

3M™ Powered & Supplied Air Breathing Tubes and Accessories

Technical Data Sheet

Description

3M™ Powered & Supplied Air Breathing Tubes connects the air source with the headtop and ensures clean air reaches the headtop reliably and with unrestricted airflow. 3M™ Powered & Supplied Air Breathing Tubes are compatible with certain 3M™ Respiratory Headtops and Air Delivery Units.

	BT-20S	BT-20L	BT-30	BT-40	BT-63	BT-64	SS-BT-56-ASB	SA-2500	SA-2600
Picture									
SAP ID	7100134625	7100296133	7100006955	7100069524	7100170023	7100167214	7100265213	7000002006	7000002044
Legacy ID	70071533023	70071767472	XA007706584	UU003085113	70071730934	70071730876	UU011534342	70070613214	70070710119
Availability	AU	AU	AU & NZ	AU & NZ	AU & NZ	AU	AU & NZ	AU & NZ	AU & NZ
Material	Polyurethane	Polyurethane	Polyurethane	Neoprene Rubber	Polyurethane	Neoprene Rubber	EPDM Rubber	Kraton and polypropylene	Kraton and polypropylene
Approximate Length	735mm	935mm	525-850mm Length Adjusting	840mm	800mm -1200 Length Adjusting	890mm	900mm	925mm	925mm
Blower/Regulator/Valve End Connection Type	Bayonet Fitting (two small prongs)	Bayonet Fitting (two small prongs)	Bayonet Fitting (two small prongs)	Bayonet Fitting (two small prongs)	Bayonet Fitting (two small prongs)	Bayonet Fitting (two small prongs)	Screw	Screw	Screw
Headtop/Facepiece Connection Type	Quick Release Swivel (QRS)	Quick Release Swivel (QRS)	Quick Release Swivel (QRS)	Quick Release Swivel (QRS)	Twin RR Bayonet	Twin RR Bayonet	Right Angle DIN40	Twin RR Bayonet	Twin RR Bayonet with back mounting
Compatible PAPR Blower/Supplied Air Regulator or Valve	TR-300+	TR-300+	TR-300+	TR-300+	TR-600	TR-600	PF-600E-ASB	SA-1007 Dual airline regulating valve	SA-1007 Dual airline regulating valve
	TR-600	TR-600	TR-600	TR-600	TR-800	TR-800			
	TR-800	TR-800	TR-800	TR-800					
	PF-600E-ASB-PF-949	PF-600E-ASB-PF-949	PF-600E-ASB-PF-949	PF-600E-ASB-PF-949					
Compatible Headtop/Facepiece	V-100, V-200, V-300, V-500E	V-100, V-200, V-300, V-500E	V-100, V-200, V-300, V-500E	V-100, V-200, V-300, V-500E					
	All S-Series*	All S-Series*	All S-Series*	All S-Series*	7500 Half facepiece, 6000 and FF-400 Full Facepieces	7500 Half facepiece, 6000 and FF-400 Full Facepieces	FF-300 & FF-600 Full facepieces	7500 Half facepiece, 6000 and Full Facepiece	7500 Half facepiece, 6000 and Full Facepiece
	All M-Series**	All M-Series**	All M-Series**	All M-Series**					

*S-333 & S-533 only on PF-600-ASB-PF-949.

** M-200 & M-300 only on PF-600-ASB-PF-949



BT-922 (Breathing tube not included)



BT- 926



BT-957



BT-927



BT-953

Breathing Tube Accessories

SAP ID	Legacy ID	Availability		Model #	Description
		AUS	NZ		
7000103964	XA007706527	•	•	BT-922	3M™ Versaflo™ Breathing Tube Cover BT-922, 1 Pack/Case
7000042907	70071564432	•	•	BT-926	3M™ Versaflo™ Flame Resistant Breathing Tube Cover BT-926
7100099908	70071731569 (AUS) UU006081895 (NZ)	•	•	BT-927	3M™ Versaflo™ Breathing Tube Radiant Heat Cover BT-927, 1 ea/Case
7100176699	70071730892	•	•	BT-953	3M™ Versaflo™ Cleaning & Storage Kit BT-953, for BT-63/64 Breathing Tubes 1/Case
7100176778	70071731569	•		BT-957	3M™ Versaflo™ Storage Plugs BT-957 5/CS

The BT-30 breathing tubes come standard in the following kits

- TR-315A Starter Kit
- TR-619A Starter Kit
- TR-819A Starter Kit
- TRM-207C Kit
- TRM-307C Kit
- CAPM-307C Kit
- TRM-407C Kit
- PF-600E-ASB-M-307 Kit
- ALVM-206E Kit
- ALVM-406E Kit
- V-100 902-02-18 Kit
- V-200 902-02-85 Kit
- V-300 902-02-17 Kit

The SS-BT-56 come standard in the following kits

- PF-600E-ASB-FF-302 Kit
- PF-600E-ASB-FF-603 Kit

The SA-2500 comes standard in the following kits

- 68SA2 Kit
- 69SA2 Kit
- SA-2000 901-00-71 Kit

The SA-2600 comes standard in the following kit

- SA-2100 902-03-15 Kit

Care, Maintenance & Cleaning

It is the employer's responsibility to ensure that the PPE is adequately cleaned to remove all hazardous contaminants before next use. This may include inspecting the product for areas where contaminant may have become trapped during the cleaning process and not removed adequately.

Why is care, maintenance, and cleaning important?

- 3M's recommended care and maintenance procedures can help ensure the product continues to provide the correct level of respiratory protection and maintain the effective lifetime of the product. Poor care and maintenance practices can result in additional costs to replace the product.

General care, maintenance, and cleaning guidance

- The need for care, maintenance, and cleaning will depend on the use of the product, the application, the employer's risk assessment, and any applicable local legislation.
- However, 3M's recommendation is that general inspection and maintenance should be conducted before each use. When not in regular use, 3M suggests a monthly inspection followed by maintenance if required.
- Depending on the application and the contaminant that the product has been exposed to, cleaning may be required. Cleaning methods could include wiping the product down or using a decontamination shower.

Warning

- When cleaning, it is important to be aware of the following:
- Do not use organic solvents (i.e. toluene, paint thinner) or abrasive cleaners as they may weaken and damage the plastic.
- All components must be wiped clean of any residuals, then dried before use.
- Exceeding 50°C during the cleaning and/or drying process can degrade the materials and its components. This can reduce the performance of the product and the protection that it provides.
- Scents, fragrances and colouring agents added to cleaning chemicals can have a detrimental effect on plastics. It is best to use pH neutral cleaning solutions that are free from scents, fragrances and colouring agents to reduce the risk of damaging the powered air respirator and its components.

BT-20S/L, BT-30, BT-40, SS-BT-56

Inspection

Before each entry into a contaminated area, inspect each of the following components to help ensure proper function of the respirator system. Any damaged or defective parts must be replaced prior to use. Do not enter a contaminated area with damaged or defective parts. See your supervisor.

- Examine the entire breathing tube for tears, holes or cracks. Bend the tube to verify that it is
- flexible. Ensure the gaskets located at both ends of the breathing tube (i.e. headgear and air source connections)
- are present and not damaged. The breathing tube should fit securely into the air source connection.

BT-63/BT-64 Inspection

Before each entry into a contaminated area, inspect each of the following components to help ensure proper function of the respirator system. Any damaged or defective parts must be replaced prior to use. Do not enter a contaminated area with damaged or defective parts. See your supervisor.

Breathing Tube: Look for tears, holes or cracks. Bend the tube to verify it is flexible. Inspect the two bayonets that connect to the tight-fitting respirator for damage. Ensure two gaskets are present at the end of the breathing tube that connects to the air source, and ensure they are not damaged. The breathing tube should fit firmly into the air source connection and should attach securely to the tight-fitting facepiece. BT-63/BT-64 Inspection

BT-20S/L, BT-30, BT-40, SS-BT-56 Cleaning

Wiping

- The connection sites on the breathing tube can be wiped clean with a mild solution of water and fragrance-free liquid household soap or pH neutral detergent.
- The inside of the tube must be completely dried prior to use or storage.

Rinsing and Submersion

- The 3M™ Versaflo™ Storage Plugs BT-957 may be used to aid cleaning of certain BT-Series breathing tubes. When the storage plugs are used, the BT-Series tube meets the protection requirements of IPX5; which means it may also be showered or rinsed to help cleaning.
- The breathing tube can also be immersed in water for cleaning, providing the ends of the breathing tube are not immersed.
- The inside of the tube must be completely dried prior to use or storage.
- Air dry, or dry by connecting to the motor/blower unit and use it to force air through the tube until dry. Orient tube to prevent water from running into blower.
- The storage plugs can then be used to hang the BT-Series tube for drying purposes.
- Optional plastic breathing tube covers (BT-922) may also be used to facilitate cleaning

Video Link

- The video link shows an example of submersing the breathing tube: multimedia.3m.com/mws/media/1275658O/3mversaflo-tr-600-powered-air-respirator-papr-breathing-tube-cleaning.mp4.

BT-63/BT-64 Cleaning

Wiping

- The connection sites on the breathing tube can be wiped clean with a mild solution of water and fragrance-free liquid household soap or pH neutral detergent.
- The inside of the tube must be completely dried prior to use or storage.

Rinsing and Submersion

- The 3M™ Versaflo™ Storage Plugs BT-953 may be used to aid cleaning. When the storage plugs are used, the BT-Series tube meets the protection requirements of IPX5; which means it may also be showered or rinsed to help cleaning.
- The breathing tube can also be immersed in water for cleaning, providing the ends of the breathing tube are not immersed.
- The inside of the tube must be completely dried prior to use or storage.
- Air dry, or dry by connecting to the motor/blower unit and use it to force air through the tube until dry. Orient tube to prevent water from running into blower.
- The storage plugs BT-953 can then be used to hang the BT-Series tube for drying purposes.

Inspection, Cleaning & Storage SA-2500 & SA-2600

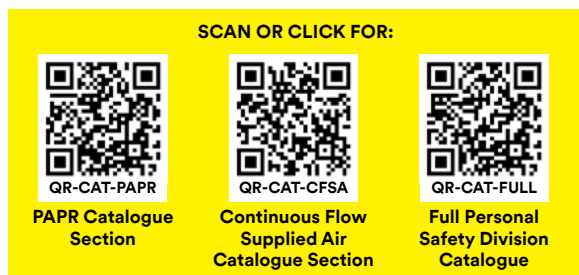
Before cleaning the 3M™ Dual Airline Systems, the components described in this section should be disassembled and inspected for signs of damage due to impact, rough handling, or normal wear that might reduce the degree of protection provided by the unit. Replace damaged parts immediately.

Cleaning/Disinfecting

- Use caution if using solvents to clean the dual airline system. Certain organic solvents may chemically attack the materials used in the 3M™ Dual Airline Breathing Tubes. Follow the procedures outlined below.
- 1. Disconnect the dual airline breathing tube from the facepiece.
- 2. Remove all other parts from the facepiece, i.e. head strap assembly, positive pressure connectors and exhalation valve assembly.
- 3. Wipe down the exterior of the breathing tube with a cloth dampened with neutral detergent. Be careful not to let any of the solution enter into the breathing tube. Other detergents can be used, but should be tested first for adverse reaction.
- 4. Do not use detergents which contain lanolin or other oils since they may soften and/or distort the facepiece lens.
- 5. Rinse in clean water. Water temperature should not exceed 49°C
- 6. Dry in uncontaminated ambient air. If using forced air, do not exceed 49°C

Storage

- The respirator and breathing tubes should be placed in a clean container or bag and stored at ambient temperature in a dry, uncontaminated area protected from bright sunlight.
- Clean the system and breathing tubes prior to storing. Store in a clean/dry environment not exposed to contaminant dusts, gases or vapours. Do not hang blower or headtop by the breathing tube, or hang the blower from the headtop. The system and breathing tube must be fully inspected prior to next use.



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