

3M BT-30

3M Versaflo BT-30 Length Adjusting Breathing Tube Instruction Manual

INTRODUCTION

This manual provides essential instructions for the proper use, maintenance, and care of the 3M Versaflo BT-30 Length Adjusting Breathing Tube. This product is designed to connect 3M Versaflo headtops to 3M Versaflo air sources, forming a critical component of a Powered Air Purifying Respirator (PAPR) system. Adherence to these instructions is crucial for ensuring user safety and optimal product performance.

Important: This product is intended for industrial/occupational use only and not for consumer sale or use. Always consult your on-site safety professional or industrial hygienist for proper product selection and use.

PRODUCT OVERVIEW

The 3M Versaflo BT-30 Breathing Tube is a flexible, length-adjusting component designed for use with 3M Versaflo Powered Air Purifying Respirator (PAPR) systems. It features a Quick Release Swivel (QRS) connection for secure and easy attachment.

- **Universal Connection:** Connects any Versaflo Headtop to any Versaflo air source.
- **Quick Release Swivel (QRS):** Facilitates maximum comfort and ease of use during connection and disconnection.
- **Length Adjusting:** Features a flexible helix design that allows adjustment to the appropriate length for individual wearers.
- **Slim Design:** Lightweight, compact, and well-balanced for user comfort.



Image: The 3M Versaflo BT-30 Length Adjusting Breathing Tube, showing its flexible, corrugated design and blue quick-release swivel connectors at both ends.

SETUP AND CONNECTION

Follow these steps to properly connect the BT-30 breathing tube within your 3M Versaflo PAPR system.

1. **Inspect Components:** Before each use, inspect the breathing tube, headtop, and air source for any signs of damage, wear, or contamination. Do not use damaged equipment.
2. **Connect to Headtop:** Align one end of the BT-30 breathing tube with the air inlet on your Versaflo headtop. Push firmly until the Quick Release Swivel (QRS) connection clicks into place, ensuring a secure seal.
3. **Connect to Air Source:** Align the other end of the BT-30 breathing tube with the air outlet on your Versaflo air source (e.g., TR-600 PAPR unit). Push firmly until the QRS connection clicks into place.
4. **Verify Connection:** Gently pull on both connections to ensure they are securely fastened and cannot be easily detached.

5. **Adjust Length:** The flexible helix design allows for length adjustment. Position the tube to a comfortable length that does not impede movement or create snag hazards.



Image: A close-up view of the 3M Quick Release Swivel (QRS) connection, highlighting its design for easy and secure attachment to Versaflo components.



Image: The 3M Versaflo BT-30 Breathing Tube shown in a curved, adjusted position, demonstrating its flexible helix design for customizable length.

OPERATING INSTRUCTIONS

Once the breathing tube is securely connected, operate your PAPR system according to its specific instructions. The BT-30 tube facilitates the delivery of filtered air from the air source to the headtop.

- Ensure the PAPR unit is fully charged and filters are correctly installed.
- Don the headtop and PAPR unit as per their respective manuals.
- Turn on the PAPR unit and perform a flow check to confirm proper air delivery to the headtop.
- Adjust the breathing tube length as needed for comfort and to prevent interference with work tasks.



Fully adjustable

Features a flexible helix that adjusts to the appropriate length for the individual wearer

Image: A worker wearing a full 3M Versaflo Powered Air Purifying Respirator (PAPR) system, demonstrating the BT-30 breathing tube connecting the PAPR unit on the waist to the headtop.

MAINTENANCE AND STORAGE

Proper maintenance extends the life of your breathing tube and ensures continued performance.

Cleaning

- Disconnect the breathing tube from both the headtop and air source.
- Wipe the exterior of the tube with a soft cloth dampened with mild soap and water.
- Do not immerse the entire tube in water.
- Rinse with a clean, damp cloth and allow to air dry completely before storage or next use.
- Avoid using harsh solvents, abrasive cleaners, or petroleum-based products, as these can damage the material.

Inspection

- Regularly inspect the entire length of the tube for cuts, punctures, tears, or excessive wear.
- Check the Quick Release Swivel (QRS) connections for cracks, damage, or signs of improper sealing.
- Replace the breathing tube immediately if any damage is found or if it no longer forms a secure connection.

Storage

- Store the breathing tube in a clean, dry place away from direct sunlight, extreme temperatures, and corrosive chemicals.
- Avoid kinking or crushing the tube during storage.

TROUBLESHOOTING

This section addresses common issues that may arise during the use of the BT-30 breathing tube.

Problem	Possible Cause	Solution
Breathing tube detaches easily.	Improper connection; damaged QRS connector.	Ensure QRS clicks securely. Inspect connectors for damage; replace tube if damaged.
Reduced airflow to headtop.	Kinked or obstructed tube; issue with PAPR unit or filters.	Check tube for kinks or blockages. Refer to PAPR unit manual for troubleshooting airflow issues.
Tube shows visible damage (cuts, tears).	Physical wear or impact.	Immediately replace the breathing tube. Do not attempt to repair.

SPECIFICATIONS

- **Model Number:** BT-30
- **Brand:** 3M
- **Material:** Vinyl
- **Color:** Black
- **Product Dimensions:** 5.61 x 6.25 x 0.77 inches (packaged)
- **Item Weight:** 0.43 Pounds (6.88 ounces)
- **Connection Type:** 3M Quick Release Swivel (QRS)
- **Compatibility:** All 3M Versaflo Headtops and Air Sources
- **UPC:** 051131173798

IMPORTANT SAFETY INFORMATION

3M industrial and occupational products are designed for use by trained industrial and occupational customers in workplace settings. These products are not intended for consumer use. Proper selection and use must comply with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and other limitations.

Misuse of 3M industrial and occupational products may result in injury, sickness, death, or property damage. For assistance with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. Additional product information is available at www.3M.com.

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or to report any issues, please contact 3M Customer Service or refer to the official 3M website. Keep your purchase receipt for warranty claims.

