

Delixike M8003

Delixike M8003 Straight Fitting User Manual

For Maxline 3/4" Rapidair Tubing Systems

INTRODUCTION

The Delixike M8003 Straight Fitting is engineered for connecting 3/4" Rapidair tubing within Maxline air compressor systems. Constructed from lead-free 58 brass with a nickel-plated finish, this fitting offers durability and corrosion resistance. It features a male NPT thread and a compression design with a double O-ring seal to ensure a secure, leak-proof connection for systems operating up to 175 psi.

SAFETY INFORMATION

Always observe the following safety precautions when installing or maintaining the M8003 Straight Fitting and working with pressurized air systems:

- Ensure the air supply is completely depressurized before attempting any installation, maintenance, or disconnection.
- Wear appropriate personal protective equipment (PPE), including safety glasses, to protect against potential air or debris expulsion.
- Verify that all components, including tubing and other fittings, are compatible with the system's pressure and temperature ratings.
- Do not exceed the maximum working pressure of 175 psi for this fitting.
- Inspect all connections for leaks after installation and before operating the system at full pressure.
- Keep children and unauthorized personnel away from the work area.

SETUP AND INSTALLATION

The M8003 Straight Fitting is designed for straightforward installation with 3/4" Rapidair tubing in Maxline systems. Follow these steps for a secure and leak-free connection:

1. **Prepare Tubing:** Ensure the end of the 3/4" Rapidair tubing is cut clean and square, free from burrs or damage.
2. **Disassemble Fitting:** Unscrew the compression nut from the fitting body. The fitting consists of the main body, a compression ring, and a double O-ring seal.

3. **Insert Tubing:** Slide the compression nut onto the tubing, followed by the compression ring. Then, carefully push the tubing into the fitting body until it bottoms out against the internal stop. Ensure the double O-ring seal is properly seated within the fitting body.
4. **Tighten Connection:** Hand-tighten the compression nut onto the fitting body. Then, use a wrench to tighten an additional 1 to 1.5 turns past hand-tight. Avoid over-tightening, which can damage the O-rings or tubing.
5. **Connect NPT Thread:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the fitting. Screw the fitting into the desired female NPT port and tighten securely with a wrench.
6. **Leak Test:** After installation, slowly pressurize the system and check all connections for leaks using a soapy water solution. Bubbles indicate a leak. If a leak is detected, depressurize the system and re-tighten the connection.



Image: The Delixike M8003 Straight Fitting, showing its nickel-plated brass construction and male NPT thread. This fitting is designed for secure connections in Maxline 3/4" Rapidair tubing systems.

OPERATING INSTRUCTIONS

Once properly installed and leak-tested, the Delixike M8003 Straight Fitting operates as an integral part of your Maxline

3/4" Rapidair tubing system. It is designed to maintain a secure connection under continuous air pressure up to 175 psi. No specific operational steps are required for the fitting itself beyond ensuring it is correctly installed and free of leaks.

- Regularly monitor the system pressure to ensure it does not exceed the fitting's maximum rating.
- Avoid subjecting the fitting to excessive vibration or physical impact, which could compromise the seal.

MAINTENANCE

To ensure the longevity and reliable performance of your Delixike M8003 Straight Fitting, periodic inspection and maintenance are recommended:

- **Visual Inspection:** Periodically inspect the fitting for any signs of corrosion, physical damage, or wear. Check the tubing around the fitting for cracks or deterioration.
- **Leak Checks:** Re-check connections for leaks using soapy water, especially after any system modifications or if pressure drops are observed.
- **Cleaning:** If necessary, clean the exterior of the fitting with a soft cloth and mild detergent. Avoid abrasive cleaners or solvents that could damage the nickel plating.
- **O-Ring Integrity:** While the double O-ring seal is designed for durability, extreme conditions or prolonged use may necessitate inspection or replacement. If persistent leaks occur at the compression joint, depressurize the system and inspect the O-rings for cuts, hardening, or deformation.

TROUBLESHOOTING

Most issues related to the M8003 Straight Fitting involve air leaks. Follow these steps to troubleshoot common problems:

Problem	Possible Cause	Solution
Air leak at compression joint (tubing connection)	Tubing not fully inserted; compression nut loose; damaged O-rings; damaged tubing end.	Depressurize system. Ensure tubing is fully seated. Tighten compression nut an additional 1/4 to 1/2 turn. Inspect and replace O-rings if damaged. Re-cut tubing end if damaged.
Air leak at NPT threaded connection	Insufficient thread sealant; NPT connection loose.	Depressurize system. Disconnect, reapply thread sealant (PTFE tape or pipe dope), and re-tighten the NPT connection.
Fitting appears damaged or corroded	Physical impact; exposure to harsh chemicals; prolonged use.	Depressurize system. Replace the fitting immediately to prevent system failure.

SPECIFICATIONS

- **Brand:** Delixike
- **Model Number:** M8003
- **Connector Type:** Adapter (Straight Fitting)
- **Compatibility:** Maxline 3/4-inch systems, 3/4" Rapidair Tubing
- **Thread Type:** Male NPT
- **Material:** Lead-Free 58 Brass
- **Exterior Finish:** Nickel-Plated
- **Seal Type:** Double O-Ring Compression Seal

- **Maximum Working Pressure:** 175 psi
- **Item Weight:** 0.13 Pounds
- **Color:** Silvery
- **UPC:** 708436430551
- **ASIN:** B0DXDTC117

WARRANTY INFORMATION

Specific warranty details for the Delixike M8003 Straight Fitting are not provided in this manual. For information regarding product warranty, please refer to the product packaging, the seller's terms and conditions, or contact Delixike directly through their official website or customer service channels.

SUPPORT

If you encounter issues not covered in this manual or require further assistance, please contact the seller or manufacturer. Ensure you have your product model number (M8003) and purchase details available when seeking support.

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