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Product Overview & Specification Sheet Case Mounted Respirator Supply Series – N.F.P.A. Compliant



Our **CMS-NFPA series** represents a line of case mounted pneumatic systems for supplying airline supplied devices such as airline respirators, airline egress systems, airline supplied Self Contained Breathing Apparatus, etc., both to a primary rescue team (entry team) and a backup rescue team (standby team) with redundant systems in accordance with the recommendations of the National Fire Protection Association's standards for airline supply systems for the fire/rescue service. All CMS-NFPA units feature twin, color coded, supply systems each including its own supply hoses, pressure reducer, low pressure warning whistle, pressure relief device, and outlet distribution manifold with 4 quick disconnect fittings. Each system's inlet supply includes two high-pressure hoses with hand-tight cylinder connectors to facilitate the connection of both a primary and backup cylinder for each system. This design permits the system to be used continuously, by allowing expended cylinders to be shut off, bled down, and replaced while the other cylinder supplies the system.

As an added safety feature, each system is color coded with Scotchlite reflective tape and colored identification tags. One system uses white, while the other uses green. In addition, our systems feature an emergency by-pass system between the low-pressure manifolds. In the event that one side of the system should be rendered non-functional, it can be supplied by the other system, through a quarter turn ball valve, and the rescue personnel can be safely removed from harms way. All CMS-NFPA systems have an auxiliary high-pressure inlet assembly. This auxiliary inlet allows a remote supply of high pressure breathing air from a cascade system, an air truck, or breathing air compressor to supply both the primary and the secondary systems in the event of a long duration operation. Both the Auxiliary Inlet and Emergency By-Pass System are clearly marked with red identification tags. The CMS-NFPA series is comprised of four major components, namely; the case and mounting system, the high pressure inlet assembly, the primary low pressure supply system, and the secondary low pressure supply system.



THE CASE & MOUNTING SYSTEM

The CMS series utilizes the bright yellow Pelican™ case. Yellow has long been associated with breathing air and we wanted to maintain that recognition factor. Pelican™ has long been recognized as the leader in the design and manufacturing of durable and innovative plastic compound cases.

The entire pneumatic assembly is manufactured and attached to a heavy duty aluminum plate that is dry powder coated in a matte black finish to reduce glare. This plate is then mounted into the case, using the molded feet of the case to bolt through. The bolts are then sealed with a silicone compound. This construction method preserves the integrity and sealing qualities of the Pelican™ case.



THE HIGH PRESSURE INLET ASSEMBLY

The High Pressure Inlet Assembly consists of two gold anodized aluminum manifolds, two - 2.5" diameter high pressure inlet gauges, four inlet assemblies with check valves and quick disconnect plugs, two low air supply warning whistles, and an auxiliary high pressure inlet to connect a remote source such as a cascade system, a high pressure breathing air compressor system, or other high pressure breathing quality air supply to the system. Each of the two systems is equipped with one 21" high-

pressure inlet hose assembly and one 36" high-pressure inlet hose assembly. These hose assemblies have a stainless steel hand tight hose connector, a stainless steel bleed valve, and a steel quick disconnect coupler to attach them to the system. This permits the exchange of depleted air cylinders while operating on a secondary cylinder. This permits the continuous operation of the system without shutting down to change cylinders. The quick disconnect couplers reduce hose entanglements and permit proper management and control of the air supply system.

THE PRIMARY LOW PRESSURE AIRLINE RESPIRATOR SUPPLY SYSTEM

The primary airline respirator supply system consists of an adjustable outlet pressure reducer, a 2.5" diameter 0 – 6000 PSI inlet supply pressure gauge, a low incoming air pressure warning whistle, a 2" diameter 0-160 PSI system outlet pressure gauge, a red anodized aluminum large bore manifold, four quick disconnect couplers, and a pressure relief device. The system can supply up to four (4) airline supplied respirators or other devices that have an operating pressure between 10 and 125 psi. Our large bore design permits the system to supply sufficient air to the user even under the most demanding conditions. The quick disconnect couplers are equipped with dust plugs to prevent contamination of the system while not in use. All piping is clearly marked with color-coded Scotchlite reflective tape, and all major components are marked with color-coded identification tags.

THE SECONDARY (BACKUP) LOW PRESSURE SUPPLY SYSTEM

The secondary airline respirator supply system consist of an adjustable outlet pressure reducer, a 2.5" diameter 0 – 6000 PSI inlet supply pressure gauge, a low incoming air pressure warning whistle, a 2" diameter 0-160 PSI system outlet pressure gauge, a red anodized aluminum large bore manifold, four quick disconnect couplers, and a pressure relief device. The system can supply up to four (4) airline supplied respirators or other devices that have an operating pressure between 10 and 125 psi. Our large bore design permits the system to supply sufficient air to the user even under the most demanding conditions. The quick disconnect couplers are equipped with dust plugs to prevent contamination of the system while not in use. All piping is clearly marked with color-coded Scotchlite reflective tape, and all major components are marked with color-coded identification tags.

The operator can use either systems as the primary supply system, while the other is used for the back or reserve system.

EMERGENCY BY-PASS SYSTEM

Another unique feature of our CMS-NFPA series is our Emergency By-Pass System; whereas the operator can immediately cross connect the low-pressure systems by turning a quarter turn ball valve. This enables the rescuers a means of escape in the event of a system shut down or malfunction. Any emergency by-pass system should always be affixed to the low-pressure side of the system, to bypass the pressure reducer.

CMS-AUXILIARY INLET SUPPLY

Every CMS-NFPA system is equipped with an auxiliary inlet supply to allow the connection of an external high pressure breathing air source such as an air truck, air cascade system, or a breathing air compressor to the unit. This inlet is cross-connected to both the primary and backup supply systems and will supply both at the same time. It is comprised of a check valve, a CGA 347 stainless steel male connector, and a stainless steel dust cap with cable. It is also available with the optional NFPA "RIT" style quick disconnect plug with rubber cap.

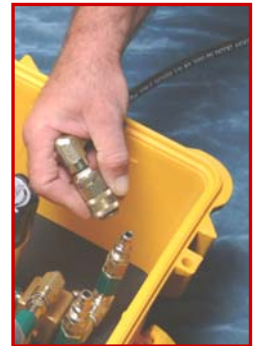


SUPPLY HOSE POST MOUNTING SYSTEM

All CMS-NFPA systems are supplied with a post mounting system. The cylinder connectors are attached to these posts when the unit is not being used. This prevents damage to the hose as well as all interior components.

SUPPLY HOSE QUICK DISCONNECT SYSTEM

All of the CMS-NFPA systems are supplied with quick disconnect supply hoses. This system aids in hose management, and helps prevent hose kinking and binding. Hoses not being used can be removed and set aside, out of the way of the operator.



SYSTEM SPECIFICATIONS

Overall exterior dimensions: 24 1/4" LONG X 19 7/16" WIDE X 8 1/8" DEEP

Exterior Color: Bright Yellow with blue Scotchlite reflective trim

Weight: 41 pounds with hoses.