Venus Technical data sheet of V-4200 series Respirator

- The V-4200 series of respirators includes Venus V-4214 SLOV-V, V-414 SLOV-V, V-425 SLOV-V, V-410 S, V-410 SL, V-420 SL, V-410 V, V-410 SLV, V-420 SLV, V-430 SLV & 4200 N95
- These respirators are of fold flat design with a large surface area for breathing comfort.
- V-4200 series respirators have superior micro-fine media technology which protects the user from reparable suspended particulate matter. The filters have a high dust holding capacity which do not get clogged thereby increasing the respirators life.
- V-4200 series have Venus's Stay cool butterfly vent valve which provides superior breathing comfort by removing built up heat inside the mask and aides in easy communication. These respirators also come with a special transparent valve cap to demonstrate the performance of the valve.
- V-4200 series respirators have NR D Anti clogging mark. These series of respirators have passed dolomite test and can resist clogging in very high dust environments.
- Venus V-414 SLOV-V & V-425 SLOV-V respirators include an activated carbon layer for absorption of nuisance level of obnoxious odour and vapour.
- V-4200 series of respirators have unique fit adjustors which provide optimum fit & comfort.
- V-425 SLOV-V respirator has an outer flame retardant layer to protect against welding sparks.
- These respirators have the headband sewn on the outside filter media to avoid puncture in the filter area and provide a leak-proof fit.
- V-4200 series respirators have latex free textile elastic which is skin friendly, has a long life and does not deform with repeat wears under high temperature.
- Venus 4200 N95 & V-430 SLV respirators have nose clip of the respirator embedded inside the mask to avoid having loose parts and metal exposure.

Materials

The following materials are used in the production of Venus V-4214 SLOV-V, V-414 SLOV-V, V-425 SLOV-V, V-410 S, V-410 SL, V-420 SL, V-410 V, V-410 SLV, V-420 SLV, V-430 SLV & 4200 N95 respirators.

Straps	Braided spandex
Nose Foam	Polyester
Nose Clip	Aluminum
Filter	Electrostatic PP-MB
Valve	Polypropylene
Valve Diaphragm	Silicon rubber
Adjustor clip	Polypropylene

These products do not contain components made from natural rubber latex

Minimum mass of products:

V-410 S – 11g

V-410 V – 11g

V-410 SL – 11g

V-410 SLV – 15g

V-420 SL – 15g

V-420 SLV – 15g

V-430 SLV – 16g

V-9420 V – 16g

V-4214 SLOV-V – 22.35g

V-414 SLOV-V – 22.35g

V-425 SLOV-V – 22.35g

4200 N95 – 16g

Selection Guide		FFP1	FFP2	FFP3	N95	P95	P100	Organic Vapour	Acid Gas	Welding
Painting, Varnishing, Spraying, Coating, Mixing	Solvent-Based-brush/roller applied			•			•	•		
	Solvent- Based-spray applied	Contact Venus								
	Water-Based-brush/roller/spray applied			•			•			
	Wood Preservatives			•			•	•		
	Powder Coating			•			•			
Sanding, Stripping, Grinding, Cutting, Drilling	Rust,most metals,Filler,Concrete,Stone	•			•					
	Cement,Wood,Steel		•			•				
	Paints,Varnish,Anti-rust coating		•			•				
	Stainless-Steel,Anti fouling varnish			•			•			
	Resins,Reinforced plastics(carbon/glassfibre)		•	•		•	•			
Construction/ Maintenance	Scabbling,Shot-creting(concrete dust)	•	•	•	•	•	•			
	Platering,Rendering,Cement mixing	•	•	•	•	•	•			
	Demolition	•	•		•	•				•
	Groundwork,Earth moving,Piling,Underpining		•	•		•	•			
	Spray foam,Loft Insulation		•	•		•	•			
Metal working/ Foundries	Welding,Soldering		•	•		•	•			•
	Electro-plating		•	•		•	•		•	
	Finishing,Slotting,Drilling,Riveting,Machining		•	•		•	•			
	Oxyacetylene cutting		•	•		•	•			
	Molten metal handling,Smelting		•	•		•	•		•	
Cleaning/ Waste Removal	Disinfection, Cleaning		•	•		•	•	•	•	
	Waste removal		•	•		•	•	•		
	Asbestos handling			•			•			
	Asbestos removal	Contact Venus								
Allergens/ Biohazards	Pollen,Animal dander	•			•					
	Mould/Fungus,Bacteria*,Viruses		•	•		•	•			
	Tuberculosis*			•			•			
	Diesel exhaust/Smoke		•			•				
Agriculture/ Forestery	Handling infected animals,Culling		•	•		•	•	•		
	Feeding livestock, Cleaning sheds/ Harvesters	•	•	•	•	•	•			
	Straw chopping,Composting,Harvesting		•	•		•	•			
	Pesticides,Insecticides(crop spraying)		•	•		•	•	•		
Mining/ Quarrying	Tunneling,Drilling,Grinding,Excavation		•	•		•	•			
	Pumping,Dredging,Washing		•	•		•	•			
	Cutting,Sawing		•	•		•	•			
	Changing Filters		•	•		•	•			
Other Industrial Applications	Ink,Dyes,Solvents,Chemicals		•	•		•	•	•		
	Powderd Additives/Chemicals		•	•		•	•	•		
	Pharmaceuticals		•	•		•	•	•		
	Rubber/Plastic processing		•	•		•	•	•		
	Oil & gas extraction/ Processing		•	•		•	•	•	•	•
	Pottery,Ceramics			•			•			
	Wood/ Paper Mills		•	•		•	•			

Standards

Venus 4200 N95 respirator meets the requirement of NIOSH class N95.

Venus V-4214 SLOV-V, V-414 SLOV-V, V-425 SLOV-V, V-410 SL, V-420 SL, V-410 SLV, V-420 SLV & V-430 SLV respirators meets the requirements of EN 149:2001+A1:2009.

Venus V-410 S & V-410 V meet the requirement of IS 9473.

These respirators should be used to protect the wearer from solid dust & Oil Mist. Particulate filter respirators are classified by filtering efficiency and maximum total inward leakage performance & also by inhalation resistance.

P1 filters are intended for use against mechanically generated particulates such as those generated from sanding, grinding, drilling etc.

P2 filters are intended for use against both mechanically & thermally generated particulates e.g. welding brazing etc.

P3 filters are intended for use against both mechanically and thermally generated particulates e.g. Asbestos handling, metal handling, solvent based painting etc. P2 & P3 filters may also help reduce breathing in pathogenic biological airborne particulates such as influenza virus.

N95 category filters are intended for use against mechanically generated particulates e.g. sanding, grinding, drilling etc.

Approvals

V-4214 SLOV-V, V-414 SLOV-V, V-425 SLOV-V, V-410 SL, V-420 SL, V-410 SLV, V-420 SLV & V-430 SLV respirators have been produced to comply with the requirement of EN 149:2001+A1:2009 under an agreed production certification scheme operated in accordance with IFA in Germany.

V-410 S & V-410 V respirator has been produced to comply with the requirement of the Indian standard Institute IS14746:1999 under an agreed production certification scheme operated during manufacture in accordance with the Bureau of Indian Standards.

Venus V-4200 N95 respirator has been evaluated in the laboratory and found to comply with all of the requirements of Title 42, Code of Federal Regulations, Part 84 and thus certified for NIOSH certification.

Applications

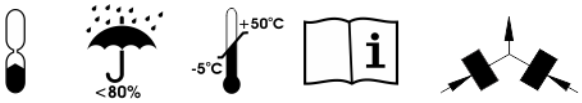
These respirators are suitable for use in concentration of solid and non-volatile liquid particles upto the following limits

Model	Approved	Class & Colour	Max. Use Level
V-410 S	IS 9473	Yellow/Grey	4 x OEL
V-410 V	IS 9473	Yellow/Grey	4 x OEL
V-4214 SLOV-V	EN 149:2001+A1:2009	Green	4 x OEL
V-414 SLOV-V	EN 149:2001+A1:2009	Green	12 x OEL
V-425 SLOV-V	EN 149:2001+A1:2009	Grey/White	12 x OEL
V-410 SL	EN 149:2001+A1:2009	Yellow/Grey	4 x OEL
V-420 SL	EN 149:2001+A1:2009	White	12 x OEL
V-410 SLV	EN 149:2001+A1:2009	Yellow/Grey	4 x OEL
V-420 SLV	EN 149:2001+A1:2009	White/Grey	12 x OEL
V-430 SLV	EN 149:2001+A1:2009	Grey/White	50 x OEL
Venus 4200 N95	NIOH N95	White	10 x OEL

Storage & Shelf Life

V-4200 series respirators until use shall be stored in the sealed pack to retain its properties. For transport such packs shall be suitably packed in outer cartons to protect from climatic hazards and mechanical shocks.

The shelf life of the product is 60 months from the date of manufacture. (If stored be-between –50C and +500C & Humidity not over 80%).The date of manufacture is mentioned on the pack of the respirator.



Disposal

Contaminated products should be disposed as hazardous waste in accordance with local regulations.

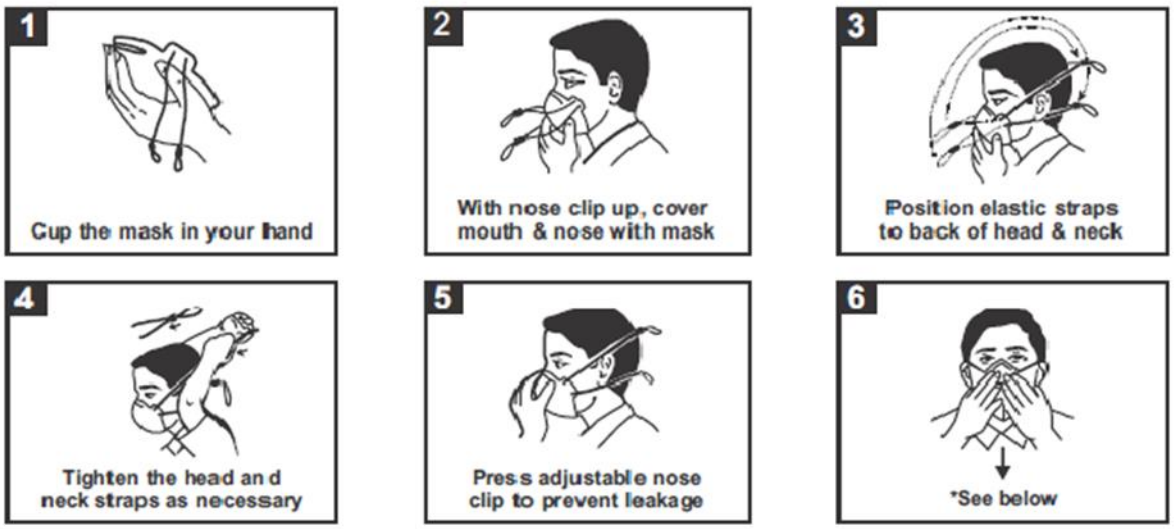
User Instructions

The user instructions must be read & followed-

1. Failure to follow all instructions and limitations on the use of this respirator and / or failure to wear this respirator during all times of exposure can reduce respirator effectiveness and result in sickness or death.
2. Before use, wearer must first be trained by the employer for proper respirator use in accordance with applicable Safety and Health Standards. Respiratory protection appliances are to be selected depending on the type and concentration of the hazardous substances.
3. The respirator may only be used if the type and concentration of the harmful substances are known. In case of unknown substances or concentrations or variable conditions, breathing apparatus should be used.
4. Non-ventilated containers, mines, canals should not be entered with the particle filtering half masks & also not allowed in explosive atmosphere.
5. If the respirator becomes damaged or breathing becomes difficult, leave the contaminated area, discard and replace the respirator. Also leave the contaminated area immediately if dizziness or other distress occurs.

FITTING INSTRUCTIONS TO BE FOLLOWED EACH TIME RESPIRATOR IN USE

Before use check for visible damage, Damaged or dirty (on breathing side) particle filtering half mask should not be used.



*6. To check fit, place both hands completely over the mask and inhale. If air leaks around nose, readjust the nose clip. If air leaks at the mask edges, work the straps back along the sides of your head. Repeat the procedure until respirator is sealed properly.

If you can not achieve a proper fit DO NOT enter the contaminated area. See your supervisor.

Limitations (For CE/ISI Products)

1. Do not use for protection against Gases, Vapor or in atmospheres containing less than 17% Oxygen.
2. Do not use with beard or other facial hair that prevent direct contact between the face and the edge of the respirator.
3. Do not use when concentrations of contaminants are immediately dangerous to life and health, are unknown, or when particulate concentration exceed the maximum use level / or other levels determined by your National Occupational Safety and Health Authorities.

Limitations (For NIOSH Products)

1. Not for use in atmospheres containing less than 19.5 % oxygen.
2. Not for use in atmospheres immediately dangerous to life or health.
3. Do not exceed maximum use concentrations established by regulatory standards.
4. Failure to properly use and maintain this product could result in injury or death.
5. All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and oth regulations.
6. Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified b
7. Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respi
8. NIOSH does not evaluate respirators for use as surgical masks.

Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb the respirator.
2. Exhale sharply into the respirator.
3. If air leaks around the nose, readjust the nose clip to eliminate leakage. Repeat the above fit check
4. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage. Repeat the above fit check.

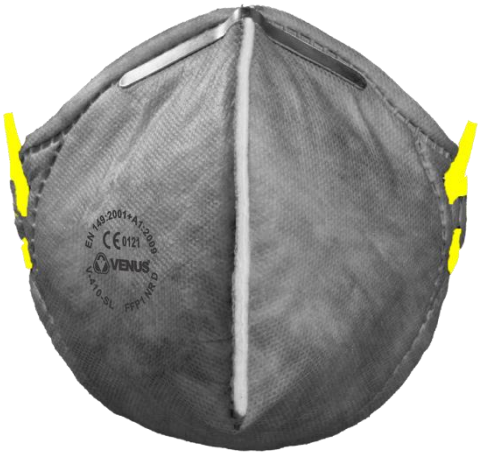
If you cannot achieve a proper fit DO NOT enter the hazardous area. See your supervisor.

For information regarding fit testing procedure please contact Venus.

Product Range

V-4214 SLOV-V , V -414 SLOV-V

V-425 SLOV-V



V-410 S , V-410 SL , V-420 SL

V-410 V , V-410 SLV , V-420 SLV

4200 N95

V-430 SLV

Manufacturer name & address

VENUS Safety & Health Pvt. Ltd.
I-75/76, Tondre, MIDC- Taloja,Dist.- Raigad, MH 410 208, India
TOLL Free: 1800 22 2646 | Ph :+91 22 27410018
Email: info@venusohs.com | Web: www.venusohs.com