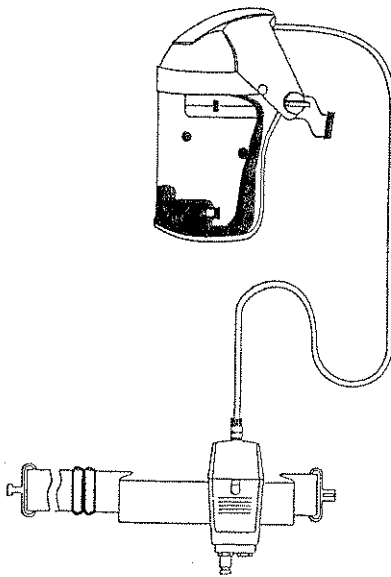


## 160012 (MPV-619) AIR SUPPLIED RESPIRATOR

**IMPORTANT:** Read and follow this service literature before you use the respirator. The literature explains the proper use, care and safety precautions for your respirator. Keep for future reference.



PERMISSIBLE  
 Supplied Air Respirator  
 Type C Continuous-Flow Class

### LIMITATIONS

Approved for respirator protection against atmospheres not immediately dangerous to life or health. Not for use in atmospheres containing less than 19.5 percent oxygen. Approved for use with 0 to 300 ft. of air hose within the following pressure ranges:

Hose Length (ft.)	Pressure Range (psi)
0	45 - 100
30	45 - 100
50	52 - 100
100	60 - 100
150	63 - 100
200	70 - 100
250	73 - 100
300	76 - 100



### WARNING

This respirator must not be worn in any atmosphere immediately dangerous to life or health.

Follow the manufacturer's instructions for providing a supply of respirable air.

In making renewals or repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

This respirator shall be selected, fitted, used and maintained in accordance with The National Institute for Occupational Safety and Health, Occupational Safety and Health Administration and other applicable regulations.

### WARNING

Severe or long term illness can occur if the wrong type of respiratory protection is used. This respirator will only provide protection against certain kinds and limited amounts of materials. Never use this respirator for protection against:

- Asbestos containing dusts and mists
- Sandblasting
- Any material used in a closed or poorly ventilated area

A respirator must be properly prescribed and fitted to your needs. OSHA and industry standards require:

- A qualified safety expert or industrial hygienist select the correct respirator
- The correct respirator can only be selected after finding out the kinds and amounts of toxic materials to which you will be exposed.

### DESCRIPTION



### WARNING

Risk of illness or death. Follow all instructions. The activated carbon filter does not remove carbon monoxide or carbon dioxide.

This air supplied respirator is designed to provide a high level of protection in contaminated atmospheres when worn and used correctly. It is not for use in atmospheres immediately dangerous to life or health; and, if accidentally disconnected or removed, the wearer must be able to safely reach a clean, breathable air supply. The compressed air supply to the respirator must be of breathable quality (Grade D) and conform to 42 CFR 84.141 (a) (b) and relevant national standards.

This air supplied respirator has a lightweight, fully adjustable headband and browguard. The detachable polycarbonate visor can be lifted up from the face when the operator is not working in a hazardous area. Two half turn tension knobs adjust the visor movement. Two disposable visor covers are provided.

The visor air feed tube is connected to a filter/regulator attached to the waist belt. The preset compressed air pressure regulator maintains a constant flow of air to the visor. Operating inlet pressure range is 45 psi (3.1 bar) to 100 psi (6.8 bar) (see table on page 1). Nominal flow rate to the visor is 6.4 CFM (180 liters/min.). The disposable activated carbon filter removes odor, particulates and oil vapor and incorporates a color change indicator. The filter should be changed when odors are no longer effectively removed or when oil vapor activates the start of a color change from white to red. Appropriate filters should be fitted at the supply hose inlet to provide Grade D breathing air, such as a DeVilbiss breathable air panel.

A storage bag is supplied to keep the visor safe and clean when not in use.

**SAFETY PRECAUTIONS**

This manual contains information that is important for you to know and understand. This information relates to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please pay particular attention to these sections.



Important safety information - A hazard that may cause serious injury or loss of life.



Important information that tells how to prevent damage to equipment, or how to avoid a situation that may cause minor injury.

**Note**

Information that you should pay special attention to.

**SPECIFICATIONS**

The 160012 (MPV-619) Air Supplied Respirator consists of:

160013 (MPV-621) Visor Assembly with ratchet headband, detachable visor covers, hair and neck cover, storage bag and quick detachable stem to attach flexible hose to 160014 (MPV-469) waistbelt.

160014 (MPV-469) Waistbelt Assembly: An adjustable nylon belt with quick fit buckle. The disposable carbon odor removal filter and preset regulator are contained in a molded housing which is moveable on the belt.

A DeVilbiss 160015 (MPV-530) (30 ft.) or 160016 (MPV-550) (50 ft.) Breathable Air Hose must be purchased separately and used in conjunction with the 160012 (MPV-619) respirator to properly operate the system and to maintain NIOSH approval.

**CAUTIONS AND LIMITATIONS**

Not for use in atmospheres containing less than 19.5 percent oxygen.

Not for use in atmospheres immediately dangerous to life or health.

Do not exceed maximum use concentrations established by regulatory standards.

Air line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.

Use only the pressure ranges and hose lengths specified in the instruction manual.

Do not use respirator if airflow is less than 4 cfm (115 lpm) for tight fitting face pieces or 6 cfm (170 lpm) for hoods and/or helmets.

Failure to properly use and maintain this product could result in injury or death.

All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.

Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.

Refer to users instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

Hose approved for up to 300 ft. in total length with a maximum of six connections.

When the Air Visor is used with zero foot hose approval, the waistbelt air inlet must be directly connected to the point of attachment of a source of Grade D air located at a workstation.

**INSTALLATION AND OPERATION**



**Risk of illness or death. Never use this respirator in an area where the atmosphere is immediately hazardous to life or health. In an emergency, the wearer must be able to escape from the work area without the need of a respirator.**

**The air supplied must be of breathable quality and confirm to 42 CFR 84.141 (a) (b) and the relevant national standards.**

The air intake of the compressor is especially vulnerable to all types of carbon monoxide sources. The air compressor air intake must be located in an area where the air being compressed is clean and free of airborne contaminants.

Breathable air source must be of a grade "D" level. This consists of the following:

Oxygen = 19.5 to 23.5% (typical atmospheric levels)

Oil (condensed) = 5 mg/m (milligrams per cubic meter)

Carbon monoxide = 10 ppm (parts per million) max.

Carbon dioxide = 1000 ppm (parts per million) max.

Odor = The presence of a pronounced odor should render the air as unsatisfactory

Test the compressed air supply for the presence of carbon monoxide. This can be accomplished by the use of a Gas Detector Tube or Electronic Carbon Monoxide Monitor. The testing should be done immediately.

If carbon monoxide is found, the cause must be located and corrected before the worker can use the respirator from that air supply.



**Carbon monoxide can cause nausea, fainting or death. Stop using the air supply if carbon monoxide is present. A Carbon Monoxide Monitor does not remove carbon monoxide.**

Supply air must be filtered and regulated. See Table in column 2 for required air pressure for various hose lengths.

**Note**

It is required that a DeVilbiss breathable air supply hose is used and specifically identified for breathing air, such as, as DeVilbiss 160015 (MPV-530) (30 ft.) or a 160016 (MPV-550) (50 ft.) breathable air hose. Each user should have their own visor assembly.

**Wearing Instructions**



Risk of illness. Avoid breathing contaminated air. Read and follow the instructions below before entering a contaminated area.

1. Connect the air supply hose to the outlet source of Grade D air. See illustration on Page 6. Do not turn on the air supply.

**Note**

Ensure that the supply hose is long enough to allow the operator to enter and leave the contaminated area without disconnecting or removing the visor.

2. Check the waistbelt and respirator assemblies ensuring that all parts are in good condition. Replace if damaged.
3. Attach and adjust the waistbelt assembly ensuring that the supply air inlet is pointing down.
4. Connect the air supply hose to the waistbelt inlet.
5. Connect the respirator feed tube to the female quick disconnect on top of the filter assembly.
6. Place the browguard visor assembly on head; and with the visor in the open position, adjust the crown strap and tension knobs to obtain a secure fit. Ensure that the feed tube is not twisted or kinked and will not interfere with normal movements.
7. Turn on the air supply and check that air is flowing freely to the inside of the visor.
8. Adjust the inlet air pressure to ensure that the supply pressure at the inlet of the supply hose is within the guidelines of the following table:

Hose Length (ft.)	Pressure Range (psi)
0	45 - 100
30	45 - 100
50	52 - 100
100	60 - 100
150	63 - 100
200	70 - 100
250	73 - 100
300	76 - 100

9. Before entering the contaminated area, the visor must be pulled down so the foam skirt is touching the face all the way around and the tension knobs are adjusted so the visor is locked in this position.



Risk of diminished air flow. When adjusting air pressure to other units, ensure that the pressure to the waistbelt assembly at the point of attachment is maintained at a minimum of 45 PSI (3.1 bar).

**MAINTENANCE**

**Inspection**

1. Inspect equipment before each use for damaged parts. Pay particular attention to the hose and visor feed tube - replace if there is any sign of abrasion, cuts, cracks, kinks, or distortion.
2. Replace visor covers as necessary to ensure clear vision. Do not spray paint or use chemicals without a protective visor cover 165003 (MPV-1) in place.
3. Check for air leaks whenever pressure is first applied. Check and make sure the hose connections are secure and that the hoses and fittings are in good condition. Replace if damaged.
4. Check before each use that the foam skirt is free from tears, rips, distortion, dirt, contaminants, and discoloration.
5. Check the waistbelt periodically for general wear.
6. Replace the activated carbon cartridge when the white indicator pad becomes pink or if any odors are experienced during wearing.

**Cleaning**

1. Regularly clean and/or disinfect the visor and headband assemblies. **DO NOT USE PAINT SOLVENTS.** Solvents will attack the plastic lens and render it unusable.

**Recommended solutions:**

- a. Cleaning: 1/2 teaspoon (3 ml) of liquid detergent to 1 quart (1 liter) of warm water, mix thoroughly.
- b. Disinfectant: 1/2 teaspoon (3 ml) of bleach to 1 quart (1 liter) of warm water, mix thoroughly.

**Method for cleaning and/or disinfecting:**

Use a lint free cloth dampened with the solution and wipe the inside and outside of the visor and headband assemblies. Repeat with a clean, lint free cloth dampened with clean, lukewarm water. Allow to dry naturally. Maximum ambient temperature 104° F. (40°C).

**REPLACEMENT OF PARTS**



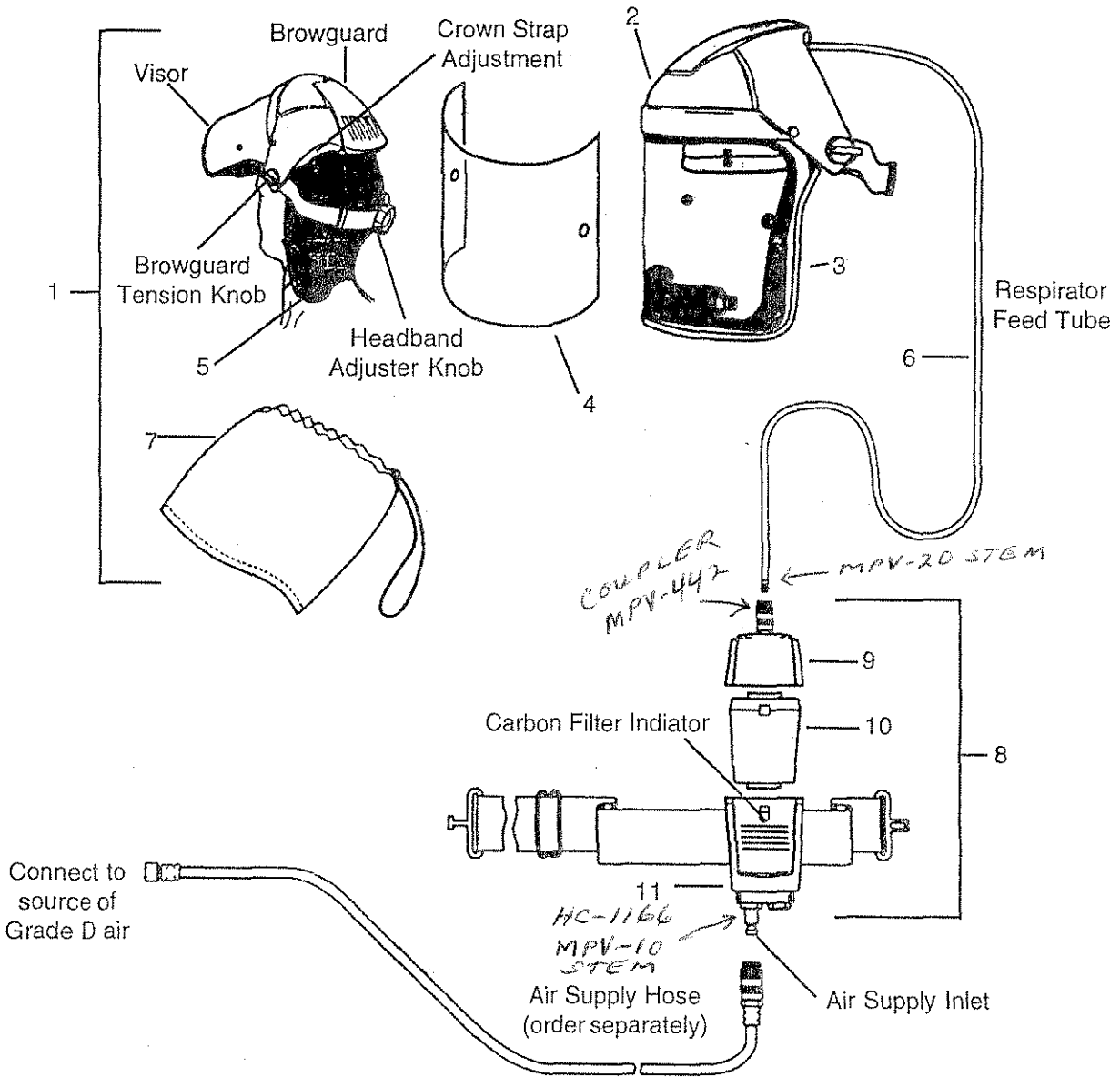
Use only DeVilbiss replacement components. Use of non-DeVilbiss parts may cause equipment malfunction and create an unsafe condition for the end user, as well as void the NIOSH approval.

**To replace the activated carbon filter:**

1. Turn off air supply to the waistbelt and remove air supply hose.
2. Unscrew the two screws at the top of the waistbelt housing and one screw on the front.
3. Tilt the regulator forward to release the black locating lug from the slot in the front of the lower half of the waistbelt housing.
4. Remove the old carbon cartridge and fit a new replacement.
5. Relocate the black lug on the regulator into the slot on the lower half of the waistbelt housing.
6. Align regulator to bottom housing and tighten the three screws.
7. Replace air supply hose and check that there are no air leaks.

**To replace the visor assembly:**

1. Remove the visor air hose from the slot at rear of browguard.
2. Holding the browguard firmly, push the top of the visor in and downward to free the locating holes in the visor from the retaining lugs on the browguard.
3. Remove the visor from the securing pegs on the browguard.
4. If the air tube and diffuser are in good condition, remove from the old visor and fit to the new replacement visor.
5. Feed the air hose through the side of the browguard but do not fit to the slot.
6. Locate the keyhole slots at the end of the visor to the pegs in the browguard.
7. Push the visor up to enter the rim of the browguard then give a sharp push to locate into the browguard retaining lugs. Check for correct engagement.
8. Fit air hose to the slot at the rear of browguard.



**160012 (MPV-619) PARTS LIST**

Ref. No.	Replacement Part Number		Description	Individual Parts Required
	Computer Part No.	DeVilbiss Part No.		
1	160013	MPV-621	Visor Assy. (Includes Refs. 2-7)	1
2	165009	MPV-470	Browguard Assembly	1
3	165010	MPV-471	Visor With Foam Face Seal	1
4	165003	MPV-1-K10	Visor Cover (Kit of 10)	2
5	165007	MPV-24	Hair & Neck Cover	1
6	165001	MPV-457	Tube & Diffuser Assy.	1
7	165000	MPV-458	Storage Bag	1
8	160014	MPV-469	Waist Belt/Filter Assembly (Includes Ref. Nos. 9-11)	1
9	160017	MPV-472	Regulator & Housing	1
10	160029	MPV-22	Disposable Carbon Filter	1
11	160018	MPV-519	Waistbelt & Filter Housing	1

## PART NUMBER CONVERSION CHART

Computer No.	Part No.	Description
160012	MPV-619	Air Supplied Respirator
160013	MPV-621	Visor Assembly
160014	MPV-469	WaistBelt Assembly
160001	MPV-530	Breathable Air Hose (30 ft.)
160016	MPV-550	Breathable Air Hose (50 ft.)
160015	MPV-457	Tube & Diffuser Assembly
165003	MPV-1-K10	Visor Covers (pack of 10)
160029	MPV-22	Carbon Filter
165007	MPV-24	Hair & Neck Cover
165009	MPV-470	Browguard Assembly
165010	MPV-471	Visor with Foam Face Seal



DeVilbiss  
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Maumee, Ohio 43537  
1-419-891-8200



**TYPE C CONTINUOUS FLOW SUPPLIED AIR RESPIRATOR  
APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:**

Respirator Components							
TC#	Protection <sup>1</sup>	Model #	Hood	Flow Regulator and Belt Assembly	Alternate Components		Cautions and Limitations <sup>2</sup>
					Hose		
					30 ft.	50 ft.	
		MPV-619	Part # MPV-621	Part # MPV-469	Part # MPV-530	Part # MPV-550	
19C-333	SA	X	X	X	X	X	A,B,C,D,E, J,M,N,O

<sup>1</sup> Protection - SA Supplied Air

<sup>2</sup> Cautions and Limitations

- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use concentration established by regulatory standards.
- D. Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E. Use only the pressure ranges and hose lengths specified in the user's instructions.
- J. Failure to properly use and maintain this product could result in injury or death.
- M. All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N. Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O. Refer to users instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

**WARRANTY**

This product is covered by DeVilbiss' 1 Year Limited Warranty. Order a free copy of SB-1-000 which is available upon request.

**WORLDWIDE SALES AND SERVICE**

**DeVILBISS INDUSTRIAL SPRAY EQUIPMENT**

DeVilbiss has authorized distributors throughout the world. FOR TECHNICAL ASSISTANCE OR DISTRIBUTOR NEAREST YOU, CALL TOLL FREE 1-800-338-4448 (U.S.A. AND CANADA ONLY). FOR LOCAL CALLS, SEE LISTING BELOW.

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MAUMEE, OH 43537

Address  
1724 Indian Wood Circle

Telephone No.  
(419) 891-8200  
Toll Free Fax No. 1-800-338-0131

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DeVilbiss has authorized distributors throughout the world. For equipment, parts and service, check the Yellow Pages under "Automobile Body Shop Equipment and Supplies".

FOR TECHNICAL ASSISTANCE, CALL TOLL FREE 1-800-445-3988 (U.S. ONLY). FOR LOCAL CALLS, SEE LISTING BELOW.

U.S. Customer Service Office  
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Address  
1724 Indian Wood Circle

Telephone No.  
(419) 891-8100  
Toll Free Fax No. 1-800-445-6643

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