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## Milton S-716

# Milton S-716 1/4" Male NPT M-Style Air Quick Connect Coupler Instruction Manual

Your guide to installation, operation, and maintenance of your Milton S-716 Air Coupler.

## 1. PRODUCT OVERVIEW

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The Milton S-716 is a 1/4" Male NPT M-Style Air Quick Connect Coupler, designed for pneumatic applications. This brass coupler features a 1/4" basic flow size and is engineered for durability and reliable performance in industrial settings.



*Image 1: Milton S-716 1/4" Male NPT M-Style Air Quick Connect Coupler. This image displays the brass coupler with its male NPT threads and quick-connect mechanism.*

## 2. SETUP AND INSTALLATION

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Follow these steps for proper installation of the Milton S-716 coupler:

1. **Preparation:** Ensure the air line or tool connection point is clean and free of debris.
2. **Thread Sealing:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the 1/4" Male NPT threads of the coupler. This helps prevent air leaks.
3. **Connection:** Thread the coupler into the female NPT port of your air compressor, hose, or air tool. Tighten securely with a wrench, but do not overtighten, as this can damage the threads.
4. **Compatibility Check:** This M-Style coupler is designed to interchange with other M-Style plugs and couplers that comply with military specification MIL-C-4109.



Image 2: Milton S-716 Coupler in Retail Packaging. This image shows the coupler as it appears in its original packaging, useful for product identification.

### 3. OPERATING INSTRUCTIONS

The Milton S-716 coupler provides a quick and secure connection for pneumatic tools and hoses.

- **Connecting:** To connect an M-Style plug, simply push the plug firmly into the coupler. The coupler's sleeve will automatically retract and then snap forward to secure the connection.
- **Disconnecting:** To disconnect, pull back the knurled sleeve on the coupler. The plug will release, allowing for quick tool changes.
- **Airflow:** This coupler supports a maximum airflow of 40 standard cubic feet per minute (SCFM).
- **Pressure:** The maximum working pressure for this coupler is 300 pounds per square inch (PSI).

### 4. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your coupler.

- **Cleaning:** Periodically clean the coupler to remove dirt, dust, and debris that may accumulate in the quick-connect mechanism. Use a clean cloth and avoid harsh chemicals.
- **Lubrication:** Apply a small amount of pneumatic tool oil or silicone-based lubricant to the moving parts

of the coupler and the Buna-N seal to maintain smooth operation and prevent wear.

- **Seal Inspection:** Inspect the Buna-N seal for any signs of wear, cracking, or damage. A damaged seal can lead to air leaks. Replace if necessary.
- **Storage:** Store the coupler in a clean, dry environment when not in use to prevent corrosion and damage.

## 5. TROUBLESHOOTING

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If you encounter issues with your Milton S-716 coupler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Air Leak at Connection	Damaged or worn Buna-N seal; improper thread sealant; loose connection.	Inspect and replace seal if damaged. Reapply thread sealant and retighten connection.
Difficulty Connecting/Disconnecting	Dirt or debris in mechanism; lack of lubrication; incompatible plug.	Clean coupler and apply lubricant. Ensure plug is M-Style compatible.
Reduced Airflow	Obstruction in coupler; system pressure too low.	Inspect coupler for blockages. Check air compressor and system for adequate pressure.

## 6. SPECIFICATIONS

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Key technical specifications for the Milton S-716 Air Quick Connect Coupler:

- **Model:** S-716
- **Connection Type:** 1/4" Male NPT (National Pipe Thread)
- **Style:** M-Style (Industrial)
- **Material:** Brass
- **Seal Material:** Buna-N
- **Maximum Working Pressure:** 300 PSI
- **Maximum Airflow:** 40 SCFM (Standard Cubic Feet per Minute)
- **Maximum Temperature:** 250°F (121°C)
- **Dimensions (L x W x H):** Approximately 2.06 x 0.94 x 0.94 inches
- **Item Weight:** Approximately 1.6 ounces
- **Compatibility:** Interchanges with all manufacturers complying with military specification MIL-C-4109.



Image 3: Milton S-716 Coupler with Specifications Highlighted. This image visually details the NPT thread size, M-Style designation, and maximum working pressure of 300 PSI.

## 7. WARRANTY AND SUPPORT

The Milton S-716 Air Quick Connect Coupler comes with a **1-Year Limited Warranty** from the manufacturer, Milton Industries. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or further product information, please contact Milton Industries directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.