

3M[™] Versaflo[™] V-500E Supplied Air Regulator

Technical datasheet

Product description

The 3M[™] Versaflo[™] V-500E Regulator is a belt-worn supplied air regulator. When combined with one of the 3M approved headtops, it forms a supplied air respiratory protection system. The V-500E Regulator can be used with 3M[™] Versaflo[™] S-Series Headcovers and Hoods, 3M[™] Versaflo[™] M-Series Faceshields and Helmets.

- Controlled, constant flow of air
- Locking control knob allows airflow to be adjusted to user's preference
- Integrated warning whistle warns the user of low supplied air pressure
- Integrated silencer reduces regulator's noise level
- Integrated replaceable active carbon filter removes odours
- Auxiliary port allows air tools such as paint spray guns to be connected to the regulator without affecting airflow to the headtop
- Regulator unit can be positioned on the belt to accommodate right- and left-handed users
- Swivelling bayonet connector allows the breathing tube to move freely to the most comfortable position
- This product does not contain silicone components
- Includes and Airflow Indicator, to allow the user to check the flow rate exceeds the manufacturer's minimum design flow rate before each use.
- Can be used with 3M compressed air hoses up to a maximum length of 30m. (Note: If the system meets the A requirements of EN 14594:2018 e.g. when using 3M[™] Versaflo[™] S-Series Headtops, a maximum compressed air hose length of 10m applies)

Materials

Component	Material
Housing and belt bracket	Noryl plastic (polyphenylene oxide)
Warning whistle	Brass
Belts	Standard belt = polyester
	Easy-clean belt = polyurethane
	coated polyester

Applications

The V-500E Regulator, when used with an approved 3M headtop, provides respiratory protection against:

- > Particles e.g. fine dusts, aerosols, paint spray or metal fume.
- Gases and vapours
- Particles, gases and vapours combined

Application	Typical Industry
Spray Painting	General transport
	Automotive & Aerospace
	Metal fabrication
	Shipbuilding
Powder coating	Metal fabrication
Material handling	Pharmaceutical
	Food processing
	Chemical
	Agrochemical
	Laboratory
Grinding & deburring	Metal fabrication
	Automotive
Welding	Metal fabrication
	Shipbuilding

Use Limitations

The V-500E Regulator should not be used in the following conditions:

- Asbestos removal.
- In atmospheres containing less than 19.5% oxygen.
- Confined spaces (lack of ventilation).
- When the risk is considered to be immediately dangerous for life or health (IDLH)
- Where the contaminant concentration is above the Occupational Exposure Limit defined for the headtop used (see relevant User Instructions for the headtop).

Standards and Approvals

The V-500E Regulator, in combination with 3M approved headtops, has been tested and approved to EN14594:2018.

The Certificate and Declaration of Conformity are available at the following website www.3M.com/Respiratory/certs

Nominal Protection Factor:		
NPF = 200		
Pressure Range: 3.5 – 8 bar		
Maximum Pressure: 10 bar		
Manufacturer's Minimum Design Flow		
(MMDF) 1701/min		
Maximum Flow 305 l/min		
-10 °C to + 50°C and < 90% RH		

-5°C to + 40°C and < 90%

The compressed air used to

operate the V-500E Regulator must comply with the quality requirements of EN 12021:2014

humidity

1/4 inch BSP thread

5 years from date of

manufacture

*3M provide a range of headtops and compressed air supply tubes that meet

** The shelf life as defined above remains an indicative and maximum data, subject to many external and non controllable factors. It may never be

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530-12-53P3	Belt unit coupling plug - Rectus 96
530-12-52P3	Belt unit coupling plug – Rectus 25
308-00-30P	10m Standard duty CAST
308-00-31P	30m Standard Duty CAST
308-00-40P	7.5m Light Duty CAST
308-00-72P	10m Standard Duty, anti-static, heat resistant CAST
530-12-81P3	Socket and Plug set – Rectus 95/96
530-12-82P3	Socket and plug set– Rectus 25
312-03-01P3	2-way manifold
312-03-00P3	3-way manifold
ACU-03	Aircare Filtration Unit – Wall Mounted
ACU-04	Aircare Filtration Unit – Free standing
BT-20S/L	Lightweight breathing tube (Small/Medium or
	Medium/Long)
BT-30	Self-adjusting breathing tube
BT-40	Heavy duty breathing tube
BT-922	Disposable breathing tube cover
BT-926	Flame resistant breathing tube cover

Spare Parts and Accessories

Part Number	Description
023-05-51P	Carbon filter
TR-325	Standard belt
TR-327	Easy-clean belt

Important notice

Operating Temperature

Inlet and auxiliary

Compressed air

Weight

outlet port

Shelf life**

both A and B classification.

interpreted as a warranty.

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competentprofessional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products orenvironment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must beobserved. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty orcompensation. Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.For more information on 3M products and services please contact 3M.

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