



## 3M™ Versaflo™ M-Series headgear

Powered & Supplied Air Respiratory Protection systems



## Comfort

Well designed personal protection equipment (PPE) must be comfortable and ergonomic to encourage users to wear it. Therefore providing high levels of comfort is an essential requirement of this market. The new Versaflo™ M-Series™ headgear have been developed to provide a range of lightweight, compact and balanced faceshields, hard hats and helmets, that allow users to work in comfort for longer periods.

## Protection

Once comfort has broken down the barriers to usage, PPE's fundamental function is to protect the user. The M-Series range provides closely integrated respiratory, eye and face protection, and some models head protection, meeting users' protection needs in a wide range of operating environments. The headgear also interfaces seamlessly with 3M's ear protection to provide an integrated protection system.

## Professional

The visual styling, materials selection and functional features incorporated in the M-Series range project a high quality professional persona. This not only reinforces the self image of users operating in challenging environments, it also visibly reflects the value that the employer places on their safety and well-being.

# Innovation

Lightweight, compact and balanced design.

Customized airflow achieved by easy adjustment of the internal deflector, allowing the user to control the distribution of air over their face for maximum comfort.

New fully adjustable head harness that includes textile straps to improve fit, weight distribution and comfort.

Careful face seal design and selection of materials that help reduce airflow or whistling past the ears, which is a common problem with this type of equipment. This provides a quieter system that is less distracting and fatiguing to wear for prolonged periods.

The profile of the visor provides excellent visibility, ensuring no restrictions to the user's field of view.

A low profile flexible seal across the top of the visor helps minimize dust collection and therefore limits the potential for dust falling into the user's eyes when lifted.

Visor viewing window is quick and easy to replace if damaged.

Visor frame profiled to provide compatibility with certain 3M™ protective hearing muffs.

Air supply connection is designed for rapid, single-handed connection and release, and is positioned to minimize the impact on the user's freedom of movement.



## Benefits to the user

The M-Series headgear range includes options that meet the highest performance requirements of the regulatory standards for this type of product. For example, some M-Series models have a US Occupational Safety and Health Administration (OSHA) assigned protection level of 1000, which is the highest allowed under Respiratory Protection Standard, 29 CFR 1910.134.

All visors comply with ANSI Z87.1 Eye Protection standards.

Models offering head protection comply with ANSI Z89.1 Head protection standards.

Inclusive design to accommodate approximately 95% of the head sizes in the global workforce.

Care and maintenance is straightforward. Many user interaction points are highlighted in blue and can be serviced by hand.

Replaceable parts are quick and easy to attach. For example, visors easily slide into place and are quickly secured. This ensures that care and maintenance is straightforward.

Accessories such as ear muffs or fabric protective shrouds are easy and intuitive to attach.

Air supply is quick and easy to attach and disconnect.





## Responsibility

Products in this segment have long product life cycles. Therefore, all Versaflo™ M-Series™ products are designed to be serviced and maintained over a prolonged life span.

All wear parts, such as forehead comfort/sweat pads, face seals, head harnesses and visors can be easily changed.

Robust and durable materials are used throughout the Versaflo™ M-Series™ products to prolong product life, reducing waste. This is particularly true of the external headtop shells, which are non-serviceable and need to provide extended use, usually in aggressive industrial environments.

Further extensions to product life in challenging work environments can be achieved by fitting flame resistant headcovers.

The M-Series products share a number of common components across the range. This modularity allows reduced stocking levels on interchangeable spares to be held.

## Benefits for the client

The Versaflo™ M-Series™ headgear are part of a new integrated range of Powered Air Purifying (PAPR) and Supplied Air respiratory protection equipment. They are designed to functionally and visually co-ordinate with a range of PAPR units and supplied air valves to create a series of CEN & NIOSH-approved personal protection systems.

The new range is modular, sharing many key components among the 3 products. This reduces the total number of production tools and component stock levels.

The M-Series is a global product. Designed to accommodate approximately 95% of the head sizes in the global workforce and to meet the most demanding international regulations, it avoids the need for regional or size variants.

Styled to reflect 3M's current visual brand language, the Versaflo™ M-Series™ products perfectly encapsulate 3M's core values of comfort, protection and quality. The products clearly delineate between the strong, protective exterior and the soft, comfortable user contact surfaces.

