



3M™ Scott™ Vision C5 Full Facepiece

Full Facepiece Requirements

- The full facepiece shall consist of the following components: (1) facepiece lens; (2) face seal; (3) head harness; (4) nose cup; and (5) multi-directional voicemitters.

Regulatory Approvals

- The facepiece, when used as a component of a respirator, shall be compliant to NFPA 1981: Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services, 2018 Edition.
- The facepiece shall meet ANSI Z87.1-2015 standard for “impact” rating.

Facepiece Assembly

- The facepiece shall have a large diameter inlet that enables both unrestricted breathing and voice communications, while also allowing for rehydration (oral) without having to remove the facepiece.
- In order to provide a robust interface with the breathing regulator, the facepiece shall serve as the female half of a quarter (1/4) turn coupling that also includes the positive pressure breathing regulator serving as the male half of said connection.
- The facepiece shall interface with the regulator, without the use of tools, with an audible click to assure the user that the regulator is properly seated.
- The full facepiece assembly shall be available in three sizes, marked “S” for small, “M” for medium and “L” for large.
- The facepiece sizes shall be easily identifiable through a color-coding scheme.
- The full facepiece assembly shall be available in three nose cup sizes, marked “S” for small, “M” for medium and “L,” for large.
- The facepiece assembly, including head harness, shall not be made with natural latex rubber.
- The facepiece shall include a face seal that is secured to the lens by a U-shaped channel frame that is retained to the lens using no more than two fasteners.
- The face seal shall be a single-reflex design for enhanced comfort and easier donning.
- The facepiece shall contain inhalation valves that are contrasting in color and readily visible to enable quick visual inspection.
- Multi-directional voicemitters shall be recessed on both sides of the facepiece and ducted directly to an integral silicone nose cup to enhance voice transmission around the wearer.
- The facepiece shall meet the requirements of the NFPA 1981, 2018 Edition standard for nonelectronic communications.
- The face seal shall provide a landing area with ridges to help improve the interface with protective hoods.
- The facepiece shall incorporate attachment points for an optional accessory neck strap.
- The facepiece assembly shall be modular in design to enable ease of upgrading and serviceability.
- The facepiece shall incorporate a RFID tag for asset and maintenance tracking.
- The facepiece shall be capable of submersion for cleaning and disinfecting.

Facepiece Lens

- The lens is a component of the facepiece assembly and shall be a single, replaceable, modified-cone configuration, constructed of a high-temperature and radiant-heat-resistant, non-shatter type polycarbonate material.
- The lens shall be coated to resist abrasion and meet the requirements of NFPA 1981, 2018 Edition standard for lens abrasion.
- The lens shall have an internal anti-fog coating to reduce fogging of the lens.
- The lens shall meet the requirements of the NFPA 1981, 2018 Edition standard for radiant heat and elevated temperature heat and flame resistance tests.
- In accordance with NIOSH 42 CFR part 84, the facepiece shall meet the penetration and impact requirements, including compliance with ANSI Z87.1 – 2015.

Head Harness

- The head harness is a component of the facepiece assembly and shall have five points of suspension connection, four of which shall be adjustable, made in the fashion of a net hood to minimize interference between securing of the facepiece and the wearing of head protection.
- The head harness shall be constructed of a para-aramid material for fire, first responder and CBRN applications.
- The head harness shall include an integrated handle to assist with donning of the facepiece.
- Two flame resistant elastic straps, attached to the face seal in four locations, shall provide adjustment for proper seal to the face.
- The head harness shall be available in three sizes to accommodate persons of varying facial shapes and sizes.
- The head harness shall be designed for easy removal from the facepiece to assist with cleaning and serviceability.

Warranty

- The facepiece assembly shall be warranted to be free from defects in workmanship and materials for as long as the original purchaser owns the product.
- Commonly-used parts are field replaceable.

Accessories

- An optional neck strap that meets the accessory design requirements of NFPA 1981, 2018 Edition shall be offered to carry the facepiece in a ready position.
- A prescription lens kit shall be offered to accommodate different user needs.

All statements, technical information and recommendations set out in this Bid Specification are based on information believed to be reliable and reflect the 3M Scott product(s) referenced above, but the accuracy or completeness thereof is not guaranteed. Before utilizing this Bid Specification, the user should determine the suitability of its intended use. The user assumes all risks and liability associated with such use.



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