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mxuteuk ae510400-d766-452b-9cb2-30b9a72bfff6

mxuteuk Quick Connect Air Hose Fittings Kit Instruction Manual

Model: ae510400-d766-452b-9cb2-30b9a72bfff6

1. Product Overview

The mxuteuk Quick Connect Air Hose Fittings Kit provides a comprehensive set of push-to-connect fittings for pneumatic and vacuum systems. This kit includes various sizes: 1/8", 1/4", 3/8", and 1/2" to accommodate diverse industrial automation and general application needs.

These fittings are engineered with a circular release ring for simplified hose installation and removal. The design incorporates a 360-degree rotatable cap and an internal locking clip spring to ensure secure tube fastening and prevent accidental disconnections.

Constructed from nickel-plated brass and high-quality plastic, the fittings offer durable performance with excellent resistance to acids, corrosion, high tensile strength, and superior aging resistance.

The kit is suitable for a wide range of applications, including the automotive industry, workshop equipment, car air suspension systems, pneumatic tools, and dental equipment.

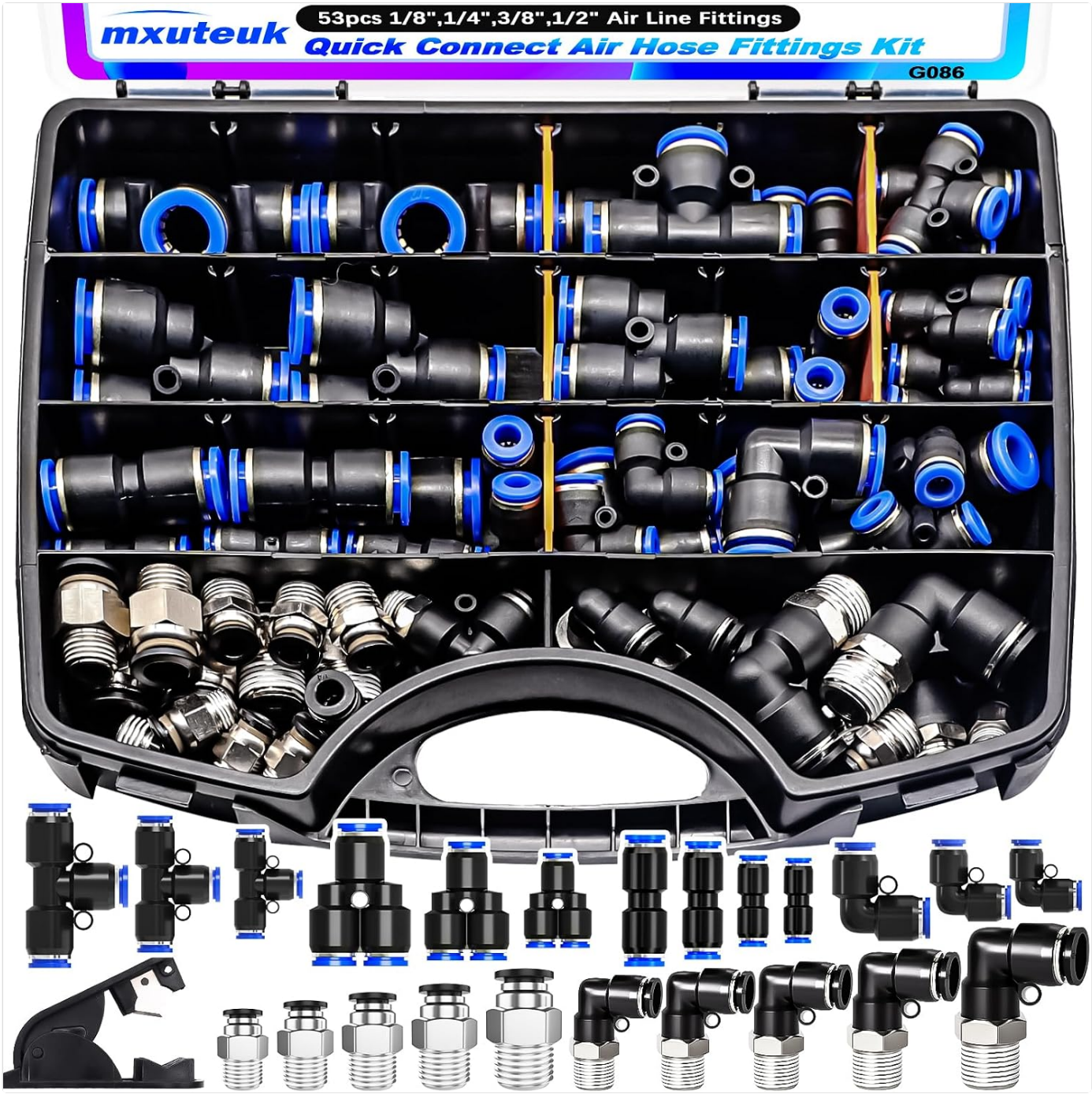


Figure 1: The mxuteuk 53-piece Quick Connect Air Hose Fittings Kit, showcasing various fitting types and sizes organized within a clear plastic storage case.

2. Package Contents

Your mxuteuk Quick Connect Air Hose Fittings Kit (53PCS) includes the following components:

- 12 x Straight Connectors with NPT Thread
- 12 x 90° Elbow Connectors with NPT Thread
- 8 x Splitter Connectors
- 6 x Tee Connectors
- 6 x Elbow Connectors (non-threaded)
- 6 x Straight Connectors (non-threaded)
- 1 x Tubing Cutter
- Pneumatic fitting types for 1/8", 1/4", 3/8", and 1/2" outer diameter (OD) tubes.

All components are provided in a durable and lightweight plastic storage container for organization and portability.



Figure 2: A detailed view of the kit's contents, including straight, elbow, tee, and splitter connectors, along with the tubing cutter. This image also highlights the recommended fluid type, working pressure, and temperature range.

3. Specifications

Feature	Specification
Product Model	ae510400-d766-452b-9cb2-30b9a72bfff6
Fitting Sizes (OD)	1/8", 1/4", 3/8", 1/2"
Material	Nickel-plated Brass, High-quality Plastic
Connector Type	Push-to-Connect
Thread Type (for threaded fittings)	NPT (National Pipe Taper)

Feature	Specification
Working Pressure Range	0-1.0 MPa (0-145 psi)
Operating Temperature Range	0-60°C (32-140°F)
Fluid Type	Compressed Air, Vacuum
Applicable Tube Material	PU (Polyurethane), Nylon, Soft PE (Polyethylene) Tube
Number of Pieces	53

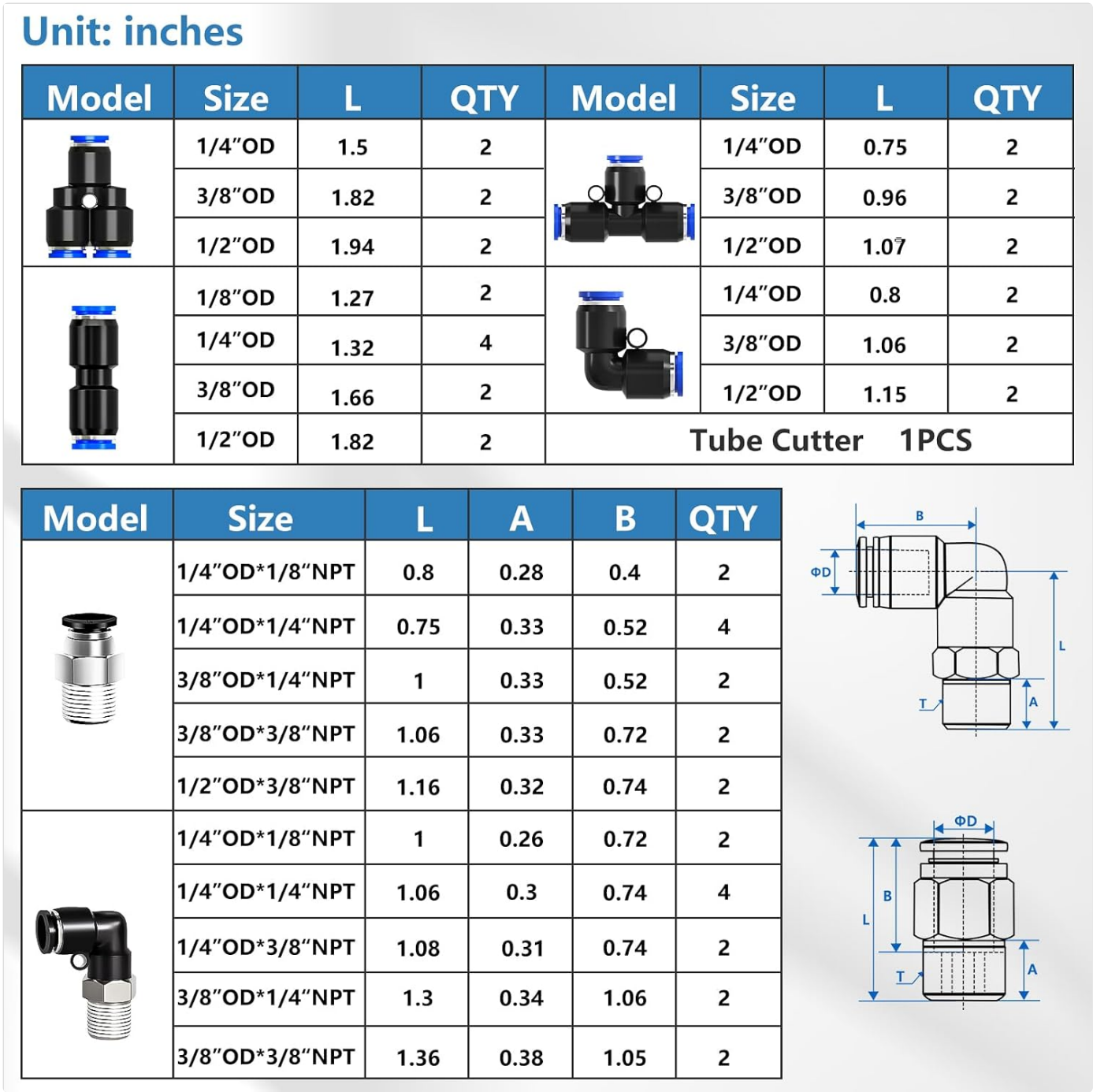


Figure 3: Detailed dimensional specifications and quantities for various fitting models included in the kit, measured in inches.

4. Setup and Installation

4.1 Preparing the Tube

1. Ensure the tube is cut squarely and cleanly. Use the provided tubing cutter for best results. A clean, straight cut prevents leaks and ensures proper sealing.
2. Remove any burrs or sharp edges from the tube end.
3. Verify the tube's outer diameter (OD) matches the specified size of the fitting (1/8", 1/4", 3/8", or 1/2").

4.2 Connecting the Tube

1. Hold the fitting firmly.
2. Insert the prepared tube straight into the fitting until it reaches the bottom and you feel a positive stop. A slight tug on the tube will confirm it is securely seated by the internal locking clip spring.
3. For threaded fittings, apply appropriate thread sealant (e.g., PTFE tape) to the NPT threads before screwing into the port. Tighten only until snug to avoid overtightening and damaging the threads.

4.3 Disconnecting the Tube

1. Ensure the system pressure is relieved before attempting to disconnect any tube.
2. Press the circular release ring (collet) evenly against the fitting body.
3. While holding the release ring down, pull the tube out of the fitting.



Figure 4: An exploded view illustrating the internal composition of a quick connect fitting, detailing the stainless steel circlip for grip, zinc alloy retaining ring seat for high pressure resistance, plastic shell for durability, round release cap for tube removal, and snap ring rubber ring for enhanced sealing.

5. Operating Instructions

Once installed, the mxuteuk Quick Connect Air Hose Fittings are designed for reliable operation within specified parameters.

- **Pressure Range:** Operate within 0-1.0 MPa (0-145 psi). Exceeding this range may lead to fitting failure or leaks.
- **Temperature Range:** Maintain an operating temperature between 0-60°C (32-140°F). Extreme temperatures outside this range can compromise material integrity and sealing performance.
- **Fluid Compatibility:** These fittings are intended for use with compressed air and vacuum systems. Do not use with other fluids unless explicitly approved by the manufacturer.
- **Tube Rotation:** The fitting's cap can rotate 360 degrees after installation, allowing for flexible tube routing without affecting the connection integrity.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your quick connect fittings.

- **Periodic Inspection:** Regularly inspect all connections for signs of wear, damage, or leaks. Pay close attention to the tube ends and the fitting body.
- **Cleanliness:** Keep fittings and tubes free from dirt, dust, and debris, which can interfere with sealing and connection.
- **Tube Condition:** Ensure that the pneumatic tubes remain in good condition, free from kinks, cuts, or excessive abrasion. Replace damaged tubes promptly.
- **Storage:** When not in use, store the fittings in their original plastic container in a clean, dry environment to protect them from damage and contamination.

7. Troubleshooting

7.1 Leaks at Connection Points

- **Cause:** Improper tube insertion. **Solution:** Ensure the tube is pushed fully into the fitting until it bottoms out.
- **Cause:** Damaged or improperly cut tube end. **Solution:** Re-cut the tube end squarely using the tubing cutter and inspect for burrs. Replace the tube if severely damaged.
- **Cause:** Exceeded pressure or temperature limits. **Solution:** Verify operating conditions are within the specified range (0-1.0 MPa / 0-145 psi, 0-60°C / 32-140°F).
- **Cause:** Contamination in the fitting. **Solution:** Disconnect, clean the fitting and tube end, then re-insert.

7.2 Difficulty Connecting/Disconnecting Tube

- **Cause:** Release ring not fully depressed. **Solution:** Press the circular release ring firmly and evenly against the fitting body while pulling the tube.
- **Cause:** Tube is not cut straight or has burrs. **Solution:** Re-cut the tube end cleanly and squarely.
- **Cause:** Excessive force used during connection, damaging the internal mechanism. **Solution:** Ensure tube is inserted smoothly. If fitting is damaged, replace it.

8. Warranty and Support

For information regarding warranty coverage or technical support for your mxuteuk Quick Connect Air Hose Fittings Kit, please refer to the product packaging or contact mxuteuk customer service directly. Keep your purchase receipt for warranty claims.

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