

Technical Datasheet



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

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 the following headtops: 3M™ Versaflo™ S-Series Headcovers and Hoods, 3M™ Versaflo™ M-Series Faceshields and Helmets, the 6000DIN Series full facemask and No.6 Welding shield.

Features

- 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 to less than 65 dBA
- 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
- Can be used with 3M compressed air hoses up to a maximum length of 30 m
- Regulator unit can be adjusted on the belt for right and left-handed users
- Swivelling bayonet connector allows the breathing tube to move freely to the most comfortable position
- No silicon components

Specifications

- Provides Protection Factors of 100+ (AS/NZS 1715) against mechanically and thermally generated particulates and gases & vapours.
- Inlet Pressure

Pressure range: 3.5 – 8 bar

Maximum pressure: 10 bar

- Outlet Flow Characteristics
 - Manufacturer's Minimum Design Flow (MMDF) 170l/min
 - Maximum Flow 305 l/min
- Storage conditions
 - 10°C to +50°C
 - < 90 %RH
- Operating temperature
 - 5°C to +40°C and <90% humidity
- Weight 514 g
- Inlet and auxiliary outlet port
 - ¼ inch BSP thread
- The compressed air used to operate the V-500E Regulator must comply with the quality requirements of AS/NZS 1715.

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

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The V-500E Regulator, in combination with various 3M headtops, has been tested and is compliant with AS/NZS1716:2003.

Applications:

The V-500E Regulator, when used with a compliant 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

Limitations:

The V-500E Regulator should not be used:

- For Asbestos removal
- In atmospheres with less than 19.5% oxygen.
- In Confined Spaces (as defined by AS2865).
- When the risk is considered to be immediately dangerous to life or health (IDLH). This type of respirator is given a Required Minimum Protection Factor of 100+ by AS/NZS1715:2009.

Application	Typical industry
Spray painting	Automotive & Aerospace General transport Metal fabrication Shipbuilding
Powder coating	Metal fabrication
Material handling	Agrochemical Chemical Food processing laboratory Pharmaceutical
Grinding and deburring	Automotive Metal fabrication
Welding	Metal fabrication Shipbuilding

Part Number.	Description
023-05-51P	Carbon filter
TR-325	Standard belt
TR-327	Easy-clean belt
901-00-56	7.5m Airline breathing hose
901-00-55	10m Airline breathing hose
901-00-54	15m Airline breathing hose
901-00-63	30m Airline breathing hose
BT-20S/L	Lightweight breathing tube (S = Short, L = 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