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JUCMJXQEQ PM14x1

JUCMJXQEQ Pneumatic C Type Quick Coupling PM Metric M14x1 Male Thread Air Hose Connector Instruction Manual

1. Introduction

This instruction manual provides essential information for the safe and effective use of the JUCMJXQEQ C Type Quick Coupling PM Metric M14x1 Male Thread Air Hose Connector. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper function and longevity of the product.

2. Product Overview

The JUCMJXQEQ C Type Quick Coupling is designed for quick connection and disconnection of air lines and pneumatic tools. It features a male thread for secure attachment and a chrome finish for enhanced durability and resistance to rust and erosion. The female fitting (not included in this specific product, but part of the quick coupling system) contains a valve to prevent air escape during tool changes.



Figure 1: Various C Type Quick Couplings. This image displays four different configurations of the C Type quick coupling, each featuring a male threaded end for connection to air lines or tools. The couplings are made of a chrome-finished metal.

Key Features:

- **Quick Connection:** Enables rapid attachment and detachment of pneumatic tools and air lines.
- **Durable Material:** Constructed from zinc-plated material with a chrome finish for rust and erosion resistance.
- **Metric Thread:** Specifically designed with M14x1 metric male threading.
- **Compatibility:** Primarily used for air piping and pneumatic tools. *Note: Not suitable for European and American standard connectors.*

3. Specifications

Attribute	Value
Model Number	PM14x1
Thread Type	M14x1 Male Metric Thread
Material	Zinc Plated with Chrome Finish
Item Weight	1.76 ounces (approximately 50 grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches (approximately 30 x 20 x 10 mm)
Compatibility	Air piping and pneumatic tools (Not compatible with European/American connectors)



Figure 2: Dimensional Diagram of PM14x1 Coupling. This diagram illustrates the key dimensions of the PM14x1 quick coupling, showing a total length of 35.9mm and a thread diameter of 13.6mm (M14x1).

4. Safety Information

- Always ensure the air supply is turned off and pressure is relieved before connecting or disconnecting fittings.
- Wear appropriate personal protective equipment (PPE), such as safety glasses, when working with compressed air systems.
- Do not exceed the maximum operating pressure specified for your pneumatic system.
- Verify that all connections are secure and leak-free before restoring air pressure.
- This product is designed for air applications only. Do not use with other gases or liquids unless explicitly stated by the manufacturer.
- Ensure compatibility with your existing pneumatic system. This fitting is**not suitable for European and American standard connectors**.

5. Setup and Installation

1. **Prepare the Air Line/Tool:** Ensure the air line or pneumatic tool you intend to connect has a compatible female quick coupling or threaded port.
2. **Thread Connection:** Carefully thread the male end of the PM14x1 quick coupling into the corresponding female threaded port. Hand-tighten first to avoid cross-threading.
3. **Secure Connection:** Use an appropriate wrench to tighten the fitting securely. Do not overtighten, as this can damage the threads or the fitting. A snug fit is sufficient to prevent leaks.
4. **Leak Check:** After installation, slowly restore air pressure to the system and check for any air leaks using a soapy water solution. Bubbles indicate a leak. If a leak is detected, relieve pressure, re-tighten the fitting, and re-check.



Figure 3: Male Threaded Quick Couplings. This image shows two C Type quick couplings, highlighting their male threaded ends which are designed to connect to pneumatic systems.

6. Operating Instructions

This PM14x1 quick coupling is a male connector designed to be inserted into a compatible female quick coupling. The operation involves connecting and disconnecting the male fitting from the female fitting.

1. **Connecting:**

- Ensure the air supply to the female coupling is off or depressurized.
- Slide back the collar on the female quick coupling.
- Insert the male PM14x1 fitting fully into the female coupling.
- Release the collar; it should snap forward, securing the connection.
- Gently pull on the male fitting to confirm it is securely locked.

2. **Disconnecting:**
   - Turn off the air supply and relieve any pressure in the line before disconnecting.
   - Slide back the collar on the female quick coupling.
   - The male PM14x1 fitting will release.
   - Remove the male fitting from the female coupling.

7. Maintenance

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

- **Cleaning:** Periodically clean the exterior of the fitting with a clean, dry cloth. Avoid abrasive cleaners or solvents that could damage the chrome finish.
- **Inspection:** Regularly inspect the fitting for signs of wear, damage, or corrosion. Check the threads for any deformities.
- **Lubrication:** If the connection mechanism (collar on the female coupling) becomes stiff, apply a small amount of pneumatic-grade lubricant to the moving parts. Avoid over-lubrication.
- **Storage:** Store fittings in a clean, dry environment when not in use to prevent contamination and corrosion.
- **Replacement:** Replace any fitting that shows significant wear, damage, or leakage to maintain system integrity and safety.

8. Troubleshooting

Problem	Possible Cause	Solution
Air Leak at Connection	• Improperly tightened thread. • Damaged threads. • Worn or damaged O-ring/seal in female coupling. • Incompatible fitting.	• Relieve pressure, re-tighten connection. • Inspect threads for damage; replace if necessary. • Inspect female coupling's seal; replace if damaged. • Ensure the female coupling is compatible with C Type PM14x1 metric fittings.
Difficulty Connecting/Disconnecting	• Dirt or debris in coupling. • Lack of lubrication. • Damaged coupling mechanism. • Pressure not fully relieved.	• Clean coupling thoroughly. • Apply pneumatic-grade lubricant to female coupling's collar. • Inspect for damage; replace if necessary. • Ensure air supply is off and pressure is fully relieved before attempting connection/disconnection.

9. Warranty and Support

Specific warranty information for this JUCMJXQEQ product is not provided in the available documentation. For warranty details, technical support, or replacement parts, please contact the manufacturer or your point of purchase directly.
Manufacturer: JUCMJXQEQ
Model: PM14x1

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