

Single-Port Respirator

Bid Specifications

General Product Characteristics		
Туре	Full-facepiece single-port facepiece shall be available with three types of adapters enabling the facepiece to be used with pressure-demand respirators, a variety of air purifying and supplied-air respirators and as a twin-cartridge air purifying respirator. The complete respirator assembly shall be certified by NIOSH.	
Component Parts	The facepiece shall consist of a single, replaceable lens facepiece with a cover lens and instructions for use and maintenance of the respirator.	

Facepiece	
Sizes	The facepiece shall be available in three sizes. The standard (medium-sized), will fit a wide range of face sizes. Small and large facepiece sizes shall be available to fit those few individuals who will not achieve the correct fit with the standard medium size. A specific size indication shall be marked on the facepiece.
Mounting locations	The facepiece shall have a single mounting location for attaching various facepiece adapters to the facepiece. Three adapters shall be available: Push-to-Connect Adapter RD40 Adapter Twin-Cartridge
Suspension	An adjustable silicone rubber head harness with four points of suspension shall be used. An optional polyester net type harness with four points of suspension shall be available.
Lens	The facepiece lens shall be located on the unit to provide a satisfactory field of vision for persons of widely varying facial shapes and sizes. The lens shall be an easily field-replaceable polycarbonate lens with a scratch-preventative hard coating applied. The lens shall be of a non-shatter type design.
Exhalation valve	The facepiece will have a demand exhalation valve. The valve design will be of the umbrella type to limit the amount of back leakage. The valve assembly shall be designed for easy cleaning.
Nose cups	Nose cups shall be available for use in reducing facepiece fogging in cold conditions. The nose cups shall fit a variety of face sizes and shapes. The nose cups shall be designed to be installed without special tools.
Cover Lens	A clear flexible cover lens shall be packaged with each facepiece. Optional cover lenses shall be available in at least two types: clear and smoke-tinted.
Spectacle kit	A removable spectacle kit shall be available for mounting corrective lenses inside the facepiece.
Facepiece Blank	The facepiece shall be available in black silicone or Hycar rubber.

Page 1 of 3

Facepiece Adapters	
Push-To-Connect Adapter	 This facepiece shall be compatible with the following MSA Respirators: AirHawk[®] MMR Air Mask SCBA PremAire[®] Supplied-Air Respirator System PremAire Cadet Escape Respirator PremAire Cadet Pressure-Demand Supplied-Air Respirator The Push-To-Connect Adapter shall fasten to the facepiece without special tools. The adapter shall have an inhalation check valve and exhalation valve to prevent exhaled air from entering and contaminating the mask-mounted regulator. This facepiece shall be compatible with the following MSA Respirators:
RD 40 Adapter	 OptimAir® TL Powered Air Purifying Respirator OptimAir MM2K Powered Air Purifying Respirator Chin-Type Gas Masks Constant-Flow Air Line Respirators Constant-Flow Duo-Flo™ Respirators The RD40 Adapter shall fasten to the facepiece without special tools. The adapter shall have an inhalation check valve and exhalation valve to prevent exhaled air from entering and contaminating the respirator.
Twin-Cartridge Adapter	 This facepiece shall be compatible with the full range of MSA Advantage Cartridges. The Twin-Cartridge Adapter shall fasten to the facepiece without special tools. The adapter shall have an inhalation check valve and exhalation valve to prevent exhaled air from entering and contaminating the chemical cartridges or particulate filters. Cartridges and filters: The chemical cartridges shall be constructed as follows: The chemical and combination cartridges shall be contained in a one-piece plastic permanent assembly with protection for the particulate filter from punctures. The cartridge shall attach to the facepiece by hand (no tools), and use a bayonet-type means of attachment. The canister shall have a low profile that minimizes interference with the overall facepiece vision. Associated labels are to be located on the cartridge in such a manner to easily identify the cartridge type. Particulate filters shall be constructed as follows:

Manual	
Instruction manual	An instruction manual shall be available for each respirator. NIOSH approval information shall be available.



February 2008 Page 2 of 3

Accessories	
Spectacle Kit	A removable spectacle kit shall be available for mounting corrective lenses inside the facepiece.
Cover lens	Optional cover lens shall be available in at least two types: clear and smoke-tinted
Welder's Adapter	A detachable, polycarbonate welder's adapter shall be available

Certifications	
Approvals	The complete respirator assembly shall be certified by the National Institute for Occupational Safety and Health (NIOSH) under Title 42, Code of Federal Regulations, Part 84.



February 2008 Page 3 of 3