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› [Delixike](#) /

› Delixike Maxline M8002 1/2-Inch Straight Fitting User Manual

Delixike M8002

Delixike Maxline M8002 1/2-Inch Straight Fitting User Manual

Model: M8002

1. INTRODUCTION

The Delixike Maxline M8002 Straight Fitting is engineered for reliable connections within compressed air systems. This fitting facilitates the secure attachment of 1/2-inch Maxline tubing to a 1/2-inch Male NPT threaded port. Constructed from durable nickel-plated brass, it features a double O-ring compression design to ensure a leak-free seal and allows for tubing removal if necessary. This manual provides essential information for the safe and effective installation, operation, and maintenance of your M8002 fitting.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines when working with compressed air systems and fittings:

- **Depressurize System:** Before installing, removing, or performing maintenance on the fitting, ensure the compressed air system is fully depressurized.
- **Wear Eye Protection:** Always wear appropriate eye protection when working with compressed air.
- **Check Pressure Ratings:** Do not exceed the maximum working pressure of 175 psi for this fitting. Ensure all components in your air system are rated for the intended operating pressure.
- **Proper Tubing:** Use only Maxline 1/2-inch tubing with this fitting. Using incompatible tubing may result in leaks or system failure.
- **Inspect Components:** Before installation, inspect the fitting and tubing for any damage, cracks, or deformities. Do not use damaged components.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified professional.

3. PACKAGE CONTENTS

The package for the Delixike Maxline M8002 Straight Fitting typically includes:

- 1 x Delixike Maxline M8002 Straight Fitting

4. SPECIFICATIONS

| | |
|-------------|-------|
| Part Number | M8002 |
|-------------|-------|

| | |
|---------------------------------------|-------------------------|
| Material | Nickel-plated Brass |
| Maximum Working Pressure | 175 psi |
| Tubing Compatibility | Maxline 1/2-Inch Tubing |
| Thread Type | 1/2-Inch Male NPT |
| Product Dimensions (L x W x H) | 6 x 3 x 1 inches |
| Item Weight | 3.2 ounces |

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the M8002 Straight Fitting:

- 1. Prepare Tubing:** Ensure the end of the Maxline 1/2-inch tubing is cut clean and square. Remove any burrs or sharp edges that could damage the O-rings.
- 2. Insert Tubing:** Firmly push the prepared tubing into the compression end of the M8002 fitting until it bottoms out. You should feel a slight resistance as it passes the O-rings.
- 3. Secure Connection:** The double O-ring compression design creates a secure seal. No additional clamps or sealants are typically required for the tubing connection. The tubing can be removed from the fitting if needed by pulling firmly while wiggling slightly.
- 4. Thread into Port:** Apply appropriate thread sealant (e.g., PTFE tape or pipe thread compound) to the 1/2-inch Male NPT threads of the fitting.
- 5. Tighten:** Thread the fitting into the desired 1/2-inch Female NPT port. Hand-tighten, then use a wrench to tighten an additional 1 to 2 turns past hand-tight, or as recommended by the thread sealant manufacturer, to achieve a leak-free seal. Do not overtighten.
- 6. Test System:** After installation, slowly pressurize the air system and check all connections for leaks using a soapy water solution. Bubbles indicate a leak.



Image 1: The Delixike Maxline M8002 Straight Fitting, showing its design for connecting 1/2-inch tubing to a 1/2-inch Male NPT port.

6. OPERATING INSTRUCTIONS

Once properly installed and tested, the Delixike Maxline M8002 Straight Fitting functions as a static connection point within your compressed air system. No specific operational steps are required for the fitting itself. Ensure that the overall compressed air system is operated within its specified pressure limits and that all connections remain secure and leak-free during use.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and reliability of your compressed air system:

- **Periodic Inspection:** Periodically inspect the fitting and surrounding tubing for any signs of wear, damage, or leaks. Look for cracks, corrosion, or discolored areas.
- **Leak Checks:** Routinely perform leak checks with soapy water, especially after any system modifications or if a drop in pressure is observed.
- **Cleaning:** If necessary, clean the exterior of the fitting with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners that could damage the nickel-plated brass finish.
- **O-ring Integrity:** If the tubing is removed and reinserted frequently, inspect the internal O-rings for damage

or degradation. Replace the fitting if O-rings are compromised.

8. TROUBLESHOOTING

Most issues with fittings in compressed air systems relate to leaks. Here are common troubleshooting steps:

- **Leak at NPT Thread:** If a leak is detected at the 1/2-inch Male NPT thread, depressurize the system, remove the fitting, reapply thread sealant, and re-tighten. Ensure proper tightening without overtightening.
- **Leak at Tubing Connection:** If a leak is detected where the tubing enters the fitting, depressurize the system. Ensure the tubing is fully inserted and seated against the internal stop. Inspect the tubing end for damage or improper cuts. If necessary, remove the tubing, re-cut a fresh end, and reinsert. If the leak persists, the internal O-rings may be damaged, and the fitting should be replaced.
- **Damaged Fitting:** If the fitting itself shows visible signs of damage (cracks, severe corrosion), it must be replaced immediately.

9. WARRANTY AND SUPPORT

This Delixike product is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, claims, or technical support, please refer to the original purchase documentation or contact Delixike customer service through their official channels. Keep your proof of purchase for warranty purposes.