GVX® Series Airline Respirator User Manual

Supplied-Air Respirator: Type CE Continuous Flow

TC-19C-0489	F40 Series Adjustable Continuous Flow Control
TC-19C-0491	AC1000 Series Cooling Flow Control
TC-19C-0492	HC2400 Series Heating/Cooling Flow Control
TC-19C-0493	Frigitron2000 Series Cooling Flow Control
TC-19C-0494	DC5040 Series Cooling Flow Control
TC-19C-0498	F30 Series Fixed Continuous Flow Control

The Bullard GVX Series airline respirators are designed to provide respiratory protection in light- and heavy-duty abrasive blasting applications and general industry applications. The respirator has been third party tested to provide 1,000 Assigned Protection Factor (APF) when used as instructed. The protective helmet meets ANSI Z89.1 Type 1, Class C requirements for head protection and ANSI Z87.1, Z87+ high-impact face protection. Capes are designed to protect the workers body from abrasive rebound.

NOTE

For technical assistance or questions contact Bullard Customer Service at:
Toll-Free 877-BULLARD (285-5273) or 859-234-6616
Online at www.bullard.com or e-mail info@bullard.com

Cautions and Limitations
For GVX Series Supplied Air Respirators

A. Not for use in atmospheres containing less than 19.5% oxygen.
B. Not for use in atmospheres immediately dangerous to life or health (IDLH). IDLH is defined in 29 CFR 1910.134(b).
C. Do not exceed maximum use concentrations established by regulatory standards.
D. Airline respirators can be used only when 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 this User Manual.
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 user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
S. Special or Critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.

Table of Contents

Warnings and Instructions 2-3
NIOSH Approval Labels
F30 Series Flow Control Devices 4
F40 Series Flow Control Devices 5
AC1000 Series Flow Control Devices 6
HC2400 Series Flow Control Devices 7
Frigitron 2000 Series Flow Control Devices 8
DC5040 Series Flow Control Devices 9
Component Concept 10
Warnings 11-12
Operations 12-13
Breathing Air Pressure Table 14
Breathing Air Pressure Table Continued 15
Air Source/Respirator Configurations 16
Respirator Assembly
Sizing the Headband 17
Installing Headband into Helmet 18
Attaching Cape to Helmet 18
Installing Breathing Tube Assembly into Respirator Helmet 18
Using Climate Control Devices 18
Installing Lenses 19
Respirator Use
Donning 20
Doffing 20
Inspection, Cleaning, and Storage
Cape 21
Headband and Chin Strap 21
Helmet 21
Lenses and Window Frame Gasket 21
Breathing Tube Assembly 22
Air Supply Hoses 22
Storage 22
Parts and Accessories 23-25
AC1000 Cool Climate Control Tube 26
HC2400 Hot/Cold Climate Control Tube 27-28
DC5040 Series Dual-Cool Climate Control Tube/ DC70 Vest 29-30
Frigitron 2000 Cool Climate Control Tube 31
V10 Breathing Air Supply Hose 32-33
V20 Breathing Air Supply Hose 33
Warranty 34
Return Authorizations 34

WARNINGS AND INSTRUCTIONS

1) **Read all warnings and instructions prior to using this respirator. Improper respirator use may result in serious injury and/or death. Improper use may also cause certain life-threatening delayed lung diseases including but not limited to silicosis, pneumoconiosis, or asbestosis.** Respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, NIOSH and other applicable regulations.
2) Do not use this respirator if any of the following conditions exist:
   - The atmosphere is immediately dangerous to life or health (IDLH) as defined in 29 CFR 1910.134(b).
   - You cannot escape without the aid of the respirator
   - The atmosphere contains less than 19.5% oxygen
   - The work area is poorly ventilated
   - Unknown contaminants are present
   - Contaminant concentrations are unknown or in excess of maximum use concentrations for this respirator.
3) Leave the work area immediately if:
   - Any respirator component becomes damaged
   - Airflow into respirator stops or slows down
   - The air pressure, as indicated on the gauge, drops below the minimum specified in the Supplied Air Pressure Tables in this user manual
   - Breathing becomes difficult
   - You become dizzy, nauseous, too hot, too cold, or ill
   - You taste, smell, or see contaminants inside the respirator hood
   - Your vision becomes impaired
4) Always don (put on) the respirator in an environment that is not contaminated and meets Grade D breathing air requirements.
5) Always leave the contaminated area before reaching into the helmet or doffing (removing) the respirator.
6) It is imperative to know the level of concentration of contaminants for which this respirator, or any respirator, is being used in order to select an appropriate respirator. If this respirator is used in abrasive blasting, it is necessary to regularly monitor the concentrations outside the respirator during the blasting operations.
7) It is imperative to measure the concentration of the contaminants after the blasting stops before reentering the area. Concentrations may still be high enough to exceed the maximum use concentrations of many respirators, including supplied air respirators.
8) Do not assume that the concentrations you measured at an earlier time or location are the same for a different task or operation. Concentrations may vary significantly depending on factors including, but not limited to, the number of blasters engaged in the operation, whether the blasting is in an enclosed or partially-enclosed structure (confined or semi-confined space), whether ventilation is used, and the type of ventilation.
9) This respirator, when properly fitted and used, in conjunction with adherence to OSHA regulations and industry standards, will provide the stated protection to the wearer. The respirator significantly reduces, but may not totally eliminate, the breathing of contaminants depending on the work practices involved. Where concentrations of contaminants exceed the protective rating of this respirator, a higher level of protection such as a self-contained breathing apparatus (SCBA) respirator may be required. Ideally, the employer should measure concentrations inside the breathing zone on a periodic basis to ensure that the wearer is receiving adequate protection.

10) Do not wear this respirator until you have passed a complete medical evaluation including a lung x-ray conducted by qualified medical personnel, and have been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who has extensive knowledge of Bullard GVX Series respirators.
11) Do not modify or alter this respirator in any manner. Use only GVX Series components and replacement parts manufactured by Bullard for use with this respirator. Failure to use Bullard components and replacement parts such as lenses, hoses, flow control devices, capes, and climate control devices, voids NIOSH approval of the entire respirator, invalidates all Bullard warranties, and could cause death, serious injury, delayed lung disease, or exposure to other hazardous or life-threatening conditions including but not limited to silicosis, pneumoconiosis, or asbestosis.
12) Inspect all components of this respirator system daily for signs of wear, tear, or damage that might reduce the degree of protection originally provided. Immediately replace worn or damaged components with Bullard GVX Series components or remove the respirator from service.
13) This respirator must be supplied with at least Grade D breathable air at all times. The air source at the point-of-attachment must provide at least Grade D breathable air as described in the Compressed Gas Association Commodity Specification CGA G-7.1 and as specified by Federal Law 42 CFR Part 84, Subpart J, 84.141(b) and 29 CFR 1910.134(i). The point-of-attachment is the point at which the air supply hose connects to the air source. This GVX series respirator does not purify air or filter out contaminants.
14) Do not connect the respirator's air supply hose to nitrogen, oxygen, toxic gases, inert gases, or other non-Grade D air sources. To prevent this, use airline couplings that are incompatible with outlets for other gas systems, as required by OSHA regulation 29 CFR 1910.134 (i) (8). Check the air source before using the respirator. Failure to connect to the proper air source could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.
15) Use only the hose lengths and pressure ranges specified in this user manual. A pressure gauge attached to the air source is used to monitor the amount and adequacy of air provided to the respirator wearer.
16) Do not use this respirator in poorly ventilated areas or confined spaces such as tanks, small rooms, tunnels, or vessels unless the confined space is well ventilated and the contaminant concentrations are below the maximum use recommended for this respirator. In addition, follow all procedures for confined space entry, operation and exit, as defined in applicable regulations and standards, including but not limited to 29 CFR 1910.146 and 29 CFR 1910.134.
17) Historically, the incidence of disease from overexposure to toxic substances almost always occurs because the OSHA regulations and industry standards applicable to the work practices involved are not followed. It is, therefore, imperative that the employer understand and follow all of these standards and regulations.

REMEMBER:

- Respiratory protection is but one component of safe work practices. To minimize the chances of overexposure, all safety regulations and standards must be followed; and,
- Respiratory protection is the last line of defense to be employed. The employer must first eliminate or minimize the levels of toxic substances in the work place by accepted engineering control measures. Assuming the employer and the wearer do their part, this respirator should provide the wearer with an adequate degree of protection (up to the stated protection factor of the respirator).

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

MODEL GVX SERIES with F30 SERIES FLOW CONTROL DEVICES

TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR
THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

12/3/18

TC-	PROTECTION[1]	MODEL	HOOD	ALTERNATE BREATHING TUBES			ALTERNATE CAPES														
		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	28VX	28ORVX	48VX	4816VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX
19C-0498	SA/SB/CF	GVX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE FLOW CONTROL DEVICES												ALTERNATE AIRLINE HOSES																			
	F30	F30B	F30S	F31	F32	F33	F34	F35	F35B	F35S	F37	F38	54515	54514	54513	54512	54511	54510	5454	5457	5458	46919	46918	46917	46915	46913	4696	469650	4696100	46916	V2050ST	V20100ST
19C-0498	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE FITTINGS															ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORIES						CAUTIONS AND LIMITATIONS
	V11	V12	V13	V14	V18	V19	V19B	V37	V38	V17	S19432	S19442	S19443	3902	S19448	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTRC	HEADSET-XXXX	
19C-0498	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ABCDEJMNOS

Column group heading over HOOD through ACCESSORIES: RESPIRATOR COMPONENTS

1. PROTECTION

SB=Supplied-Air Abrasive Blast

CF=Continuous Flow

SA=Supplied-air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

MODEL GVX SERIES with F40 SERIES FLOW CONTROL DEVICES

TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR
THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

12/3/18

TC-	PROTECTION[1]	MODEL	HOOD	ALTERNATE BREATHING TUBES			CAUTIONS AND LIMITATIONS[2]
		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	
19C-0489	SA/SB/CF	GVX	X	X	X	X	ABCDEJMNOS

RESPIRATOR COMPONENTS

TC-	ALTERNATE CAPES														
	28VX	28ORVX	46VX	4616VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX
19C-0489	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE FLOW CONTROL DEVICES								
	F40	F40B	F40S	F41	F42	F43	F44	F47	F48
19C-0489	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE HOSES																	
	54515	54514	54513	54512	54511	54510	5454	5457	5458	46919	46918	46917	46915	46913	4696	469650	4696100	46916
19C-0489	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE FITTINGS														
	V11	V12	V13	V14	V18	V19	V19B	V37	V38	V17	S19432	S19442	S19443	3902	S19448
19C-0489	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORIES					
	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTRC	HEADSET-XXXX
19C-0489	X	X	X	X	X	X	X	X	X	X	X	X	X	X

1. PROTECTION

SB=Supplied-Air Abrasive Blast

CF=Continuous Flow

SA=Supplied-air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

Approval Label

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

DEPARTMENT OF HEALTH & HUMAN SERVICES · USA

NIOSH® National Institute for Occupational Safety and Health

MODEL GVX SERIES with AC1000 SERIES FLOW CONTROL DEVICES

TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR

THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

12/3/18

	PROTECTION[1]	MODEL	RESPIRATOR COMPONENTS: HOOD	ALTERNATE BREATHING TUBES			ALTERNATE CAPES														
TC-		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	28VX	28ORVX	46VX	4616VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX
19C-0491	SA/SB/CF	GVX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	ALTERNATE FLOW CONTROL DEVICES									ALTERNATE AIRLINE HOSES																	
TC-	AC100030	AC100030B	AC100030S	AC100031	AC100032	AC100033	AC100034	AC100037	AC100038	54515	54514	54513	54512	54511	54510	5454	5457	5458	46919	46918	46917	46915	46913	4696	469650	4696100	46916
19C-0491	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	ALTERNATE AIRLINE FITTINGS															ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORIES						CAUTIONS AND LIMITATIONS
TC-	V11	V12	V13	V14	V18	V19	V19B	V37	V38	V17	S19432	S19442	S19443	3902	S19448	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTRC	HEADSET-XXXX	
19C-0491	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ABCDEJMNOS

1. PROTECTION

CF=Continuous Flow

SB=Supplied - Air Abrasive Blast

SA=Supplied - Air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

MODEL GVX SERIES with HC2400 SERIES FLOW CONTROL DEVICES

TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR
THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

12/3/18

RESPIRATOR COMPONENTS

TC-	PROTECTION[1]	MODEL	HOOD	ALTERNATE BREATHING TUBES			CAUTIONS AND LIMITATIONS
		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	
19C-0492	SA/SB/CF	GVX	X	X	X	X	ABCDEJMNOS

TC-	ALTERNATE CAPES														
	28VX	28ORVX	46VX	4616VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX
19C-0492	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE FLOW CONTROL DEVICES								
	HC240030	HC240030B	HC240030S	HC240031	HC240032	HC240033	HC240034	HC240037	HC240038
19C-0492	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE HOSES																	
	54515	54514	54513	54512	54511	54510	5454	5457	5458	46919	46918	46917	46915	46913	4696	469650	4696100	46916
19C-0492	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE FITTINGS														
	V11	V12	V13	V14	V18	V19	V19B	V37	V38	V17	S19432	S19442	S19443	3902	S19448
19C-0492	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORIES					
	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTRC	HEADSET-XXXX
19C-0492	X	X	X	X	X	X	X	X	X	X	X	X	X	X

1. PROTECTION

SB=Supplied-Air Abrasive Blast

CF=Continuous Flow

SA=Supplied-air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

MODEL GVX SERIES with FRIGITRON 2000 SERIES FLOW CONTROL DEVICES

TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR
THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

12/3/18			RESPIRATOR COMPONENTS																																						
	PROTECTION[1]	MODEL	HOOD	ALTERNATE BREATHING TUBES			ALTERNATE CAPES															ALTERNATE FLOW CONTROL DEVICES			ALTERNATE AIRLINE HOSES		ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORIES						CAUTIONS AND LIMITATIONS[2]
TC-		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	28VX	28ORVX	46VX	4616VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX	FRIGITRON2000	FRIGITRON2000B	FRIGITRON2000S	V2050ST	V20100ST	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTC	HEADSET-XXXX	
19C-0493	SA/SB/CF	GVX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ABCDEJMNOS

1. PROTECTION

CF=Continuous Flow

SB=Supplied - Air Abrasive Blast

SA=Supplied - Air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

E.D. BULLARD CO.
1898 Safety Way
CYNTHIANA, KY 41031 USA
877-BULLARD (285-5273)

MODEL GVX SERIES with DC5040 SERIES FLOW CONTROL DEVICES
TYPE CE CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR
THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

7/9/21

RESPIRATOR COMPONENTS

TC-	PROTECTION[1]	MODEL	HOOD	ALTERNATE BREATHING TUBES			ALTERNATE CAPES														
		GVX SERIES RESPIRATOR	GVX-XXX	GVXBT	GVXBTS	88VXBTA	28VX	28ORVX	46VX	4616VX	38VX	38ORVX	13VX	1316VX	GGVX	21821	21VX	PKVX	PKXLVX	36VX	36XLVX
19C-0494	SA/SB/CF	GVX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE FLOW CONTROL DEVICES									ALTERNATE AIRLINE HOSES																	
	DC5040	DC5040B	DC5040S	DC5041	DC5042	DC5043	DC5044	DC5047	DC5048	54515	54514	54513	54512	54511	54510	5454	5457	5458	46919	46918	46917	46915	46913	4696	469650	4696100	46916
19C-0494	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TC-	ALTERNATE AIRLINE FITTINGS															ALTERNATE LENSES						ALTERNATE BELTS		ACCESSORES									CAUTIONS AND LIMITATIONS
	V11	V12	V13	V14	V18	V19	V19B	V37	V38	V17	S19432	S19442	S19443	3902	S19448	GVXOLT	GVXOLG	GVXOL40	GVXOL15	GVXLC	GVXPLC	36501	4612	GVXCS	20NC	GVXCP	GVXRTCP	GVXRTRC	DC70ML	DC70XLXXL	DC705X	HEADSET-XXXX	
19C-0494	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ABCDEJMNOS

1. PROTECTION

CF=Continuous Flow

SB=Supplied - Air Abrasive Blast

SA=Supplied - Air

2. 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 concentrations 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 specified by the manufacturer.

O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User Instructions before donning.

Component Concept

The Bullard GVX Series airline respirators consist of five components (**Figure 1**)

All components must be present and properly assembled to constitute a complete NIOSH approved respirator.

❶ Helmet

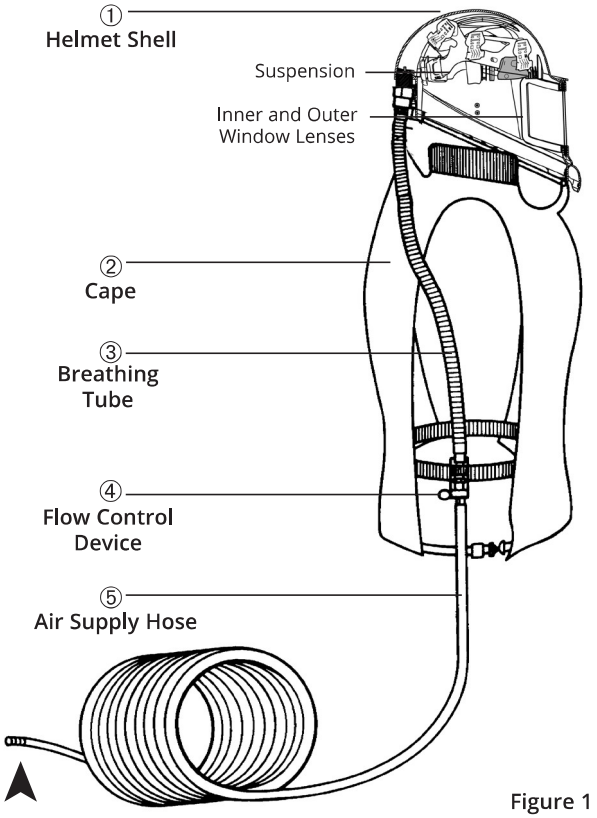


Figure 1

Grade "D" or Higher Air Quality must be provided

* See Parts & Accessories for all part numbers and product descriptions

❷ Capes

	With 3rd Hand Tab Assist	Without 3rd Hand Tab Assist
Poncho Style	28VX/38VX	46VX/13VX
"Golden Gate" Cap Sleeve	GGVX	21VX/21821
Long Sleeve Hibernia Parka	PKVX/PKXLVX	36VX/36XLVX

❸ Breathing Tubes

Standard	Small	88VX
GVXBT	GVXBTS	88VXBTA

❹ Flow Control Devices*

Without Climate Control		With Climate Control	
Constant F30 Series	Adjustable F40 Series	Cool Only AC1000 Frigitron DC5040	Heat/Cool HC2400

❺ Air Supply Hose Series*

High Pressure Compressed Air Source	Low Pressure Compressed Air (Ambient Air/Free Air Pump)
V10 3/8" ID	V20 1/2" ID

⚠ WARNING

1. This respirator, when properly fitted and used, in conjunction with adherence to OSHA regulations and industry standards, will provide the stated protection to the wearer. The respirator significantly reduces, but may not totally eliminate, the breathing of contaminants depending on the work practices involved. Where concentrations of contaminants are excessive (greater than the APF), respirator wearers may obtain a higher level of protection from a valve-operated, pressure demand airline respirator or a pressure demand, self contained breathing apparatus (SCBA) respirator. At this time there are no side by side field studies for comparison. However, OSHA does assign higher protection factors to these groups of respirators. The employer should measure concentrations inside the breathing zone on a periodic basis to ensure that the wearer is receiving adequate protection.
2. Before using this respirator, Federal Law requires that the employer shall identify and evaluate the respiratory hazard(s) in the workplace, and that this evaluation shall include a reasonable estimate of employee exposures to respiratory hazard(s) and an identification of the contaminant's chemical state and physical form. Do not exceed maximum use concentrations established by OSHA, EPA, NIOSH, ACGIH, or other regulatory standards.
3. Improper respirator use may damage your health and/or cause your death. Improper use may also cause certain life-threatening delayed lung diseases including but not limited to silicosis, pneumoconiosis, or asbestosis.
4. DO NOT wear this respirator if any of the following conditions exist:

   - Atmosphere is immediately dangerous to your life or health (IDLH),
   - You CANNOT escape without the aid of the respirator,
   - Atmosphere contains less than 19.5% oxygen,
   - Work area is poorly ventilated,
   - Unknown contaminants are present, or
   - Contaminant concentrations are in excess of regulations or recommendations (as described in item 2 above).
5. DO NOT wear this respirator until you have passed a complete medical evaluation including a lung x-ray conducted by qualified medical personnel, and have been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who has extensive knowledge of Bullard GVX Series respirators.
6. DO NOT modify or alter this respirator in any manner. Use only GVX Series components and replacement parts manufactured by Bullard for use with this respirator.

   Failure to use Bullard components and replacement parts such as lenses, hoses, flow control devices, capes, and climate control devices, voids NIOSH approval of the entire respirator, invalidates all Bullard warranties, and could cause death, serious injury, delayed lung disease, or exposure to other hazardous or life-threatening conditions including but not limited to silicosis, pneumoconiosis, or asbestosis.
7. Inspect all components of this respirator system daily for signs of wear, tear, or damage that might reduce the degree of protection originally provided.

   Immediately replace worn or damaged components with Bullard GVX Series components or remove the respirator from service. (See INSPECTION, CLEANING, AND STORAGE section for proper maintenance of GVX Series respirators.)
8. Be certain your employer has determined that the breathing air source provides at least Grade D breathable air. This respirator must be supplied with at least Grade D breathable air at all times.
9. Do not connect the respirator's air supply hose to nitrogen, oxygen, toxic gases, inert gases, or other unbreathable, non-Grade D air sources. To prevent this, the employer shall use airline couplings used for this respirator that shall be incompatible with outlets for other gas systems, as required by OSHA regulation 29 CFR 1910.134 (i) (8). Check the air source before using the respirator. Failure to connect to the proper air source could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.
10. Do not use this respirator in poorly ventilated areas or confined spaces such as tanks, small rooms, tunnels, or vessels unless the confined space is well ventilated and the contaminant concentrations are below the upper limit recommended for this respirator. In addition, follow all procedures for confined space entry, operation and exit as defined in applicable regulations and standards, including OSHA regulation 29 CFR 1910.146.
11. If you have any questions concerning the use of this respirator, or if you are not sure whether the atmosphere you are working in is immediately dangerous to life or health (IDLH), ask your employer. All instructions for the use and care of this product must be supplied to you by your employer as recommended by the manufacturer and as required by Federal Law (29 CFR 1910.134).
12. Do not use this respirator for underwater diving.
13. Leave work area immediately if:
    -Any respirator component becomes damaged.
    -Airflow into respirator stops or slows down.
    -Air pressure gauge drops below the minimum specified in the Supplied Air Pressure Table in the GVX Series User Manual.
    -Breathing becomes difficult.
    -You become dizzy, nauseous, too hot, too cold, or ill.
    -You taste, smell, or see contaminants inside the respirator hood.
    -Your vision becomes impaired.

(Continued on Page 12)

(Continued from Page 11)

⚠ WARNING

14. Historically, the incidence of disease from overexposure to toxic substances almost always occurs because the OSHA regulations and industry standards applicable to the work practices involved are not followed. It is, therefore, imperative that the employer acquaint itself with and follow all of these standards and regulations. REMEMBER:
-Respiratory protection is but one component of safe work practices. To minimize the chances of overexposure, all safety regulations and standards must be followed; and
-Respiratory protection is the last line of defense to be employed. The employer must first eliminate or minimize the levels of toxic substances in the work place by accepted engineering control measures. Assuming the employer and the wearer do their part, this respirator should provide the wearer with the stated protection.

Operations Protection

Respiratory
This respirator is NIOSH approved (TC-19C-0489, TC-19C-0491, TC-19C-0492, TC-19C-0493, TC-19C-0494 and TC-19C-0498) as a Type C and CE respirator. It can be worn for general purpose applications, including abrasive blasting and spray painting.

This respirator is NOT approved for use in any atmosphere immediately dangerous to life or health (IDLH), or from which the wearer cannot escape without the aid of the respirator.

Head
GVX Series respirators meet ANSI Standard Z89.1 Type 1 Class C requirements for protective headwear for industrial workers. The helmet is designed to provide limited head protection by reducing the force of falling objects striking the top of the helmet.

Face

The tandem use of the respirator's inner and outer windows meet ANSI Z87.1 (High impact plus Z87 + Face Protection) requirements for face protection. The use of both windows provide limited face protection from flying particles or spray of hazardous liquids, but is not shatterproof. There is no need to apply Anti-Fog to these lenses.

Eyes
GVX Series respirators DO NOT provide eye protection. Wear approved safety glasses or goggles at all times.

Ears
GVX Series respirators DO NOT provide hearing protection. Use properly fitted earmuffs, earplugs or other protection when exposed to high noise levels.

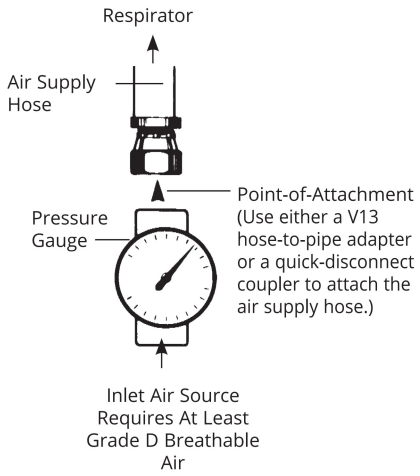
Breathing Air Requirements

Air Quality
At least Grade D breathable air must be supplied to the point-of-attachment of the approved Bullard air supply hose. The point-of-attachment is the point at which the air supply hose connects to the air source. A pressure gauge attached to the air source is used to monitor the pressure of air provided to the respirator wearer at the point of attachment. (Figure 1 below and Figure 2, Page 16).

Supplied breathing air must AT LEAST meet the requirements for Grade "D", or higher quality air, as described in the Compressed Gas Association Commodity Specification G-7.1 and as specified by Federal Law 42 CFR, Part 84, Subpart J, 84.141(b) and 29 CFR 1910.134(i).

⚠ WARNING

This respirator MUST be supplied with at least Grade D breathable air AT ALL TIMES. This respirator does NOT purify air or filter out contaminants. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS INJURY, including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.



Point of Attachment (P.O.A.)
Figure 1

The requirements for Grade D breathable air include:

Oxygen 19.5-23.5%
Hydrocarbons (condensed)
in mg/m3 ..... 5 mg/m3 max.
Carbon monoxide..... 10 ppm max.
Carbon dioxide..... 1,000 ppm max.
Odor..... Lack of noticeable odor
No toxic contaminants at levels that make the air unsafe to breathe.

Contact the Compressed Gas Association (WWW.CGANET.COM) for complete details on Commodity Specification G-7.1.

Air Source

Locate the source of supplied air whether it is an air compressor or an ambient air pump in a clean air environment with at least Grade D breathable air. Locate the air source far enough from your work site to ensure the air remains contaminant-free. Always use an inlet filter on your air source.

Use suitable after-cooler/dryers, filters, carbon monoxide monitors and alarms as added protection to help provide cleaner air.

The air supplied to the respirator should be regularly sampled to be sure that it meets Grade D requirements.

Air Pressure

Air pressure must be continually monitored at the point-of-attachment while operating this respirator. A reliable air pressure gauge MUST be present to permit you to continually monitor the pressure during actual respirator operation.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length and type will reduce airflow and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

The Supplied Air Pressure Table (Pages 14-15) defines the air pressure ranges necessary to provide GVX Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm (Ref. 42 CFR, Part 84, Subpart J, Table 8).

Make sure you understand the information in the Supplied Air Pressure Table before using this respirator.

1. Determine the type of air source you are using, then find your flow control valve/climate control device (columns 1, 2, 3, and 4).
2. Be sure your Bullard air supply hose(s) is approved for use with your flow control valve/climate control device.
3. Determine that your Bullard air supply hose is within the maximum approved length in total feet of hose.
4. Make sure you have not exceeded the maximum number of hose sections shown in each column.
5. Set the air pressure at the point-of-attachment within the required pressure range for your flow control valve/climate control device, and air supply hose type and length. Accurate pressure readings can only be attained when air is flowing into the respirator.

Bullard air supply hose(s) MUST be used between the breathing tube connection fitting on the wearer's belt and the point-of-attachment to the air supply (Figure 2, Page 16).

Bullard quick-disconnect fittings MUST be used to connect V20 hose lengths together. When connecting lengths of V10 hose, only use Bullard V11 hose-to-hose adapters. Secure connection(s) until wrenchtight and leakfree. Total connected hose length and number of hose sections MUST be within the ranges specified on the Supplied Air Pressure Table (Pages 14-15) and the respirator's NIOSH approval label (Page 4-9).

The breathing tube connection fitting MUST be secured to the belt that is supplied with this respirator. Securing the air entry connection fitting helps prevent the air supply hose from snagging, disconnecting or pulling the respirator helmet off your head.

! ATTENTION !

Supplied Air Pressure Tables are separated into a V10 Hose Table and a V20 Hose Table.
V10 Airline Supply Hoses are defined as "High Pressure Compressed Air - 15 psig to 125 psig".
High Pressure Compressed Air is supplied by Standard Industrial Air Compressors with the appropriate OSHA safeguards of CO Alarms, Air Dryers, and Air Filters to supply air to this type of Respirator System.
V20 Airline Supply Hoses are defined as "Low Pressure Compressed Air - 0 psig to 30 psig".
Low Pressure Compressed Air has been referred to as "Ambient Air / Free Air Pump compressed air. If using this type of Free Air Pump compressed air, then the pressure ranges shown in the V20 Airline Hose Table will have to be met at the "Point of Attachment" (POA) in order to supply air to this type of Respirator System. (Note: If the pressure ranges can not be achieved at the POA using a Free Air Pump system, then the respirator system is not considered an "Approved" Niosh Certified system.)
Regardless of the source of the supply air, the Supplied Air Pressure Tables, when used correctly, show the required "pressure range" needed to supply the required air flow to this Respirator System.

Special or Critical User's Instructions

The GVX Series Air Pressure Table defines the air pressure ranges necessary to provide GVX Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm (42 CFR, Part 84, Subpart J, Table 8).

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length and GVX respirator type will reduce airflow and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

To use the table and identify the proper air flow range; 1) select the air source (High Pressure Compressed Air or Low Pressure Compressed Air, such as an Ambient Air / Free Air Pump Source), 2) the usage mode, 3) the exact part number of the flow control device; and 4) the length of the air supply hose, and the max number of hose sections that are approved. Only use or select a configuration that is specified and has a pressure range provided.

GVX Series Respirator Supplied Air Pressure Tables

V10 Hose							
Air Source	Usage	Flow Control Device Part Number	Coupling Design	25' Max. Length Permitted (1 Hose Length Section Max.)	50' Max. Length Permitted (2 Hose Length Sections Max.)	75' Max. Length Permitted (3 Hose Length Sections Max.)	100' Max. Length Permitted (3 Hose Length Sections Max.)
High Pressure Compressed Air	Constant Flow	F30/F30B/F30S	Ind. Interchange	19 - 25	22 - 29	25 - 32	27 - 33
		F31	Schrader	17 - 23	20 - 26	23 - 30	25 - 32
		F32/F33/F34	Snap-Tite	14 - 20	18 - 23	21 - 27	23 - 29
		F37	CEJN	10 - 13	14 - 17	18 - 21	19 - 24
		F38	Bayonet	23 - 30	25 - 32	28 - 36	30 - 37
	Adjustable Flow	F40/F40B/F40S	Ind. Interchange	26 - 30	29 - 33	32 - 35	33 - 37
		F41	Schrader	26 - 30	29 - 32	31 - 35	33 - 38
		F42/F43/F44	Snap-Tite	25 - 26	28 - 30	30 - 32	31 - 35
		F47	CEJN	21 - 22	24 - 25	26 - 28	28 - 31
		F48	Bayonet	30 - 37	33 - 39	35 - 42	36 - 43
	Cooling Mode	AC100030/AC100030B/AC100030S	Ind. Interchange	72 - 72	73 - 73	74 - 75	75 - 76
		AC100031	Schrader	69 - 71	71 - 72	73 - 74	74 - 76
		AC100032/AC100033/AC100034	Snap-Tite	67 - 69	70 - 71	71 - 72	73 - 73
		AC100037	CEJN	65 - 66	67 - 68	69 - 69	70 - 70
		AC100038	Bayonet	70 - 72	72 - 73	74 - 75	75 - 76
		DC5040/DC5040B/DC5040S	Ind. Interchange	58 - 64	63 - 67	68 - 72	71 - 75
		DC5041	Schrader	58 - 68	63 - 73	67 - 78	71 - 81
		DC5042/DC5043/DC5044	Snap-Tite	53 - 63	58 - 68	63 - 73	67 - 76
		DC5047	CEJN	41 - 50	47 - 56	53 - 62	57 - 65
		DC5048	Bayonet	65 - 73	70 - 77	74 - 81	77 - 84
		HC240030/HC240030B/HC240030S	Ind. Interchange	68 - 68	71 - 71	73 - 73	75- 75
		HC240031	Schrader	69 - 69	72 - 72	75 - 75	77 - 77
		HC240032/HC240033/HC240034	Snap-Tite	68 - 68	71 - 71	74 - 74	75 - 75
		HC240037	CEJN	61 - 61	65 - 65	67 - 67	69 - 69
		HC240038	Bayonet	73 - 73	75 - 75	78 - 78	80 - 80
	Heating Mode	HC240030/HC240030B/HC240030S	Ind. Interchange	74 - 77	79 - 79	79 - 81	82 - 83
		HC240031	Schrader	73 - 75	76 - 76	78 - 78	81 - 82
		HC240032/HC240033/HC240034	Snap-Tite	71 - 74	74 - 76	76 - 78	78 - 80
		HC240037	CEJN	67 - 69	70 - 74	73 - 75	74 - 76
		HC240038	Bayonet	79 - 80	82 - 83	85 - 85	87 - 87

Special or Critical User's Instructions (Continued)

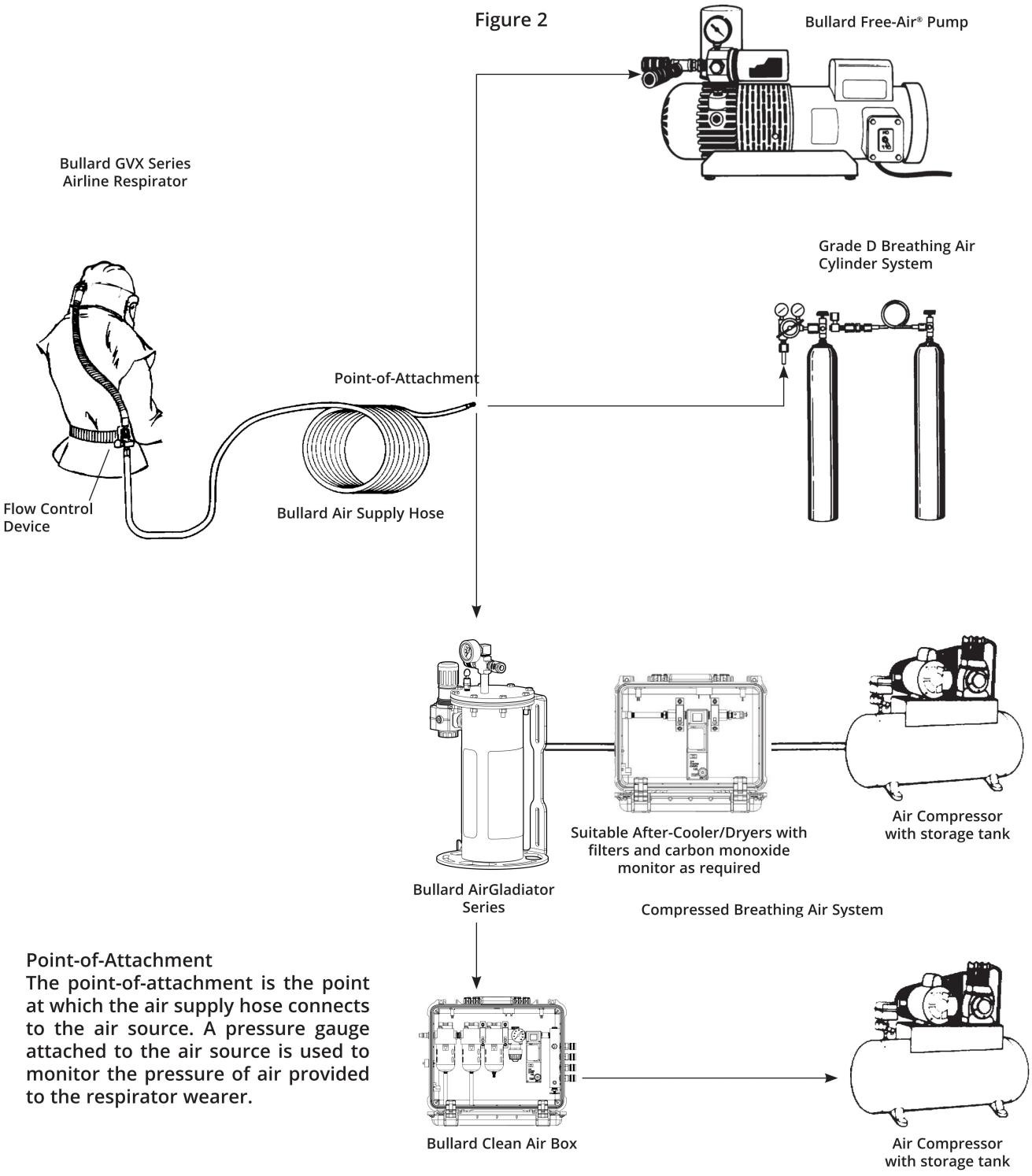
GVX Series Respirator Supplied Air Pressure Tables

V10 Hose							
Air Source	Usage	Flow Control Device Part Number	Coupling Design	150' Max. Length Permitted (3 Hose Length Sections Max.)	200' Max. Length Permitted (5 Hose Length Sections Max.)	250' Max. Length Permitted (5 Hose Length Sections Max.)	300' Max. Length Permitted (5 Hose Length Sections Max.)
High Pressure Compressed Air	Constant Flow	F30/F30B/F30S	Ind. Interchange	31 -39	34 - 47	40 - 46	43 - 56
		F31	Schrader	30 - 37	33 - 46	38 - 45	42 - 55
		F32/F33/F34	Snap-Tite	28 - 35	32 - 43	37 - 43	41 - 54
		F37	CEJN	25 - 30	29 - 39	34 - 39	38 - 50
		F38	Bayonet	34 - 43	37 - 51	42 - 50	45 - 58
	Adjustable Flow	F40/F40B/F40S	Ind. Interchange	37 - 42	39 - 50	44 - 49	48 - 59
		F41	Schrader	37 - 42	40 - 50	44 - 50	47 - 59
		F42/F43/F44	Snap-Tite	35 - 40	38 - 48	43 - 47	46 - 56
		F47	CEJN	33 - 36	36 - 45	41 - 45	43 - 54
		F48	Bayonet	41 - 48	43 - 55	48 - 55	50 - 62
	Cooling Mode	AC100030/AC100030B/AC100030S	Ind. Interchange	78 - 80	81 - 85	86 - 86	89 - 91
		AC100031	Schrader	78 - 79	80 - 80	84 - 84	88 - 91
		AC100032/AC100033/AC100034	Snap-Tite	76 - 77	79 - 82	83 - 83	86 - 89
		AC100037	CEJN	74 - 74	77 - 80	82 - 82	83 - 86
		AC100038	Bayonet	78 - 80	82 - 85	86 - 86	89 - 90
		DC5040/DC5040B/DC5040S	Ind. Interchange	77 - 82	84 - 90	90 - 97	94 - 101
		DC5041	Schrader	76 - 88	83 - 97	90 - 103	93 - 109
		DC5042/DC5043/DC5044	Snap-Tite	74 - 84	81 - 94	87 - 101	92 - 106
		DC5047	CEJN	64 - 74	72 - 84	77 - 90	81 - 96
		DC5048	Bayonet	85 - 90	90 - 99	98 - 106	98 - 109
		HC240030/HC240030B/HC240030S	Ind. Interchange	80 - 80	83 - 86	89 - 89	93 - 96
		HC240031	Schrader	82 - 82	85 - 85	91 - 91	95 - 95
		HC240032/HC240033/HC240034	Snap-Tite	80 - 80	84 - 85	90 - 90	94 - 94
		HC240037	CEJN	75 - 75	79 - 80	86 - 86	88 - 89
		HC240038	Bayonet	85 - 85	87 - 89	94 - 94	98 - 98
	Heating Mode	HC240030/HC240030B/HC240030S	Ind. Interchange	87 - 87	90 - 94	96 - 96	101 - 104
		HC240031	Schrader	86 - 86	89 - 89	95 - 95	99 - 102
		HC240032/HC240033/HC240034	Snap-Tite	83 - 84	87 - 92	92 - 92	97 - 101
		HC240037	CEJN	80 - 82	85 - 89	91 - 91	93 - 97
		HC240038	Bayonet	92 - 92	94 - 98	101 - 101	105 - 105

V20 Hose											
Low Pressure Compressed Air (Ambient Air / Free Air Pump)	Usage	Part Number		25'	50' Max 1 Hose Length	75'	100' Max 1 Hose Length	150'	200' Max 2 Hose Lengths	250'	300' Max 3 Hose Lengths
	Constant Flow	F35/F35B/F35S	Ind. Interchange		7 - 10		11 - 13		14 - 18		18 - 23
	Cooling	FRIGITRON2000/ FRIGITRON2000B/FRI-GITRON2000S	Ind. Interchange		22 - 24		25 - 26		28 - 30		32 - 34

Typical Supplied Air Source and Respirator Configurations

Figure 2



Point-of-Attachment
The point-of-attachment is the point at which the air supply hose connects to the air source. A pressure gauge attached to the air source is used to monitor the pressure of air provided to the respirator wearer.

Respirator Assembly

⚠ WARNING

All assembly, maintenance and repairs to the respirator must be performed in a contaminant free area that has Grade D breathable air.

Before assembling this respirator, read the warning labels on the inside of the respirator cape and the helmet shell and this manual in full.

Remove and read the warning card inserted between the respirator's two lenses.

Sizing the Headband

Before you can size the headband suspension, the cape must be removed from the helmet using the following steps:

1. Open hinged window frame by lifting up on window latch.
2. Remove cape from helmet by lifting up on clamp and disengaging cape from helmet groove (Figure 3).
3. Adjust the suspension size: Flex-Gear® Ratchet-style suspension: Turn ratchet knob counter clockwise until headband opens to largest size. Place helmet on head and turn ratchet knob clockwise until it fits comfortably. DO NOT OVERTIGHTEN (Figure 4).
4. Remove from your head and replace the cape according to Bullard's instructions.

Adjust Crown Straps for Vertical Fit

To improve suspension comfort, adjust crown straps vertically by repositioning the crown strap posts in the crown straps. Vertical adjustment makes the headband ride higher or lower on the wearer's head. To adjust, push crown strap post from slot, move to new slot, and snap in to secure. Move key to desired vertical position. Repeat for other crown strap post (Figure 5).

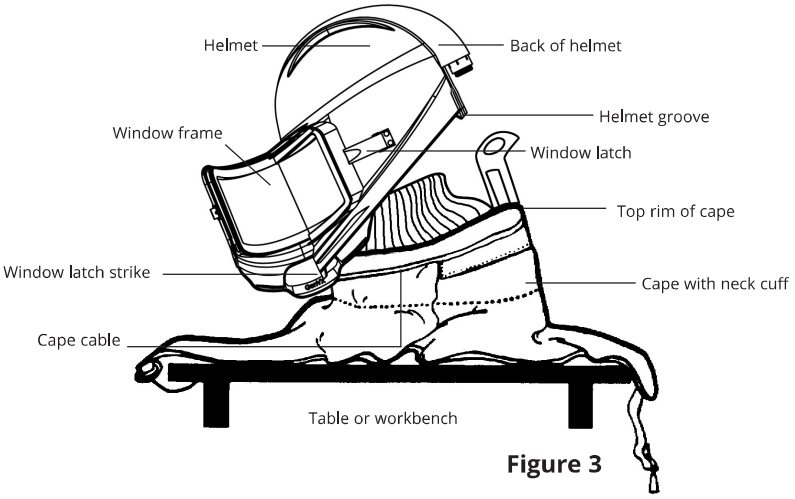


Figure 3

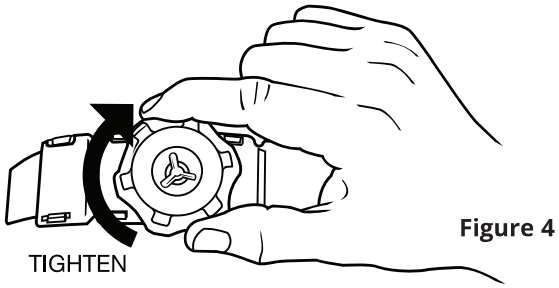


Figure 4

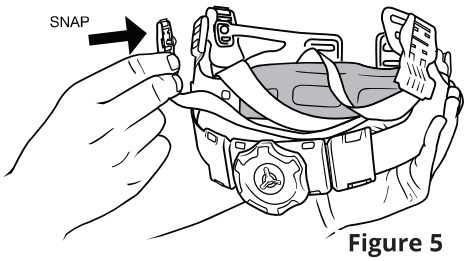


Figure 5

Installing Headband into Helmet

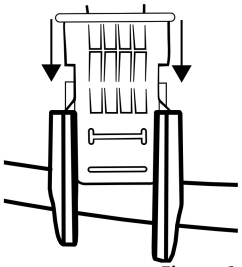


Figure 6

1. Turn helmet and headband suspension upside down.
2. Place headband inside helmet with brow pad facing front of shell.
3. Insert keys into respective key slots. Push firmly until keys snap into place (Figure 6).

Using the GVXCS Chin Strap

1. Attach chin strap to headband by sliding chin strap keyway slot over plastic head on button inside the inner shell. Refer to GVXCS chin strap installation instructions.
2. Put helmet on your head. Adjust chin strap length with the plastic slide.

Optional Cheek Pad Assembly

1. Remove plastic from the Velcro attached to the cheek pad. Apply to the helmet. Press firmly, holding pad in place to ensure a secure placement (Figure 7).

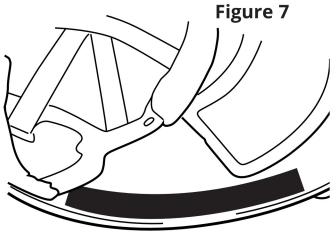


Figure 7

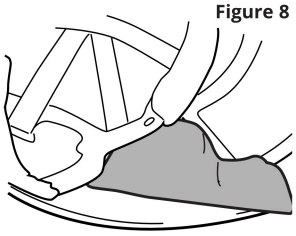


Figure 8

2. Repeat steps for the opposite side.

Attaching Cape to Helmet

1. Place cape on table or workbench.
2. With window frame open, place helmet on top of cape.
3. If cape has 3rd Hard tab assist, line up plastic tab on the cape over the breathing tube connection (Figure 9). Otherwise align clasp mechanism to front center of the helmet.

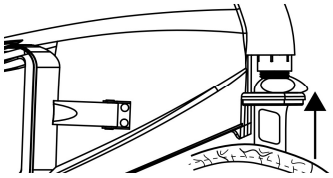


Figure 9

NOTE

Installation must begin with tab in the back of the helmet.

4. Ease cape rim completely into the groove along helmet edge, working your way to the front. Be certain cape is completely in place at every point along helmet's bottom edge.
5. Snap the clamp to tighten cable and hold cape snugly on helmet, while ensuring the cape stays in the groove. Latch should be centered in the front, below the chinguard (Figure 10).

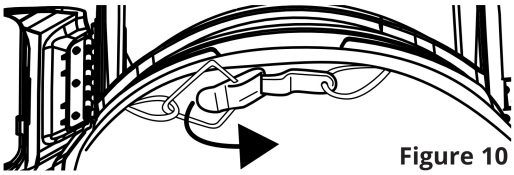


Figure 10

6. Close and latch window frame.
7. Pull quickly and forcefully on the cape to ensure proper assembly.

Installing Breathing Tube Assembly onto Respirator Helmet

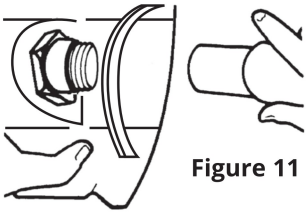


Figure 11

1. Connect breathing tube assembly to helmet by screwing gray hose connector to fitting located on the rear of the helmet. Turn clockwise to tighten (Figure 11).
2. On the opposite end of the breathing tube is a black threaded knob that has a Red Washer inside and is used to connect the Flow Device to the breathing tube.

NOTE

If the red washer is missing or worn on the end of the breathing tube which connects to the flow control device, replace with GVXBTW before using.

Using Climate Control Devices as Flow Controls for GVX Series Supplied-Air Respirators

GVX Series Supplied-Air Respirators are approved for use by NIOSH with four optional Bullard climate control devices: AC1000 Series, HC2400 Series, DC5040 Series and Frigitron 2000 Series. These devices are considered flow controls, have belts for point-of-body attachment, and provide cool and/or warm air to the user.

1. Follow the instructions supplied with the climate control device.
2. Screw black nylon hose connector on end of breathing tube to hose thread on climate control device.

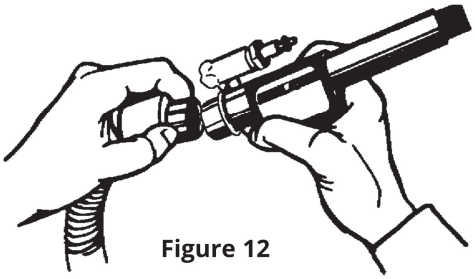


Figure 12

NOTE

A red washer must be inside the black hose connector.

3. Firmly tighten black hose connector by hand (see Figure 12).
4. Lace belt and/or heat shield through belt loop bracket on climate control device.

Replacing Inner Lenses

To replace the inner lens, first remove the old lens. Place helmet upside down in your lap. From the inside of the helmet, push the lens outward while pressing the black gasket with your other hand. Once loosened, remove the lens. Next, remove protective film from the new lens. With the helmet in your lap, align the lens in the corner of the gasket nearest the window hinge until it is secured. Work the lens into the gasket, adjusting the top and bottom placement evenly until it is completely attached. **(Fig 14)**

Figure 14

Replacing the Outer Lens

With use, the outer lens may become abraded or worn. To replace the lens, first removed the old lens. Insert up to five 0.015" lenses or two 0.040" lens by sliding them into the upper and lower ledges on the inside of the door frame. If using the perforated tear away lenses, the pull tabs should be inserted so they can be grabbed from the outside of the helmet with the door latched closed. **(Fig 15)**

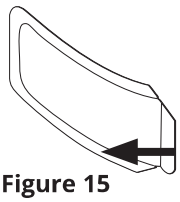


Figure 15

Using the 88VX Breathing Tube Adapter (Optional)

If upgrading from the Bullard 88VX respirator system to the GVX respirator system you can continue to use your supply of 88VX breathing tubes by attaching an 88BTA adapter to the helmet end of the 88VXBT breathing tube to create an 88VXBTA breathing tube.

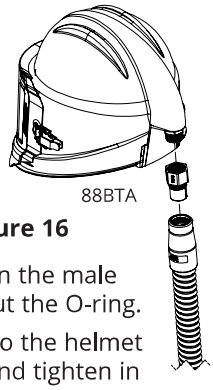


Figure 16

1) Ensure the rubber O-ring is in place on the male end of the adapter. Do not use without the O-ring.
2) Insert the male end of the adapter into the helmet end of the 88VXBT breathing tube, hand tighten in place.
3) Align the female end of the adapter with breathing tube attached over the threaded breathing tube connection on the back of the GVX helmet and hand tighten. **(Fig 16)**
4) To remove the breathing tube from the helmet or the adapter, reverse the steps above

GVX Deluxe Suspension Padding (Optional)

The GVX respirator helmet's ratchet suspension can be used with padding options for additional wearer comfort. These pads are secured by an easy to install and remove hook and loop fastener system to allow washing, replacement and adjustments. The padding can be installed and removed with the suspension secured in place in the helmet or before installing the suspension in the helmet – illustrations are outside of the helmet for visual purposes only.

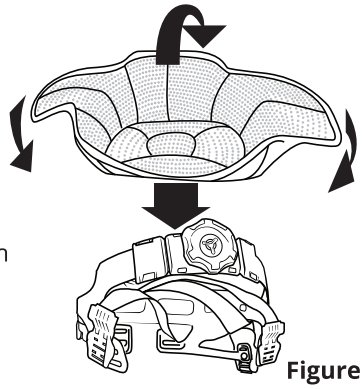


Figure 17

GVXRTCP Crown Pad **(Fig 17)**

1) Remove the brow pad from the suspension.
2) Align the crown pad with the low end centered to the ratchet handle and place into the suspension with the mesh side facing towards the users head.
3) Fold each ear-side flap over the suspension band and secure the fasteners to the outside material of the pad.
4) Fold the front-side flap over the suspension band and secure the fasteners to the outside material of the pad.

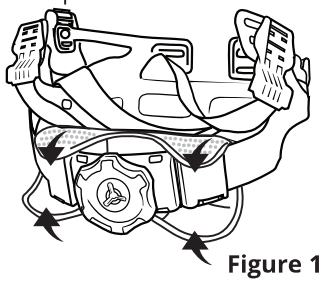


Figure 18

GVXRTRC Ratchet Cover **(Fig 18)**

1) Align the butterfly shaped pad on the inside of the suspension opposite of the ratchet handle.
2) Wrap the wing edges from the top and bottom over the suspension band adhering them together with the hook and loop fasteners.
3) The ratchet handle should still be accessible for easy adjustment.

GVX Respirator Use

⚠ WARNING

Do not put on or remove this respirator in a hazardous atmosphere or any environment that does not contain at least Grade D breathable air, except for emergency escape purposes. Failure to follow this warning could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Donning

Before using your GVX Series respirator, complete the assembly instructions given on pages 17-19. Before putting on respirator, make sure there is no dirt, dust, or contaminants inside the helmet.

1. Connect the Bullard air supply hose that is part of the NIOSH approved system to the air source supplying Grade D breathing air. Turn on the breathing air source.
2. With air flowing, connect breathing tube assembly to air supply hose. Connect quick-disconnect fitting on breathing tube assembly to quick-disconnect coupler on air supply hose. Once fitting is secured, release coupling sleeve to lock fittings together. Pull on both hoses to make sure they are attached securely.
3. Adjust air pressure at point-of-attachment to within the approved pressure range on the Supplied Air Pressure Table for approved pressure ranges.
4. With air still flowing, lower GVX Series respirator helmet onto your head for a comfortable fit.
5. Position headband for a comfortable fit. See instructions on Page 17 for proper headband sizing.
6. If installed, pull elastic chin strap under your chin and adjust for a secure and comfortable fit. The chin strap will help balance the helmet but is not required.
7. Be sure that the knitted inner neck cuff fits snugly around your neck to help provide a barrier to airborne contaminants.
8. With breathing tube assembly attached to the helmet, fasten belt around waist or hips and adjust for comfort.
9. Pull respirator cape around your body and secure sides by connecting the snap hooks. If using the Golden Gate cape, first secure the ties that connect in back, then in front. If using the Hibernia parka, tighten belt at waist.
10. Recheck air pressure and adjust if necessary.
11. With air still flowing into your respirator, you are now ready to enter work area.

NOTE

OSHA respirator regulations do not require individual user fit testing for supplied air hoods and helmets.

Doffing

When finished working, leave work area wearing respirator and with air still flowing. Once outside contaminated area, remove respirator and then disconnect the air supply hose using the quick-disconnect fittings.

NOTE

If using V20 Series (1/2" I.D.) air supply hose, the quick-disconnect coupler does not have a shut-off valve. Therefore, air will continue to flow freely after disconnecting hose from respirator.

⚠ WARNING

Leave work area immediately if:

- Any respirator component becomes damaged.
- Airflow into respirator helmet stops or slows down.
- Air pressure gauge drops below the minimum specified in the Supplied Air Pressure Table.
- Breathing becomes difficult.
- You become dizzy, nauseous, too hot, too cold or ill.
- You taste, smell, feel, or see contaminants inside respirator helmet.
- Vision becomes impaired.

Failure to follow these instructions could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

⚠ WARNING

Do not leave respirator in work area. Respirable dust contaminants can remain suspended in the air for several hours after work activity ceases, even though you may not see them. Proper work practice requires you to wear the respirator until you are outside the contaminated area and in an environment with at least Grade D breathable air. Failure to don, doff and store the respirator outside of contaminated area could result in exposure to contaminants. Failure to follow these instructions could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Inspection, Cleaning and Storage

Bullard's GVX Series respirators have a limited service life. Therefore, a regular inspection and replacement program must be conducted. Certain parts such as capes and lenses must be replaced frequently.

The GVX Series respirator and all component parts and assemblies should be inspected for damage or excessive wear, before and after each use, to ensure proper functioning. Immediately remove the respirator from service and replace parts or assemblies that show any sign of failure or excessive wear that might reduce the degree of protection originally provided. If you detect any of these signs, replace your cape immediately or remove the respirator from service. Inspect the inner neck cuff making sure that the band has retained sufficient elasticity.

Use only complete Bullard GVX Series components and replacement parts on this respirator. Refer to parts list for correct part numbers.

Since respirator use and the quality of maintenance performed vary with each job site, it is impossible to provide a specific time frame for respirator replacement. As a general guideline, the GVX Series respirator should be replaced after two years of service or less.

This respirator should be cleaned and sanitized at least weekly, or more often if subjected to heavy use. Respirators used by more than one person must be cleaned, inspected and sanitized after each use. If not cleaned, contamination may cause illness or disease.

REMEMBER, THE AIR YOU BREATHE WILL NOT BE CLEAN UNLESS THE RESPIRATOR YOU WEAR IS CLEAN.

⚠ WARNING

Do not use volatile solvents for cleaning this respirator or any parts and assemblies. Strong cleaning and disinfecting agents, and many solvents, can damage the plastic parts and reduce the protective properties of the respirator. Failure to heed these instructions may result in minor or moderate injury and/or equipment damage.

Cape

Inspection

Remove the cape from the respirator helmet and inspect it for rips, tears or damage from excessive wear that might reduce the degree of protection originally provided. If you detect any of these signs, replace your cape immediately or remove the respirator from service. Inspect the inner neck cuff making sure that the band has retained sufficient elasticity.

⚠ WARNING

Do not substitute any capes other than those manufactured by Bullard. Substituting other capes will void the NIOSH approval of this respirator and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis. In addition, Bullard capes have instructions and warnings sewn inside each for the benefit of the respirator user. Purchasing after-market or non-Bullard capes will deprive the respirator user of these important instructions and warnings.

Cleaning

Machine wash the cape in cold or warm water using a gentle cycle. Use a mild laundry detergent. Air-dry only. After cleaning, carefully inspect the cape once again for signs of damage.

Do not use volatile solvents to clean this respirator or any parts and assemblies. Strong cleaning and disinfecting agents, and many solvents, can damage the plastic parts.

Headband and Chin Strap

Inspection

Remove the headband suspension and chin strap from the inner shell. Inspect the headband for cracks, frayed or cut crown straps, torn headband or size adjustment slots, loss of pliability or other signs of excessive wear. Check the chin strap for loss of elasticity, cuts and cracked hanger clips.

If damage is detected, replace parts immediately with Bullard replacement parts or remove the respirator from service.

Cleaning

The headband suspension and chin strap should be hand-sponged with warm water and mild detergent, rinsed and air-dried. After cleaning and before reassembling, once again carefully inspect the parts for signs of damage.

Helmet

Inspection

Inspect the helmet for nicks, gouges, cracks, holes and any damage due to impact, rough treatment or wear.

If damage is detected, replace parts immediately with Bullard replacement parts or remove the respirator from service.

Cleaning

The helmet and window frame should be hand- sponged with warm water and mild detergent, rinsed and air-dried.

After cleaning and before reassembling, once again carefully inspect the helmet and parts for signs of damage

Lenses and Window Frame Gasket

Inspection

Be sure the plastic inner lens fits securely in the window frame gasket. Remove any grit or dust from the gasket. Inspect the window frame gasket closely for cuts, wear or damage that will prevent a proper seal against the inner faceshield lens or the helmet window frame.

If damage is detected, replace parts immediately with Bullard replacement parts or remove the respirator from service.

⚠ WARNING

Do NOT use lenses other than those manufactured by Bullard. Using other lenses voids the NIOSH approval of this GVX respirator and may allow contaminants to enter the respirator and could cause death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Cleaning

To clean the lenses, hand-sponge with warm water and mild detergent, rinse and air-dry.

Breathing Tube Assembly

Inspection

Inspect the breathing tube for tears, cracks, holes, or excessive wear that might reduce the degree of protection originally provided. If any signs of excessive wear are present, replace the breathing tube immediately or remove the respirator from service.

Cleaning

To clean the breathing tube, hand-sponge with warm water and mild detergent, being careful not to get water inside. Rinse and air-dry. After cleaning, once again carefully inspect breathing tube for signs of damage.

⚠ WARNING

Do not cut or remove foam that is inside the breathing tube. The foam helps reduce the noise level of the incoming air supply. It does not filter or purify your breathing air. NIOSH has approved this respirator with the foam in place. Failure to observe these instructions may result in serious injury.

Air Supply Hose

Inspection

The starter and extension hose(s) should be inspected closely for abrasions, corrosion, cuts, cracks and blistering. Be sure the hose fittings are crimped tightly to the hose so that air cannot escape. Make sure the hose has not been kinked or crushed by any equipment that may have rolled over it.

If any of the above signs are present or any other signs of excessive wear are detected, replace the air supply hose(s) immediately or remove the respirator from service.

Cleaning

The air supply hose(s) should be hand-sponged with warm water and mild detergent, rinsed and air-dried. Do not get water inside the air supply hose. After cleaning, once again carefully inspect air supply hose(s) for signs of damage.

Bullard air supply hose is not included in the purchase of respirator assembly and must be purchased separately. Using non-Bullard air supply hoses voids the NIOSH approval of this GVX respirator.

⚠ WARNING

Only use Bullard hoses that are approved for use with this respirator. Other hoses could reduce airflow and protection, and expose the wearer to life-threatening conditions. Failure to follow these instructions could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Storage

All components should be stored dry, indoors at room temperature outside of the hazard area and in a contaminant free environment.

Helmet – It is best to store the helmet right-side up to prevent dust, dirt or other contaminants from settling into the helmet. Alternatively polybag or place in a clean storage container.

Parts and Accessories for GVX Series Airline Respirators

GVX Series supplied-air respirators consist of five components: 1.) respirator helmet assembly, 2.) cape, 3.) breathing tube, 4.) flow control device, and 5.) air supply hose. There are options for some components to fit customer specifications. All components must be present and properly assembled, including a Bullard air supply hose, to constitute a complete NIOSH approved respirator.

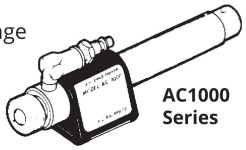
CATALOG NUMBER	DESCRIPTION
GVX Bundles	
GVX2830	28" Cape Assembly with Continuous Flow Control
GVX2830AC1000	28" Cape Assembly with AC1000 Cool Tube
GVX2830HC2400	28" Cape Assembly with HC2400 Hot/Cold Tube
GVX2831AC1000	28" Cape Assembly with AC1000 Cool Tube,Schrader Fitting
GVX2835	28" Cape Assembly for use with Ambient Air Pump
GVX2840	28" Cape Assembly with Adjustable Flow Control
GVX3830	38" Cape Assembly with Continuous Flow Control
GVX3830AC1000	38" Cape Assembly with AC1000 Cool Tube
GVX3830HC2400	38" Cape Assembly with HC2400 Hot/Cold Tube
GVX3835	38" Cape Assembly for use with Ambient Air Pump
GVX3840	38" Parka Assembly with Adjustable Flow Control
GVXPK30AC1000	38" Parka Assembly with AC1000 Cool Tube
GVXPK30HC2400	38" Parka Assembly with HC2400 Hot/Cold Tube
GVXPK40	38" Cape Assembly with Adjustable Flow Control
GVXGG30	38" Golden Gate with Cap Sleeves and Constant Flow Control
Parts for GVX Series Respirators	
GVXRT	Ratchet Suspension
GVXCS	Elastic Chin Strap
GVXCT	Breathing tube connector kit
GVXDMK	Door maintenance kit
GVXHP	Hinge pin
GVXIG	Replacement inner gasket
Accessories	
GVXCA	Carrying strap assembly
RBPCOTTON	Cotton brow pad
RBPCOOL	Polartec® brow pad
RBPVINYL	Vinyl brow pad
GVXCP	Cheek pads
GVXRTCP	Suspension comfort padding
GVXRTRC	Ratchet cover padding
Breathing Tubes	
GVXBT	Standard breathing tube 36"
GVXBTS	Small breathing tube 28"
88BTA	Breathing tube adaptor for 88VX breathing tube
Lenses and Mylar Covers	
Inner Lenses	
GVXIL	Inner Tritan Lens, .040" thick (25/pkg)
Outer Lenses	
GVXOL40	Outer PETG Lens, .040" thick (25/pkg)
GVXOL15	Outer PETG Lens, .015" thick (50/pkg)
BGVXOL40	Outer PETG Lens, .040" thick (200/bx)
BGVXOL15	Outer PETG Lens, .015" thick (200/bx)
GVXOLT	Outer Lenses, .030", pack of 25 Tinted (Smoke) Tritan®
GVXOLG	Outer Lenses .042", pack of 25 Tinted (Green) Acetate
Lens Cover	
GVXLC	Mylar lens cover, adhesive-backed, 25 pk
GVXPLC	Perforated tear away lenses, 25 pk
Capes with Three Hand Tab Assist	
28VX	Silver Dust Nylon Cape - 28" length
38VX	Silver Dust Nylon Cape - 38" length
GGVX	Silver Dust Nylon Cape, Golden Gate Style - 38" length
PKVX	Hibernia Parka - Silver Dust Nylon Parka with sleeves - 38" length
PKXLVX	Hibernia Parka - Silver Dust Nylon Parka with sleeves - 38" length, extra-large

CATALOG NUMBER	DESCRIPTION
Capes without Three Hand Tab Assist	
46VX	Tan Nylon Cape - 28" length
13VX	Tan Nylon Cape - 38" length
21VX/21821	Tan Nylon Cape, Golden Gate Style - 38" length
36VX	Hibernia Parka -Tan Nylon Parka with sleeves - 38" length
36XLVX	Hibernia Parka - Tan Nylon Parka with sleeves - 38" length, extra-large
Standard Flow Controls & Belts (includes QD Nipple to Air Supply Hose and 4612 Nylon Belt)	
4612	Replacement 54" x 1 1/2" Nylon Belt (All Flow Controls)
36501	Replacement 54" x 1 1/2" Vinyl Decon Belt (All Flow Controls)
F30	1/4" Industrial Interchange Continuous Flow Control Fitting, Compressed Air
F30B	1/4" Industrial Interchange Brass Continuous Flow Control Fitting, Compressed Air
F30S	1/4" Industrial Interchange Stainless Steel Continuous Flow Control Fitting, Compressed Air
F31	1/4" Schrader Continuous Flow Control Fitting, Compressed Air
F32	1/4" Snap-Tite Continuous Flow Control Fitting, Compressed Air
F33	1/4" Snap-Tite Brass, Continuous Flow Control Fitting, Compressed Air
F34	1/4" Snap-Tite Stainless Steel Continuous Flow Control Fitting, Compressed Air
F35	1/2" Industrial Interchange Continuous Flow Control Fitting, Free Air Pumps
F35B	1/2" Industrial Interchange Brass Continuous Flow Control Fitting, Free Air Pumps
F35S	1/2" Industrial Interchange Stainless Steel Continuous Flow Control Fitting, Free Air Pumps
F37	1/4" CEJN Continuous Flow Control Fitting, Compressed Air
F38	1/4" Bayonet Continuous Flow Control Fitting, Compressed Air
F40	1/4" Industrial Interchange Adjustable Flow Control Fitting, Compressed Air
F40B	1/4" Industrial Interchange Brass Adjustable Flow Control Fitting, Compressed Air
F40S	1/4" Industrial Interchange Stainless Steel Adjustable Flow Control Fitting, Compressed Air
F41	1/4" Schrader Adjustable Flow Control Fitting, Compressed Air
F42	1/4" Snap-Tite Adjustable Flow Brass Control Fitting, Compressed Air
F43	1/4" Snap-Tite Brass Adjustable Flow Stainless Steel Control Fitting, Compressed Air
F44	1/4" Snap-Tite Stainless Steel Adjustable Flow Control Fitting, Compressed Air
F47	1/4" CEJN Adjustable Flow Control Fitting, Compressed Air
F48	1/4" Bayonet Adjustable Flow Control Fitting, Compressed Air

CATALOG NUMBER	DESCRIPTION

Heating/Cooling Flow Controls & Belts (includes QD Nipple to Air Supply Hose and 4612 Nylon Belt)

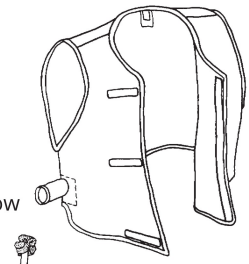
AC1000 Series	Cooling (Metal & Plastic), Compressed Air Only
AC100030	1/4" Industrial Interchange Continuous Flow Control Fitting
AC100030B	1/4" Industrial Interchange Brass Continuous Flow Control Fitting
AC100030S	1/4" Industrial Interchange Stainless Steel Continuous Flow Control Fitting
AC100031	1/4" Schrader Continuous Flow Control Fitting
AC100032	1/4" Snap-Tite Continuous Flow Control Fitting
AC100033	1/4" Snap-Tite Brass Continuous Flow Control Fitting
AC100034	1/4" Snap-Tite Stainless Steel Continuous Flow Control Fitting
AC100037	1/4" CEJN Continuous Flow Control Fitting
AC100038	1/4" Bayonet Continuous Flow Control Fitting coupler and male nipple



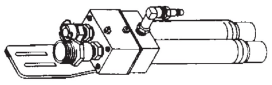
AC1000 Series

DC5040 Series – Cooling, Use with Cooling Vest, Compressed Air Only (Includes 4612 Nylon Belt)

DC5040	1/4" Industrial Interchange Continuous Flow Control Fitting
DC5040B	1/4" Industrial Interchange Brass Continuous Flow Control Fitting
DC5040S	1/4" Industrial Interchange Stainless Steel Continuous Flow Control Fitting
DC5041	1/4" Schrader Continuous Flow Control Fitting
DC5042	1/4" Snap-Tite Continuous Flow Control Fitting
DC5043	1/4" Snap-Tite Brass, Continuous Flow Control Fitting
DC5044	1/4" Snap-Tite Stainless Steel Continuous Flow Control Fitting
DC5047	1/4" CEJN Continuous Flow Control Fitting
DC5048	1/4" Bayonet Continuous Flow Control Fitting
DC70ML	Cooling Vest DC70 M/L
DC70XLXXL	Cooling Vest DC70 XL/XXL
DC705X	Cooling Vest DC70 only 5XL



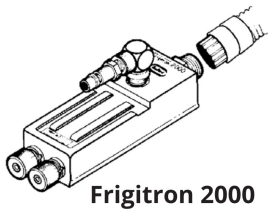
DC70M/L
DC70XL/XXL



DC5040 Dual-Cool

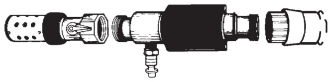
CATALOG NUMBER	DESCRIPTION

FRIGITRON 2000 Series, Cooling, Free Air Pumps (Includes 4612 Nylon Belt)



Frigitron 2000

FRIGITRON2000	1/2" Industrial Interchange Continuous Flow Control Fitting
FRIGITRON2000B	1/2" Industrial Interchange Brass Continuous Flow Control Fitting
FRIGITRON2000S	1/2" Industrial Interchange Stainless Steel Continuous Flow Control Fitting



HC2400 Series

HC2400 Series (Metal and Plastic) - Cooling/Heating, Compressed Air (Includes 4612 Nylon Belt)

HC240030	1/4" Industrial Interchange Continuous Flow Control Fitting
HC240030B	1/4" Industrial Interchange Brass Continuous Flow Control Fitting
HC240030S	1/4" Industrial Interchange Stainless Steel Continuous Flow Control Fitting
HC24003	1/4" Schrader Continuous Flow Control Fitting
HC240032	1/4" Snap-Tite, Continuous Flow Control Fitting
HC240033	1/4" Snap-Tite Brass, Continuous Flow Control Fitting
HC240034	1/4" Snap-Tite Stainless Steel Continuous Flow Control Fitting
HC240037	1/4" CEJN Continuous Flow Control Fitting
HC240038	1/4" Bayonet Continuous Flow Control Fitting

CATALOG NUMBER	DESCRIPTION
V10 Series, 3/8" ID for Compressed Air – Starter Kit - Includes QD Coupler	
4696	V10 3/8" ID Starter Industrial Interchange 25' Black with V13 hose to pipe adapter and V17 nipple
469650	V10 3/8" ID Starter Industrial Interchange 50' Black with V13 hose to pipe adapter and V17 nipple
4696100	V10 3/8" ID Starter Industrial Interchange 100' Black with V13 hose to pipe adapter and V17 nipple
46913	V10 3/8" ID Starter Schrader 25' Black with V13 hose to pipe adapter, no nipple
46915	V10 3/8" ID Starter Snap-Tite 25' Black with V13 hose to pipe adapter, no nipple
46916	V10 3/8" ID Starter Snap-Tite 25' Green, with V13 hose to pipe adapter, no nipple
46917	V10 3/8" ID Starter Snap-Tite 50' Green, with V13 hose to pipe adapter, no nipple
46918	V10 3/8" ID Starter Snap-Tite 25' Blue with S19443 Nipple
46919	V10 3/8" ID Starter Snap-Tite 50' Blue with S19443 Nipple
Extension/Custom Assembly – No QD Coupler, Includes V13 hose to pipe adapter and V11 hose to hose adapter	
5454	V10 3/8" ID Extension 25' Black
5457	V10 3/8" ID Extension 50' Black
5458	V10 3/8" ID Extension 100' Black
54514	V10 3/8" ID Extension 25' Blue
54513	V10 3/8" ID Extension 50' Blue
54512	V10 3/8" ID Extension 100' Blue
54510	V10 3/8" ID Extension 25' Green
54511	V10 3/8" ID Extension 50' Green
54515	V10 3/8" ID Extension 100' Green
V20 Series, ½" ID for Free Air Pumps and Breathing Air Compressors – Includes QD Coupler and Nipple	
V2050ST	V20 1/2" ID Starter Industrial Interchange 50' Black
V20100ST	V20 1/2" ID Starter Industrial Interchange 100' Black
V10 Air Supply Hose Couplers, Nipples and Adapters	
V14	QD Coupler 1/4" Industrial Interchange, 1/4" Female NPT (V12 Adapter Separate)
V27	QD Coupler 1/4" Industrial Interchange with V12 Adapter
V17	QD Nipple 1/4" Industrial Interchange, 3/8" Female NPT (V12 Adapter Separate)
V18	QD Coupler 1/4" Schrader, 1/4" Female NPT (V12 Adapter Separate)
S19432	QD Nipple 1/4" Schrader, 1/4" Female NPT (V12 Adapter Separate)
V19	QD Coupler 1/4" Snap-Tite 1/4" Female NPT (V12 Adapter Separate)
V19B	QD Coupler 1/4" Snap-Tite 1/4" Female NPT Brass (V12 Adapter Separate)
S19442	QD Nipple 1/4" Snap-Tite, 1/4" Female NPT (V12 Adapter Separate)
S19443	QD Nipple 1/4" Snap-Tite, 1/4" Female NPT Brass (V12 Adapter Separate)
V37	QD Coupler 1/4" CEJN 1/4" Female NPT (V12 Adapter Separate)
3902	QD Nipple 1/4" CEJN 1/4" Female NPT (V12 Adapter Separate)
V38	QD Coupler 1/4" Bayonet 1/4" Female NPT (V12 Adapter Separate)
S19448	QD Nipple 1/4" Bayonet 1/4" Female NPT (V12 Adapter Separate)
V11	Hose Adapter 3/8" to 3/8" Hose Brass
V13	Hose Adapter 3/8" to 3/8" Pipe Brass
V12	Hose Adapter 3/8" to 1/4" Pipe Brass

Replacement Parts & Accessories

HS	Heat Shield Assembly for Single Tube Assemblies, Leather
HSDC	Heat Shield Assembly for Dual Cool Assemblies, Leather

For optional use with Bullard Airline Respirators

Includes: AC1000 Cool Tube, belt bracket, nylon belt and heat shield.

Function: The AC1000 is designed to supply a continuous flow of cool air to certain Bullard supplied air respirators.

⚠ CAUTION

AC1000 cannot be used with a low pressure air source such as an ambient air pump.

⚠ WARNING

This climate control system is not recommended for cooling the air supply when the air temperature is less than 70°F (21°C). Since the system may cool the incoming air by more than 30°F (17°C), it is possible for ice to form in the breathing tube and reduce the airflow. Failure to observe this warning could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Air Pressure

Continually monitor the air pressure at the point-of-attachment while operating the respirator. A reliable air pressure gauge must be present to monitor the pressure.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length will reduce airflow and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

It is important to operate the Bullard climate control device in the prescribed pressure range for the particular Bullard respirator you are using. Refer to the user manuals' Supplied Air Pressure Table to determine the correct pressure that should be used with the climate control device.

Preparation and Use of the AC1000

1. In an uncontaminated atmosphere screw the hose connector fitting on the end of the breathing tube to the fitting on the AC1000. Tighten hose connectors firmly (Figure 1).
2. Lace the belt supplied with the Cool Tube through the belt bracket. Slots are provided for wearing the tube either vertically or horizontally on the waist. See Heat Shield instructions.

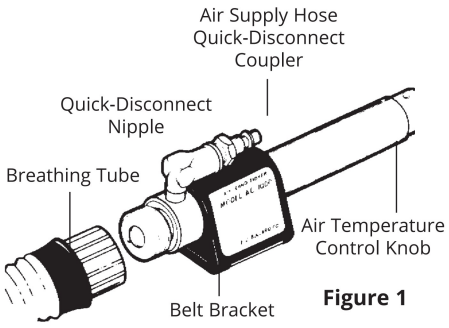
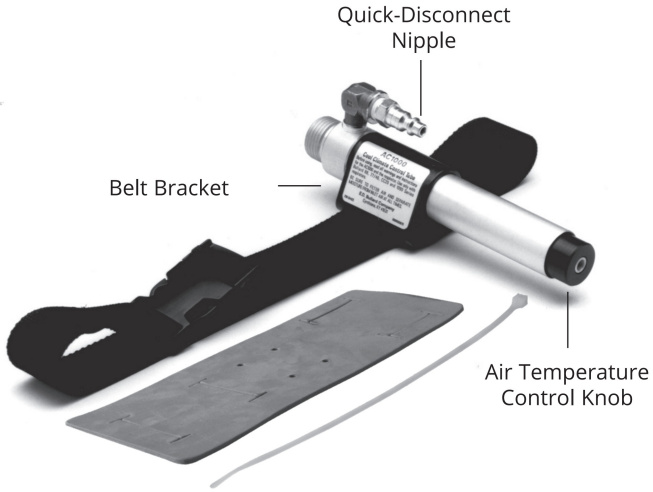


Figure 1

3. With the approved Bullard air supply hose connected to the air source and with air flowing into the hose, connect the quick-disconnect coupler on the air supply hose to the quick-disconnect nipple on the AC1000 Cool Tube.
4. Adjust the air pressure at the point-of-attachment to within the approved pressure range (Figure 2). See the Supplied Air Pressure Table in the user manuals.
5. Don the respirator by following the directions in your respirator instruction manual.
6. To obtain cooler air, turn the air temperature control knob counterclockwise (Figure 1).

   Maximum cooling is attained when knob is fully open and when there is maximum airflow out of the AC1000 exhaust port.

   To obtain air that is closer to ambient temperature, turn air temperature control knob clockwise. If knob is fully closed, your respirator will receive air at ambient temperature.
7. When finished working, leave the work area wearing the respirator. With the air still flowing into the hood, remove the hood and then disconnect the air supply hose using the quick-disconnect coupler attached to the AC1000 Cool Tube.



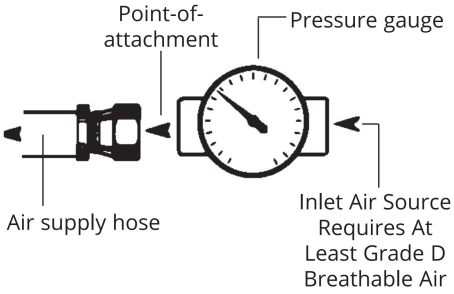


Figure 2

Heat Shield Instructions

Assembly

1. Determine whether the climate control device will be worn vertically or horizontally on the waist.
2. If the device will be worn in the horizontal position, align the tube on the heat shield as shown in Figure 3. If the tube will be worn in the vertical position, align the tube on the heat shield as shown in Figure 4.
3. Lace the belt supplied with your climate control device through both the heat shield slots and the climate control belt bracket slots.
4. Use plastic zip tie to secure the climate control unit to the heat shield.

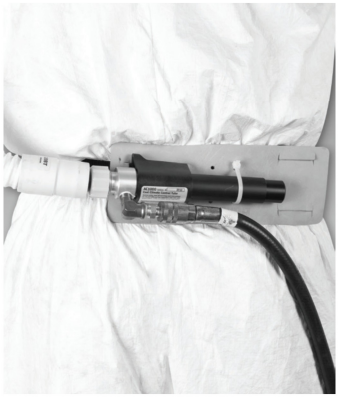


Figure 3

Figure 4

HC2400 Hot/Cold Climate Control Tube Instruction Sheet

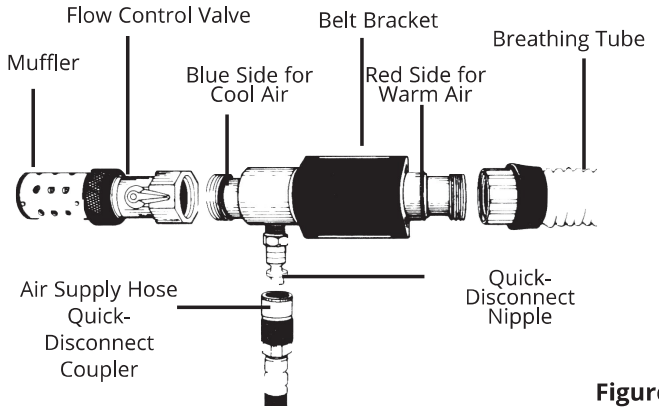


Figure 1

For optional use with Bullard Airline Respirators

Includes: Hot/Cold Tube, Flow Control Valve, Belt Bracket, Belt and Heat Shield

Function

The HC2400 is designed to supply a continuous flow of warm or cool air to certain Bullard Supplied-Air Respirators.

⚠ CAUTION

HC2400 cannot be used with a low pressure air source such as an ambient air pump.

⚠ WARNING

This climate control system is not recommended for cooling the air supply when the air temperature is less than 70°F (21°C). Since the system may cool the incoming air by more than 30°F (17°C), it is possible for ice to form in the breathing tube and reduce the airflow.
Failure to follow these instructions could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Air Pressure

Continually monitor the air pressure at the point-of-attachment while operating the respirator. A reliable air pressure gauge must be present to monitor the pressure.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length will reduce airflow and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

You must always operate the Bullard climate control device in the prescribed pressure range for the particular Bullard respirator you are using. Operating the correct pressure range will insure that the correct air flow is delivered to the respirator and will maintain the NIOSH approval. Refer to the user manuals' Supplied Air Pressure Table to determine the correct pressure that should be used with the climate control device.

HC2400 Hot/Cold Climate Control Tube Instruction Sheet

Preparation and Use of the HC2400

1. For Warm Air:
   (a) In an uncontaminated atmosphere screw the black nylon hose connector on the end of the breathing tube onto the RED side of the HC2400 Tube.
   (b) Screw the flow control valve and muffler onto the blue side of the HC2400 Tube (Figure 1). Tighten both connections firmly.

   For Cool Air:
   (a) In an uncontaminated atmosphere screw the black nylon hose connector on the end of the breathing tube on to the BLUE side of the HC2400 Tube.
   (b) Screw the flow control valve and muffler to the RED side. Tighten firmly.

⚠ WARNING

For adequate air flow, attach the muffler and flow control valve to the end of the hot/cold tube that is opposite the breathing tube end. **DO NOT USE THE HC2400 WITHOUT THE MUFFLER AND FLOW CONTROL VALVE.** Failure to observe this warning could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

2. Lace the belt supplied with the HC2400 through the belt bracket. Slots are provided for wearing the tube either vertically or horizontally on the waist. See Heat Shield instructions below.
3. With the approved Bullard air supply hose connected to the air source and with air flowing into the hose, connect the quick-disconnect coupler on the air supply hose to the quick-disconnect nipple on the Hot/Cold Tube.
4. Adjust the air pressure at the point-of-attachment **(Figure 2)** to within the approved pressure range. See the Respirator Supplied Air Pressure table in the respirator user manual.

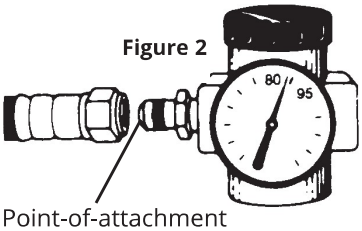


Figure 2

5. Put the hood on by following the directions in your respirator instruction manual. If you do not have instructions, contact Bullard Customer Service at the address or phone numbers below.
6. Turn flow control valve to adjust the flow and temperature of incoming air **(Figure 1)**.

   Maximum cooling or warming is attained when exhaust valve is fully open and when there is maximum airflow out of the HC2400 exhaust port. To obtain air that is closer to ambient temperature, turn the exhaust valve to the fully closed position. If valve is fully closed, your respirator will receive air at ambient temperature.
7. When finished working, leave the work area wearing the respirator. With the air still flowing into the hood, remove the hood and then disconnect the air supply hose using the quick-disconnect coupler attached to the Hot/Cold Tube.

Heat Shield Instructions

Assembly

1. Determine whether the climate control device will be worn vertically or horizontally on the waist.
2. If the device will be worn in the horizontal position, align the tube on the heat shield as shown in Figure 3. If the tube will be worn in the vertical position, align the tube on the heat shield as shown in Figure 4.
3. Lace the belt supplied with your climate control device through both the heat shield slots and the climate control belt bracket slots.

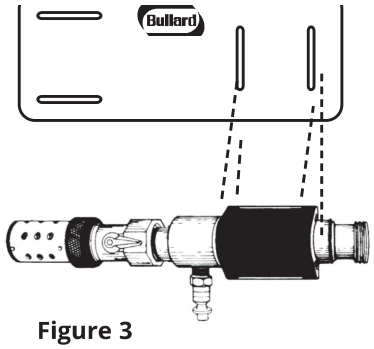


Figure 3

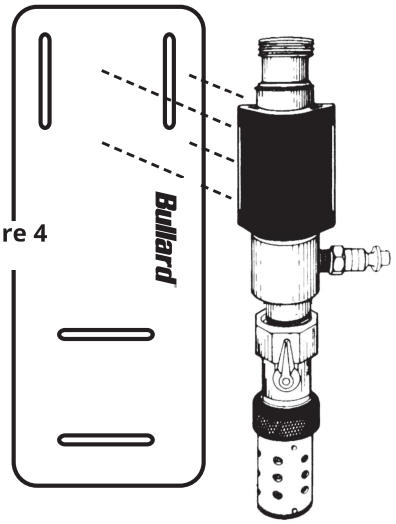


Figure 4

DC5040 Series Dual-Cool Climate Control Tube and DC70 Vest Instruction Sheet

For optional use with Bullard Airline Respirators

⚠ CAUTION

DC5040 Dual-Cool cannot be used with a low pressure air source such as an ambient air pump.

The DC5040 Dual-Cool tube is designed to supply a continuous flow of cool air to certain Bullard supplied air respirators and body vests.

Air Pressure

Air pressure must be continually monitored at the point-of-attachment while operating the respirator. A reliable air pressure gauge must be present to monitor the pressure during respirator operation.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length and type will reduce airflow and could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

The Supplied Air Pressure Table in the user manual defines the air pressure ranges necessary to provide the respirator with a volume of air that falls within the required range of 6-15 cubic feet per minute (cfm) or 170-425 liters per minute (lpm). (See 42 CFR, Part 84, Subpart J, Table 8)

⚠ WARNING

The DC5040 Dual-Cool climate control system is not recommended for cooling the air supply when the air temperature is less than 70°F (21°C). Because the DC5040 Dual-Cool may cool the incoming air by more than 30°F (17°C), it is possible for ice to form in the breathing tube and reduce the airflow. Failure to observe these warnings could result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

Assembly and Use

Assembly must be conducted in an uncontaminated atmosphere.

Assembling the Cooling Vest

1. Insert the muffler end of the cooling vest connector hose well into the air entry sleeve of the vest (Figure 1).

2. Secure the cooling vest hose using the clamp (Figure 2) around the entry sleeve of the vest.

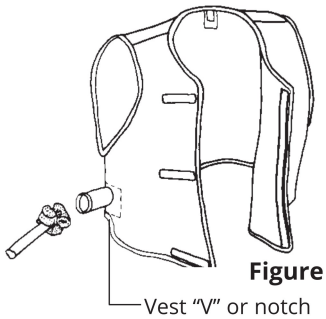


Figure 1

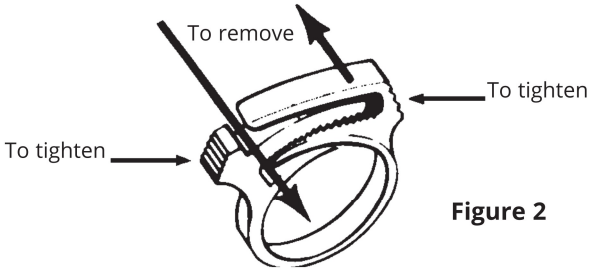


Figure 2

DC5040 Series Dual-Cool Climate Control Tube and DC70 Vest Instruction Sheet

Head Shield Assembly Instructions

The HSDC climate control heat shield is designed to work with the Bullard DC5040 Dual-Cool climate control device.

Assembly

1. Lace the belt supplied with your climate control device through both the heat shield slots and the climate control belt bracket slots.
2. Use plastic zip ties (2 inlcuded) to secure the climate control to the heat shield. (Figure 3)

Donning the Dual-Cool Tube and Cooling Vest

1. Screw the hose connector that is on the end of the breathing tube to threaded connector on Dual-Cool. Lace the belt through the slots in the belt bracket
(Figure 3).

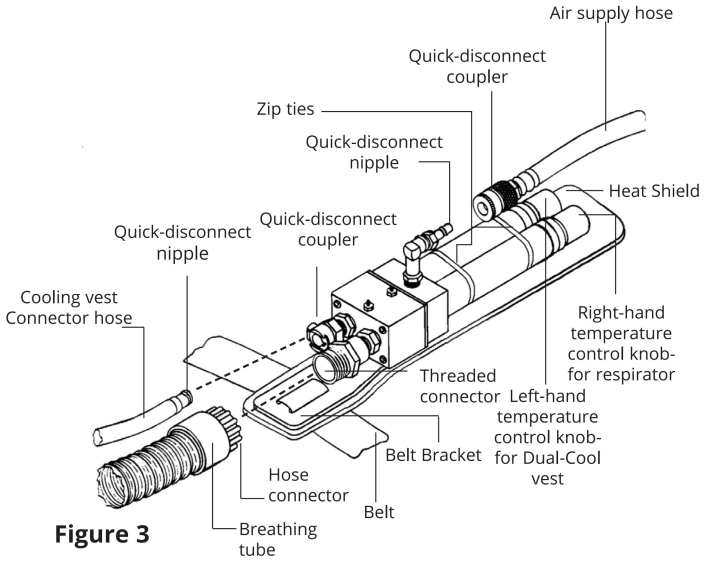


Figure 3

2. Don the belt, belt bracket, and Dual-Cool. Adjust belt comfortably, but loosely, around your waist, insuring that the Dual-Cool assembly is on your right-hand side.
3. Don the vest. Use the Velcro® closure strips to adjust loosely for size.

NOTE

The vest should mount over the belt with the Dual-Cool unit positioned in the "V" of the vest found on the right-hand side (Figure 1).

4. Snap the quick-disconnect nipple found on the end of the cooling vest connector hose into the quick-disconnect coupler on the Dual-Cool (Figure 3).
5. Don the respirator by following the directions in your respirator instruction manual. If you do not have instructions, contact Bullard Customer Service at the address or phone number given below.
6. With the approved Bullard air supply hose connected to the breathing air source, and with air flowing into the hose, connect the quick-disconnect coupler on the air supply hose to the quick-disconnect nipple on the Dual-Cool (Figure 3).
7. Adjust the air pressure at the point-of-attachment to within the approved pressure range found in the respirator user manual (Figure 4).

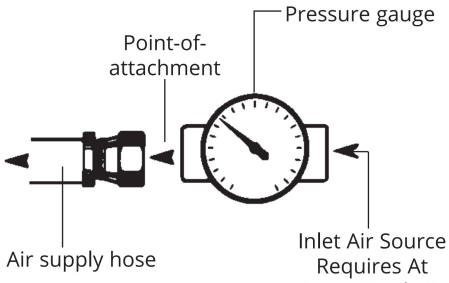


Figure 4

Operating the Dual-Cool Tube

1. To obtain cooler air, turn the air temperature control knobs counterclockwise (Figure 3). Maximum cooling is obtained when knobs are open completely and when there is maximum airflow out of the Dual-Cool tube's exhaust ports. To obtain air that is closer to ambient temperature, turn air temperature control knobs clockwise. If knobs are closed completely, your respirator will receive air that is essentially at ambient temperature.

NOTE

There are separate controls to adjust the temperature of the air that is distributed to the vest and the breathing zone. The right-hand knob controls the air temperature to the respirator; the left-hand knob controls the air temperature to the cooling vest (Figure 3).

2. When finished working, leave the work area wearing the respirator. With the air still flowing, remove the hood, and then disconnect the air supply hose using the quick-disconnect coupler attached to the Dual-Cool.

Cleaning

Machine wash the vest in warm water using a gentle cycle. Use a mild laundry detergent. Air-dry only. After cleaning, carefully inspect the vest for any signs of damage. If any damage is detected, remove the vest from service.

Frigitron 2000 Cool Climate Control Tube Instruction Sheet

For optional use with Bullard Airline Respirators

INCLUDES: Frigitron 2000 and Belt

FUNCTION: The Frigitron 2000 is designed to supply a continuous flow of cool air as part of certain Bullard supplied air respirator systems.

NOTE:
Frigitron 2000 CAN be used with a low pressure air source such as ambient air pumps.

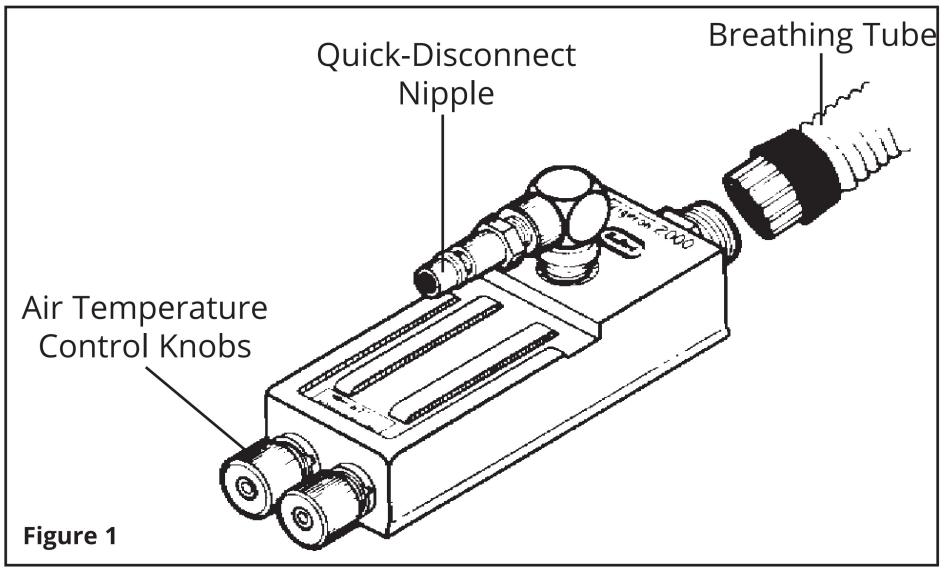


Figure 1

Air Pressure

Continually monitor the air pressure at the point-of-attachment while operating the respirator. A reliable air pressure gauge must be present to monitor the pressure.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length will reduce airflow and may expose you to life-threatening conditions, diseases or death including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

The SUPPLIED AIR PRESSURE TABLE in the user manual defines the air pressure ranges necessary to provide the respirator with a volume of air that falls within the required range of 6-15 cubic feet per minute (cfm) or 170-425 liters per minute (lpm).

Preparation and Use of the Frigitron 2000

1. In an uncontaminated atmosphere, screw the end of the breathing tube to the fitting on the climate control device. Tighten hose connectors firmly.
2. Lace the belt supplied with the Cool Tube through the belt bracket.
3. With the approved Bullard V20 air supply hose connected to the air source and with air flowing into the hose, connect the quick-disconnect coupler on the air supply hose to the quick-disconnect nipple on the Frigitron 2000.
4. Adjust the air pressure at the point-of-attachment to within the approved pressure range (Figure 2).
5. Put the hood on by following the directions in your respirator instruction manual. If you do not have instructions, contact Bullard Customer Service at the address or phone numbers given below.
6. To obtain cooler air, turn either or both of the air temperature control knobs counter clockwise (Figure 1).

   Maximum cooling is attained when either or both knobs are fully open and when there is maximum airflow out of the Frigitron exhaust ports.

   To obtain air that is closer to ambient temperature, turn either or both air temperature control knob clockwise. If both knobs are fully closed, your respirator will receive air at ambient temperature.
7. When finished working, leave the work area wearing the respirator. With the air still flowing into the hood, remove the hood and then disconnect the air supply hose using the quick-disconnect coupler attached to the Frigitron 2000.

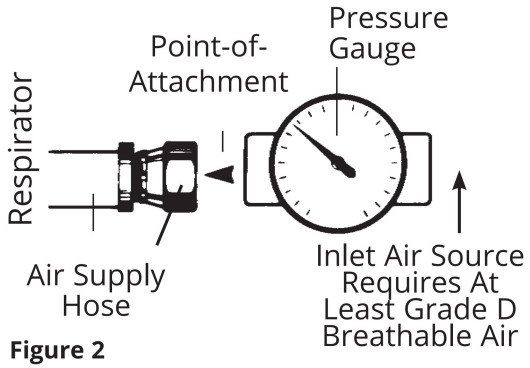


Figure 2

V10 (3/8”) Breathing Air Supply Hose Installation Instructions

V10 Starter Hose Instructions

Starter hoses include female quick-disconnect coupler crimped on one end and V13 hose-to-pipe (3/8” NPT) adapter.

1. If the air source has a threaded attachment, use the supplied V13 hose-to-pipe (3/8” NPT) adapter to connect the threaded female fitting on the hose to the air source.
2. If the air source has a coupling attachment, refer to matching QD nipple specification and use either a V12 (1/4”) or V13 (3/8”) to connect the nipple to the hose. Attach QD nipple to QD coupling on the air source.
3. Connect the respirator’s flow control device to the female quick-disconnect coupler on the V10 hose.

NOTE:
Bullard Flow Control Devices have Male Nipples that connect to the Female quick-disconnect coupler on the V10 Starter Airline Hose.

NOTE:
Threaded seal tape should be used on all threaded attachments. Beveled end of adapters are for hose side of connections only.

V10 Extension Hose Instructions

Extension hoses allow you to add Bullard air supply hose to your Bullard respirator’s starter hose or another length of extension hose. For more information on maximum permissible hose lengths, configurations and necessary air pressure operating ranges, please refer to the User Manual Supplied Air Pressure Table. Extension hoses include V11 hose-to-hose adapter and V13 hose-to-pipe (3/8” NPT) adapter.

1. Remove any quick-disconnect nipple or adapter from the air source end of the starter hose and replace it with the V11 hose-to-hose adapter.
2. Connect one end of extension hose to the open end of the V11 adapter just inserted in the starter hose.
3. If the air source has a threaded attachment, use the supplied V13 hose-to-pipe (3/8” NPT) adapter to connect the threaded female fitting on the hose to the air source.
4. If the air source has a coupling attachment, refer to matching QD nipple specification and use either a V12 (1/4”) or V13 (3/8”) to connect the nipple to the hose. Attach QD nipple to QD coupling on the air source.

NOTE:
Threaded seal tape should be used on all threaded attachments. Beveled end of adapters are for hose side of connections only.

Respirable Breathing Air

At least Grade D breathable air must be supplied to the point-of-attachment of the approved breathing air supply hose. Government regulations require that all breathing air meet the specifications for Grade D air as described in Compressed Gas Association Commodity Specification G-7.1 and specified by Federal Law 42 CFR Part 84, Subpart J, 84.141(b) and 29 CFR 1910.134(i).

⚠ WARNING

DO NOT connect your Bullard air supply hose to nitrogen, oxygen, toxic gases, inert gases, or other non-breathable, non-grade D air sources. Air hose connection fittings must be incompatible with fittings for other industrial gases as described by the Compressed Gas Association. (WWW.CGANET.COM). Failure to observe this warning may result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis.

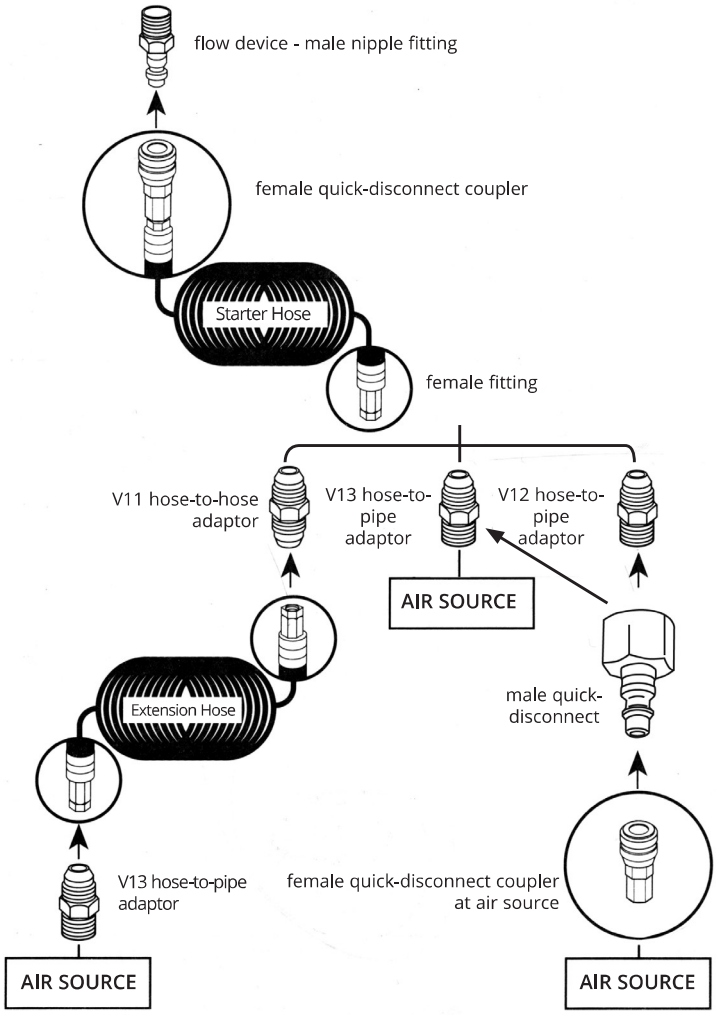
Point-of-attachment

Air pressure at the point-of-attachment must be regulated with the ranges specified on your respirator’s MSHA/NIOSH approval label and Supplied Air Pressure Table.

NOTE:
You can repeat the extension hose connection steps using Bullard V10 hoses. However, do not exceed the lengths specified on the approval label or in the Supplied Air Pressure Table for your specific respirator.

V10 (3/8") & V20 (1/2”) Breathing Air Supply Hose Installation Instructions

V10 Breathing Air Supply Hose and V10 Extension Hose Kit Assembly



Bullard V20 Hose Kits

include one starter hose with female quick-disconnect coupler on one end and quick-disconnect nipple on the other.

Installation Instructions

1. Connect the respirator’s flow device - male nipple fitting to the female quick-disconnect coupler on the V20 hose.
2. Connect the quick-disconnect nipple on the hose to the point-of-attachment on your breathing air source.

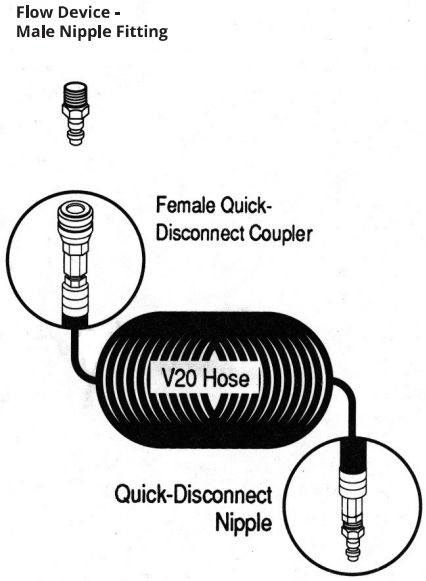
Respirable Breathing Air

At least Grade D breathable air must be supplied to the point-of-attachment of the approved air supply hose. Government regulations require that all breathing air meet the specifications for Grade D air as described in Compressed Gas Association Commodity Specification G-7.1 and specified by Federal Law 42 CFR Part 84, Subpart J, 84.141(b), and 29 CFR 1910.134(i).

Point-of-Attachment

Air pressure at the point-of-attachment must be regulated within the ranges specified on your respirator’s MSHA/NIOSH approval label and Supplied Air Pressure Table.

V20 Breathing Air Supply Hose Assembly



Inlet Air Source Requires At Least Grade D Breathable Air

⚠ WARNING

Do not connect your Bullard air supply hose to nitrogen, oxygen, toxic gases, inert gases, or other non-breathable, non-grade D air sources. Air hose connection fittings must be incompatible with fittings for other industrial gases as described by the Compressed Gas Association. Failure to observe this warning may result in death or serious injury including but not limited to certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis, or asbestosis. (WWW.CGANET.COM)

Two Year Full Warranty

Bullard warrants to the original purchaser that the GVX Helmet will be free of defects in material and workmanship under normal use and service for a period of two (2) years from the date of purchase. All other consumable parts have a 1-year limited warranty against defects in material workmanship under normal use and service. Bullard's obligation under this warranty is limited to repairing or replacing, at its option, articles that are returned within the warranty period and that are, after examination, shown to Bullard's satisfaction to be defective, subject to the following limitations;

a) GVX Respirator must be returned to the Bullard factory with shipping charges prepaid.

b) GVX Respirator must not be altered from its original factory configuration.

c) GVX Respirator must not have been misused, intentionally or negligently abused, or damaged in transport.

d) A copy of the purchaser's original invoice showing the date of purchase is required to validate warranty coverage.

In no event shall Bullard be responsible for damages for loss of use or other indirect, incidental, consequential or special costs, expenses or damages incurred by the purchaser, notwithstanding that Bullard has been advised of the possibility of such damages.

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF PURCHASE OF THIS PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Return Authorization

The following steps must be completed before Bullard will accept any returned goods. Please read carefully.

Follow the steps outlined below to return goods to Bullard for repair or replacement under warranty or for paid repairs:

1. Contact Bullard Sales Support by telephone or in writing at:

   Bullard
   1898 Safety Way
   Cynthiana, KY 41031-9303
   Toll-free: 877-BULLARD (285-5273)
   Phone: 859-234-6616

   In your correspondence or conversation with Sales Support, describe the problem as completely as possible. For your convenience, your sales support specialist will try to help you correct the problem over the phone.
2. Verify with your sales support specialist that the product should be returned to Bullard. Sales Support will provide you with written permission and a return authorization number as well as the labels you will need to return the product.
3. Before returning the product, decontaminate and clean it to remove any hazardous materials which may have settled on the product during use. Laws and/or regulations prohibit the shipment of hazardous or contaminated materials. Products suspected to be contaminated will be professionally discarded at the customer's expense.
4. Ship products to be returned, including those under warranty, with all transportation charges pre-paid. Bullard cannot accept returned goods on a freight collect basis.
5. Returned products will be inspected upon return to the Bullard facility. Bullard Sales Support will telephone you with a quote for required repair work which is not covered by warranty. If the cost of repairs exceeds stated quote by more than 20%, your sales support specialist will call you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard will invoice you for actual work performed.

California Proposition 65 ⚠ WARNING
Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

GVX Series Airline Respirator User Manual

Bullard Center
2421 Fortune Drive
Lexington, KY 40509 • USA
877-BULLARD (285-5273)
Tel: +1-859-234-6616
Fax: +1-859-246-0243

Americas Operations
1898 Safety Way
Cynthiana, KY 41031 • USA
877-BULLARD (285-5273)
Tel: +1-859-234-6616
Fax: +1-859-234-8987

Bullard GmbH
Dieselstrasse 8a
53424 Remagen • Germany
Tel: +49-2642 999980
Fax: +49-2642 9999829

Bullard AsiaPacific Pte. Ltd.
51 Changi Business Park Central 2
#03-04 The Signature
Singapore 486066
Tel: +65 6745 0556

6080089735M (0923)

www.bullard.com