venus PAPR, which will be the first ISI-approved PAPR manufactured in India for surgeon. Moreover, we also plan to expand the current range of eyewears offered.

▲ Consumer Health Division

100+ distributors have been appointed to supply our products to major metro cities and states. Launched 4 categories of masks, viz. V-Shwas Lite, V-Shwas Regular, V-Shwas Comfort, & V-Shwas Natural with ISI approval, which also includes child mask. Also available on e-commerce platforms such as Amazon & Flipkart.





OUR MISSION

" To deliver safety, healthcare and filtration products through ingenious use of technology and research"



INNOVATION

We endeavor to pre-empt customer needs and study how our products and services must be worked on to deliver the requirement when it arises. Our team of innovators then pushes the limits to fill in the gap.



SALES CAPABILITY

- The needs of our customers are supported by our sales office based in India, UAE, USA, UK & Netherlands
- We support market development activities of our team partners across the globe



CONTINUAL IMPROVEMENT

Our product design team has developed and incorporated several innovative features in products for customer benefits such as:

- Twist N Click feature for filters in VENUS V-900 Half Mask
- Stay Cool Butterfly Vent Valve
- Beetle mask designed with soft edges for skin comfort & stiff from centre to stay away from nose & mouth, & yet offer large filter area



CATALOGUE 2022 PREFACE

Venus is pleased to introduce its refreshed product catalogue. We have introduced our all-new Venus Red logo. This change is also reflected in the packaging for most of our products. We have launched new products in most categories this year. In addition to our extensive range of FFR products, we have added to our retail segment products with smaller SKU packaging. We will also be launching the new Venus PAPR with an all-new design and class-leading features. Our helmet series has also been rebranded with new styles and more options in color and fit variants. We have taken great strides to increase our product comfort in all segments and will continue our innovation to make products of High Comfort, Best Protection and Great Value.

NECK-UP PPE SPECIALIST



OUR NECK-UP PPE PRODUCT RANGE INCLUDES:



Respiratory Protective Devices:

Reusable Half Face Masks & Full Face Masks, Disposable Filtering Face Piece, Gas Filters, PAPR, SCBA, Supplied Airline System



Noise Protective Devices:

Ear Plugs, Ear Muffs, Ear Band, Earplug Dispenser



Head Protective Devices:

Helmets, Face Shield



Eye Protective Devices:

Spectacles, Goggles, Overspecs, Welding Spectacles

FACTORY CAPABILITY

- ▲ Global manufacturing capacities in Navi Mumbai, India
- ▲ Cost competitive products
- ▲ Primary materials manufacturing: nonwovens, plastic parts processing
- ▲ Independent tool room
- ▲ Balance of dedicated young trained workforce and experienced leaders
- ▲ International sea/airport proximity & logistics capability
- ▲ Proximity to national transport and logistics hub



NORMS & PROTECTING PEOPLE

- ▲ Venus manufacturing plants operate as per the safety standards
- ▲ Venus adheres to the National Factories Act & Rules in all its facilities and ensures compliance with these regulations through its entire supply chain

SUPPLY CHAIN

Venus has long-standing strategic partners for the development, manufacture, and supply of materials and intermediate products. On-site representatives ensure that high quality practices are adhered to consistently.

The products comply to:



Free from harmful substances



Social standards



Green approach

QUALITY ASSURANCE

- Venus facilities conform to ISO 9001:2015 & ISO:13485 requirements of Quality Management Systems
- There are stringent check points at all stages like incoming material, intermediate production, and final outgoing products
- Quality Assurance practice in VENUS meets exacting standards



TESTING CAPABILITY

Our laboratory is equipped with modern equipments to test Neck up products for:



Respiratory Protective Device - RPD



Noise Protective Device - NPD



Eye Protective Device - EPD



Head Protective Device - HPD



Spill Protective Device - SPD



APPROVALS

The processes and procedures in Venus manufacturing plants have been certified in accordance with ISO 9001:2015 & ISO:13485 and are audited annually by BUREAU VERITAS.

The certified facilities produce and supply products conforming to:

American Standards: 42 CFR Part 84

European Standards: EN 149, EN 140, EN 143, EN 14387

Indian Standards: IS 9473, IS 14746, IS 14166, IS 15323, IS 10245(II), IS 2925, IS 10245(III), IS 9167, IS 5983, IS 15322, IS 16289



FAQs ON RESPIRATORY PROTECTION

RESPIRATORY PROTECTION NEED

Workplace concentrations of contaminants (dust, mist, smoke, vapour, or gases) should be reduced or minimized by adopting appropriate engineering control measures. Subject to effective engineering control not being feasible, suitable performing respirators shall be used.

The purpose of respiratory protection is to ensure that the workers are adequately protected from inhaling excessive airborne contaminants or oxygen-deficient air.

Workers should not be exposed to airborne contaminants in excess of their permissible exposure levels wherever possible.



Health Effects

- Respiratory Hazard and their Effects



Oxygen Deficiency

- Normal - 21% by Vol. in air
- Breathing - 17%
- Dizziness - 13%
- Unconsciousness/Death - 8 to 10%



Gaseous & Vapour Contaminants

- Affects supply of oxygen to body, damages organs and causes respiratory paralysis, inflammation, unconsciousness &/or death

Nasopharynx

Formaldehyde

Larynx

Acid mists, Alkali mist, Asbestos

Lung

Asbestos, Crystalline Silica, Arsenic, Coal dust, Chromium, Nickel, Cadmium, Diesel emissions, Bauxite dust, Cotton dust, Bagasse dust, Tobacco dust, Cyanide, Phosphorus, Graphite, Grain dust, Zinc fumes, Active pharmaceutical ingredients (API), Chlorine

Liver and biliary tract

Carbon tetrachloride, Vinyl chloride, Trichloroethylene

Mesothelioma

Asbestos

Kidney and bladder

Benzidine dyes, Beta-naphthylamines, Mercury, Coke oven emission, Aromatic amines, Cadmium, Lead, Uranium, Chlorinated hydrocarbon solvent

Leukemia (Blood Cancer)

Benzene, Formaldehyde

Non-Hodgkin lymphoma

Trichloroethylene



Brain and Nervous system

Organophosphorus, Pesticides, Lead, Mercury, Manganese, Arsenic, Carbon monoxide, Cyanide

Circulatory system

Carbon monoxide, Vinyl chloride, Benzene, Toluene, Trichloroethylene, Nitrates, Carbondisulfide, Methylene chloride

Gastrointestinal tract

Asbestos, Nitrosamines, Welding fumes, Lead, Copper

Immune system

Mercury, Lead, Pesticide, Polychlorinated biphenyls (PCBs), Polycyclic aromatic hydrocarbons (PAHs)

Reproductive system

Methylmercury, Carbon monoxide, Lead, Bisphenol A, Asbestos

Skin

Mineral oils, Polycyclic, Aromatic hydrocarbons, Acrylics, Epoxy resins, Nickel, Coal tar, Benzene, Volatile organic compound, Methyl blue (health care), Active pharmaceutical ingredients (API), Chlorine, Latex

Allergy

Isocyanates, Spices

COMMON DEFINITIONS

Respiratory Protection Definitions

(REFERENCE - ISO/DIS 16972)

Identify the Hazard

Hazardous Atmosphere - Any atmosphere that is oxygen-deficient and/or the level of substances in the atmosphere is at a concentration deemed to be hazardous

Contaminant - Undesirable solid, liquid, or gaseous substances in the air

Dust - General term denoting finely distributed solid particles

Particle - Solid or liquid substances in their finely divided states

Fume - Fine, solid form of aerosol

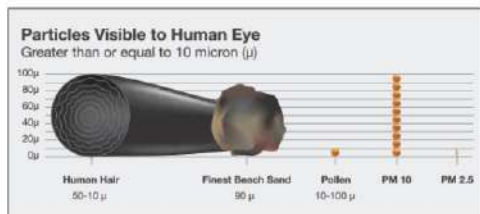
Aerosol - Suspension of solid or liquid particles in a gaseous medium having a negligible falling velocity (generally considered to be less than 0.25 m/s)

Vapour - Gaseous phase of a substance which is liquid or solid at 20°C and 100 kPa (absolute)

Gas - A state of particles in gaseous form at standard temperature and pressure that expands to occupy the space or enclosure in which it is confined

Mist - General term denoting a liquid aerosol

Smoke - Aerosols generated by incomplete combustion consisting of liquid and/or solid particles



Assess the Hazard

Immediately Dangerous to Life or Health (IDLH) - Atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a hazardous atmosphere

Occupational Exposure Limit (OEL) - Maximum concentration of airborne contaminants deemed to be acceptable, as defined by the authority having jurisdiction

Time-Weighted Average (TWA) - Average concentration of a contaminant in air during a specific time period

Maximum Use Concentration (MUC) - Maximum atmospheric concentration of hazardous substances from which the RPD wearer can be expected to be protected. It is determined by the assigned protection factor of the respiratory protective device and its class and the occupational exposure limit of the hazardous substance

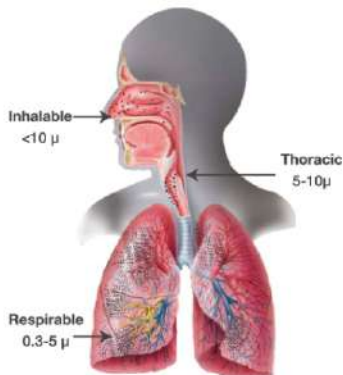
Select the Appropriate Equipment

Protection Level - The degree of respiratory protection allocated to an RPD for purposes of selection and use. It helps to understand the protection provided to the wearer when used within an effective RPD programme as described in ISO/TS 16975-1 and ISO/TS 16975-2

RPD - Respiratory Protective Device

Positive Pressure - Pressure inside the respiratory interface, hose etc. is higher than that of the ambient atmosphere

Negative Pressure - Pressure inside the respiratory interface, hose etc. that is lower than that of the ambient atmosphere



Training for Use of the RPD

Fit Test - Use of a specific protocol to qualitatively or quantitatively determine an individual's ability to obtain an adequate seal with a specific make, model, and size of a tight-fitting respiratory interface

Quantitative Fit Test (QNFT) - Test method that uses an instrument to assess (quantify) the amount of face-seal leakage into the RPD in order to assess the adequacy of its fit

Qualitative Fit Test (QLFT) - Pass/fail test method that relies on the subject's sensory response to detect a challenge agent in order to assess the adequacy of RPD fit

Face Seal Leakage - Leakage between the wearer's face and the respiratory interface

PROTECTION FACTOR

1. How to calculate protection factor?

You should aim at reducing the concentration inside the respirator to below any applicable occupational exposure limit (OEL). RPD uses a system called Assigned Protection Factor (APF), the factor by which the equipment reduces the contaminant concentration. An APF of 4, for example, means that the contaminant concentration will be reduced by a quarter. Choose the equipment that has an APF that exceeds the OEL, leaving a margin for equipment error and other factors.

Example 1: Complete Equipment

Filtering half mask FFP1

Permitted total inward leakage = 22%

$$\text{Nominal Protection Factor} = \frac{1}{\text{Permitted total inward leakage}} = \frac{1}{22} \times 100 = 4.5$$

Example 2: Multi-component Equipment

Particle filter P1 and half mask

Permitted inward leakage through the filter 20%

Permitted inward leakage at the face seal and exhalation valve $\frac{2}{22}$

$$\text{Nominal Protection factor} = \frac{1}{22} \times 100 = 4.5$$

Example 3: How to estimate the protection factor required?

Contaminant: Harmful airborne dust

Concentration: The time-weighted average is 20 mg/m³

The occupational exposure limit: 0.2 mg/m³

The required minimum protection factor is 20/0.2 = 100 from the list of respiratory protection devices can be seen the types of equipment which may meet this requirement if used correctly

Example 4: The maximum allowed concentration of contaminant with P2 filter and full face mask

Contaminant: Chlorine

Occupational exposure limit: 1 ppm

Full face mask gives a nominal protection factor

P2 + full mask gives a nominal protection factor 2000

2000x1ppm = 2000 ppm = 0.2% chlorine

2. How to assess respirator fitting?

Face fit for the wearer is critical as the face-fitting range relies on a tight face fit to be effective. Facial features such as scars and beards, as well as the shape and size of the wearer's head and face may affect the fit. A formal fit test is essential.

3. When is respirator fit test required?

Fit testing of all negative or positive pressure tight-fitting facepiece respirators is required prior to initial use, whenever a different respirator facepiece is used, and at least annually thereafter. An additional fit test is required whenever there are changes in the user's physical condition that could affect respirator fit (e.g., facial scarring, dental changes, cosmetic surgery, or an obvious change in body weight). The employee must be fit tested with the same make, model, style, and size of respirator that will be used.

4. What are the guidelines for Selection, Training, Use, Maintaining and Storing respirators?

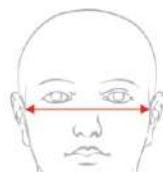
Refer to IS 9623:2008 & IS 8347:2007

5. How long can a particulate respirator be used before it must be discarded?

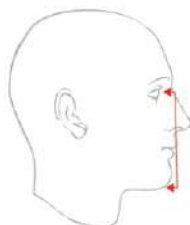
Respirators with replaceable filters are reusable, and a respirator classified as disposable may be reused depending upon the intensity of particulate matter in the atmosphere. All filters must be replaced whenever they are damaged, soiled, or causing discomfort to the wearer (e.g. increased breathing resistance). Before each use, the exterior of the filter material should be inspected. If the filter material is physically damaged or soiled, the filter should be changed (in the case of respirators with replaceable filters) or the respirator discarded (in the case of disposable respirators). Always follow the user instructions provided by the manufacturer. Employers must develop standard operating procedures for storing, reusing, and disposing of respirators that have been designated as disposable and for disposing of replaceable filter elements.

FIT TEST NIOSH BIVARIATE PANEL (NIOSH PANEL) & RESPIRATORY TESTS

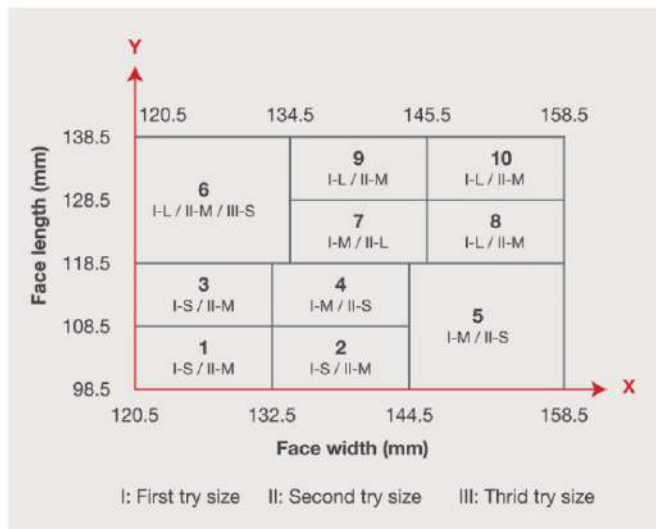
The NIOSH Bivariate Panel includes ten individual member cells defined by face width and face length (mm) with a guide to select HFM/FFM most likely to get the best fit. Ensure the fit is validated.



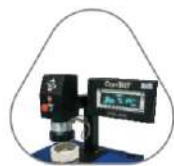
Face width (mm)



Face length (mm)



TEST FOR RESPIRATORY PROTECTION DEVICES



Particulate penetration test



Flammability test



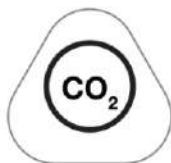
Gas capacity test



Breathing resistance test



Fit test



Carbon dioxide in inhalation area test



Field of vision test



Temperature conditioning test

HOW TO CHOOSE THE APPROPRIATE RPD

4 STEPS For selection of RPD



IDENTIFY THE HAZARD

- Oxygen deficiency
- Particulate matter
- Gas, odour & vapour
- Combination of particulate & gas



ASSESS THE HAZARD

- Area of work: open, ventilated area, closed, air conditioned or exhaust
- Presently used product
- Facial contour
- Physical properties
- Chemical properties



SELECT APPROPRIATE EQUIPMENT (Selection parameters)

- Identifying characteristics of the contaminant
- Protection and filter efficiency
- Good wearer comfort & low breathing resistance
- Man-hours worked & optimum protection with aid of Nominal Protection Factor



TRAIN FOR THE USE OF RPD

- Training to use RPD

USER SELECTION GUIDE RESPIRATOR

Basic Type	Category	Comments
Filtering devices dependent on ambient atmosphere	FFR Filtering Facepiece Respirators	For various types of respirable particulates such as dust, fibres, mist, and fumes, some are fitted with exhalation valves to make breathing easier
	HFM & RF Re-usable Half Face Mask & Reusable Filters in Low-1, Medium-2, High-3 efficiency or capacity	For various types of particulates or vapours and gases depending on the fitted chemical filter. Some have combination filters
	FFM & RF Re-usable Full Face Mask & Re-usable Filters in Low-1, Medium-2, High-3 efficiency or capacity	As above, but incorporates visor for face protection
	PAPR Powered air purifying respirator with head piece. Positive pressure respirator	Type of headpiece and the filter determines the protection offered
Breathing Apparatus (BA) supplying breathable air. Positive pressure respirator. Independent of ambient atmosphere.	SA Supplied Air constant flow airline Breathing Apparatus	For all contaminants <ul style="list-style-type: none"> ● Usually uses a Full Face Mask/Hood with long hose ● Continuous supply of air from a compressor
	SCBA Self Contained Breathing Apparatus Could be open or close circuit	For all contaminants <ul style="list-style-type: none"> ● Usually Full Face Mask has a demand valve arrangement ● Compressed air supply is carried in cylinder on the wearer's back ● Sometimes worn inside a gas-tight suit

TYPE OF RESPIRATORS



FFR



HFM



FFM



PAPR



SA



SCBA

FIT FACTOR

Nominal Protection Factor (NPF) Clause 8.4.3 - IS 9623:2008

DEVICE	MARKING	NOMINAL PROTECTION FACTOR
a) Filtering Facepiece Respirators (FFR)	FFP1	4
	FFP2	12
	FFP3	50
b) Filter with Quarter Mask or Half Mask (HFM & RF)	FFP1	4
	FFP2	12
	FFP3	50
c) Filter with Full Face Mask (FFM & RF)	FFP1	5
	FFP2	20
	FFP3	1000
Gas Filtering Devices		
a) Filter with Quarter or Half Mask (HFM & RF)		20
b) Filter with Full Face Mask (FFM & RF)		2000
Fresh Air Hose Breathing Apparatus		
a) With Half Mask		50
b) With Hood (only PAPR)		1000
c) With Full Face Mask		2000
d) With Mouthpiece Assembly		1000
Compressed Airline Breathing Apparatus		
a) With Half Mask		20
b) With Hood (Constant flow type)		1000
c) With Full Face Mask (Constant flow type)		2000
d) With Mouthpiece Assembly		10000
Self-Contained Open Circuit Component Air Breathing Apparatus		
a) With Full Face Mask		2000
b) With Mouthpiece Assembly		10000
c) With Positive Pressure		50000
Self-Contained Closed Circuit Oxygen Breathing Apparatus		
a) With Full Face Mask**		2000
b) With Mouthpiece Assembly**		10000
c) With Positive Pressure**		50000
The re-circulation of the gas can reduce the protection factor.		

The nominal protection factors are given only for guidance.

**In closed circuit breathing apparatus, the exhaled breath is re-circulated to remove carbon dioxide. Any other contaminant present is also re-circulated and may reduce the effective protection given by the device.

NIOSH CLASSIFICATION & N95 RESPIRATORS

A. Classes of filters defined by NIOSH

Filters are classified by efficiency and performance characteristics against non-oil and oil containing hazards. There are ten classes of NIOSH-approved particulate filtering respirators available at this time. 95% is the minimal level of filtration approved by NIOSH. The N, R, and P designations refer to the filter's oil resistance as described in the table below.

N (Not Resistant to Oil)	R (Some what Resistant to oil)	P (Oil Proof)
N95 = 95% efficiency	R95 = 95% efficiency	P95 = 95% efficiency
N99 = 99% efficiency	R99 = 99% efficiency	P99 = 99% efficiency
N100 = 99.97% efficiency	R100 = 99.97% efficiency	P100 = 99.97% efficiency
HE (High Efficiency Particulate Air)	Filters at least 99.97% of airborne particles. For use on PAPRs only. PAPRs use only HE filters.	

Filtering efficiency

Levels of filter efficiency are 95%, 99%, and 99.7%. Under NIOSH criteria, filter materials are tested at a flow rate of 85 lpm for penetration by particles with a median aerodynamic diameter of 0.3 μ

B. N95 Respirator

The N95 respirator is an example of personal protective equipment that is used to protect the wearer from particles or from liquids contaminating the face. The Centers for Disease Control and Prevention (CDC) and The National Institute for Occupational Safety and Health (NIOSH) regulate N95 respirators. The Department of Labor's Occupational Safety and Health Administration (OSHA) regulates entities for compliance with worker safety rules and OSHA standards, for example, the proper use of respirators in different work environments.

An N95 respirator is a respiratory protective device designed to achieve a very close facial fit and very efficient filtration of airborne particles. Note that the respirators are designed to form a seal around the nose and mouth. Surgical N95 Respirators (FDA Approved) are commonly used in healthcare settings and are a subset of N95 Filtering Facepiece Respirators (FFRs), often referred to as N95.

C. FAQ

1. What is 42CFR84?

The National Institute for Occupational Safety and Health (NIOSH) is the U.S. government agency responsible for the certification and approval of respiratory protective devices for occupational use. The authority is granted to NIOSH in accordance with conditions and standards established in Title 42 of the Code of Federal Regulations (CFR), Part 84.

2. Whose responsibility is the fit test?

It is the employer's responsibility under OSHA's respiratory protection fit testing requirements. It's important to remember that using a respirator that fits you properly protects your health and safety.

As per IS 9623, Program Administrator is responsible for the Fit test.

ANNEX H-CHECKLIST FOR RESPIRATOR PROTECTION PROGRAM

3. Whether the NIOSH protocol determines the fit test on a product?

Yes, for Filtering Facepiece Respirators that must be fit tested prior to use, the following Occupational Safety and Health Administration (OSHA) reference must be included in the user instructions:

Before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the local government requirements. In the United States, employers must comply with OSHA 29 CFR 1910.134 which includes medical evaluation, training and fit testing.-Reference CFR 42 Part 84.

4. What do you do with employees who have the facial hair? (What if the beard or moustache is small enough that it is contained inside the respirators?)

Tight-fitting respirators require the wearer's face to be clean shaven where the respirator's seal comes in contact with the skin. If the facial hair does not extend far enough to interfere with the device's seal in any way, or interfere with the function of the exhalation valve, the wearer may wear it with the approval of the respiratory protection administrator.

5. What is the end of service life?

End-of-service-life is when a respirator no longer works correctly. It is when the filtering medium can no longer provide the expected level of protection from harmful air contaminants, and has reached its capacity for capture and retention of the contaminant. Also when breathing while wearing the respirator becomes too difficult, or when the respirator becomes damaged, contaminated, or the integrity of the respirator is no longer intact.

RESPIRATORY PROTECTIVE DEVICES

GUIDE TO USP FEATURE ICONS



StayCool Butterfly Vent Valve



Effectively releases
CO₂ & heat build-up



Promotes easy
communication



Provides
breathing comfort



Full Foam Seal

- ▲ For leak proof comfortable fit on edges & for reuse (R)



Multilingual User Instructions

- ▲ For easy acceptance by different wearers



Outer Flame Retardant Layer

- ▲ Protects from welding sparks



Compatibility

- ▲ Compatible with Venus head protection and eye protection devices



Twist N Click

- ▲ One twist click & fit reusable filters



Lint Free Seal

- ▲ Minimizes the risk of product contamination



Beetle Style

- ▲ Three panel design from single media
- ▲ Soft side panels for skin comfort & rigid center panel of large surface area to stay away from nose & mouth



Half Foam Seal

- ▲ The soft material of the foam cushions the nose bridge there by providing comfort as well as fit



Transparent Valve

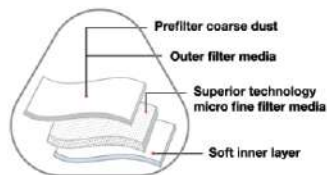
- ▲ Transparent valve clearly demonstrates its performance
- ▲ It also supports fit verification



Embedded nose clip

- ▲ No metal exposure/loose parts





Composite multilayer media

● Prefilter coarse dust

1. Does not clog the filter
2. High dust holding capacity
3. Can be used over longer period of time

● Outer filter media

1. Sheds minimum lint
2. Application friendly

● Soft Inner layer

1. Comfort to the wearer
2. Skin friendly even when perspiring

● Superior technology micro fine filter media

1. Protects from respirable suspended particulate matter
2. Composite of multiple layers pre-filter, fine filter and skin comfort layer



Unique Adjuster Beads

- Gives customized fitting option based on size of the user's head and preference of positions
- Provides optimum comfort, Fit Tight, Fit Right



Colour Coded

- Headband identification of appropriate level of FFR worn



Pharma-Food industry variant available

- No metal exposure
- Minimum lint reduce risk of product contamination



Activated Carbon Layer

- For absorption of nuisance level of obnoxious odour and vapour



Nose Liner

- Provides fit and comfort
- Prevents leakage



Net Reinforced Shell

- Structure integrity
- Suits rough handling



Drop Down Headband

- Convenience of hanging, when not in use



Anti Clogging (D)

- Having passed dolomite test, they resist clogging even in very high dust environments

“STAY COOL BUTTERFLY VENT VALVE”

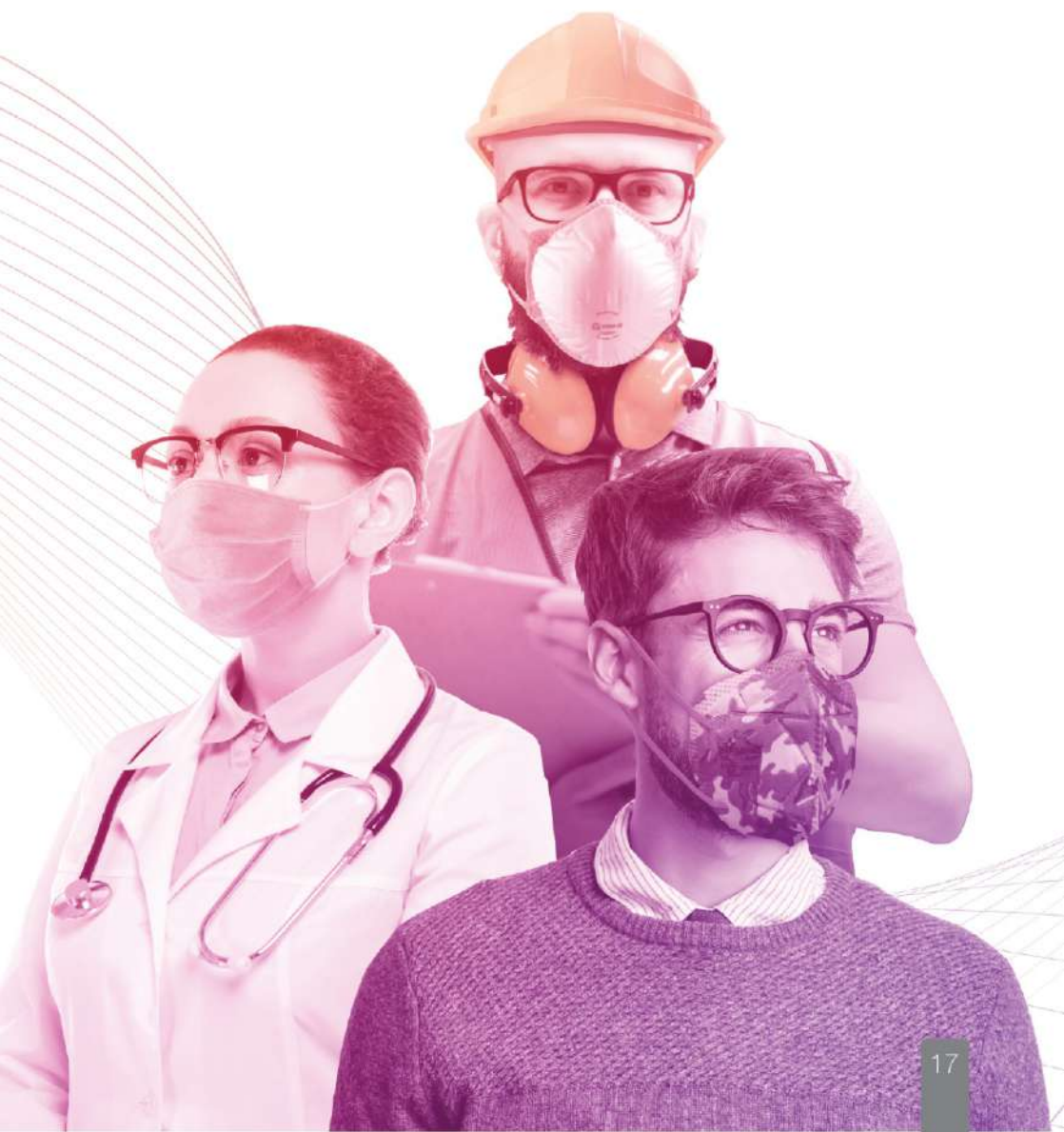


The Stay Cool Butterfly Vent Valve, inspired by the butterfly, incorporated in the maintenance-free respirator series & V-900 series of Half Face Mask is widely preferred by users. The design facilitates easy and comfortable breathing.

The Valve efficiently expels warm exhaled air high in CO₂ % & allows fresh air to enter through the filter, maximizing the comfort for the user. This seemingly simple invention is the most dynamic change we have brought about in the respirator.

The Butterfly Vent Valve is part of our endeavor to combine inspiration from nature's mystique with value-based innovations in our products.

MEDICAL & PERSONAL CARE



RESPIRATORY PROTECTION PRODUCT STYLES



Filtering Facepiece Respirator-FFR



VENUS-9700
Convex-Mesh Large Filter Style



VENUS-9400
Fold Flat-Mesh Style



VENUS-9200
Convex Mesh-V90 Style



VENUS-4400
Fold Flat-V44 C & V Style



VENUS-4200
Fold Flat-Large Filter V414, 410 Style



VENUS-2900
Convex-Double Shell Style



VENUS-2700
Convex - Large Filter Style



VENUS-2500
Convex - Nose Foam Style



VENUS-2400
Convex - Seam V210 Style



VENUS-2200
Convex-V20 Style



VENUS-1100
Fold Flat - Beetle Style



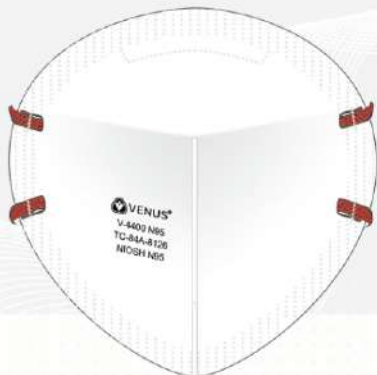
VENUS V-Shwas
Fold Flat - Ear Loop Style

V-4400

"FOLD FLAT" C & V-4200 Style



Approved N95 respirators
Filters >95% non-oil-based particles



FEATURES AND BENEFITS



Fold flat "C" Shape mask

- Stylish universal design which gives better visibility to user
- Easy to store when not in use



Superior technology micro-fine filter media

- Made from special engineered fabrics which are extremely easy to breathe but also provide higher protection up to 0.3micron
- Composed of multiple layers which include prefilter, fine filter & skin comfort layer



FDA approval series respirator undergo additional tests for

- Fluid & Splash resistance which helps reduce potential exposure to blood & body fluid
- Cytotoxicity test where respirator is tested against causing skin allergies and irritation
- Flammability test where respirator is exposed to flames in controlled environment.



Embedded nose clip inside the mask

- No metal exposure or loose parts



Latex free textile elastic

- These materials have long life are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit.



Welded head strap

- provides leakproof and optimum comfort



Compatibility

- Compatible with Venus head protection and eye protection devices



Unique fit adjusters

- Unique fit adjusters present on head band which can be used to fit user face profile.



Each mask is individually single packed

- Protects from contamination
- Easy storage-dispensing



Stay Cool Butterfly vent valve (V-4200N95)

- Provide breathing comfort
- Reduces buildup of CO₂, heat & moisture for enhanced comfort

APPLICATION EXAMPLES


Healthcare :
General Doctors, Dentist , Ophthalmologist, Surgeons, Physicians etc.

Laboratory :
Phlebotomist, Pathologist etc.

Pharmaceuticals :
Bulk drug, Charging application etc.



VENUS V-4400 SN95

CLASS: Surgical/N95 
TC-84A-9378

Protection: Non oil based particles

Item #	Colour	Elastic	Packing
34720	WHITE	WELDED	Single's Bag

Note: Fluid resistance conforms to ASTM F1862 at 120 mmHg.



VENUS V-4400 N95

CLASS: N95 
TC-84A-8126

Protection: Non oil based particles

Item #	Colour	Elastic	Packing
34780	WHITE	WELDED	Pack of 50



VENUS V-4200 N95

CLASS: N95 
TC-84A-8112

Protection: Non oil based particles

Inside clip & Nose liner
Exhalation vent valve

Item #	Colour	Elastic	Packing
34173	WHITE	WELDED	Single's Bag

V-4400

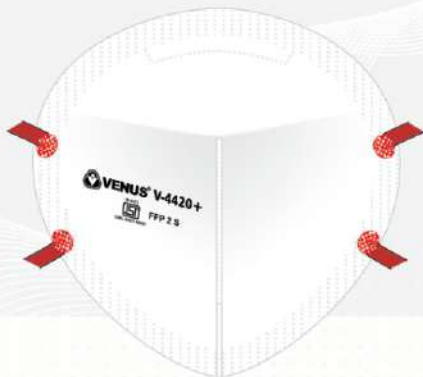
“FOLD FLAT” C Style

IS 9473



CM/L-0007143057

Approved Class FFP2



FEATURES AND BENEFITS



Fold flat “C” Shape mask

- Stylish universal design which gives better visibility to user
- Easy to store when not in use



Superior technology micro-fine filter media

- Made from special engineered fabrics which are extremely easy to breathe but also provide higher protection up to 0.3micron
- Composed of multiple layers which include prefilter, fine filter & skin comfort layer



Embedded nose clip

- No metal exposure or loose parts



Welded head strap

- provides leakproof and optimum comfort



Unique fit adjusters

- Unique fit adjusters present on head band which can be used to fit user face profile.



Latex free textile elastic

- These materials have long life are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit.



VENUS V-4420 E

CLASS: FFP2 S
 Protection: Solid Dust / Mist
 M.U.L: Upto 12 x OEL
 C Style

Item #	Colour	Elastic	Packing
34823	WHITE	WELDED Ear-loop	Single's Bag Pack of 25
34824	WHITE	WELDED Ear-loop	Pack of 50



VENUS V-4420+

CLASS: FFP2 S
 Protection: Solid Dust / Mist
 M.U.L: Upto 12 x OEL
 C Style

Item #	Colour	Elastic	Packing
34538	WHITE	WELDED	Single's Bag
34620	WHITE	WELDED	Pack of 50

APPLICATION EXAMPLES

Support staff :
Doctors / Hospitals

Laboratory :
Phlebotomist, Pathologist etc.

Pharmaceuticals :
Bulk drug, Charging application etc.

V-2400

“CONVEX” Style



Approved N95 respirators
Filters >95% non-oil-based particles



FEATURES AND BENEFITS



Light weight

- ▲ Construction promotes greater worker acceptance and may help increase wear time



Cup shaped mask with tough shell

- ▲ Well-integrated structure maintains the shape, disallowing collapse
- ▲ Provides good fit comfort and seals face



Elastic stitch outside filter area (CN95)

- ▲ Leakproof
- ▲ Avoids puncture in filter area



Latex free textile elastic

- ▲ These materials have long life are skin friendly and do not deform in high temperature
- ▲ Provide soft feel when in contact with skin and provide good fit.



Unique fit adjusters

- ▲ Unique fit adjusters present on head band which can be used to fit user face profile.



Superior technology micro-fine filter media

- ▲ Made from special engineered fabrics which are extremely easy to breathe but also provide higher protection up to 0.3micron
- ▲ Composed of multiple layers which include prefilter, fine filter & skin comfort layer



Nose liner present inside mask

- ▲ Prevents leakage through mask
- ▲ Does not fog eyewear
- ▲ Provides good fit and comfort



Embedded nose clip (CN-95)

- ▲ No metal exposure or loose parts



VENUS CN95

CLASS: N95 TC-84A-5292

Protection: Non oil based particles

Item #	Colour	Elastic	Packing
32095	WHITE	SEWN	Pack of 20



VENUS V-2400SN95+

CLASS: N95 TC-84A-9264

Protection: Non oil based particles

Size: Small

Item #	Colour	Elastic	Packing
32391	WHITE	STAPLED	Pack of 25

APPLICATION EXAMPLES

Healthcare :

General Doctors, Dentist , Ophthalmologist, Surgeons, Physicians etc.

Laboratory :

Phlebotomist, Pathologist etc.

Pharmaceuticals :

Bulk drug, Charging application etc.

V-1100

"FOLD FLAT" - Beetle Style

Products available with below approvals



Approved N95 respirators
Filters >95% non-oil-based particles

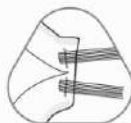


FEATURES AND BENEFITS



Unique 3 Panel Beetle Design

- Accommodates facial movements which help you work and talk comfortably
- Fits wide profile of face shapes and sizes.
- Soft sides provides face seal comfort still centre stays sway from mouth yet fits closely at the sides



Sewn head strap

- Provides better pull strength



Unique Fit Adjusters

- Present on head band which can be used to fit user face profile.



Latex free textile strap

- These materials have long life are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit.



Embedded nose clip

- No metal exposure or lose parts
- Metal nose clip provides good fit



Superior technology micro fine filter media

- Made from special engineered fabrics which are extremely easy to breathe but also provide higher protection up to 0.3micron
- Composed of multiple layers which include pre-filter, fine filter & skin comfort layer



Fluid /Splash resistance

- Helps reduce potential exposure to blood and body fluids caused from splashes, spray or splatter



Stay Cool Butterfly vent valve (V-1120SLV & V-1130 SLV)

- Patented Butterfly design which reduces heat buildup inside mask by 10°F
- Helps in breathing comfort and enhances respirator wear for longer period



Compatible with other PPE's

- Noninterference with other PPE's Eye & hearing protection & head Protection.

APPLICATION EXAMPLES

Healthcare :

General Doctors, Dentist , Ophthalmologist, Surgeons, Physicians etc.

Laboratory :

Phlebotomist, Pathologist etc.

Pharmaceuticals :

Bulk drug, Charging application etc.



VENUS RPD723N95

CLASS: N95 **MOSH**
 Classification: EN 149:2001+A1:2009
 TC- 84A-7876
 Protection: Non oil based particles
 Item # Colour Elastic Packing
 34417 WHITE SEWN Pack of 15



VENUS RPD724N95

CLASS: N95 **MOSH**
 Classification: EN 149:2001+A1:2009
 TC- 84A-7880
 Protection: Non oil based particles
 Exhalation Vent Valve
 Item # Colour Elastic Packing
 34418 WHITE SEWN Pack of 10



VENUS Beetle V1110

CLASS: FFP1 NR D CE
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 4 x OEL
 Item # Colour Elastic
 34443 WHITE SEWN



VENUS Beetle V1110 V

CLASS: FFP1 NR D CE
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 4 x OEL
 Exhalation Vent Valve
 Item # Colour Elastic
 34440 WHITE SEWN



VENUS Beetle V1120

CLASS: FFP2 NR D CE
 Classification: EN 149:2001+A1:2009
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 12 x OEL
 Item # Colour Elastic Packing
 34444 WHITE SEWN Pack of 15



VENUS Beetle V1120 V

CLASS: FFP2 NR D CE
 Classification: EN 149:2001+A1:2009
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 12 x OEL
 Exhalation Vent Valve
 Item # Colour Elastic Packing
 34441 WHITE SEWN Pack of 10



VENUS Beetle V1130 V

CLASS: FFP3 NR D CE
 Classification: EN 149:2001+A1:2009
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 50 x OEL
 Exhalation Vent Valve
 Item # Colour Elastic Packing
 34442 WHITE SEWN Pack of 10

V-1010

"3 Ply" Style Surgical Ear-loop / Tie

IS 16289



CML-7800022615

Approved Class 1, 2, 3 available.
(Bacteria Filtering efficiency) of 98%



FEATURES AND BENEFITS



Class of filters in 3 Ply

- Class3 masks are certified and tested against Fluid & Splash resistance which helps reduce potential exposure to blood & body fluid
- Class2 mask have BFE (Bacteria Filtering efficiency) of 98%



Embedded nose clip inside the mask

- No metal exposure or lose parts
- Metal nose clip provides good fit over plastic wire



Welded head strap

- Leak-proof & Optimum comfort



Latex free textile strap

- These materials have long life are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit.



Available in 2 headband styles

- Ear loop for easy donning and doffing
- Necktie to give secure fit as per face profile



Large face coverage

- Large breathing space within mask.
- 3 panel design to cover wide face area



Dispenser pack

- Packaged in easy to open



VENUS V-1010 Earloop

CLASS: 1,2,3 

Protection: Solid Dust / Mist

Item #	Colour	Elastic	Packing
34566	L.Blue	Ear loop welded - Class 1	Pack of 50
34568	L.Blue	Ear loop welded - Class 3	Pack of 50
34572	L.Blue	Ear loop welded - Class 2	Pack of 50



VENUS V-1010 Tie

CLASS: 2 

Protection: Solid Dust / Mist

Item #	Colour	Elastic	Packing
34573	L.Blue	Tie welded	Pack of 50

APPLICATION EXAMPLES

Healthcare :

General Doctors, Dentist.

Laboratory :

Phlebotomist, Pathologist etc.

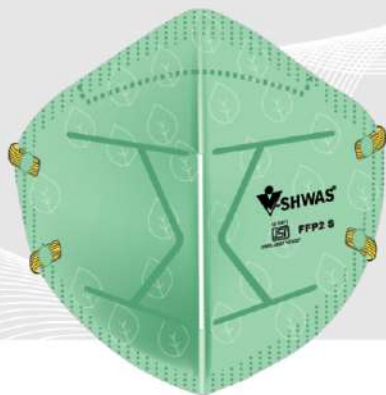


Fold Flat - Ear loop Style

Products available with below approvals



Class FFP1, FFP2 & FFP3 available



FEATURES AND BENEFITS



Lightweight

- Lightweight construction promotes greater worker acceptance and may help increase wear time



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustments requirements to provide a comfortable fit



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Nose liner present inside mask

- Prevents leakage through mask
- Does not fog eyewear
- Provides good fit and comfort



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer



Elastic Welded / Stapled Outside Filter Area

- Welded head strap which provides leak-proof and optimum comfort



Dotted Pattern Edges

- For soft feel on face contours



Embedded Nose Clip

- No metal exposure or loose parts
- Leak-proof fit
- Does not interfere safety of your production (pharma/food)



Now with Cotton Fabric

- Better Breathability inside mask

Application examples

Healthcare

Pedestrians, two wheeler riders, allergy patients, traffic police, TB patients, doctors

Laboratory
Road wear

Blood sampling

Pedestrians, two wheeler riders, traffic police

Pharmaceuticals

Bulk drugs, charging application


V-Shwas Natural

 CLASS: FFP3 

 Protection: Solid Dust / Mist
 M.U.L: Upto 50 x OEL

* Advanced filter media gives

high breathability & filtration

Item #	Colour	Elastic	Packing
24832	W Leaf	WELDED	Pack of 2
24831	G Leaf	WELDED	Pack of 2


V-Shwas Comfort

 CLASS: FFP3 

Protection: Solid Dust / Mist

M.U.L: Upto 50 x OEL

* Exhalation Vent Valve

Item #	Colour	Elastic	Packing
24613	Camo	WELDED	Pack of 2
24614	BL W Leaf	WELDED	Pack of 2
24615	Camo	WELDED	Pack of 2
24616	BL W Leaf	WELDED	Pack of 2


V-Shwas Lite

 CLASS: FFP1 S 

Protection: Solid Dust / Mist

M.U.L: Upto 4 x OEL

Item #	Colour	Elastic	Packing
24715	WHITE	WELDED	Bag of 1

INDUSTRIAL SAFETY



V-9700

Convex Mesh Large Filter Style



NIOSH Approved P100 Respirators
Highest Protection



FEATURES AND BENEFITS



Compatible with Other PPE

- Non-interference with other PPE - eye, hearing & head protection



Net Reinforced Shell

- Well-integrated structure maintains the shape, disallowing collapse
- Suitable for rough handling



Superior Technology Micro Fine Filter Media

- Protects against respirable suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer
- Protects against water/oil based liquid, mist and biological agent



Cut Seal Edge

- Minimum loose fiber from edge



Wide Aluminum Nose Clip

- Strong flexible clip to get customized fit around nose and avoid fogging of spectacles due to exhalation



Full Foam Seal

- Secure and comfortable fit on edges



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air and minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Front Pull Adjuster Clips

- Clip welded outside filter area to avoid puncture in filter area
- Relieves strap pressure & fits right




Broad Textile Elastic, Produced from Poly Iso Prene

- Provides comfortable fit
- Good for skin comfort while used in tough conditions
- Does not deform in high temperature



VENUS RPD914P100

CLASS: P100 
Protection: Oil based particles
M.U.L: Upto 4 x OEL

TC 84A-7887

Item #	Colour	Elastic	Packing
12317	MAGENTA	WELDED	Pack of 5

APPLICATION EXAMPLES

Automobile

Oil based CNC machine, Powder coating, Maintenance department

Battery Industry

Acid handling, Lead handling, Smelting

Chemical Industry

Arsenic, Cadmium, Lead, Other chemical, Powder handling

Pharmaceuticals

Bulk drugs, Material handling

Miscellaneous

Oil spraying, Lubricating

V-9400

Fold Flat - Mesh Style

Products available with below approvals

IS 9473



CML-0007143057

Class FFP2 available



FEATURES AND BENEFITS



Compatible with Other PPE

- Non-interference with other PPE - eye, hearing & head protection



Fold Flat Design

- Easy to store while not in use
- Stylish universal design



Net Reinforced Shell

- Well-integrated structure maintains the shape, disallowing collapse
- Suitable for rough handling



Superior Technology Micro Fine Filter Media

- Made from special engineered fabrics which are extremely easy to breathe in and also provide higher protection of up to 0.3 microns
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer



Embedded Nose Clip

- No metal exposure or loose parts
- Leak-proof fit
- Does not interfere safety of your production (pharma/food)



Nose Liner

- Does not interfere with eyewear
- Prevents leakage through mask
- Does not fog eyewear
- Provides good fit and comfort



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air, minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Transparent Valve Vent

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustment requirements to provide comfortable fit



Elastic Sewn Outside Filter Area

- Sewn head straps provide better pull strength



Latex Free Textile Elastic

- These materials have long life, are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit



VENUS V-9420 V

CLASS: FFP2 S

Protection: Solid Dust / Mist

M.U.L: Upto 12 x OEL

Item #	Colour	Elastic	Packing
14353	GREY	SEWN	Pack of 15

APPLICATION EXAMPLES

Automobile	Oil based CNC machine, Powder coating, Maintenance department
Battery Industry	Acid handling, Lead handling, Smelting

Chemical Industry	Arsenic, Cadmium, Lead, Other chemical, Powder handling
Pharmaceuticals	Bulk drugs, Material handling
Miscellaneous	Oil spraying, Lubricating

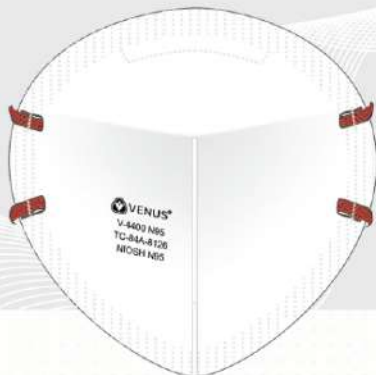
V-4400

Fold Flat - C Style

Products available with below approvals



Class FFP1 and FFP2 available



FEATURES AND BENEFITS



Lightweight

- Lightweight construction promotes greater worker acceptance and may help increase wear time



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer



Dotted Pattern Edges

- For soft feel on face contours



Embedded Nose Clip

- No metal exposure or loose parts
- Leak-proof fit
- Does not interfere safety of your production (pharma/food)



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustments requirements to provide a comfortable fit



Broad Textile Elastic, Produced from Poly Iso Prene

- Provides comfortable fit, good for skin comfort while use in tough conditions
- Does not deform in high temperature



Elastic Welded/Stapled Outside Filter Area

- Welded head strap which provides leak-proof and optimum comfort



VENUS V-4410

CLASS: FFP1 SL CE
Protection: Solid Dust / Mist
M.U.L.: Upto 10 x OEL
C Style

Item #	Colour	Elastic	Packing
14599	L.BLUE	STAPLED	Single's



VENUS V-44+ +

CLASS: FFP1 S CE
Protection: Solid Dust / Mist
M.U.L.: Upto 4 x OEL
C Style

Item #	Colour	Elastic Rubber	Packing
14320	YELLOW	STAPLED	Bag of 50
14340	GREY	STAPLED	Bag of 50
14446	WHITE	STAPLED	Bag of 50



VENUS V-444+

CLASS: FFP2 S CE
Protection: Solid Dust / Mist
M.U.L.: Upto 12 x OEL

Item #	Colour	Elastic	Packing
14818	L. YELLOW	STAPLED	Bag of 50

APPLICATION EXAMPLES

Agriculture
Textiles
Food & Beverages
Medical

Grain dust, Pollen dust
Spinning, Weaving
Food processing and raw material handling
Doctors, Supporting staff, Patients

Hospitality
Road & Traffic

House-keeping services, General use
Road pollution

V-4400

Fold Flat - V Style

Products available with below approvals



Class FFP1 available



FEATURES AND BENEFITS



Lightweight

- Lightweight construction promotes greater worker acceptance and may help increase wear time



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustments requirements to provide a comfortable fit



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Knitted Elastic

- Comfortable and safe while in use



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer



Elastic Welded / Stapled Outside Filter Area

- Welded head strap which provides leak-proof and optimum comfort



VENUS V-44+

CLASS: FFP1 S
Protection: Solid Dust / Mist
M.U.L: Upto 4 x OEL
V Style

Item #	Colour	Elastic	Packing
14386	YELLOW	WELDED	Bag of 50
14428	GREY	WELDED	Bag of 50



DHUL RAKSHAK

CLASS: FFP1 S
Protection: Solid Dust / Mist
M.U.L: Upto 4 x OEL
V Style

Item #	Colour	Elastic	Packing
14701	GREY	WELDED	Pack of 50
14703	YELLOW	WELDED	Pack of 50

APPLICATION EXAMPLES

Agriculture Grain dust, Pollen dust
Textiles Spinning, Weaving
Food & Beverages Food processing and raw material handling
Medical Doctors, Supporting staff, Patients

Hospitality
Road & Traffic

House-keeping services, General use
 Road pollution

V-9200

Convex Mesh - V90 Style

Products available with below approvals



Class FFP1, FFP2 and FFP3 classes available



FEATURES AND BENEFITS



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Dual Shell Design

- Durable in repeat/long wears



Net Reinforced Shell

- Well-integrated structure maintains the shape, disallowing collapse
- Suitable for rough handling



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer
- High dust holding capacity, can be used over long/ repeat wearing periods of wear time
- Doesn't let the filter clog, thereby increasing the respirator's life



Cut Seal Edge

- Minimum loose fiber from edges



Embedded Nose Clip

- No metal exposure or loose parts
- Leak-proof fit
- Does not interfere safety of your production (pharma/food)



Braided Textile Elastic

- Does not deform in repeat wear or high temperature



Nose Liner (V-9210)

- Does not interfere with eyewear
- Prevents leakage through mask
- Does not fog eyewear
- Provides good fit and comfort



Half Foam Seal (V-90, V-2920)

- Provides leak-proof and comfortable fit



Full Foam Seal (V-9230)

- Secure and comfortable fit on edges



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air, minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Transparent Valve Vent

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustment requirements to provide a comfortable fit



Elastic Sewn Outside Filter Area

- Sewn head straps provide better pull strength



VENUS V-90 V

CLASS: FFP2 S

Protection: Solid Dust / Mist
M.U.L: Upto 12 x OEL

Item #	Colour	Elastic	Packing
19016	YELLOW	SEWN	Pack of 10
19017	GREY	SEWN	Pack of 10



VENUS V-9210 SLV

CLASS: FFP1 NR D CE

Protection: Solid Dust / Mist
M.U.L: Upto 4 x OEL

Item #	Colour	Elastic	Packing
19024	BLUE	SEWN	Pack of 10



VENUS V-9220 SLV

CLASS: FFP2 NR D CE

Protection: Solid Dust / Mist
M.U.L: Upto 12 x OEL

Item #	Colour	Elastic	Packing
19023	GREY	SEWN	Pack of 10



VENUS V-9230 SLV

CLASS: FFP3 NR D CE

Protection: Solid Dust / Mist
M.U.L: Upto 30 x OEL

Item #	Colour	Elastic	Packing
19020	WHITE	SEWN	Pack of 10

APPLICATION EXAMPLES

Automobile
Construction
Ceramics
Cement

Buffing, Cutting, Grinding
Sanding, Drilling, Cutting, Carpentry
Moulding, Material handling, Raw material storage
Crushing, Bagging, Cement handling

Engineering
Mining
Tyre

Sand Blasting, Cutting
Drilling, Material handling
Carbon black

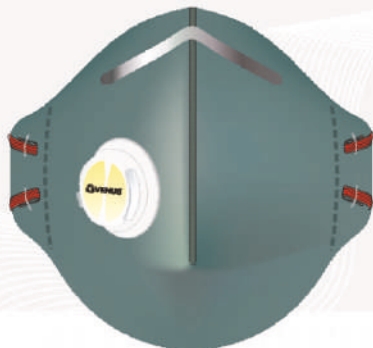
V-4200

Fold Flat - Large filter V414, V410 Style

Products available with below approvals



Class FFP1, FFP2 and FFP3 classes available



FEATURES AND BENEFITS



Anti-Clogging

- Allow to use in multiple shift



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Absorbent Carbon Granules Sandwiched Fabric Layer (V414, V-425)

- Filter nuisance level organic vapour gases below TLV



Flame Retardant Outer Media (V-425)

- Enhanced user safety to protect from welding spark



Superior Technology Micro Fine Filter Media

- Protects against sub-micron particles, fine dust, water/oil based liquid mist and microbial agents



Embedded Nose Clip (V-4200, V-430)

- No metal exposure or loose parts
- Leak-proof fit
- Does not interfere safety of your production (pharma/food)



Big Nose Liner

- Does not interfere with eyewear
- Prevents leakage through mask
- Does not fog eyewear
- Provides good fit and comfort



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air, minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Transparent Vent Valve

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit user face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustments requirements to provide comfortable fit



Elastic Sewn Outside Filter Area

- Sewn head straps provide better pull strength



Latex Free Textile Elastic

- These materials have long life, are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit



VENUS V-410

CLASS: FFP1 SL NR D CE
CLASS: FFP1 S

Protection: Solid Dust / Mist
M.U.L.: Upto 4 x OEL

Item #	Colour	Elastic	Packing	Approval
14015	YELLOW	SEWN	Pack of 30	CE
14010	GREY	SEWN	Pack of 30	CE
14146	YELLOW	STAPLED	Pack of 30	CE
14147	GREY	STAPLED	Pack of 30	CE



VENUS V-410 V

CLASS: FFP1 S CE
CLASS: FFP1 SL NR D CE
Protection: Solid Dust / Mist
M.U.L.: Upto 4 x OEL
Exhalation Vent Valve

Item #	Colour	Elastic	Packing	Approval
14153	YELLOW	STAPLED	Pack of 20	CE
14148	GREY	STAPLED	Pack of 20	CE
14026	YELLOW	SEWN	Pack of 20	CE
14019	GREY	SEWN	Pack of 20	CE



VENUS V-4214 SLOW-V*

CLASS: FFP1 NR D CE
Protection: Solid Dust / Oil Mist /
Nuisance Level of Organic Vapour /
Gases below > TLV
M.U.L.: Upto 4 x OEL
Exhalation Vent Valve
Activated Carbon Layer

Item #	Colour	Elastic	Packing
14394	GREEN	SEWN	Pack of 15



VENUS V-414 SLOW-V*

CLASS: FFP2 NR D CE
Protection: Solid Dust / Mist /
Nuisance Level of Organic Vapour /
Gases below > TLV
M.U.L.: Upto 12 x OEL
Exhalation Vent Valve
Activated Carbon Layer

Item #	Colour	Elastic	Packing
14211	GREEN	SEWN	Pack of 15



VENUS V-425 SLOW-V*

CLASS: FFP2 NR D CE
Protection: Solid Dust / Mist /
Nuisance Level of Organic Vapour /
Gases below > TLV
M.U.L.: Upto 12 x OEL
Exhalation Vent Valve
Activated Carbon & Flame Retardant
Outer Layer

Item #	Colour	Elastic	Packing
14212	GREY	SEWN	Pack of 15
14392	WHITE	SEWN	Pack of 15



VENUS V-420 SL

CLASS: FFP2 NR D CE
Protection: Solid Dust / Mist
M.U.L.: Upto 12 x OEL

Item #	Colour	Elastic	Packing
14036	WHITE	SEWN	Pack of 30



VENUS V-420 SLV

CLASS: FFP2 NR D CE
Protection: Solid Dust / Mist
M.U.L.: Upto 12 x OEL
Exhalation Vent Valve

Item #	Colour	Elastic	Packing
14039	WHITE	SEWN	Pack of 15
14036	GREY	SEWN	Pack of 15



VENUS V-430 SLV

CLASS: FFP3 NR D CE
M.U.L.: Upto 50x OEL
Protection: Solid Dust / Mist
Inside Clip & Nose Liner
Exhalation Vent Valve

Item #	Colour	Elastic	Packing
14056	GREY	SEWN	Pack of 15
14339	WHITE	SEWN	Pack of 15



VENUS V-430 SL

CLASS: FFP3 NR D CE
Protection: Solid Dust / Mist
M.U.L.: Upto 30 x OEL
Inside Clip & Nose Liner

Item #	Colour	Elastic	Packing
14055	WHITE	SEWN	Pack of 15

APPLICATION EXAMPLES

Automobile	Painting, Powder coating, Welding, Maintenance work
Metal Fabrication	Soldering, Welding, Metal Pouring, Smelting
Agriculture	Pesticides, Insecticide spraying
Chemical Effluent Treatment Plant	Material handling, Material processing

Engineering	Welding, Sand blasting, Buffing, Powder coating, Painting, Cutting
Pharmaceuticals	Bulk drugs, Material handling
Battery	Lead handling
Ceramics	Material mixing

V-2900

Convex - Double Shell Style

Products available with below approvals



EN 149:2001+A1:2009

Class FFP1, FFP2 and FFP3 classes available



FEATURES AND BENEFITS



Anti-Clogging

- Allow to use in multiple shift



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Dual Shell Design

- Primary filter supports high dust retention capacity



Absorbent Carbon Granules Sandwiched Fabric Layer (RPD814P950A, RPD714N950AO)

- For absorption of nuisance level of obnoxious odour and vapour



Flame Retardant Outer Media

- Enhanced user safety to protect from welding spark



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Doesn't let the filter clog thereby increasing the respirator's life



Wide Aluminum Nose Clip

- Strong flexible clip to get customized fit around nose and avoid fogging of spectacles due to exhalation



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air, minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Transparent Valve Vent

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustment requirements to provide a comfortable fit



Front Pull Adjuster Clips

- Clip welded outside filter area to avoid puncture in filter area
- Relieves strap pressure & fits right



Elastic Welded / Stapled Outside Filter Area

- Welded head strap which provides leak-proof and optimum comfort



Latex Free Textile Elastic

- These materials have long life, are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit



VENUS V-2910 SLV

CLASS: FFP1 NR D CE
Protection: Solid Dust / Mist
M.U.L: Upto 4 x OEL
Exhalation Vent Valve
Nose Liner

Item #	Colour	Elastic	Packing
12239	WHITE	SEWN	Pack of 10



VENUS V-2920 SLV

CLASS: FFP2 NR D CE
Protection: Solid Dust / Mist
M.U.L: Upto 12 x OEL
Exhalation Vent Valve
Half Foam Seal

Item #	Colour	Elastic	Packing
12240	WHITE	SEWN	Pack of 10



VENUS V-2930 SLV

CLASS: FFP3 NR D CE
Protection: Solid Dust / Mist
M.U.L: Upto 30 x OEL
Exhalation Vent Valve
Full Foam Seal

Item #	Colour	Elastic	Packing
12238	WHITE	WELDED	Pack of 5



VENUS RPD814P95

CLASS: P95 **MOSH**
TC- 84A-7885

Protection: Oil based particles

Exhalation Vent Valve
Full Foam Seal
Flame Retardant outer layer

Item #	Colour	Elastic	Packing
12315	WHITE	WELDED	Pack of 10



VENUS RPD814P95OA

CLASS: P95 **MOSH**
TC- 84A-7884

Protection: Oil based particles
Exhalation Vent Valve

Full Foam Seal
Nuisance Level of VOCs / acid gas / Activated carbon layer
Flame Retardant outer layer

Item #	Colour	Elastic	Packing
12316	WHITE	WELDED	Pack of 5



VENUS RPD714N95

CLASS: N95 **MOSH**
TC- 84A-7875

Protection: Non oil based particles

Exhalation Vent Valve
Half Foam Seal

Item #	Colour	Elastic	Packing
12310	WHITE	WELDED	Pack of 10



VENUS RPD714N95OA

CLASS: N95 **MOSH**
TC- 84A-7881

Protection: Non oil based particles

Exhalation Vent Valve
Half Foam Seal
Nuisance Level of VOCs / acid gas / ozone
Activated carbon layer

Item #	Colour	Elastic	Packing
12311	WHITE	WELDED	Pack of 10



VENUS RPD513N95

CLASS: N95 **MOSH**
TC- 84A-7872

Protection: Non oil based particles

Nose Liner

Item #	Colour	Elastic	Packing
12307	WHITE	WELDED	Pack of 20



VENUS RPD514N95

CLASS: N95 **MOSH**
TC- 84A-7873

Protection: Non oil based particles

Exhalation Vent Valve
Nose Liner

Item #	Colour	Elastic	Packing
12308	WHITE	WELDED	Pack of 10

APPLICATION EXAMPLES

Automobile
Cement
Ceramics
Chemical
Construction

Powder coating, Oil spraying
Crushing, Bagging, Cement handling
Material mixing
Material handling
Sanding, Drilling, Cutting

Engineering
Mining
Pharmaceuticals
Textiles
Tyre

Sand Blasting, Cutting
Drilling, Material handling
Bulk drugs, Material handling
Spinning, Weaving
Carbon black

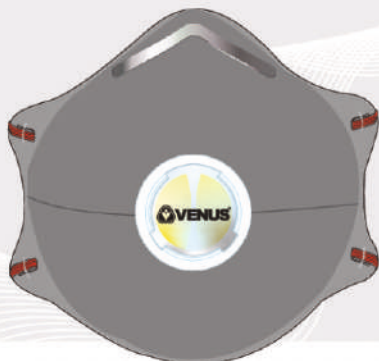
V-2400

Convex - Cup Seam Style

Products available with below approvals



Class FFP1, FFP2 and FFP3 classes available



FEATURES AND BENEFITS



Anti-Clogging

- Allow to use in multiple shift



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Convex Cup Seam Style

- Popular face fitting, high performance
- No interference with communication
- Maintains high integrity of filter media
- Accommodates facial movements
- Classic collapse-resistance shell with seamed filter cover



Tough Shell

- Well-integrated structure maintains the shape disallowing collapse



Absorbent Carbon Granules Sandwiched Fabric Layer (V2425, 2426, 2424, 2425, 2428, CN95OV)

- For absorption of nuisance level of obnoxious odour and vapour



Flame Retardant Outer Media (V2425)

- Enhanced user safety to protect from welding spark



Superior Technology Micro Fine Filter Media

- Protects against respirable particulate suspended particulate matter while improving breathing comfort
- Composed of multiple layers: pre-filter, fine filter and skin comfort layer
- Made from special engineered fabrics which are extremely easy to breathe but also provide higher protection up to 0.3micron



Aluminum nose clip

- Leak-proof fit
- It does not permit eyewear fogging



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air, minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Transparent Valve Vent

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustment requirements to provide a comfortable fit



Elastic Sewn Outside Filter Area

- Sewn head straps which provides better pull strength



VENUS V-2424 SLOV-V

CLASS: FFP2 SLOV-V
 Protection: Solid Dust / Oil Mist
 Nuisance Level of Organic Vapour
 Mist & Odour < TLV
 M.U.L: Upto 12 x OEL
 Full Foam Seal
 Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12215	GREY	SEWN	Pack of 10
12386	GREY	STAPLED	



VENUS V-2426 SL-AC

CLASS: FFP2 SL
 Protection: Solid Dust / Oil Mist
 Nuisance Level of Odour Acid Gas < TLV
 M.U.L: Upto 12 x OEL
 Full Foam Seal

Item #	Colour	Elastic	Packing
12076	BLUE	SEWN	Pack of 10



VENUS V-2427 SL-HF

CLASS: FFP2 SL
 Protection: Solid Dust / Oil Mist
 Nuisance Level of HF Odour < TLV
 M.U.L: Upto 12 x OEL
 Full Foam Seal

Item #	Colour	Elastic	Packing
12199	L.BLUE	SEWN	Pack of 10



VENUS V-2425 SLOV-V

CLASS: FFP2 SLOV
 Protection: Solid Dust / Oil Mist
 Nuisance Level of Odour
 Flame Retardant Outer Layer
 M.U.L: Upto 12 x OEL
 Full Foam Seal
 Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12185	GREY	SEWN	Pack of 10



VENUS V-2428 SL-AM

CLASS: FFP2 SL
 Protection: Solid Dust / Oil Mist
 Nuisance Level of Ammonia < TLV
 M.U.L: Upto 12 x OEL
 Full Foam Seal

Item #	Colour	Elastic	Packing
12216	D.GREEN	SEWN	Pack of 10



VENUS V-210 SL

CLASS: FFP1 NR D
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 4 x OEL

Item #	Colour	Elastic	Packing
12047	WHITE	SEWN	Pack of 25
12348	WHITE	STAPLED	Pack of 25



VENUS V-220 SL

CLASS: FFP2 NR D
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 12 x OEL

Item #	Colour	Elastic	Packing
12108	WHITE	SEWN	Pack of 25
12350	WHITE	STAPLED	Pack of 20



VENUS V-2430 SLV

CLASS: FFP3 NR D
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 50 x OEL
 Exhalation Vent Valve
 Full Foam Seal

Item #	Colour	Elastic	Packing
12268	WHITE	SEWN	Pack of 10



VENUS V-210 SLV

CLASS: FFP1 NR D
 Protection: Solid Dust / Oil Mist
 M.U.L: Upto 4 x OEL
 Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12086	WHITE	SEWN	Pack of 15
12349	WHITE	STAPLED	Pack of 15

APPLICATION EXAMPLES

Chemical Automobile

Material handling, Material processing
 Painting, Powder coating, Welding,
 Maintenance work

Battery

Lead handling

Pharmaceuticals

Bulk drugs, Material handling

Ceramics

Material mixing

Metal Fabrication Agriculture Engineering

Soldering, Welding, Metal pouring, Smelting
 Pesticides, Insecticide spraying
 Welding, Sand blasting, Buffing, Powder coating
 Painting, Cutting
 Maintenance

Effluent Treatment Plant



VENUS CN95+

CLASS: N95 **MOSH**

TC- 84A-7516

Protection: Non oil based particles

Item #	Colour	Elastic	Packing
12260	WHITE	STAPLED RUBBER	Pack of 20



VENUS CVN95+

CLASS: N95 **MOSH**

TC- 84A-7514

Protection: Non oil based particles

Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12261	WHITE	STAPLED RUBBER	Pack of 15

VENUS CVN95

CLASS: N95 **MOSH**

TC- 84A-5631

Protection: Non oil based particles

Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12096	WHITE	SWEN	Pack of 15



VENUS CN95 OV

CLASS: N95 **MOSH**

TC- 84A-5632

Protection: Non oil based particles

Nuisance Level of odour

Activated carbon layer

Item #	Colour	Elastic	Packing
12128	GREY	SEWN	Pack of 15



VENUS V-220 SLV

CLASS: FFP2 NR D CE

Protection: Solid Dust / Oil Mist

M.U.L: Upto 12 x OEL

Exhalation Vent Valve

Item #	Colour	Elastic	Packing
12109	WHITE	SEWN	Pack of 15
12351	WHITE	STAPLED	Pack of 15

APPLICATION EXAMPLES

**Chemical
Automobile**

Material handling, Material processing
Painting, Powder coating, Welding,
Maintenance work

**Battery
Pharmaceuticals
Ceramics**

Lead handling
Bulk drugs, Material handling
Material mixing

**Metal Fabrication
Agriculture
Engineering**

Soldering, Welding, Metal pouring, Smelting
Pesticides, Insecticide spraying
Welding, Sand blasting, Buffing, Powder coating
Painting, Cutting
Maintenance

**Effluent Treatment
Plant**

V-2700

Convex - Large Filter style

Products available with below approval



FEATURES AND BENEFITS



Anti Clogging (NR D)

- Having passed dolomite test, it resists clogging even in high dust environments



Microfibre media

- Provides protection against sub-micron particles, fine dust, water/oil based liquid mist and biological agents



Convex large filter area style

- Good breathing comfort



Transparent Valve

- Transparent valve clearly demonstrates the performance of valve it also supports fit verification



Stay cool butterfly vent valve

- Provides breathing comfort and promotes easy communication
Effectively removes heat build-up



Front pull adjuster

- With broad elastic gives fit & relieves strap pressure



Full foam seal

- For leakproof comfortable fit on edges



Latex free textile elastic

- Provides comfortable fit
- Non allergic
- Does not deform in high temperature



Elastic welded outside filter media

- Leakproof
- Avoids puncture in filter area



Activated carbon, (V2735)

- For absorption of nuisance level of obnoxious odour and vapour



Outer flame retardant layer (V2735)

- Protects from welding sparks



VENUS V-230 SLV

CLASS: FFP3 NR D CE
Protection: Solid Dust / Oil Mist

M.U.L: Upto 50 x OEL

Item #	Colour	Elastic	Packing
12080	WHITE	WELDED	Pack of 5



VENUS V-2735 SLOV-V*

CLASS: FFP3 NR D CE

Protection: Solid Dust / Oil Mist /
Nuisance Level of odour
M.U.L: Upto 50 x OEL

Activated Carbon layer
Flame retardant outer layer

Item #	Colour	Elastic	Packing
12235	GREY	WELDED	Pack of 5

APPLICATION EXAMPLES

Chemical Automobile

Material handling, Material processing
Painting, Powder coating, Welding,
Maintenance work

Battery Pharmaceuticals Ceramics

Lead handling
Bulk drugs, Material handling
Material mixing

Metal Fabrication Agriculture Engineering

Soldering, Welding, Metal pouring, Smelting
Pesticides, Insecticide spraying
Welding, Sand blasting, Buffing, Powder coating
Painting, Cutting
Maintenance

Effluent Treatment Plant

V-2200

Convex - V20 Style

Products available with below approvals



Class FFP1, FFP2 and FFP3 classes available



FEATURES AND BENEFITS



Lightweight

- Lightweight construction promotes greater worker acceptance and may help increase wear time



Compatible with other PPE

- Non-interference with other PPE - eye, hearing & head protection



Convex Cup Seam Style

- Popular face fitting



Dual Shell Design

- Durable in repeat/long wears



Wide Aluminum Nose Clip

- Strong flexible clip to get customized fit around nose and avoid fogging of spectacles due to exhalation



Transparent vent Valve

- Transparent valve clearly demonstrates the performance of valve, it also supports fit verification



Stay Cool Butterfly Vent Valve

- Provides breathing comfort and promotes easy communication
- Removes exhaled air minimizes the risk of fogging eyewear
- Patented butterfly design which reduces heat build up inside the mask by 10°F
- Helps in breathing comfort and enhances respirator wear for a longer period



Unique Fit Adjuster Beads

- Unique fit adjusters present on the headband which can be used to fit the user's face profile
- Convenient to retrieve while using
- Easy to don & suits personal adjustments requirements to provide a comfortable fit



Elastic Sewn Outside Filter Area

- Sewn head straps provides better pull strength



Latex Free Textile Elastic

- These materials have long life, are skin friendly and do not deform in high temperature
- Provide soft feel when in contact with skin and provide good fit

APPLICATION EXAMPLES

Chemical Automobile

Material handling, Material processing
Painting, Powder coating, Welding,
Maintenance work

Battery Pharmaceuticals Ceramics

Lead handling
Bulk drugs, Material handling
Material mixing

Metal Fabrication Agriculture Engineering

Soldering, Welding, Metal pouring, Smelting
Pesticides, Insecticide spraying
Welding, Sand blasting, Buffing, Powder coating
Painting, Cutting
Maintenance

Effluent Treatment Plant



VENUS V-20 V

CLASS: FFP2 S 
 Protection: Solid Dust / Mist
 M.U.L: Upto 12 x OEL
 Exhalation Valve Vent
 Half Foam Seal

Item #	Colour	Elastic	Packing
12071	WHITE	SEWN	Pack of 10
12072	GREY	SEWN	Pack of 10



VENUS V-2200

CLASS: FFP2 S 
 Protection: Solid Dust / Mist
 M.U.L: Upto 12 x OEL
 Exhalation Valve Vent
 Nose Liner

Item #	Colour	Elastic	Packing
12387	WHITE	SEWN	Pack of 10
12388	WHITE	SEWN	Pack of 10



VENUS V-2210 V

CLASS: FFP1 S 
 Protection: Solid Dust / Mist
 M.U.L: Upto 4 x OEL
 Exhalation Valve Vent
 Nose Liner

Item #	Colour	Elastic
12269	WHITE	SEWN



VENUS V-2230 SLV

CLASS: FFP3 SLV 
 Protection: Solid Dust / Oil Mist

M.U.L: Upto 50 x OEL
 Exhalation Valve Vent

Full Foam Seal

Item #	Colour	Elastic
12070	WHITE	SEWN

APPLICATION EXAMPLES

Chemical Automobile

Battery
Pharmaceuticals
Ceramics

Material handling, Material processing
 Painting, Powder coating, Welding,
 Maintenance work
 Lead handling
 Bulk drugs, Material handling
 Material mixing

Metal Fabrication Agriculture Engineering

Effluent Treatment
Plant

Soldering, Welding, Metal pouring, Smelting
 Pesticides, Insecticide spraying
 Welding, Sand blasting, Buffing, Powder coating
 Painting, Cutting
 Maintenance

RESPIRATORY PROTECTION PRODUCT STYLES



Half Face Mask-HFM, Full Face Mask-FFM & Replaceable Filters



VENUS-900
Half Face Mask



VENUS-7900
Reusable Filters (Dual)



VENUS-999
Full Face Mask



VENUS-800
Half Face Mask



VENUS-7800
Reusable Filters (Dual)



VENUS-668/667
Full Face Mask



VENUS-777
Full Face Mask



VENUS-7700
Reusable Filter (Single)
(STD. Threads)



VENUS-500
Half Face Mask



VENUS-7500
Reusable Filter (Single)
(STD. Threads)



VENUS-400
Half Face Mask
Single Filter

V-900

Reusable Half Face Mask

Product available with below approval



FEATURES AND BENEFITS

Size options



Stay Cool Butterfly vent valve

- ▲ Provide breathing comfort
- ▲ Reduces buildup of CO₂, heat & moisture for enhanced comfort



Transparent valve cover design

- ▲ To ensure the efficiency of the exhalation valve



Drop down

- ▲ No need to remove other PPE when lowering or removing half face mask
- ▲ Easy to put on & remove while in use



Head cradle

- ▲ Lock down mechanism provides optimum fit & good comfort



4 points adjustable harness

- ▲ Adjustable design helps to reduce tension & provide adequate fitting & comfort



Twist N Click

- ▲ One twist fit for filter



*Packing

- ▲ Re-useable box for use & storage with combo pack



VENUS V-900 HFM Silicon / TPE



Compatible with Venus dual V-7900 Filters

Item #	Colour	Size	Item #	Colour	Size
15060	L.BLUE	SMALL - Silicon	15146	BLUE	SMALL - TPE
15152	L.BLUE	MEDIUM - Silicon	15147	GREY	MEDIUM - TPE
15153	L.BLUE	LARGE - Silicon	15148	BLACK	LARGE - TPE

Spares for V-900 Reusable Half Face Mask

Head Harness Item # 75186	Inhalation Valve Item # 75187	Exhalation Valve Item # 75188	Filter Holder Item # 75189	Spare headband Item # 75186
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APPLICATION EXAMPLES

Battery
Chemical
Cold storage
Engineering
Foundries
Mining
Automobile

Lead handling, acid handling
Laboratory, Coating, Bonding, Handling
Warehouses
Welding, Powder coating, Painting
Foundry areas
Drilling
Painting, Powder coating

Petrochemicals
Agrochemical
Paints
Pharmaceuticals
Ships
Sewage

Solvent handling, Maintenance department
Pesticides spraying
Paint spray, Mixing, Resins
Bulk drugs, Material handling
Tank cleaning
Drains

V-7900

Dual filters For HFM & FFM

VENUS dual gas filters used in combination with the V-900 Half Face Mask & V-999 Full Face Mask

*CE pending.



Twist N Click
 • One twist fit for filter

FILTER	COLOUR CODE	HAZARD TYPE	TEST GASES	MAXIMUM USER LEVELS
VENUS V-7900 A1 E1 RF-Gas Filters Item # 17197 		Organic Vapour (OV) Acid Gases (AG)	Carbon Tetrachloride (CCl ₄) Sulphur Dioxide (SO ₂)	5000 ppm or 20 X OEL (A2) 1000 ppm or 20 X OEL (E1) whichever is lower
VENUS V-7900 ABEK1 RF-Gas Filters Item # 17201 		OV/IO/AG/AM	Carbon Tetrachloride (CCl ₄) Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S) Sulphur Dioxide (SO ₂) Ammonia (NH ₃)	1000 ppm or 20 X OEL whichever is lower
VENUS V-7900 ABEK1 P3 Combined Filters Item # 17205 		OV/IO/AG/AM + Particulate filter	Carbon Tetrachloride (CCl ₄) Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S) Sulphur Dioxide (SO ₂) Ammonia (NH ₃)	1000 ppm or 50 X OEL whichever is lower
VENUS V-7900 FHP P3 RF-Particulate Hepa Filters Item # 17202 		Particulate filter	Non highly volatile liquid / solid particles	50 X OEL
VENUS V-7900 FPC P3 RF-Particulate Pancake Filters Item # 17203 		Particulate filter	Non highly volatile liquid / solid particles	50 X OEL
VENUS V-7900 FPC P3OV RF-Nuisance odour & Particulate Pancake Filters Item # 17199 		Particulate Filter with nuisance odour level gas filter	Non highly volatile liquid / solid particles	50 X OEL
VENUS V-7900 FPD P2 RF-Prefilter Pad Item # 17206 		Particulate Filter	Non highly volatile liquid / solid particles	12 X OEL
VENUS V-7900 AFPC / AFHP Adaptor for Hepa Filters Item # 17200 				
VENUS V-7900 RFPD Retainer for Pad Filters Item # 17207 				
VENUS V-7900 AFPD (For P2) Adaptor for Pad Filters Item # 17232 				
VENUS V-900+V-7900 A1 E1 P2 COMBO HFM + RF Gas & Particulate filters Item # 15187 		Organic Vapour (OV) Acid Gases (AG)	Carbon Tetrachloride (CCl ₄) Sulphur Dioxide (SO ₂)	5000 ppm or 20 X OEL (A2) 1000 ppm or 20 X OEL (E1) whichever is lower
VENUS V-900+V-7900 ABEK1 P2 COMBO HFM + RF Gas & Particulate filters Item # 15188 		OV/IO/AG/AM	Carbon Tetrachloride (CCl ₄) Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S) Sulphur Dioxide (SO ₂) Ammonia (NH ₃)	1000 ppm or 20 X OEL whichever is lower

V-800

Reusable Half Face Mask

Product available with below approval

CE 0121
 EN 140:1998
 Half Face Mask



FEATURES AND BENEFITS



Light weight body

- Made from soft thermoplastic elastomer, skin friendly
- Low maintenance
- Minimum hindrance in working



Exhalation vent valve

- Allows efficient escape of CO₂ and exhaled air for wearer comfort



Latex-free elastic

- Braided textile elastic is skin friendly and lasts longer without deforming in high temperature

Size options



4 points adjustable elastic band

- Distributes weight evenly
- Provides head support and good fit



Threaded cartridge

- Easy to fit and replace



Compatibility

- Compatible with most other PPEs



VENUS V-800 HFM - TPE

CE

Compatible with Venus dual V-7800 Filters

Item #	Colour	Size
15076	BLUE	SMALL
15025	GREY	MEDIUM
15132	BLACK	LARGE



Sweat Port



Neck Strap



TPE Material

APPLICATION EXAMPLES

Battery
 Chemical
 Cold storage
 Engineering
 Foundries
 Mining
 Automobile

Lead handling, acid handling
 Laboratory, Coating, Bonding, Handling
 Warehouses
 Welding, Powder coating, Painting
 Foundry areas
 Drilling
 Painting, Powder coating

Petrochemicals
 Agrochemical
 Paints
 Pharmaceuticals
 Ships
 Sewage

Solvent handling, Maintenance department
 Pesticides spraying
 Paint spray, Mixing, Resins
 Bulk drugs, Material handling
 Tank cleaning
 Drains

V-7800

Dual filters For HFM & FFM

VENUS dual gas filters used in connection with the VENUS V-800 half mask & VENUS V-600 Full Face Mask





Threaded cartridge
 • Easy to fit and replace

FILTER	COLOUR CODE	HAZARD TYPE	TEST GASES	MAXIMUM USER LEVELS
VENUS V-7800 A1 A1 Filter+ Pre-filters P2 R Item # 17087 		Organic Vapour(OV) + Particulate filter	Cyclohexane (C ₆ H ₁₂)	1000 ppm or 10 X OEL whichever is lower
VENUS V-7800 A1 E1 RF - Gas Filters Item # 17231 		Organic Vapour (OV) Acid Gases (AG)	Cyclohexane (C ₆ H ₁₂) Sulphur Dioxide (SO ₂)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 B1 RF - Gas Filters Item # 17091 		Inorganic Gases (IO)	Chlorine (Cl ₂), Hydrogen Sulphide (H ₂ S), Hydrogen Cyanide (HCN)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 E1 RF - Gas Filters Item # 17088 		Acid Gases (AG)	Sulphur Dioxide (SO ₂)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 K1 RF - Gas Filters Item # 17089 		Ammonia (AM) & derivatives	Ammonia (NH ₃)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 ABEK1 Filters + Pre-filters P2 R Item # 17090 		OV/IO/AG/AM + Particulate filter	Cyclohexane (C ₆ H ₁₂), Hydrogen Sulphide (H ₂ S), Chlorine (Cl ₂), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO ₂), Ammonia (NH ₃)	1000 ppm or 10 X OEL whichever is lower
VENUS V-7800 P3 R RF - HEPA Filters Item # 17026 		Particle Filter	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 P3 R RF - PANCAKE Filters Item # 17129 		Particle Filter	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 P3 R OV RF - Nuisance odour & Particulate Filters Item # 17178 		Particle Filter with nuisance VOC / odour	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 P2R RF - Pre-Filters Item # 17065 		Particle Filter	Solid particles	—
VENUS V-7800 Retailer for pad filters Item # 13086				
VENUS V-7800 A1 P3 R RF - Gas Filters+Particulate Filters Item # 17062 		Combined Filter OV+ Particulate Filter P3	Cyclohexane (C ₆ H ₁₂) with Hepa particle filter	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 ABEK1 P3 R RF - Gas Filters+Particulate Filters Item # 17059 		Combined Multigas Filter (OV/IO/AG/AM) + Particulate Filter P3	Cyclohexane (C ₆ H ₁₂), Hydrogen Sulphide (H ₂ S), Chlorine (Cl ₂), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO ₂), Ammonia (NH ₃)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 ABEK1 Hg P3 R RF - Gas Filters+Particulate Filters Item # 17229 		OV/IO/AG/AM/Hg + Particulate Filter P3	Cyclohexane (C ₆ H ₁₂), Hydrogen Sulphide (H ₂ S), Chlorine (Cl ₂), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO ₂), Ammonia (NH ₃), Mercury (Hg)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 A2 P3 R RF - Gas Filters+Particulate Filters Item # 17230 		Combined Filter OV+ Particulate Filter P3	Cyclohexane (C ₆ H ₁₂) with Hepa particle filter	5000 ppm or 30 X OEL whichever is lower
VENUS V-800 +V-7800 ABEK1+P2R Combo HFM+RF Gas & Particulate Filters Item # 15054 		Combined Multigas Filter OV/IO/AG/AM + P2 Particulate Filter	Cyclohexane (C ₆ H ₁₂), Hydrogen Sulphide (H ₂ S), Chlorine (Cl ₂), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO ₂), Ammonia (NH ₃)	1000 ppm or 10 X OEL whichever is lower
VENUS V-800+V-7800 A1 Filter + P2 R HFM+RF Gas & Particulate Filters Retail blister pack Item # 15047 		Combined Filter OV + P2 Particulate Filter	Cyclohexane (C ₆ H ₁₂)	1000 ppm or 10 X OEL whichever is lower
VENUS V-800+V-7800 ABEK1 Filter + P2 R HFM+RF Gas & Particulate Filters Retail blister pack Item # 15133 		Combined Multigas Filter OV/IO/AG/AM + P2 Particulate Filter	Cyclohexane (C ₆ H ₁₂), Hydrogen Sulphide (H ₂ S), Chlorine (Cl ₂), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO ₂), Ammonia (NH ₃)	1000 ppm or 10 X OEL whichever is lower

V-500

Reusable Half Face Mask

Product available with below approval



FEATURES AND BENEFITS



- Light weight body**
- ▲ Made from soft thermoplastic elastomer, skin friendly
 - ▲ Low maintenance
 - ▲ Minimum hindrance in working



- Exhalation vent valve**
- ▲ Allows efficient escape of CO₂ and exhaled air for wearer comfort



- Latex-free elastic**
- ▲ Braided textile elastic is skin friendly
 - ▲ Lasts longer without deforming



- Single filter**
- ▲ Low profile & provides more peripheral view
 - ▲ Does not hinder while working and makes the use more convenient



Size options



Sweat Port



Neck Strap



TPE Material



Adjustable Strap



4 point strap tightening with head cradle

- ▲ Front pull strap tightening gives the required ergonomic fit



Adjustable elastic band

- ▲ Distributes weight evenly
- ▲ Provides head support and good fit



Threaded cartridge

- ▲ Easy to fit and replace

VENUS V-500 HFM - TPE



Compatible with Venus single V-7500 Filters

Item #	Colour	Size
15161	BLUE	SMALL
15024	GREY	MEDIUM
15162	BLACK	LARGE

APPLICATION EXAMPLES

Battery
 Chemical
 Cold storage
 Engineering
 Foundries
 Mining
 Automobile

Lead handling, acid handling
 Laboratory, Coating, Bonding, Handling
 Warehouses
 Welding, Powder coating, Painting
 Foundry areas
 Drilling
 Painting, Powder coating

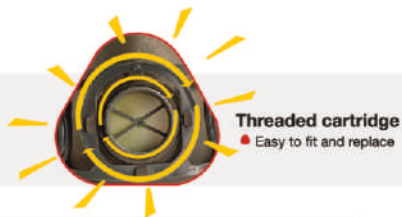
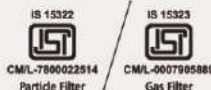
Petrochemicals
 Agrochemical
 Paints
 Pharmaceuticals
 Ships
 Sewage

Solvent handling, Maintenance department
 Pesticides spraying
 Paint spray, Mixing, Resins
 Bulk drugs, Material handling
 Tank cleaning
 Drains

V-7500

Single filters For HFM

VENUS single gas filters used in connection with the VENUS V-500 half masks



FILTER	COLOUR CODE	HAZARD TYPE	TEST GASES	MAXIMUM USER LEVELS
VENUS V-7500 A1 P1 S RF - Gas Filter & Particle filter Item # 010727801 BROWN		Organic Vapour (OV) & Particles	Carbon Tetrachloride (CCl ₄) + Sulphur Dioxide (SO ₂)	1000 ppm or 20 X OEL whichever is lower, if pre filter is used in combination 1000 ppm or 4 X OEL
VENUS V-7500 B1 RF - Gas Filter Item # 17028 GREY		Inorganic Gases(IO)	Chlorine (Cl ₂), Hydrogen Sulphide (H ₂ S)	1000 ppm or 20 X OEL whichever is lower
VENUS V-7500 K1 RF - Gas Filter Item # 17022 GREEN		Ammonia(AM) & derivatives	Ammonia (NH ₃)	1000 ppm or 20 X OEL whichever is lower
VENUS V-7500 ABEK1 RF - Gas Filter Item # 17027 MULTICOLOUR		OV/IO/AG/AM	Carbon Tetrachloride (CCl ₄), Chlorine (Cl ₂), Hydrogen Sulphide (H ₂ S), Sulphur Dioxide (SO ₂), Ammonia (NH ₃)	1000 ppm or 20 X OEL whichever is lower
VENUS V-7500 P1 S RF - Particulate Filter Item # 13082 WHITE RETAINER Item # 13085 GREY		Particle Filter	Solid particles	4 X OEL
VENUS V-500 + V-7500 A1E1 P1 S COMBO RF - Gas Filter & Particle Filter Item # 010528701 BROWN		Organic Vapour (OV) Acid Gases(AG) & Particles	Carbon Tetrachloride (CCl ₄) + Sulphur Dioxide (SO ₂)	1000 ppm or 20 X OEL whichever is lower, if pre filter is used in combination 1000 ppm or 4 X OEL

V-400

Reusable Half Face Mask with Particulate & OV Filter

Product available with below approval

 IS 14746 CM/L-0003748172 Half Face Mask	 IS 15322 CM/L-7800022514 Particle Filter	 IS 15323 CM/L-0007905889 Gas Filter
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FEATURES AND BENEFITS



Light weight body

- Made from soft thermoplastic elastomer, skin friendly
- Low maintenance
- Minimum hindrance in working



Exhalation vent valve

- Allows efficient escape of CO₂ & hot exhaled air



Latex-free elastic

- Braided textile elastic is skin friendly
- Lasts longer without deforming



Single filter

- Low profile & provides more peripheral view
- Does not hinder while working and makes the use more convenient



VENUS V-400+V7400 P2

Combo HFM + RF
 Half mask with Particulate filter
 Solid particles
 1000 ppm or 12 X OEL whichever is lower
 Item # 15058



VENUS V-400+V7400 A1 P1

Combo HFM + RF
 Half mask with Organic & Particulate filter
 Carbon Tetrachloride (CCl₄)
 1000 ppm or 4 X OEL whichever is lower
 Item # 15059

Size options



Swivel Port



Neck Strap



TPE Material



Adjustable Strap



4 point strap tightening with head cradle

- Front pull strap tightening gives the required ergonomic fit



Adjustable head harness

- Distributes weight evenly
- Provides head support and good fit



Threaded cartridge

- Tape easy to fit and replace



VENUS V-7400 A1 RF - Gas Filter

Organic Filter For V-400 A1 P1
 Carbon Tetrachloride (CCl₄)
 Item # 17038



1000 ppm or 20 X OEL whichever is lower



VENUS V-7400 P2

RF - Particulate Filter
 Solid particles & Liquid
 Item # 17039



12 X OEL



VENUS V-7400 P1

RF - Pre Filter
 Solid particles
 Item # 17040



4 X OEL

APPLICATION EXAMPLES

Battery
 Chemical
 Cold storage
 Engineering
 Foundries
 Mining
 Automobile

Lead handling, acid handling
 Laboratory, Coating, Bonding, Handling
 Warehouses
 Welding, Powder coating, Painting
 Foundry areas
 Drilling
 Painting, Powder coating

Petrochemicals
 Agrochemical
 Paints
 Pharmaceuticals
 Ships
 Sewage

Solvent handling, Maintenance department
 Pesticides spraying
 Paint spray, Mixing, Resins
 Bulk drugs, Material handling
 Tank cleaning
 Drains

V-999

Reusable Full Face Mask - Silicone / TPE

Product available with below approval

IS 14168



CML-0003715864
Full Face Mask



FEATURES AND BENEFITS



Twist N Click

- Fits with V-7900 dual filters
- Ergonomic design



Zero power toric visor for wide vision

- PC lens impact resistant for face protection
- High clarity, durability and double anti-fog



Silicone exhalation valve

- Efficient ventilation system with easy maintenance



Inner face piece of silicone

- Prevents fogging on visor
- Skin friendly



Speech Enhancer Holder

- For easy and audible communication



Light weight body

- Made from soft thermoplastic elastomer, skin friendly
- Low maintenance
- Minimum hindrance in working



4 Strap head harness

- Gives head support and even distribution of weight
- Good skin comfort in tough conditions
- Provides leakproof fit



Adjustable penta belt

- Gives head support and even distribution of weight
- Good skin comfort in tough conditions
- Provides leakproof fit



Full face respirator facepiece

- Made of silicone / TPE, with dual filters or replaceable cartridges.
- Light in weight and comfortable to use

Filters



Spare Parts

- 73477 -Mask Body
- 73478 -Harness with adjustable clips
- 73479 -Holder assembly
- 73480 -Bracket assembly
- 73481 -Inner Mask with Valve
- 73482 -GHC visor with gasket
- 73483 -AF visor with gasket
- 73484 -Transparent Protection film



VENUS V-999-MS

Full Face Mask
Compatible with Venus
V-7900 dual Filters



Item #	Colour	Size & material
13402	GREY	MEDIUM - SILICON
15276	GREY	MEDIUM - TPE
15277	GREY	MEDIUM - TPE ANTIFOG

APPLICATION EXAMPLES

Battery
Chemical
Cold storage
Engineering
Foundries
Mining
Automobile

Lead handling, acid handling
Laboratory, Coating, Bonding, Handling
Warehouses
Welding, Powder coating, Painting
Foundry areas
Drilling
Painting, Powder coating

Petrochemicals
Agrochemical
Paints
Pharmaceuticals
Ships
Sewage

Solvent handling, Maintenance department
Pesticides spraying
Paint spray, Mixing, Resins
Bulk drugs, Material handling
Tank cleaning
Drains

V-600

Reusable Full Face Mask - TPE / Bromobutyl / Silicon

Product available with below approval



FEATURES AND BENEFITS



Zero power hard coated visor

- PC lens impact resistant for face protection
- High clarity, durability and double anti-fog



Silicone exhalation valve

- Efficient ventilation system with easy maintenance

Inner face piece of silicone

- Prevents fogging on visor
- Skin friendly



Option to use twin filters

- Special Venus threads for superior ergonomic fit



Standard Thread

- RD40 Thread for connection to any standard thread, gas filter as per
- IS 14138 (Part1):1994



Neck straps

- Adjustable for better handling



6 Strap head harness

- Facilitates even distribution of weight and gives head support
- Good skin comfort in tough conditions
- Provides leakproof fit

Option of TPE & Textile harness



Compatible with Venus

- RF-V-7700 / RF- V-7800 Filters for class 2 & class 1



Speech diaphragm

- For easy and audible communication



VENUS V-667-MN

Compatible with Venus V-7700 single gas filter or Breathing tube for SA / PAPR

Item #	Colour	Size & Material
15012	BLACK	MEDIUM-Bromobutyl with Pentabelt
13076	BLACK	Spare Neck Belt



VENUS V-667-MT

Compatible with Venus V-7700 single Gas filter or Breathing tube for SA / PAPR

Item #	Colour	Size & Material
15013	GREY	MEDIUM- TPE with Textile head band
15159	GREY	MEDIUM - TPE with Pentabelt
15278	GREY	MEDIUM- Silicon with textile head band
15279	GREY	MEDIUM- Silicon, AF visor with textile head band

Spare Parts

73020	GREY	Spare Textile Pentabelt
73021	GREY	Spare TPE Pentabelt



VENUS V-668-MT

Compatible with Venus V-7800 dual Gas filter

Item #	Colour	Size
15014	GREY	MEDIUM-TPE with textile head band
15158	GREY	MEDIUM-TPE with Pentabelt
15280	GREY	MEDIUM- Silicon with textile head band
15281	GREY	MEDIUM- Silicon, AF visor with textile head band

V-7700

Class 2 Gas Filter & Combined Filters with standard connection

Product available with below approval

VENUS Gas filters in standard connection suitable for VENUS Full Face Masks and PAPP'R's.


Class 2 medium capacity
 ● Single gas filter, standard 40 mm DIN screw threads

FILTER	COLOUR CODE	HAZARD TYPE	TEST GASES	MAXIMUM USER LEVELS
VENUS V-7700 A2 Filter Item # 17014 BROWN		Organic Vapour (OV)	Carbon Tetrachloride (CCl ₄)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 B2 Filter Item # 17013 GREY		Inorganic Gas (IG)	Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 E2 Filter Item # 17011 YELLOW		Acid Gas (AC)	Sulphur Dioxide (SO ₂)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 K2 Filter Item # 17012 GREEN		Ammonia (AM) & derivatives	Ammonia (NH ₃)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 ABEK2 Filter Item # 17037 MULTICOLOUR		Multigas (OV/IG/AC/AM)	Carbon Tetrachloride (CCl ₄) Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S) Sulphur Dioxide (SO ₂) Ammonia (NH ₃)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 A2 P3 Filter Item # 17144 BROWN WHITE		Combined Filter OV + Particle Filter P3	Carbon Tetrachloride (CCl ₄) Solid & liquid particles	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 ABEK2 P3 Filter Item # 17143 MULTICOLOUR		Combined Multigas Filter (OV/IG/AC/AM) + Particle Filter P3	Carbon Tetrachloride (CCl ₄) Chlorine (Cl ₂) Hydrogen Sulphide (H ₂ S) Sulphur Dioxide (SO ₂) Ammonia (NH ₃)	5000 ppm or 2000 X OEL whichever is lower
VENUS V-7700 P3 Hepa Filter Item # 17179 WHITE		Particle Filter P3	Non highly volatile Solid & liquid particles	1000 X OEL

RESPIRATORY PROTECTION PRODUCT STYLES



Self Contained Breathing Apparatus (SCBA)



TYPE-2 VENUS-260-7DPX
Digital Gauge, PET Cylinder



TYPE-2 VENUS-215-7ACX
Analogue Gauge, CC Cylinder



TYPE-2 VENUS-215-6AS
Analogue Gauge, STEEL Cylinder



TYPE-1 VENUS-108-6AS
Analogue Gauge, STEEL Cylinder



TYPE-1 VENUS-108-6AC
Analogue Gauge, CC Cylinder

Powered Air Purifying Respirator (PAPR)



VENUS CleanAIR



Grade-D Air Filtration Systems

Supplied Air (SA)



**Supplied Air Respirator
Unit (SA)**



**Hoods for SA & PAPR
(Powered Air Purifying Respirator)**

Emergency Life Saving Apparatus (ELSA) Escape Set



ELSA-V15

Escape Hood



VENUS CleanAIR



Grade-D Air Filtration Systems

Supplied Air Respirator Unit (SA)

IS 10245 (Part 3)



CM/L-7800010911

Supplied air line systems with wide selection of headpiece for high protection

As the name suggests, the Supplied Air Respirator Unit, supplies clean air to the wearer. The air is filtered after being supplied from a compressor. Hoods, helmets, full face pieces, half face pieces and loose-fitting face pieces can be worn to which this clean air can be supplied. The Supplied Air Respirator Unit increases comfort, productivity and protection while offering many advantages over other respiratory protective devices.

Air Purification Panel

Air Purification Panel is connected by the air hose to the rest of the apparatus.

Air Hose

Air Hose connects the Air purification Panel to the Air control device. Careful selection of the hose material is required as it could be vulnerable to the surrounding atmospheric contaminants.

Air Control Device

The Air Control Device ensures supply of constant amount of air into the hood. The unit allows air supply adjustment by a swivel control knob. The control knob can be locked into any position so that the set airflow will not vary.

SA-FRC 100

Filter Regulator Conditioner
Regulator with pre-filter up to 5 micron Borosilicate fine filter up to 0.03 micron + Activated carbon odour filter with pressure gauge, manual drain and metal guard (For 3 users)
Pressure : 10 bar

Item # 13431
13446

SA-SH 10 Spiral Hose 10 Meter Length

Item # 13052

SA-FCV 100 Flow Control Valve - Low pressure Connector CA40M

Item # 13156

CUSTOMER END

Oil free compressed air source + Safety pressure release valve



SA-PFR 100
Air pre-filter-regulator Metal bowl coalescing type for removal of liquid water
Inlet / Outlet Ø 12 mm

Item # 13046



SA-BH 10
Airline PVC Braided Hose
10 Meter Length

Item # 13111



SA-PCV 100
Pressure Control Valve - High Pressure Connector CA40M
EN 14594:05 2A
Item # 13045

Technical specification	CA Pressure Flow control
Air flow - adjustable	min. 160 l/min, max. > 400 l/min
Weight	250 g
Noisiness	max. 61 dB



SA-BH 20
Airline PVC Braided Hose
20 Meter Length

Item # 13169



SA-BH 30
Airline PVC Braided Hose
30 Meter Length

Item # 13166

SA-VAC 100
Vortex Air Cooler Kit
Item # 13324



Spares for SA-FRC 100



Borosilicate Fine Filter
Item # 73429



Activated carbon odour filter
Item # 73430

APPLICATION EXAMPLES

Engineering

Welding, Sand Blasting, Powder coating, Buffing, Painting, Cutting, Drilling

Mining

Petrochemicals
Smelting & foundry
Pesticides

Unventilated areas
Heat exposure & fine airborne particles
Blending, Handling, Rod mill, Powder packing

Paints

Pharmaceuticals
Ships
Waste treatment

Paint spray, Mixing
Bulk drugs, Material handling
Tank cleaning
Sewage handling,
Cleaning drains

Hoods for SA & PAPR



Universal Hood CA2P - Painting
Construction of material- Tyvek, CHC Visor
Item # 13178
Protection film for CA2 Hood (optional)
Item # 13059



Universal Hood CA2
Construction of material- Tyvek
Item # 13069
Protection film for CA2 Hood (optional)
Item # 13059



CA2 Hood - Tychem - w
Item # 13445



Universal Hood CA2R - Reusable
Construction of material- PVC
EN 12941:1998
EN 14594:2005
Item # 13019



Safety Helmet CA4
for Indl-Engg.
Item # 13040



Full Face Mask FFM-V777
Item # 15185



Full Face Mask FFM-V667
Item # 15013




PVC Breathing Hose with Connector SA-BT100 with CA40F & CA40M ITEM # 13160

Breathing Tube
This tube delivers air to the face piece. Careful selection of material of breathing tube would be important since it could be more vulnerable to the surrounding atmospheric contaminants.

- Complete Airline Set Consist :**
- Item # 13408
 - Low Pressure Conditioner
Item # 13431 
 - Spiral Hose
Item # 13052 
 - Flow Control Valve
Item # 13156 
 - CA40F & CA40M
Item # 13160 
 - Universal Hood CA 2
Item # 13069 

GRADE-D Air Filtration Systems

Advanced supplied air systems with built in CO monitor with portable design

Product available with below approval

IS 10249 (Part 3)



CANL-7600010911



Item # 13405

Breather Box

High Performance Portable Grade-D Air Filtration System are designed to provide breathing air for a specific number of workers.

- The system filters in-coming air from a compressor to provide respirator users with Grade-D quality air and monitors for CO and/or Oxygen.
- The first stage element, filters suspended fine particles and particulate and has an auto drain.
- The second stage coalescing filter eliminates atomized oil mist, ultra-fine particulates and has an auto drain.
- The third stage filter removes organic vapors and odors & has a manual drain.
- Filter change indicators are standard on all three stages of filtration.
- Filtration efficiency is 99.99% @ 0.01 micron.
- All systems are designed to be used in the upright and closed position to prevent internal contamination.
- The standard Carbon Monoxide (CO) airline monitor operates on 9-volt batteries or 220 VAC for continuous air monitoring.
- An external audible alarm and light signals high CO content.
- Point-of-Attachment (POA) boxes can extend respirator usage beyond 300 feet.
- Includes safety relief valve, visual air flow meter to monitor, manifold drain valve, remote alarm jack, 0-160 psi pressure gauge.
- Permanent Mountable model all components are mounted on powder coated steel panel.
- Capacity max 50CFM-4 coupling, inlet pressure 150 psi.

APPLICATION EXAMPLES

Engineering

Mining
Petrochemicals

Welding, Sand Blasting, Powder coating, Buffing, Painting, Cutting
Drilling
Unventilated areas

Paints
Pharmaceuticals
Ships
Waste treatment

Paint spray, Mixing
Bulk drugs, Material handling
Tank cleaning
Sewage handling,
Cleaning drains

VENUS PAPP

A time-tested powered respiratory system. An easily replaceable filter.

Product available with below approval



EN 12941:1998 +A2 : 2008



FEATURES AND BENEFITS

- **Eye/face/respiratory protection** : High quality welding helmet combined with powered air purifying respirator system, protecting welder from arc radiation, spatter, dust, pollutants, fine particles as well as other contaminants
- **Auto-alarm system** : Flashing indicator, beeping sound together with vibrating blower to ensure safety.
- **Intelligent air supply** : Respirator will self-adjust the flow rate according to the blockage of the filter automatically.
- **Real-time display indicator** : Filter status/airflow rate/battery capacity indicator, real-time monitoring and displaying



VENUS FreFlow V1 Intelligent Air Supply

- Auto-alarm System
- Real-time Display Indicator
- Filter Efficiency >99.97%

Item # 13334



VENUS FreFlow V3 Intelligent Air Supply

- Auto-alarm System
- Real-time Display Indicator
- Filter Efficiency >99.97%

Item # 13333

Spares for PAPP



Battery
Item # 73432



Particle Filter
Item # 73431



Hose Pipe
Item # 73434



Charger
Item # 73433

APPLICATION EXAMPLES

Industrial
Dusty industrial environments
Automotive and shipbuilding industry
Cement
Food industry

Grinding, Surface finishing operations etc.
Material handling
Painting & welding
Bagging
Processing

VENUS CleanAIR Basic EVO & Basic PAPP

A time-tested powered respiratory system.
An easily replaceable filter.

CE 1024

European Approval

FEATURES AND BENEFITS

Venus Basic EVO

- Designed specially for particle filtration
Use for dust, non-toxic and toxic fumes, solid and liquid aerosols, bacteria and viruses
- Lightweight and compact
- Easy click-lock system of attaching the filter cover
- Simple one-button operation
- Newly designed LED control panel with well-arranged pictogram
- Audiovisual alarm
Indication of filter clogging and battery charge
- Electronic system of constant airflow with adjustable airflow in five levels
- Compatible with whole range of Venus headpieces
Protection factor depends on head top used.

PRODUCT	Item #
Complete sets	
CA Basic EVO including comfort belt, multiplug (EUR, UK, US, AUS) battery charger, Li-Ion battery, particle filter and flow indicator :	781 00 00PA
Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7" :	771 00 60
Comfort padded belt Standard :	771 00 93
Leather comfort belt :	772 00 93
Battery Li-Ion 7,2 V / 4,4 Ah :	781 00 17
Battery charger Li-Ion :	771 00 30
Particle filter P R SL (set of 2 pcs) :	780 00 10/2
Pre-filter (set of 10 pcs) :	780 00 15
Odour filter (set of 10 pcs) :	780 00 20
CA Basic EVO filter cover :	781 00 30



VENUS CleanAIR EVO Universal

- Set includes Battery, Charger, PVC Breathing Hose, Basic filters, Carrying bag.
- Compatible with Venus Hoods

Item # 13331

Technical specification	VENUS CleanAIR EVO
Air flow :	adjustable 170–240 lpm
Operation time :	Up to 10 hours
Charging time :	4–5 hours
Weight :	880 g (including battery)
Decibel :	Max. 70 dB
Dimensions :	191 mm / 173 mm / 104 mm
Battery :	Li-Ion 7,2 V / 4,4 Ah
Certification :	EN 12941 TH3

Spares for PAPP EVO & Basic



Battery
Item # 73226 (EVO)
Item # 73185 (Basic)



Filter
Item # 73192



Pre filters
Item # 73193



Flow Indicator
Item # 73184



Charger
Item # 73330 (EVO)
Item # 73210 (Basic)

APPLICATION EXAMPLES

Industrial	Grinding, Surface finishing operations etc.
Dusty industrial environments	Material handling
Automotive and shipbuilding industry	Painting & welding
Cement	Bagging
Food industry	Processing

VENUS CleanAIR Advanced 2F PAPP

Advanced model with IP 65 rating,
accepts standard Din thread filters



European Approval

FEATURES AND BENEFITS

Venus Chemical 2F

- Designed for particle &/or chemical filtration
Use for dust, non-toxic and toxic fumes, solid and liquid aerosols, bacteria, viruses & gases
- Compact design and low weight
- High mechanical, chemical & UV resistance, Resistance to intrusion of liquids and solid particles – IP65
- De-contaminable by a shower, allows immersion disinfection with sodium hypochloride.
- Unique automatic closing system support filter change while being used
- Advanced electronic warning system for warning the wearer
- Full colour TFT display clearly shows all the relevant information needed
- Three working modes HOOD / MASK / ASBEST
- Airflow 120–235 lpm
- Compatible with whole range of Venus headpieces
Protection factor depends on head top used
- Filters with DIN 40 thread fit
- Available with ATEX Approval

PRODUCT

- | | |
|---|---------------|
| • Spare parts, accessories | Item # |
| • Light flexi hose QuickLOCK™ CA40x1/7": | 771 00 60 |
| • Rubber hose QuickLOCK™ CA40 x 1/7": | 771 00 86 |
| • Comfort padded belt 2F : | 771 00 92 |
| • Decontaminable belt : | 751 00 41 |
| • Decontaminable harness : | 751 00 42 |
| • Comfort padded harness | 752 00 44.1 |
| • Battery Li-Ion Standard 14,4 V / 2,6 Ah | 751 00 10 |
| • Battery Li-Ion Heavy Duty 14,4 V / 5,2 Ah | 751 00 20 |
| • Battery charger | 751 00 30 |
| • Filters | |
| • Particle filter P3 | 750 00 48 |
| • Combined filter A1P3 | 750 03 57 |
| • Combined filter A1B1E1P3 | 750 03 64 |



Venus Chemical 2F

Complete sets

- CleanAIR® Chemical 2F including accessories (de-contaminable belt, charger, battery, flow indicator, Carrying bag) Item # 13214
- CleanAIR® Chemical 2F including accessories (comfort belt, charger, battery, flow indicator, Carrying bag) Item # 13400
- CleanAIR® Chemical 2F ATEX approved including accessories (comfort belt, charger, battery, flow indicator, Carrying bag) With #13362

Technical specification	VENUS CleanAIR 2F
Air flow :	adjustable 120–235 lpm
Operation time :	Up to 10 hours with Standard battery Up to 16 hours with Heavy Duty battery
Charging time :	3 hours
Weight :	960 g (including Standard battery)
Decibel :	Max. 62 dB
Dimensions :	240mm / 110 mm / 120 mm
Battery Standard :	Li-Ion 14,4 V / 2,6 Ah
Battery Heavy Duty :	Li-Ion 14,4 V / 5,2 Ah
Certification :	EN 12941 Th3, EN 12942 TM3

APPLICATION EXAMPLES

Industrial	Welding, grinding, surface finishing operations
Dusty industrial environments	Material handling
Automotive and shipbuilding industry	Painting
Cement	Bagging
Food industry	Processing
Pharma	Material handling

SCBA Self Contained Breathing Apparatus

Emergency rescue / respond device
Advanced Backplate, Digital Pressure Gauge & Cylinder
IS 10245 (Part 2)



CMA-0002809666

Venus SCBA 260-7DPX Item # 13432

(Type 2, Adjustable back plate V60 design, V-777 FFM, Digital gauge, PET Cylinder with case)

Demand valve & medium pressure hose

- Connection to breathing apparatus is capable of 360 degree rotation
- Easy access button to increase the flow air
- Compact and robust design with excellent pneumatic performance.
- Ensure large flow and safe air release by using front manual access button
- Flame retardant casing made using high strength engineered plastics

Height Adjustable Backplate design which is robust & easy to use

- Polyamide material good for Low / high temperature, chemical resistance, Flame / radiant heat resistance
- Ergonomically designed to suit shape of human back
- Height adjustable clip to suit profile of different users
- High mobility 3 axis rotating fixture which is designed to disperse the weight of the cylinder efficiently
- Pressure reducer valve is fixed on the backplate by wire dowels.

Intelligent Digital display gauge for essential real time monitoring with high pressure hose

- Display table shows the pressure in the cylinder in real time
- Screen shows the available time for the remaining gas in cylinder
- Low battery indicator, which warns the user when life remaining is 20%
- Man down alarm which sends a distress signal if the user stops moving for 15 sec in active use.
- Short press the function key, open the screen backlight and short press again, turn off the lights
- Integrated Thermal alarm on the device which alerts the user to exposure to elevated and rapidly rising environmental temperatures.

Y Hose Quick release coupling (ORC) connection

- Provides auxiliary air to two users in life saving situations.

PET Cylinder extra lightweight and easy to use

- Long lasting, EXTRA light weight liner effective back & neck protection
- PET liner is an excellent thermal insulator. Gas inside the cylinder does not heat & users do not breathe warm air.
- PET liner reinforced with Carbon & Kevlar aramid . external epoxy resin layer provides protection against extrinsic factors. Electrical insulation ensures fire fighters safety.
- Pressure reducer valve & cylinder with PESO approval.
- Capacity 6.8 l, 300 bar, Work Life :45 min. Set weight (filled PET cylinder) approx. 9.8 kg, Vitality 20 year / NLL (No limit life)
- ABS carrying case for storage of set

- ### V-777 Face mask for increased safety
- Silicone V-777 provides wide field vision with Kevlar textile head net harness
 - Visor is made of Polycarbonate Hard coat & has Anti fog capability
 - High Impact, Heat & flame resistant.
 - Meets Class 3 requirements of multi flame burner & radiant test.

Nomex Harness for rigid requirements.

- Nomex material with Flame / radiant heat retardant capability.
- Anti-skidding, anti-tearing, reflective & comfortable wearing for long periods.
- Buckles are made of heavy duty TPE prevents heat transition.



Spares for SCBA



Backplate
Item # 13264



PET Cylinder
Item # 13409



V-777 FFM
Item # 13266



CCOE-6.8 Ltr. Cylinder with without Gauge Valve
Item # 13208



ABS carrying case
Item # 73187

APPLICATION EXAMPLES

Fire Services
Respondent / Rescue / Escape
Highly hazardous industry

SCBA Self Contained Breathing Apparatus

Emergency rescue / respond device

Backplate, Pressure Gauge, Full face mask & Cylinder

IS 10295 (Part 2)



CEN-060209666

Venus SCBA 215-7ACX Item # 13433 / 215-6AS Item # 13434

(Type 2, high mobility backplate V15 design, V-777 / V-666 FFM, Analogue gauge, CC Cylinder with case / Steel cylinder)

Venus SCBA 215-7ACX

- Face mask V-777
- V-777 provides wide field vision with Kevlar textile head net harness
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 3 requirements of multi flame burner & radiant test.
- Carbon composite light weight Cylinder 6.8 l, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder with PESO approved
- Set weight (filled CC cylinder) approx. 10.5 kg.
- ABS carrying case comes for storage of set

Height Adjustable Backplate design

which is robust & easy to use

- Polyamide material for good Low / high temperature, chemical resistance, Flame / radiant heat resistance
- Ergonomically designed to suit shape of human back
- Height adjustable clip to suit profile of different users
- High mobility 3 axis rotating fixture which is designed to disperse the weight of the cylinder efficiently
- Pressure reducer valve is fixed on the backplate by wire dowels.

Analogue gauge

- Anti-collision, explosion proof & water-proof design
- Fluorescent display for reading in darkness
- Rubber cover provided dustproof, Water proof.

Y Hose Quick release coupling (QRC) connection

- Provides auxiliary air to two users in life saving situations.

Demand Valve

- Connection to breathing apparatus is capable of 360 degree rotation
- Easy access button to increase the flow air
- Ensure large flow and safe air supply by using manual for air flux button
- Flame retardant casing made using high strength engineered plastics

Y Hose Quick release coupling (QRC) connection

- Provides auxiliary air to two users in life saving situations.

Face mask V-666

- Neoprene Rubber harness tested upto 900° C.
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 2 requirements of multi flame burner test.

Venus SCBA 108-6AC

- Carbon composite light weight Cylinder 6.8 l, 300 bar, Work Life:45 min.
- Pressure reducer valve & cylinder PESO approved
- Set weight (with CC filled cylinder) approx. 10.5 kg.

Venus SCBA 108-6AS

- Steel Cylinder 6.00 l, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder PESO approved
- Set weight (filled steel cylinder) approx. 17 kg.

Demand Valve

- Connection to breathing apparatus is capable of 360 degree rotation
- Easy access button to increase the flow air
- Compact and robust design with excellent pneumatic performance.
- Ensure large flow and safe air supply by using manual for air flux button
- Flame retardant casing made using high strength engineered plastics

Venus SCBA 215-6AS

- Face mask V-666
- Neoprene Rubber harness tested upto 900° C.
- Visor is made of Polycarbonate Hard coat & has Anti fog capability
- Impact resistance, Heat & flame resistant.
- Meets class 2 requirements of multi flame burner test.
- Steel Cylinder 6.2 l, 300 bar, Work Life :45 min.
- Pressure reducer valve & cylinder PESO approved
- Set weight (filled CC cylinder) approx. 17.5 kg.

Nomex Harness for increased rigidity

- Nomex material with Flame / radiant heat retardant capability.
- Anti-skidding, anti-tearing & comfortable to be worn for long periods.
- Reflective fabric sewn on harness for good visibility
- Buckles are made of heavy duty 304 Stainless steel



Venus SCBA 108-6AC & Venus SCBA 108-6AS

Item # 13435

Item # 13436

(Type1, Backplate V08 design, V-666 FFM, Analogue gauge, CC cylinder or Steel Cylinder)

Polyester FR Harness increased durability

- Aramid / CFR waist belt & shoulder straps move independently of each other for mobility & comfort to the user
- Reflective fabric sewn on harness for good visibility
- Buckles are made of heavy duty 304 Stainless steel

Lightweight Back-plate

- Produced from Nylon material ergonomically designed to suit the shape of human back

Analogue gauge

- Anti-collision, explosion proof & water-proof design
- Fluorescent display for reading in darkness
- Rubber cover provided dustproof, Water proof.

Spares for SCBA

- Item # 73254 - V-667 full face Mask
- Item # 73188 - Demand Valve
- Item # 73196 - Cylinder CCOE 6.8 L.
- Item # 73197 - Cylinder Steel 6.0 L.
- Item # 73199 - SCBA Back plate with V-777
- Item # 73203 - SCBA Back plate with V-666

ELSA ESCAPE SET

Emergency Life Saving Apparatus



FEATURES AND BENEFITS



Clear view

- ▲ Wide field of vision due to
- ▲ a specially fabricated visor which has Anti fog



Inner mask

- ▲ Inner mask prevents misting and minimizes carbon dioxide dead space.



Elastomeric neck seal

- ▲ Uniquely designed hood with PVC coated materials provides ozone resistant neck seal.



Quick Release Pin



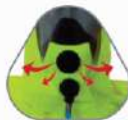
Whistle

- ▲ Integrated whistle warning for depleted air



Carbon Composite Cylinder

- ▲ Light weight cylinder for easy to carrying



Demand valve

- ▲ Turns the air into a suitable pressure level for human body prevents fogging on the visor



Hood
With demand valve



Carbon composite cylinder extra light weight
Cylinder pressure: 3.0 Ltr, 300 bar
Work life: 15 minutes



Anti-Static Carrying Bag

Technical Specification

- Cylinder volume : 3L
- Inflation pressure : 210 bar +/-10 bar
- Duration : =/>15min
- Amount of air released : =/> 600L
- Equipment (including gas) weight : <6.5 kg approx.

ELSA-V15 Item # 13411
Including CC cylinder 3L, Air pipe, protective hood, carry bag, cylinder valve, Silicon half mask

APPLICATION EXAMPLES

- Chemical / First responders
- Law enforcement agencies
- High-rise buildings
- Hospitals
- Hotels
- IT office

ESCAPE HOOD

Smoke hood for emergency escape

CE 0336
EN 403



FEATURES AND BENEFITS



Electrostatic particle filter

- ▲ Highly efficient
- ▲ Low pressure-drop enables easy breathing



Multi-valve breathing device

- ▲ Enables easy communication while mask is worn



Better orientation

- ▲ Wide view
- ▲ Transparent film on visor enables upto 95% light transmission



State-of-art filtration unit

- ▲ Multi layer impregnated activated carbon enable maximum absorption of toxic gases
- ▲ Works as a catalyst for carbon Monoxide Oxidation



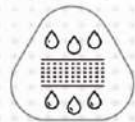
High performance

- ▲ Fire resistant (as per NFPA 701)
- ▲ Flame retardant polychloroprene latex hood resists 200°C temperature
- ▲ Visor resists 150°C temperature



Packaging weight and shelf life

- ▲ Less than 1kg & 5 years until opened



Filter Capacity

- ▲ Particulate matter, Gases (HCl, HCN, CO, Propenol)



Physiological comfort

- ▲ Minimal dead space prevents buildup of heat vapors and CO₂



Effortless wearing

- ▲ Upto 8 times enlargeable elastic and resilient latex hood for easy and effortless wearing process



Universal adult size, complies inward leak test

- ▲ Lowers inventory no need to store multiple sizes
- ▲ Easy to distribute amongst workers as no size-wise bifurcation needed while distribution



DURAM SMOKE HOOD
Item # 13183



ESCAPE HOOD with attached Filter
Item # 13332



Packing

APPLICATION EXAMPLES

Chemical / First responders
Law enforcement agencies
High-rise buildings
Hospitals
Hotels
IT office

FAQs Respiratory Protection

Supplied Air Filtration Systems

Positive Pressure Airline Respirator

A respirator in which the pressure inside the respiratory inlet covering is higher than the ambient air pressure



Positive Pressure Respirator: Constant Flow Type- Air hood is loose fitting face piece which cover the entire head-inlet air pressure must be able 6 cfm (Cubic Feet per Minute for a loose-fitting hood.



Positive Pressure Respirator: Constant Flow Type- Full facepiece maintain a slight positive pressure of air inside the facepiece whether the wearer is inhaling or exhaling. This helps prevent contaminants from seeping around the facepiece, even if there should be small breaks in the face-to-facepiece seal. Inlet air pressure must be able to maintain at least 4 cfm (Cubic Feet per Minute for a tight-fitting face piece



Positive Pressure Respirator: Demand Type deliver air only when the user needs it. Thus, pressure demand devices afford greater breathing efficiency. + As per IS 8347:2008

Elements of a Supplied Air system



Sizing a Type-C/CE Airline Filtration System

Sizing of the filtration system, determining what size of Breather Box or panel to order, is based on the air flow (CFM) and pressure requirements (PSI) of the respirators being worn, and the number of workers. Air Consumption (CFM) and Pressure (PSI) ranges for representative types of respirators are listed below:

Pressure Demand	4 - 15 cfm @ 60 - 120 psi
Constant Flow Half/Full Mask	4 - 15 cfm @ 4 - 30 psi
Constant Flow Hood (Low Pressure)	6 - 15 cfm @ 3 - 15 psi
Constant Flow Hood (High Pressure)	6 - 15 cfm @ 25 - 110 psi
Vortex Cooling Tube (Option)	15 - 25 cfm @ 60 - 110 psi

How to calculate the CFM required for more than one user.

Once the total number of workers is established and the type of respirator selected, multiply the number of workers by the respirator's maximum flow rate required per worker to determine total flow requirements:

Example:

4 workers using 4 hood style respirators 4 x 15 cfm = 60 cfm required 1 bar = 14.5 psi What is Grade-D Air Quality?

Class D or air quality as per IS 9623:2008 Air used to supply respirators shall:

- Contain not less than 17.00 % oxygen and not more than 23.5 percent by volume of oxygen,
- Contain not more than 5 ppm of carbon monoxide,
- Contain not more than 500 ppm of carbon dioxide,
- Contain not more than 0.50 mg/m³ of oil mist, and
- Have no objectionable or nauseous odour

HEARING PROTECTION PRODUCT STYLES



Ear Muffs



VENUS N-555



VENUS N-556



VENUS N-510



VENUS N-530



VENUS N-550

Reusable Earplugs & Earband



VENUS N-401



VENUS N-303



VENUS N-307 / V-Shant

Disposable Earplugs & Dispenser



VENUS N-101



VENUS N-1010

Definitions, Hazards & Selection

Noise Protection Need:

Noise risk assessment is usually a requirement at industrial workplaces / factories. At a workplace, if two people at two meter distance from each other have to raise their voices to be heard, it indicates the need for noise risk assessment. The purpose of a workplace noise risk assessment is to identify persons who may be exposed to higher levels of noise and / or for longer exposure period.

Noise Hazard and their Effects

The effects of noise induced hearing loss are

- Psychological- Can cause stress / interferes with communication & concentration
- Interference with job performance and safety
- Physiological- aural pain or even nausea

Rating Terms

Each rating number is based upon different test standards, test frequencies and calculation methods and any given hearing protector generates different numbers depending on the rating method used. For example, single-use earplug displays the following ratings:

NRR 32

SNR 35 (H=34, M=32, L=31)

SLC₈₀ 25.0 (Class 4)

Noise Reduction Rating (NRR):

It is specified in USA by 40 CFR (Code of Federal Regulations) Part 211, Product Noise Labeling (ANSI S12.6-1997). The current range of NRR available extends from 0 to 33 decibels. The NRR is derived from an involved calculation that begins with attenuation test results from at least ten laboratory subjects across a range of frequencies. The NRR estimates the amount of protection

achievable by 98% of users in a laboratory setting when hearing protectors are properly fitted. The higher the NRR, the greater reduction in noise level.

Single Number Rating (SNR):

It is calculated in accordance with ISO 4869-2(1994). Independent laboratories test earplugs to determine their SNR value which can be used to compare the level of noise attenuation offered by different hearing protectors. To determine acoustic pressure on your ears, SNR value needs to be subtracted from the average noise level measured.

For example:

- The machine noise in a plant measures an average of 99 dB.
- You are wearing the Ear Plug with a SNR of 19.
- Thus the acoustic pressure on your ears is on average 80 dB (99 – 19 = 80 dB).

SOUND LEVEL CONVERSION (SLC80) rating as applied to hearing protection devices (HPD) is a simple number and class rating derived from a test procedure outlined in the Australian / New Zealand Standard, AS/NZS 1270: 2002. It provides a simple number guide to the level of noise attenuation (reduction) that can be expected from a particular HPD. Because humans are different, the level of protection achieved for each person could also be different and so a scientific formula is used to allow for differences. The SLC value includes a correction to ensure that the stated degree of noise reduction is obtained on 80% of occasions, hence the SLC80 rating. The SLC80 rating is the difference between the sound level of the environment in which the HPD is worn and the sound level reaching the wearer's ears. The testing procedure can be separated into two different areas: Mechanical Testing & Audiometric Testing.



Single use (Disposable) Earplugs

This is the most common type of protection. Such earplugs are usually made of a PU (polyurethane) foam. They are compressed or rolled-down prior to insertion following which they slowly re-expand to fill the ear canal. They come with or without a pre-attached cord and are usually one-size-fit-all. (Earplugs of different sizes are also available).

Reusable Earplugs

Multiple-use ear plugs are typically moulded with a semi-rigid stem and pliable flanges, so they don't require rolling prior to insertion. They insert easily and can be quite comfortable for extended periods.

How to Choose Ear Protection Equipment

- Identify the level and type of noise
- Identify the environment
- Choose equipment that fits well

Identify the level and type of noise

Permissible noise exposure scale

85 dB	8 hours
91 dB	2 hours
97 dB	30 minutes
103 dB	7.5 minutes
109 dB	1.875 minutes (< 2 min)
115 dB	.46875 min (= 30 Sec)

Choose equipment that fits well

Ear Muffs

To be used when the noise exposure is intermittent

- Are easier to fit
- Are generally more durable than earplug
- Have replaceable parts

Ear Plugs

- To be used when the noise is continuous
- Are simple to use



- Are less expensive than muffs for short term work
- Are more comfortable in hot or damp work areas

FAQ

Q : How can I tell if a noise situation is too loud?

A : There are two rules : First, if you have to raise your voice to talk to someone who is an arm's length away then the noise is likely to be hazardous. Second, if your ears are ringing or sounds seem dull or flat after leaving a noisy place, then you probably were exposed to hazardous noise.

Q : How often should your hearing be tested?

A : Anyone regularly exposed to hazardous noise should have an annual hearing test. Also, anyone who notices a change in his/her hearing (ringing or buzzing in the ears) should have his or her ears checked. People who have healthy ears and who are not exposed to hazardous noise should get a hearing test every three years.

Q : What is the difference between Disposable and Reusable earplugs?

A : Disposable earplugs and reusable ones are not very different in the level of hearing protection. The major difference however, is in how they stand up to wear and tear. A disposable (single use) PU earplug will degrade after first use. PU is not environmental friendly and end up in landfill.

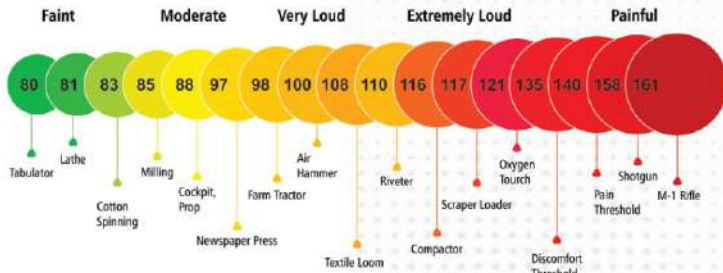
Unlike disposables, most reusable ear plugs are made of TPE material. It's environment friendly product. Other apparent benefits of using a reusable earplug are stated below.

It does not require rolling for insertion so it is a good pick in case of soiled hands. Moreover, it doesn't require the user to wait to let foam recover unlike a disposable one. Plus, the user will be able to easily get multiple wears out of it since reusable earplugs are designed with added durability in mind.

They degrade slower than disposable earplugs since they're typically made with a more resilient design and material to suit washing and hygienic repeat wears.

Identify the environment

Standard Decibel Levels



Definitions, Hazards & Selection

Q: What is the difference between earplugs and earmuffs?

A: Earplugs are simple to use, less expensive than muffs and more comfortable in hot or damp work areas. Ear muffs are easier to fit, generally more durable than plugs and have replaceable parts. In areas where noise levels are very high, muffs and plugs can be worn together to give better protection.

Q: Will the eardrums be poked out with earplugs?

A: That is unlikely for two reasons. First, the average ear canal is about 1 inch long. The typical ear plug is between 1/2 to 3/4 of an inch long. So even if you insert the entire earplug, it would still not touch the eardrum. Secondly, the path from the opening of the ear canal to the eardrum is not straight. In fact, it is quite irregular. This prevents you from poking objects into the eardrum.

Q: If earplug and earmuff are used together, will the NRR be total of both the equipments?

A: Earplugs worn in combination with earmuffs, helmets or communications headsets, typically provide greater protection than either device alone. However, the attenuation of the combination is not equal to the sum of the individual attenuation values.

For example, at 1000 Hz the combination of a 19 dB plug and a 21 dB muff does not yield 40 dB overall, but rather about 31dB. The simplified solution would be to add 10 dB over the highest device viz 21 dB+10 dB=31 dB.

Q: What is the unit measurement of noise?

A: It is calculated in Decibel (dB). For every 5 dB increase, the noise is louder by double.

NRR – Noise Reduction Rating. It is a laboratory-derived numerical estimate of the attenuation that is provided by the protector.

Attenuation - Attenuation refers to the damping or decrease of noise levels as a result of wearing Hearing Protector Devices (HPDs).

Suitable Hearing Protector - The term "suitable hearing

protectors" as used in the provision means protectors that are comfortable to wear and that offer sufficient attenuation to prevent hearing loss.

-How to find out the attenuation As per OSHA 1910.95 app B

For Single Protection

When using a sound level meter set on the C-weighting network:

A. Obtain a representative sample of the C-weighted sound levels in the employee's environment.

B. Subtract the NRR from the C-weighted average sound level to obtain the estimated A-weighted TWA under the ear protector.

Estimated Exposure (dBA) = TWA (dBC) - NRR

Single Protection Example:

1. C-weighted TWA=108 dBC, ear plug NRR =32

2. Estimated Exposure= 108 - 32 = 76 dBA

This hearing protection is considered adequate, as it is below the 85 dBA threshold.

For dual protection (ear muffs and plugs are used simultaneously) use the following:

A. Determine the laboratory-based NRR for the higher rated protector (NRRh).

B. Add 5 dB to the field-adjusted NRR to account for the use of the second hearing protector.

C. Subtract the remainder from the TWA as follows:

Estimated Exposure (dBA) = TWA (dBC) - (NRRh + 5)

Dual Protection Example:

1. TWA = 110 dBC, plug NRR=29, and muff NRR=19 dB

2. Estimated Exposure = 110 - (29 + 5) = 76 dBA

This hearing protection is considered adequate, as it is below the 85 dBA threshold.

Note:

If A weighted TWA is set in the sound level meter then deduct value of 7 from NRR Hearing Protection.

Acoustic Measuring System



EAR MUFFS

Quality mark for assurance of product performance

Product available with below approval



Foam filled cushion
 ▲ Can be used for long duration without discomfort



FEATURES AND BENEFITS



One size fits all

- ▲ No need to stock different sizes
- ▲ Lowers inventory



Better attenuation level

- ▲ Provides adequate protection from noisy environments



Cushioned headband

- ▲ Comfort during long working hours



Wide ear cushions with height adjustment

- ▲ To achieve superior fit



Light weight

- ▲ Easy to use for longer duration without hindrance



Compactable (Only N-555)

- ▲ Can be easily compacted when not in use and store in small space



VENUS N-555

Earmuff
 NRR 23 dB
 SNR 26 dB

Item #	Colour
16082	RED
16083	YELLOW
16084	GREEN
16058	BLACK
16085	BLUE
16086	VIOLET-BLUE



VENUS N-550
Earmuff

NRR 29 dB
 SNR 32 dB

Item #	Colour
16015	BLACK



VENUS N-530
Earmuff

NRR 23 dB
 SNR 26 dB

Item #	Colour
16034	FLUORESCENT GREEN



VENUS N-556

Earmuff (For Helmet)
 NRR 23 dB

SNR 26 dB

Item #	Colour
16068	BLACK



VENUS N-510

Earmuff
 NRR 24 dB

SNR 27 dB

Item #	Colour
16014	RED

APPLICATION EXAMPLES

Airport
 Cement
 Ceramics
 Construction
 Engineering

Aircraft marshaling
 Crushing, Bagging
 Material mixing
 Sanding, Drilling, Cutting, Demolition work
 Sand Blasting, Buffing, Cutting

Mining
 Pharmaceuticals
 Chemical
 Textiles
 Pneumatics appl.

Drilling, Material handling
 Material charging, material handling
 Blending operation, Utility process
 Spinning, Weaving, Blow-room
 Compressor

REUSABLE EARPLUGS & EARBAND

Quality mark for assurance of product performance

Products available with below approval

IS 9167



CM/L-0007892102



Washable

- Easy to wash and re-use without compromising on hygiene



FEATURES AND BENEFITS



Multi flange design

- Enhanced protection against hazardous noise, water and other particles
- Reusable, value addition



Quick to use

- Quick insert
- No rolling and waiting rebound / correct fit



Hygienic wearing possible

- Soiling due to rolling eliminated
- No change in performance after washing



TPE material

- Easily washable hence hygiene, prevents ear infection
- On washing does not swell or loose shape conformity
- Environment friendly



Removable textile cord

- Cord can be detached and reattached as per requirement



Pharma variant with PVC cord

- Easily detectable by metal detector



Smart packaging

- Convenient containers available



VENUS N-307 / V-Shant

Earplug

NRR 27 dB

Item #	Colour	Packing	Cord
16044	YELLOW-BLUE	Bag, Pack of 150	Zebra Textile
16038	YELLOW-BLUE	Container, Pack of 100	Zebra Textile
16042	YELLOW-BLUE	Blistar of 1, Pack of 50	Zebra Textile



VENUS N-401

Earband (For Rifle Shooting)

NRR 27 dB

Item #	Colour	Packing
16046	RED	Bag of 1



VENUS N-303

Earplug

NRR 27 dB

Item #	Colour	Packing	Cord
16035	ORANGE	Bag, pack of 150	Zebra Textile
16036	ORANGE	Container, pack of 100	Zebra Textile
16080	ORANGE	Bag, pack of 150	Blue PVC with Metal Detectable



APPLICATION EXAMPLES

- | | |
|------------------|--------------------------------|
| Agriculture | Tractor, harvesting machinery |
| Airport | Aircraft marshaling |
| Cement | Crushing, Baggging |
| Ceramics | Material mixing |
| Construction | Sanding, Drilling, Cutting |
| Food & Beverages | Material processing & handling |

- Police
Engineering
Mining
Pharmaceuticals
Textiles

- City traffic
Sand Blasting, Buffing, Cutting
Drilling, Material handling
Material handling
Spinning, Weaving

DISPOSABLE EARPLUGS & DISPENSER

Quality mark for assurance of product performance

Products available with below approvals



FEATURES AND BENEFITS



High Attenuation

- ▲ Slow expansion to perfectly fit the ear canal size & form
- ▲ Minimizes noise disturbance immediately



Adequate sound protection

- ▲ With NRR 32, user is well-protected from noisy environments



Tapered (101) / Bell Shape (103 / 105)

- ▲ Suitable for long duration use
- ▲ Provides superior fit



Pharma variant

- ▲ Easily detectable by metal detector with PVC cord (N-105)



One size fits all

- ▲ No need to stock different sizes
- ▲ Lowers inventory



Soft Polyurethane foam

- ▲ Ultimate comfort fit allows easy use for long duration without discomfort
- ▲ Wearer friendly optimum recovery



Textile cord

- ▲ Reduces transmission of sound
- ▲ Skin friendly

VENUS N-1010 (H-1010)
Dispenser fills upto 250 pairs of uncorded Earplugs

Item # 16066



VENUS N-101 (H-101)

Earplug
NRR 32 dB

Item #	Colour	Packing	Cord
16011	ORANGE	Bag, pack of 150	Orange textile corded
16017	ORANGE	Bag, bag of 250	Uncorded
16039	ORANGE	Bag, pack of 150	Blue PVC with Metal Detectable



VENUS N-103 (H-103)

Earplug
NRR 32 dB

Item #	Colour	Packing	Cord
16013	ORANGE	Bag, pack of 150	Orange textile corded
16018	ORANGE	Bag, pack of 250	Uncorded

APPLICATION EXAMPLES

Agriculture	Tractor, harvesting machinery
Airport	Aircraft marshaling
Cement	Crushing, Bagging
Ceramics	Material mixing
Construction	Sanding, Drilling, Cutting
Food & Beverages	Material processing & handling

Police
Engineering
Mining
Pharmaceuticals
Textiles

City traffic
Sand Blasting, Buffing, Cutting
Drilling, Material handling
Material handling
Spinning, Weaving

Eye Protection Product Styles



Safety Goggles



VENUS E-507-CHC-AF



VENUS E-501-CHC



VENUS E-503-CHC

Over Spectacles



VENUS E-603



VENUS E-605



VENUS E-607

Welding Spectacles & Goggles



VENUS E-750



VENUS E-767



VENUS E-753

Protective Spectacles



VENUS E-311



VENUS E-307



VENUS E-101



VENUS E-102



VENUS E-305/306



FAQs on Eye Protection

Definitions, Hazards & Selection

Need:

The risk of workplace eye injuries is reduced if proper preventive measures are followed.

To improve eye safety at work, you must first identify the hazards.

Hazards and their Effects:

Potential eye hazards against which protection is needed in the workplace are:

- **Projectiles** (dust, concrete, metal, wood and other particles)
- **Chemicals** (splashes and fumes)
- **Radiation** (especially visible light ultraviolet radiation, heat or infrared radiation and lasers)
- **Blood borne pathogens** (hepatitis or HIV) from blood and body fluids

Types of eye injuries include

- Scratch or cut
- Puncture
- Embedded object
- Chemical burn
- Welding flash (vision loss caused by bright light)

Sources of optical radiation

- Sunlight
- Radiation from heat
- Ultraviolet rays
- Infrared rays
- Reflected light

Types of materials for lens

Glass | Plastic | Polycarbonate



Optical radiation – Sources



Terms

Hard Coating for preventing scratches

It is applied to the exterior of the lens to minimize the likelihood of accidental scratching. This does not make the lens scratch proof, but helps in tremendously reducing fine hair line scratches.

Anti Fog

Prevent to condensation of moisture.

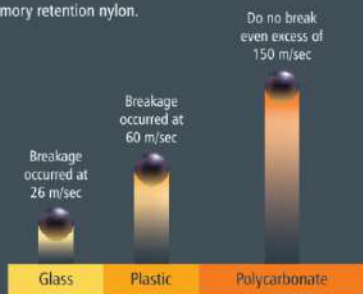


Bridge

It is the part of a frame that connects the two lenses and goes over the nose. The bridge can be either decorative or simple.

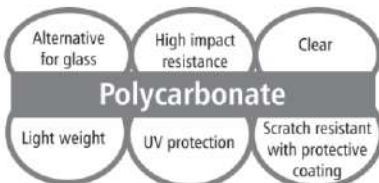
Frame

It is the part that holds the lens. Frame can be made of plastic or memory retention nylon.



Types of materials & Breakage test

Polycarbonate Advantage





User Selection Guide

Appropriate wearing of eye protection relevant for the task can significantly reduce the risk of injury. Always buy eye protection that complies with the applicable National and International Standards.

Safety eyewear includes:



Risk or Use	Safety Spectacles	Safety goggles	Safety Face shield
Gas Welding	●	●	●
Electric welding	●	●	●
Ultraviolet radiation	●	●	●
Laser radiation	●	●	●
Solar radiation for industrial use	●	●	●

General recommendations include:

- **Low impact:** For tasks including chipping, riveting and hammering. Recommended protection includes safety spectacles with/without side shields, eye cup goggles, wide vision goggles, eye shields and face shields. Choose items marked with manufacturer ID and Standards mark.
- **Medium impact:** For tasks including scaling, grinding and machining metals, some woodworking tasks, stone dressing, wire handling and brick cutting. Recommended protection includes goggles, wide vision goggles, eye shields and face shields.
- **High impact:** For tasks including explosive power tools and nail guns. Recommended protection includes face shields.
- **Welding:** Recommended protection includes filters and shields.
- **Chemical handling:** Recommended protection includes wide vision goggles, eye shields or face shields.
- **Hazardous radiation:** For tasks like welding, lasers or fiber optics. Recommended protection includes safety glasses, goggles, face shields or helmets designed for that task.
- **Dust:** Recommended protection includes goggles.

DESIGNATION OF FILTERS	LIGHT TRANSMISSION VALUE(LTV)	LENS SHADE	UV PROTECTION	FUNCTIONS AND SUITABLE USES
2-1.2 2C-1.2	74.4%-100%	Clear	✓	Suitable for use in good visibility conditions.
5-1.4 5-1.7	58.1%-74.4% 43.2%-58.1%	Indoor / Outdoor	✓	Reduces dazzling and the harmful effects of blue light. Ideal moving between light and dark areas.
5-3	8.5%-17.8%	Smoke Gray	✓	For direct sunlight and bright glare conditions.
5-2.5	17.8%-29.1%	Blue Mirror	✓	Ideal protection against sun glare as it reflects solar rays before filtering UV.
2-1.2	74.4%-100%	Yellow Amber	✓	Offers sharpness, acuity and contrast. Primary function is to block blue light.

FAQs on Eye Protection

Definitions, Hazards, Selection & Tests

FAQ

Q: Why should safety eyewear protect against UV and IR rays?

A: Various industrial processes emit IR rays i.e. over luminous transmittance. Also there is very strong UV rays spectrum below luminous transmittance in tropical countries like India. These radiations can cause cataract, retinal burn, painful eye condition, skin cancer around the eyelids etc. The lens of safety spectacles are made up of polycarbonate material which block the entry of UVs radiation into the eyes. Shaded PC lens protect against IR rays.

Q: How to select correct welding filters?

A: Selection and use of welding filters are described in IS: 5983-1980.

Q: What are markings on an approved eye protector?

A: Manufacturer's name or trademark and national standard need to be mentioned on temple. Alphabets are used to indicate speciality. For e.g. Ocular "C" for chemically toughened, "V" for High velocity and "M" for molten metals and hot solids.

Q: What type of safety eye protection should I wear?

A: The type of safety eye protection you should wear depends on the hazards in your workplace. If you are working in an area that has particles, flying objects or dust, you must at

least wear safety glasses with side protection (side shields). If you are working with chemicals, you should wear goggles. If you are working near hazardous radiation (welding, lasers, or fiber optics) you must use special-purpose safety glasses, goggles, face shields or helmets designed for that task.

Q: What is the difference between glass and polycarbonate safety lenses?

A: Both types of safety lenses meet or exceed the requirements for protecting your eyes.

Glass lenses

- Can not be easily scratched
- Can be used around harsh chemicals
- Can be made in your corrective prescription
- Are sometimes heavy and uncomfortable
- Are likely to fog

Polycarbonate lenses

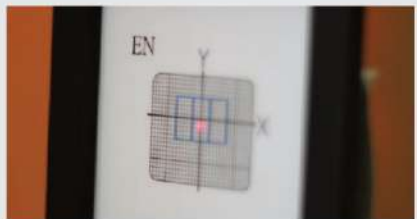
- Are lightweight
- Protects against welding splatter
- Are not likely to fog if coated with AF coating
- Are stronger than glass
- Are more impact resistant than glass
- Are not as scratch resistant as glass
- Are also available as Bifocal or corrective lens



Eye-wear Tests



- Hot & cold conditioning test
- Lens transmission test
- High velocity particle impact test
- Resistance to damage by fire particles



- Flame resistance test
- Ultra violet radiation resistance test
- Spherical, astigmatic and prismatic refractive power test
- High mass impact

SAFETY GOGGLES

Dust & Liquid splash protection

Products available with below approvals

ANSI Z87.1 : 2003



VENUS E-507-CHC-AF

Safety Goggle

Style

- Indirect ventilation
- Over the glass compatibility
- Protection from liquid splash & dust particles
- Double injection frame with soft nose bridge for nasal comfort
- Quality mark for assured performance

Head band

- Superior textile headband for greater comfort
- Side hook & back adjuster available



VENUS E-507

Lens

- 5 Base curve spherical lens design for wide field of vision
- High impact resistant & UV protection
- Anti Fog lens, Hard coating makes the lens extremely resistant to scratches and chemicals

Product	Item #	Colour	Packing	Type
VENUS E-507	11001	CLEAR	Pack of 5	CHC-AF 

ANSI Z87.1



VENUS E-503

VENUS E-503-CHC & VENUS E-501-CHC

Safety Goggle

Style

- 4 indirect ventilation ports for enhanced splash protection & to prevent fogging (E-503)
- Direct ventilation to allow cool air flow for comfort & prevent fogging (E-501)
- Frame produced from PVC material for chemical resistance
- Over the glass compatibility
- Small, compact, lightweight goggle
- Quality mark for assured performance

Head band





- Textile headband for user comfort
- Side adjustment available

Lens

- Hard coated lens designed to be abrasion resistant & provide good visibility
- Provides good Impact & UV protection



VENUS E-501

Product	Item #	Colour	Packing	Type
VENUS E-503	11003	CLEAR	Pack of 15	CHC 
VENUS E-501	11002	CLEAR	Pack of 15	CHC 
VENUS E-503	11079	CLEAR	Pack of 15	CHC-AF 
VENUS E-501	11078	CLEAR	Pack of 15	CHC-AF 

APPLICATION EXAMPLES

Furnace operation
Chemical industry
Laboratory
Mining
Paints
Pharmaceuticals
Ships

Pouring, Casting, hot dipping
Liquids, acid and chemical handling, degreasing, plating
Chemical handling, chemical reaction (splash)
Drilling, Material handling
Paint spray, Mixing
Bulk drugs, Material handling
Tank cleaning

OVER SPECTACLES

Protection for use with perception spectacles
One size fits all

Products available with below approvals

IS 5983



CE/L 0002915463



VENUS E-605



VENUS E-607

VENUS E-605 & VENUS E-607

Over Spectacle

Style

- Unisex compact design, provides unrestricted peripheral vision
- Can be worn over prescription spectacles and can be used with all prescription lenses
- 3 Base curve spherical lens design, 153mm wide extensive view (E-607)
- 6 Base curve spherical lens design, 157mm wide extensive view (E-605)
- 100 % Metal free, screw less design
- Quality mark for assured performance

Temple

- Ratchet suits wide face profile for comfort. Adjustable dual moulded temple with soft TPE tips (E-607)
- Transparent side shield made with PC for increased protection (E-605)

Lens

- High impact resistant, UV protection, Hard coated lens design
- Anti fog lens (E-607)

Nose bridge

- Clear nose bridge integrated with the frame gives comfortable nose fit

Product	Item #	Colour	Packing	Type
VENUS E-607	11007	CLEAR	Pack of 10	CHC 
VENUS E-605	11006	CLEAR	Pack of 10	CHC 



VENUS E-603

VENUS E-603 Over Spectacle

Style

- Frameless design with wide field of vision
- Can be worn over with prescription spectacles & prescription lenses
- 100 % Metal free, screw less design
- Quality mark for assured performance

Temple

- Polycarbonate temples with side shield & vent

Lens

- Anti fog lens
- Hard coated lens designed to be abrasion resistant & give good visibility.
- High impact resistant & UV protection

Nose bridge

- Clear nose bridge integrated with the frame gives comfortable nose fit

Product	Item #	Colour	Packing	Type
VENUS E-603	11004	CLEAR	Pack of 10	CHC 
	11005	CLEAR	Pack of 10	CHC - AF 

APPLICATION EXAMPLES

Agriculture	Pesticide & Insecticide spraying
Battery	Lead handling
Cement	Crushing, Baggging, Cement handling
Ceramics	Material mixing
Chemical	Bulk drugs, Blending operation & Utility process
Construction	Chipping, grinding, masonry work, riveting and sanding & Demolition work

Engineering	Sand blasting, Powder coating, Buffing, Cutting
Mining	Drilling, Material handling
Pharmaceuticals	Bulk drugs, Material charging, material handling
Textiles	Spinning, Weaving
Tyre	Carbon black

WELDING SPECTACLE / GOGGLE

Welding / IR protection

Products available with below approvals

ANSI Z87.1

VENUS E-767IR & VENUS E-753

Welding Goggle

Style

- Can be worn over prescription lens (E-767)
- 4 indirect ventilation ports for comfort in hot environment.(E-767)
- Quality mark for assured performance.

Headband

- Textile side adjustment for user convenience.

Lens

- Ergonomic flip up design
- Outer lens of IR shade 6 (E-767) & shade 5 in (E-753)
- Clear inner PC lens for impact resistance.

Product	Item #	Colour	Packing	Shade	
VENUS E-767	11009	DARK GREEN	Pack of 10	6.0 IR	ANSI Z87.1
VENUS E-753	11010	DARK GREEN	Pack of 10	5.0 IR	ANSI Z87.1



VENUS E-767



VENUS E-753

VENUS E-750

Welding Spectacle

Style

- Combined UV and IR protection
- Perfect color recognition
- Quality mark for assured performance.

Temple

- Sliding temple for durability & to support different face profiles

Lens

- Lens of IR shade 5
- Side shield for enhanced protection and peripheral vision

Nose bridge

- One piece integrated design to provide good comfort.

Product	Item #	Colour	Packing	Shade	
VENUS E-750	11008	DARK GREEN	Pack of 10	5.0 IR	ANSI Z87.1
	11038	DARK GREEN	Pack of 20 Retail Pack	5.0 IR	ANSI Z87.1



VENUS E-750

APPLICATION EXAMPLES

Welding application Gas welding, oxygen welding

PROTECTIVE SPECTACLES

Stylish Protective Spectacle
One size fits all

Products available with below approvals



VENUS E-311

VENUS E-311 (G-331)

Protective Spectacle

Style

- Double moulded built in full face foam / brow pad prevents slipping even in tough working environment, one size fits all.
- Quality mark for assured performance.

Temple - Headband

- Quick release for Temple / headband interchange gives users immense flexibility.
- Co-mould Temple with soft TPE material for comfort.
- Metal free screw-less dielectric safety design

Lens

- Dual lens Wrap round with 8 base curve stylish design,
- Hard coated lens designed to be abrasion resistant, good visibility.
- High impact resistant for eye protection



Product	Item #	Colour	Packing	Type
VENUS E-311	11023	CLEAR	Pack of 20	CHC With Elastic head band



VENUS E-307

Item #	Colour	Packing	Type
11011	CLEAR	Pack of 15	CHC

VENUS E-306 & VENUS E-305

Protective Spectacle

Style

- Wrap round stylish design for enhanced protection.
- Quality mark for assured performance.

Temple

- Ventilated TPE temple prevents slippage with PC insert (E-306)
- PC temple with soft TPE tips prevents slippage (E-305)

Lens

- Anti Fog lens, hard coated designed to be abrasion resistant, good visibility.
- High impact resistant & UV protection

Nose bridge

- One piece integrated design, no lose parts.

VENUS E-307 (G-307)

Protective Spectacle

Style

- Sporty design with a modern frame
- Wrap round stylish design for enhanced protection.
- Quality mark for assured performance.

Temple

- Nylon temple high Comfort with flexible tips.

Lens

- Hard coated lens designed to be abrasion resistant, good visibility.
- High impact resistant & UV protection

Nose bridge

- Soft TPE nose pads for higher comfort



VENUS E-306



VENUS E-305

VENUS E-306-AF

Item #	Lens Colour	Type	Temple Colour
11017	Clear	CHC - AF	RED
11018	Clear	CHC - AF	YELLOW
11019	Clear	CHC - AF	GREEN
11020	Clear	CHC - AF	BLACK
11021	Clear	CHC - AF	BLUE
11022	Clear	CHC - AF	VIOLET-BLUE

Packing: Pack of 20

VENUS E-305-AF

Item #	Lens Colour	Type	Temple Colour
11012	Clear	CHC - AF	RED
11013	Clear	CHC - AF	YELLOW
11014	Clear	CHC - AF	GREEN
11015	Clear	CHC - AF	BLACK
11016	Clear	CHC - AF	BLUE
11036	Clear	CHC - AF	VIOLET-BLUE

Packing: Pack of 20

APPLICATION EXAMPLES

Agriculture

Battery

Cement

Ceramics

Chemical

Construction

Pesticide & Insecticide spraying

Lead handling

Crushing, Bagging, Cement handling

Material mixing

Bulk drugs, Blending operation &

Utility process

Chipping, grinding, masonry work, riveting and sanding & Demolition work

Engineering

Mining

Pharmaceuticals

Tyre

Misc.

Sand blasting, Powder coating,

Buffing, Cutting

Drilling, Material handling

Bulk drugs, Material charging

Carbon black

Chipping, grinding, masonry work, riveting, cutting & sanding

PROTECTIVE SPECTACLES

Protection & comfort

Products available with below approvals



ANSI Z87.1



VENUS E-101 Sliding temple & VENUS E-101

Protective Spectacle

Style

- Frameless design with a wide field of vision
- Available with sliding temple to suit all face profiles
- Side shield for enhanced protection and peripheral vision
- Quality mark for assured performance.

Temple



- Nylon flexible support side arms for durability

Lens

- Virgin Polycarbonate optical grade, no distortion, UV protection.
- Hard coated lens designed to be abrasion resistant, good visibility.
- High impact resistant for eye protection

Nose bridge

- One piece integrated design, no lose parts.

Item #	Colour	Packing	Type
11026	CLEAR	Pack of 10	CHC with Sliding temple 
11025	CLEAR	Pack of 10	CHC 

VENUS E-102 Small & VENUS E-102

Protective Spectacle

Style

- Frameless design, light weight frame
- Wrap round stylish design for enhanced protection.
- Model available in small size.
- Quality mark for assured performance.

Temple

- Coloured temple allows easy identification.
- Wide area for side protection.

Lens

- Virgin Polycarbonate optical grade, no distortion, UV protection.
- Hard coated lens designed to be abrasion resistant, good visibility.
- High impact resistant for eye protection. Flexible lens reduces wearer fatigue.

Nose bridge

- One piece integrated design, no lose parts.

VENUS E-102S Size: Small



VENUS E-102S Size: Small



VENUS E-102 Size: Regular

VENUS E-102S Size: Small

Item #	Colour	Type
11034	CLEAR	CHC
11035	CLEAR	CHC - AF

Packing: Pack of 20



Accessory: Spectacle string
Item code # 73142

VENUS E-102 Size: Regular

Item #	Colour	Type	Temple Colour
11027	CLEAR	CHC	BLUE
11028	CLEAR	CHC - AF	GREEN
11029	AMBER	AHC	YELLOW
11030	GREY	GHC	GREY
11031	CLEAR	2.0 BI-FOCAL	CLEAR
11032	CLEAR	2.5 BI-FOCAL	CLEAR

11080 CLEAR CHC

Above Packing: Pack of 20

11037 CLEAR CHC

Retail Packing: Pack of 30

11095 CLEAR CHC

Above Packing: Pack of 20







 ANSI

APPLICATION EXAMPLES

Agriculture

Battery

Cement

Ceramics

Chemical

Construction

Pesticide & Insecticide spraying

Lead handling

Crushing, Bagging, Cement handling

Material mixing

Bulk drugs, Blending operation &

Utility process

Chipping, grinding, masonry work, riveting and sanding & Demolition work

Engineering

Mining

Pharmaceuticals

Textiles

Tyre

Sand blasting, Powder coating,

Buffing, Cutting

Drilling, Material handling

Bulk drugs, Material changing, material handling

Spinning, Weaving

Carbon black

HEAD & FACE PROTECTION

PRODUCT STYLES



Industrial Safety Helmets



VENUS H1000 Series
(Bump Cap)



VENUS H2000 Series



VENUS H3000 Series
(Dome)



VENUS H4000 Series



VENUS H6000 Series



VENUS H141R Shell

Eye & Face Protection



High Performance
Headgears



High Performance Faceshield
Bracets & Visors

Definition, Hazards, Selection & Tests

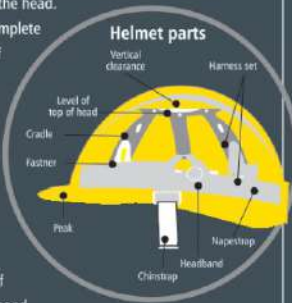
Head Protection Need:

Head protection device shall be worn in case of possibility of any of the following:

- Objects falling from above and striking on head.
- Heads bumping against fixed objects, such as exposed pipes or beams.

Definitions

- **Brim** - The rim surrounding the shell.
- **Chinstrap** - An adjustable strap that fits under the chin to secure the helmet on the head.
- **Harness set** - The complete assembly by means of which the helmet is maintained in position on the head, which includes headband, cradle etc.
- **Headband** - Part of harness surrounding the head. The plane of lower margin of headband shall correspond to reference line of the head form. The chinstrap may or may not be worn when nape strap is provided.
- **Cradle** - The fixed or adjustable assembly comprising of anti-conclusion tapes and if required, nape strap as well.
- **Nape strap** - An adjustable (with respect to the shell) strap that fits behind the head to secure the helmet and may be an integral part of the headband.
- **Peak** - The extension of the shell above the eyes.
- **Shell** - The smoothly finished material that provides the general outer form of the helmet.
- **Cap Style helmets** - Type of helmet characterized by a brim/peak in the front. Most helmets use this design. The design looks very similar to cap.
- **Full Brim helmets** - Type of helmet with a brim that wraps completely around the helmet. Helps to cover the neck and ears from the sun and other elements.
- **Marking**
Each helmet (shell and harness) will be legibly and indelibly marked with the following information:
a) Manufacturer's name or trade-mark and
b) Range / size of helmet



• Certification

The helmets shall be marked with the relevant certification mark.

How to choose the appropriate HPD

- Identify head hazards
- Choose head protection accordingly
- Know the limitations of head protection
- Take the required care of the device

FAQ

What is the shelf life of Helmet?

Head protection products do not have an indefinite life. Helmets should be replaced periodically where user environments are known to include higher exposure to temperature extremes, sunlight or chemicals. If a helmet has been struck by a forcible blow of any magnitude, both the helmet shell and suspension should be replaced immediately, even if no damage is visible.

All safety helmets are marked with month and year of manufacturing. It is recommended that a helmet should not be in use after 5 years from the manufacturing date.

Standard Helmet Test Requirements

• Penetration Resistance



• Flammability Resistance



• Electrical Resistance



• Shock Absorption Resistance



Industrial Safety Helmets

Protection against electrical hazards, Class E Hard hats rated for 20000 Volts

Products available with below approvals



VENUS H-6000 Series

Ventilated & Non-Ventilated - Full Brim



FEATURES AND BENEFITS

- Provide protection against electrical hazards upto 20000 volts (Class E Nonvent Only)
- Added sun protection to ears & neck from harmful UV rays and protection from falling materials & debris
- Sleek & attractive design high density polyethylene shell
- Large printing surfaces for great custom logo's on front, sides & back
- Comfortable "Fit-Lock" ratchet adjustment suspensions
- Accessory slots & chin strap attachments

HELMET Shell Color	VENUS HP-6000 Series Shell (ITEM CODE)	
	Ventilated	Non-Ventilated
	V-6010 Textile Ratchet	V-6010 Textile Ratchet
White	18556HTR	18562HTR
Yellow	18557HTR	18563HTR
Blue	18558HTR	18564HTR
Green	18559HTR	18565HTR
Orange	18560HTR	18566HTR
Red	18561HTR	18567HTR

Part No	ANSI	CE	Suspension	Adjustment
VENUS-H6000	Certified Type I	Certified	4-point, textile	"Fit-Lock" Ratchet



VENUS H-3000 Series (Dome) Non-Ventilated

FEATURES AND BENEFITS

- Provide protection against electrical hazards upto 20000 volts (Class E)
- Sleek, attractive & lightweight design PC-ABS shell
- Shell has rain trough for extra convenience
- Large printing surfaces for great custom logo's on front, sides & back
- Comfortable pin lock or exclusive "Fit-Lock" ratchet adjustment suspensions
- Accessory slots & chin strap attachments

HELMET Shell Color	VENUS H-3000 Series Shell (ITEM CODE)	
	Non-Ventilated	
	V-3010 Textile Ratchet	
White	18550PATR	
Yellow	18551PATR	
Blue	18552PATR	
Green	18553PATR	
Orange	18554PATR	
Red	18555PATR	

Part No	ANSI	CE	Suspension	Adjustment
VENUS-H-3000	Certified Type I	Certified	4-point, textile	"Fit-Lock" Ratchet

Industrial Safety Helmets

Protection against electrical hazards, Class E Hard hats rated for 20000 Volts

Products available with below approvals



VENUS H-2000 Series

Ventilated & Non-Ventilated - Half Brim

FEATURES AND BENEFITS

- Provide protection against electrical hazards upto 20000 volts (Class E Nonvent Only)
- Sleek, attractive & lightweight design high density polyethylene shell
- Large printing surfaces for great custom logo's on front, sides & back
- Shell has rain trough for extra convenience
- Comfortable pin lock or exclusive "Fit-Lock" ratchet adjustment suspensions
- Accessory slots & chin strap attachments

Part No	ANSI	CE	Suspension	Adjustment
VENUS-H2000	Certified Type I	Certified	4-point, textile	"Fit-Lock" Ratchet

HELMET Shell Color	VENUS H-2000 Series Shell ^{ITEM CODE}	
	Ventilated	Non-Ventilated
	V-2010 Textile Ratchet	V-2010 Textile Ratchet
White	18538HTR	18544HTR
Yellow	18539HTR	18545HTR
Blue	18540HTR	18546HTR
Green	18541HTR	18547HTR
Orange	18542HTR	18548HTR
Red	18543HTR	18549HTR



VENUS H-1000 Series (Bump Cap)

Non Approved Hat

FEATURES AND BENEFITS

- Low hazard Bump Cap, well ventilated and lightweight for total wearer comfort.
- "Super-Lightweight"
- Well ventilated
- Pinlock suspension
- Flat printing surfaces for great custom logos

Part No	Suspension	Adjustment	Application
VENUS-H1000	4-point, Plastic	Pin Lock	Food industry, mechanics, truck drivers, maintenance department, Assembly lines

- Available in

Colour	#Item code
Yellow	18161

Optimum peak

Wear & Adjust

Fit-Lock Ratchet



APPLICATION EXAMPLES

Automobiles	Assembly line	Construction	Sanding, Drilling, Cutting Demolition work
Battery	Lead handling	Metal fabrication	Heavy engineering
Ceramics	Material mbng	Engineering	Sand blasting, Powder coating, Buffing, Cutting
Chemical	Material handling, material processing	Mining	Drilling, Material handling

Industrial Safety Helmets

ABS Helmet & Bump cap

Products available with below approval

IS 2925



CML-0003804156

VENUS H-4000 Series

Ventilated / Non-Ventilated



FEATURES AND BENEFITS

- Sleek, attractive & lightweight design ABS shell material
- Shell has rain trough for extra convenience
- Inbuilt air vents option which facilitates enhanced air flow and better comfort
- Large printing surfaces for great custom logo's on front, sides & back
- Comfortable pin lock or ratchet adjustment suspensions
- Accessory slots & chin strap attachments
- Quality mark for assurance of product performance

HELMET Shell Color	VENUS H-4000 Series ABS Shell (ITEM CODE)						Spares
	Ventilated			Non-Ventilated			
	V-4030 Textile Ratchet	V-4040 Plastic Ratchet	V-4041 Plastic Pinlock	V-4030 Textile Ratchet	V-4040 Plastic Ratchet	V-4041 Plastic Pinlock	
White	18093ATR	18093APR	18093APP	18094ATR	18094APR	18094APP	 18029 PLASTIC PIN LOCK
Yellow	18092ATR	18092APR	18092APP	18091ATR	18091APR	18091APP	 18019 PLASTIC RATCHET
Blue	18095ATR	18095APR	18095APP	18096ATR	18096APR	18096APP	 18055 TEXTILE RATCHET
Green	18097ATR	18097APR	18097APP	18098ATR	18098APR	18098APP	
Orange	18010ATR	18010APR	18010APP	18011ATR	18011APR	18011APP	
Red	18099ATR	18099APR	18099APP	18009ATR	18009APR	18009APP	

Optimum peak Wear & Adjust ABS shell Fit-Lock Ratchet



APPLICATION EXAMPLES

Automobiles

Battery
Ceramics
Chemical

Construction

Assembly line

Lead handling
Material mixing
Material handling,
material processing
Sanding, Drilling, Cutting
Demolition work

Metal fabrication
Engineering

Mining

Heavy engineering
Sand blasting, Powder
coating, Buffing, Cutting
Drilling, Material handling

Eye & Face Protection

Multipurpose Face Shields & Visors To be used with & without Protective Caps



High Performance Headgears

TO USE WITHOUT PROTECTIVE CAP

FEATURES & BENEFITS

- Accepts a wide range of faceshield styles
- Large sparkguard provides excellent protection
- Cross strap adjusts to allow an exceptional fit
- Full floating mount sparkguard provides comfortable wear even with heavy faceshield and continuous use
- Comes with pinlock or ratchet adjustment for quick, easy and perfect fit
- Produced from tough Noryl material resistant to sparks and heat

Part No	Item #	Adjustment	Material	USE
VENUS-F-HG300P	18151	Pinlock	HDPE	Regular
VENUS-F-HG300R	18152	Ratchet	HDPE	Regular

High Performance Faceshield Brackets

TO USE WITH PROTECTIVE CAPS

FEATURES & BENEFITS

- Accepts a wide range of faceshield styles
- Swivel system to raise or lower faceshield
- Attachment system designed to accommodate many competitor's faceshields

Part No	Item #	Description
VENUS-F-BR100	18153	Plastic bracket, totally dielectric and blades for slotted hard hats
VENUS-F-BR200	18154	Aluminum bracket, heat resistant, with cam lock system

High Performance Faceshield Visors Windows

DIE CUT WINDOWS - FLAT

FEATURES & BENEFITS

- Produced from tough PETG material for increased durability & chemical resistance.
- Visors and windows offer the multi-fit attachment pattern (or universal fit). This pattern consists of 5 slots strategically located to fit a wide variety of headgear and brackets

PART NO	Item #	SIZE	MATERIAL	COLOR	THICKNESS
VENUS-F-VI400	18155	8 x 15 1/2	PETG	Clear	0.040 in /1.0 mm

APPLICATION EXAMPLES

Welding Application
Grinding, Chipping Application
Chemical
Construction

Material handling
Sanding, Drilling, Cutting

Engineering
Mining

Sand blasting, Buffing, Cutting
Drilling, Material handling

SORBENTS & SPILL MANAGEMENT

PRODUCT STYLES



Sorbents



VENUS-Sorb Kit 120



VENUS-Sorb Kit 50



VENUS-Sorb Pillows



VENUS-Sorb Pad



VENUS-Sorb Socks



VENUS-Sorb Roll

7 Steps for Effective Spill Response



1 Assess the nature of the spill:
Safety is your top priority, so when spill happens first assess the spill as it relates to human health, environment and your physical property. Identify the spill material from Material Safety Data Sheet (MSDS) and determine the type of Spill kit required.

2 Select the PPE:
Select the appropriate PPE which covers complete body parts by using suits, splash goggles, chemical resistive gloves and boots. Refer the product MSDS, PPE manufacturer's instructions or consult your Health & Safety professional for assistance



3 Confine Spill area:
Use sorbent boom, pads or other suitable material to contain spill to the immediate area. Prevent spilled substance from entering waterways, storm drains, sewers, floor drains, etc.



Stop the source:
Once the spill is confined, locate and stop the source by any of the possible method like turning the container upright, closing the valve or plugging the leak in the damaged container.



5 Determine the best possible action for cleanup. Use V-Sorb Pads to absorb smaller spills and V-Sorb Pillows and Booms to absorb large spills. You can also pump out large quantities of contained liquid. Once the absorbents are fully saturated they should be stored and disposed of in accordance to local regulations.



Decontaminate:
Once the cleanup operation is finished, it is important to decontaminate site, equipment and personnel involved.

7 Restock spill kit:
Immediately replace or restock used spill kit components to ensure preparedness for future spill incidents.

Applications

Oil leak and drips in drums and pipeline



Maintenance and cleaning



Marine application



Chemicals spill in factory or laboratory



Waste water discharge



SORBENTS

For the control and cleanup of Oils, Industrial Liquids and Chemicals in their workplace
Spill protection textile products from recycled materials for making your workplace safe & clean

Absorption capacity

- Large surface area, less material required.
- Absorbs large quantities of spilled fluids
- 1 kg of absorbent is approximately equal to 6 kg saw dust.

Stays afloat in marine application

- Does not sink after absorbing the spill oil
- Can be cleaned easily

User friendly

- Can be easily placed around a liquid spill to block it from spreading
- Absorbs leaks in tight places
- Lightweight mobile and easy to use
- Environment friendly, reusable

Varieties

- Hazmat Chemical
- Universal-Maintenance
- Oil only-EcoPlus



V-SORB SOCKS

Item #	Colour	Description
18116	BLUE	Hazmat Chemical
18103	GREY	Universal Maintenance
18115	WHITE	Oil only-EcoPlus

Box of 3 nos, each of 8'

- Socks are flexible tubes to absorb liquids.
- Mould as per requirements to cover corners or uneven surfaces.
- Wringable & can be incinerated.
- Strong wicking action, absorption begins instantly, prevents liquids from escaping to other areas



V-SORB PAD

Item #	Colour	Description
18107	PINK	Hazmat Chemical

Box of 50 nos, each of 400*400mm
Box of 1roll, each of 15m*400mm

- Pre cut pads ideal for small leaks & drips.
- Multipurpose can be also used as industrial wipe



V-SORB ROLL

Item #	Colour	Description
18162	GREY	Universal Maintenance

- Perforated: Select your size
- Dimpled: Adds durability & reduces linting
- Non slip underlayer.
- Recommended: Anywhere there is a leak, Janitorial, Hospitality, water fountains, assembly lines with spills incidence.

V-SORB KIT 120

Absorption Capacity - 75 L

Item # 18100

Contents	Quantity
Wheeled Trolley Drum 120 L	1 No.
Pad Universal	24 Nos.
Boom Universal	5 Nos.
Pillows Universal	5 Nos.
Multipurpose Gas Mask V-800+V-7800 ABEK1P3R	1 Set
Splash Goggle - G-501	1 No.
Nitrile Gloves Size: L	1 Pair
Chemical Gum Boots Size: 8	1 Pair
Barricade Tape	1 Roll
Disposable Bag	3 Nos.



V-SORB KIT 50

Absorption Capacity - 20 L

Item # 18126

Contents	Quantity
Drum small capacity 50 L	1 No.
Pad Universal	12 Nos.
Boom Universal	3 Nos.
Pillows Universal	3 Nos.
Nitrile Gloves Size: L	1 Pair
Disposable Bag	3 Nos.



Customer Technical Services



Air monitoring

RPD Selection through air sampling & walk through survey

- Contaminants in the hazardous area are analyzed and studied based on which suitable respirator is recommended as per the application with aid of aerosol monitor. Optical particle sizer uses state-of-the-art optics with 120° light collection and sophisticated electronics processing resulting in precision, high quality data with size range: 0.3 - 10µ upto 16 adjustable size channels.

Item # 70001

Noise Monitoring

Noise monitoring services help to determine the high noise level at various locations in industry by using sound level meter for the hearing aid requirement.

Item # 70021

Fit testing

Quantitative fit test

- Fit tests are performed to check the fit of masks on different face sizes and contours as per guidelines mentioned in the standard.
- Quantitative fit testing program with Portacount, TSI USA. Item # 70002
- Quantitative fit testing program with pressure sensor equipment OHD, USA. Item # 70020

Qualitative fit test

Irritant smoke is the only OSHA-accepted qualitative fit testing method that does not rely on the test subject's subjective response. Other types of qualitative fit tests, such as banana oil (Isoamyl acetate), saccharin, or Bitrex, may cause false negative results. Use for testing respirators with P100 or FFP3 class respirators

Item # 70003

Awareness programs

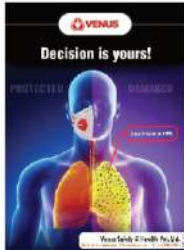
- PPE awareness programs are conducted to create awareness among users about their health and safety.
- Safety awareness films produced by Venus are distributed for free.
- Safety posters are available for customers.
- On site safety PPE displays done for awareness and education.
- Safety Day campaigns & exhibitions can be organised by VENUS.

SCBA servicing

- Includes complete check and servicing of all parts of the SCBA kit.
- Refilling and Hydro testing of the cylinder performed in our laboratory.

Item # 70005

Safety posters & awareness films



Respiratory Protection Awareness
Item # 70006



Eye Protection Awareness
Item # 70007



Eye Protection Awareness
Item # 70008



Head Protection Awareness
Item # 70009



Hearing Protection Awareness
Item # 70004



POP. Retail Poster
Item # 70010



Wearer Instruction - FFM
Item # 70015 English
Item # 70013 Kannada
Item # 70012 Telugu
Item # 70011 Tamil



Wearer Instruction - HFM
Item # 70016



Set of multi language Respiratory protection 20', Eye protection 8' & Noise protection 16'
card pen-drive Item # 70014

List of National & International Standards

Respiratory Protection

SN	Group	Indian Standard No	Description	European / American Standard	Description
1		IS 8347:2007	Respiratory Protective Devices-Definitions, classification and nomenclature of components	EN 134:1998	Respiratory Protective Devices- Nomenclature of components
2		IS 9623:2008	Selection, use and maintenance of respiratory protective devices	EN 529:2005	Respiratory Protective Devices- Recommendation for selection, use, care and maintenance
3	Particulate Filters	IS 9473:2002	Respiratory Protective Devices- Filtering half mask to protect against particles	EN 149:2001 + A1:2009	Filtering half mask to protect against Particles Requirement, Testing & Marking
		IS 15322:2003	Particulate filters used in Respiratory Protective equipment	EN 143:2000	Particle Filters Requirements, Testing & Marking
4	Gas Filters	IS 15323:2003	Gas filters and combined filters used in respiratory protective equipments	EN 14387:2004 + A1:2008	Gas filter & combined filters
5	Facepiece	IS 14746:1999	Respiratory Protective Devices – Half masks & quarter masks	EN 140:1998	Half mask & quarter masks requirements, testing & marking
		IS 14166:1994	Respiratory Protective Devices - Full face masks	EN 136:1998	Full-face mask for special use requirements, testing & marking
6	Supplied Air	IS 10245(Part 1):1996	Closed circuit breathing apparatus (compressed oxygen cylinder)	EN 145:1998	Self-contained open circuit compressed air breathing apparatus
		IS 10245(Part 2):1994	Open circuit breathing apparatus	EN 147:2006	Respiratory Protective Devices- Self contained open circuit breathing apparatus with full face mask
		IS 10245(Part 3):1982	Fresh air hose and compressed air line breathing apparatus	EN 14593-1 EN 14593-2 EN 14594	Compressed air line breathing apparatus with a full face mask, half mask or a mouthpiece
		IS 10245(Part 4):1982	Escape breathing apparatus (short duration self-contained type)		
7	RPO Threads	IS 14138:1994	Respiratory Protective Devices- Part 1 Standard thread connection	EN 148 + 1999	Respiratory Protective Devices- Threads for face-pieces, standard thread connection
		IS 14138:1994	Respiratory Protective Devices- Part 2 Threads for facepiece	EN 148-2:1999	Respiratory Protective Devices- Threads for face-piece, Centre-thread connection
8		IS 16289:2014	Medical Textiles - Surgical face masks - Specification	EN 14683:2014	Medical Textiles - Surgical face masks - Specification

Hearing Protection

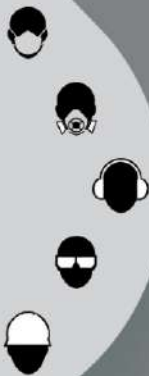
SN	Group	Indian Standard No	Description	European Standard	Description
1	Ear Protectors	IS 9167: 1979	Specification for Ear protectors	EN 352-1:2002 EN 352-2:2002	Hearing protectors- Safety requirements and testing Earplugs Hearing protectors- Safety requirements and testing Earplugs

Eye Protection

SN	Group	Indian Standard No	Description	European Standard	Description
1	Eye Protectors	IS 5983:1980	Specification for Eye protectors	EN 166	Personal eye protection specification

Head Protection

SN	Group	Indian Standard No	Description	European Standard	Description
1	Safety Helmet	IS 2925:1984	Specification for industrial safety helmets	EN 397 : 2012	Industrial safety helmets



High Protection | Good Comfort | Great Value |

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1800 26 72346 / 1800 22 2646.

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