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> Dixon U072 Shark-Bite Straight Connector Forged Brass (1/2 Tube x 1/2 FNPT) Instruction Manual

Dixon U072

Dixon U072 Shark-Bite Straight Connector Instruction Manual

FORGED BRASS (1/2 TUBE x 1/2 FNPT)

1. Introduction

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the Dixon U072 Shark-Bite Straight Connector. This forged brass connector is designed for joining 1/2 inch tubing to 1/2 inch Female National Pipe Taper (FNPT) threads, providing a secure and reliable connection in plumbing systems.



Image 1.1: The Dixon U072 Shark-Bite Straight Connector. This image displays the brass fitting with a push-to-connect end for tubing and a threaded end for FNPT connections.

2. Safety Information

Read all instructions carefully before installation. Failure to follow these instructions may result in property damage, injury, or system failure.

- Always turn off the main water supply before beginning any plumbing work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all connections are properly seated and tightened to prevent leaks.
- Do not use this connector for applications exceeding its specified pressure and temperature ratings.
- Consult local plumbing codes and regulations for proper installation practices.

3. Product Overview

The Dixon U072 connector features a Shark-Bite push-to-connect end and a Female National Pipe Taper (FNPT) threaded end. It is constructed from forged brass, ensuring durability and corrosion resistance.

- **Shark-Bite End:** Designed for quick and secure connection to 1/2 inch copper, PEX, CPVC, or PE-RT tubing without soldering, clamps, or glue.
- **FNPT End:** Features 1/2 inch female NPT threads for connecting to male NPT threaded pipes or fittings.
- **Material:** Forged Brass, providing strength and longevity.

4. Setup and Installation

Follow these steps for proper installation of the Dixon U072 Shark-Bite Straight Connector:

1. Prepare the Tubing:

- Cut the tubing squarely using a tube cutter. Ensure the cut is clean and free of burrs.
- Use a deburring tool to remove any sharp edges from the inside and outside of the tubing.
- Mark the insertion depth on the tubing. For 1/2 inch tubing, the insertion depth is approximately 1 inch (25 mm).

2. Connect the Tubing (Shark-Bite End):

- Push the prepared tubing firmly into the Shark-Bite end of the connector until it reaches the marked insertion depth. You should feel a slight resistance as the tube passes through the O-ring and then a firm stop as it engages the grab ring.
- Pull back on the tubing to ensure it is securely seated. It should not pull out easily.

3. Connect the FNPT End:

- Apply appropriate thread sealant (e.g., PTFE tape or pipe thread compound) to the male NPT threads of the pipe or fitting you are connecting to.
- Thread the FNPT end of the Dixon U072 connector onto the male NPT threads.
- Hand-tighten, then use a wrench to tighten an additional 1 to 2 turns past hand-tight. Do not overtighten, as this can damage the threads or the fitting.

4. Test for Leaks:

- Slowly turn on the main water supply.
- Inspect all connections for any signs of leakage. If a leak is detected, turn off the water supply and re-examine the connection.

5. Operating

Once properly installed, the Dixon U072 Shark-Bite Straight Connector operates as a passive component within your plumbing system, providing a permanent and leak-free connection. No further operational steps

are required beyond ensuring the system is pressurized and free of leaks.

6. Maintenance

The Dixon U072 Shark-Bite Straight Connector is designed for long-term, maintenance-free operation under normal conditions. Regular maintenance is generally not required for the connector itself, but periodic inspection of the entire plumbing system is recommended.

- **Visual Inspection:** Periodically check the connector and surrounding pipes for any signs of corrosion, damage, or leaks.
- **Cleaning:** If necessary, clean the exterior of the connector with a soft cloth and mild soap. Avoid abrasive cleaners.
- **System Integrity:** Ensure that the overall plumbing system is maintained according to standard practices to prevent issues that could affect the connector.

7. Troubleshooting

Most issues related to plumbing connectors are due to improper installation. Refer to the following common problems and solutions:

- **Leak at Shark-Bite Connection:**
 - *Cause:* Tubing not fully inserted, burrs on tubing, damaged O-ring, or incorrect tubing type/size.
 - *Solution:* Ensure tubing is cut squarely, deburred, and fully inserted to the correct depth. Verify tubing compatibility and size. If the O-ring is damaged, the connector may need replacement.
- **Leak at FNPT Threaded Connection:**
 - *Cause:* Insufficient thread sealant, damaged threads, or improper tightening.
 - *Solution:* Turn off water, disassemble, reapply thread sealant (PTFE tape or pipe dope), and re-tighten appropriately. Inspect threads for damage.
- **Difficulty Inserting Tubing:**
 - *Cause:* Tubing not deburred, tubing out of round, or incorrect tubing size.
 - *Solution:* Ensure tubing is properly deburred and perfectly round. Verify tubing size matches the connector.

8. Specifications

Attribute	Detail
Model Number	U072
Brand	Dixon
Material	Forged Brass
Connector Type	Straight Connector (Shark-Bite to FNPT)
Tube Connection Size	1/2 inch
FNPT Connection Size	1/2 inch
Thread Type	NPT

Color	Copper (Brass finish)
Item Weight	2.56 ounces (0.16 Pounds)
Certification	NSF 14, NSF 61

9. Warranty and Support

For information regarding product warranty, technical support, or further assistance, please contact Dixon customer service or visit the official Dixon website. Keep your purchase receipt for warranty claims.

Note: Specific warranty terms may vary and are subject to the manufacturer's policies at the time of purchase.