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Takagi A4102

Takagi EARTH MAN MAIL CONNECTOR A4102 User Manual

1. PRODUCT OVERVIEW

The Takagi EARTH MAN MAIL CONNECTOR A4102 is a pneumatic fitting designed for reliable and efficient connection of pipes to tubes. This connector features a convenient one-touch mechanism for quick tube insertion and removal, simplifying your pneumatic system setup. It is engineered for durability and performance in various applications.



A close-up view of the Takagi EARTH MAN MAIL CONNECTOR A4102, showing the push-to-connect end for a 6mm tube and the R1/4 threaded end with sealant.

Key Features:

- **One-Touch Connection:** Facilitates quick and easy tube insertion.
- **Tube Outer Diameter:** Designed for 0.2 inches (6 mm) tubes.
- **Screw Diameter:** R1/4 (PT1/4) for secure threaded connections.
- **Durable Construction:** Main body made from PBT resin and brass.
- **Maximum Operating Pressure:** Rated for up to 1.0 MPa.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the connector. Failure to follow these guidelines may result in injury or damage to equipment.

- Always depressurize the pneumatic system completely before attempting any installation, maintenance, or disconnection procedures.
- Ensure that the tube outer diameter (6 mm) and the screw diameter (R1/4) match the specifications of your system to prevent leaks and failures.
- Do not exceed the maximum operating pressure of 1.0 MPa. Operating above this limit can cause connector failure.
- Wear appropriate personal protective equipment (PPE), such as safety glasses, when working with pneumatic systems.
- Avoid using damaged or worn tubes, as this can compromise the seal and lead to leaks.
- Keep the connector clean and free from dirt, debris, or foreign objects that could interfere with its operation.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package.

- One (1) Takagi EARTH MAN MAIL CONNECTOR A4102

4. SPECIFICATIONS

Manufacturer	Takagi
Part Number	A4102
Item Model Number	A4102
Tube Outer Diameter	0.2 inches (6 mm)
Screw Diameter	R1/4 (PT1/4)
Main Body Material	PBT resin / Brass
Maximum Operating Pressure	1.0 MPa
Item Weight	0.705 ounces
Package Dimensions	2.56 x 1.77 x 0.75 inches
ASIN	B00KNEKEYA
Date First Available	September 26, 2014

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the Takagi EARTH MAN MAIL CONNECTOR A4102:

1. **Depressurize System:** Ensure the pneumatic system is completely depressurized before beginning installation.

2. **Prepare Tube:** Cut the end of the tube squarely and cleanly. Remove any burrs or sharp edges that could damage the connector's internal seal.
3. **Insert Tube:** Firmly push the prepared tube into the push-to-connect end of the connector until it reaches the internal stop. A slight tug on the tube will confirm it is securely seated.
4. **Thread Connection:** Apply appropriate thread sealant (e.g., PTFE tape or liquid sealant) to the R1/4 threaded end of the connector. Thread the connector into the corresponding port on your pneumatic component. Tighten securely, but do not overtighten, to prevent damage to the threads or connector body.
5. **Verify Connection:** Once installed, slowly re-pressurize the system and check for any leaks at both the tube and threaded connections.

6. OPERATING INSTRUCTIONS

The Takagi EARTH MAN MAIL CONNECTOR A4102 is designed for straightforward operation once installed.

- **Connection:** As described in the setup section, simply push the tube into the connector until it locks.
- **Disconnection:** To remove the tube, first ensure the system is depressurized. Then, push the release collar (the black ring) towards the connector body and simultaneously pull the tube out. Do not attempt to pull the tube out without depressing the release collar, as this can damage the connector and the tube.

7. MAINTENANCE

Regular inspection and basic maintenance will ensure the longevity and reliable performance of your connector.

- **Visual Inspection:** Periodically inspect the connector for any signs of wear, cracks, deformation, or corrosion. Check the tube for nicks, cuts, or flattening near the connection point.
- **Leak Checks:** Regularly check for air leaks around both the tube and threaded connections, especially after any system modifications or if performance issues are observed.
- **Cleaning:** Keep the connector clean and free from dust, dirt, and other contaminants. Use a clean, dry cloth for cleaning. Avoid harsh chemicals that could damage the materials.
- **Replacement:** If the connector shows signs of significant wear, damage, or if leaks persist despite proper installation, replace it immediately with a new Takagi EARTH MAN MAIL CONNECTOR A4102.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

- **Issue:** Air leakage at the tube connection.
Solution: Ensure the tube is fully inserted into the connector. Check the tube end for a clean, square cut and absence of burrs or damage. If the tube is damaged, recut or replace it. If the issue persists, the connector's internal seal may be worn; replace the connector.
- **Issue:** Air leakage at the threaded connection.
Solution: Verify that appropriate thread sealant (e.g., PTFE tape) was applied correctly and that the connector is tightened securely. Do not overtighten. Check the threads on both the connector and the

mating port for damage. If threads are damaged, replace the affected component.

- **Issue:** Difficulty inserting or removing the tube.

Solution: For insertion, ensure the tube end is clean and free of burrs. For removal, make sure the release collar is fully depressed towards the connector body before pulling the tube. If the tube is deformed or has excessive burrs, it may be difficult to remove or insert; trim or replace the tube.

- **Issue:** Connector appears damaged.

Solution: Do not use a damaged connector. Replace it immediately to prevent system failure or safety hazards.

9. WARRANTY AND SUPPORT

For specific warranty information regarding the Takagi EARTH MAN MAIL CONNECTOR A4102, please refer to the documentation provided at the point of purchase or contact your retailer. For technical support or inquiries, please reach out to your authorized Takagi distributor or the manufacturer directly.