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Beduan 1yf-03821-mvb

Beduan 3/8" NPT Brass Mini Ball Valve Instruction Manual

Model: 1yf-03821-mvb

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Beduan 3/8" NPT Brass Mini Ball Valve. Please read these instructions carefully before use and retain them for future reference.

2. Product Overview

The Beduan 3/8" NPT Brass Mini Ball Valve is a compact shut-off valve designed for various fluid and air control applications. It features a chrome-plated brass construction for durability and a quarter-turn handle for quick and easy operation. This valve is suitable for use as a shut-off or water-saving adjustable valve.



Image 2.1: Beduan 3/8" NPT Brass Mini Ball Valve.

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Video 2.1: An overview of Beduan Brass NPT Ball Valves, demonstrating their application and features.

3. Specifications

Feature	Detail
Material	Chrome Plated Brass
Size	3/8" NPT Male x 3/8" NPT Female

Thread OD/ID	Approximately 17 mm (0.675")
Valve Type	Ball Valve
Operation	Quarter-turn
Number of Ports	2
Connector Type	Threaded

Important Note on NPT Threading: Pipe size is a nominal industry designation and does not represent the true inside or outside diameter. Always refer to the actual outside diameter for accurate fitting selection.



Image 3.1: Guide for selecting the correct NPT fitting size based on outside diameter.

4. Safety Information

- Always ensure the main water or air supply is turned off before installing or removing the valve.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation.
- Do not overtighten connections, as this can damage threads or the valve body.

- Verify that the valve's pressure and temperature ratings are suitable for your application.
- This valve is designed for NPT threads. Do not attempt to use it with compression threads, as this will result in leaks and potential damage.

5. Setup and Installation

Follow these steps for proper installation of your Beduan Mini Ball Valve:

1. **Prepare the Connection Points:** Ensure that the male and female NPT threads on your pipes or hoses are clean and free of debris.
2. **Apply Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the valve and the connecting pipe/hose. This helps ensure a watertight and airtight seal.
3. **Thread the Valve:** Carefully thread the valve onto the male NPT connection by hand. Ensure it is straight and not cross-threaded.
4. **Tighten the Connection:** Use a wrench to gently tighten the valve. Do not overtighten. The goal is a snug, leak-free connection, not excessive force.
5. **Verify Thread Type:** This valve uses NPT (National Pipe Tapered) threads. It is not compatible with compression threads commonly found on braided faucet connectors or compression stop valves. Using the wrong thread type will cause leaks.

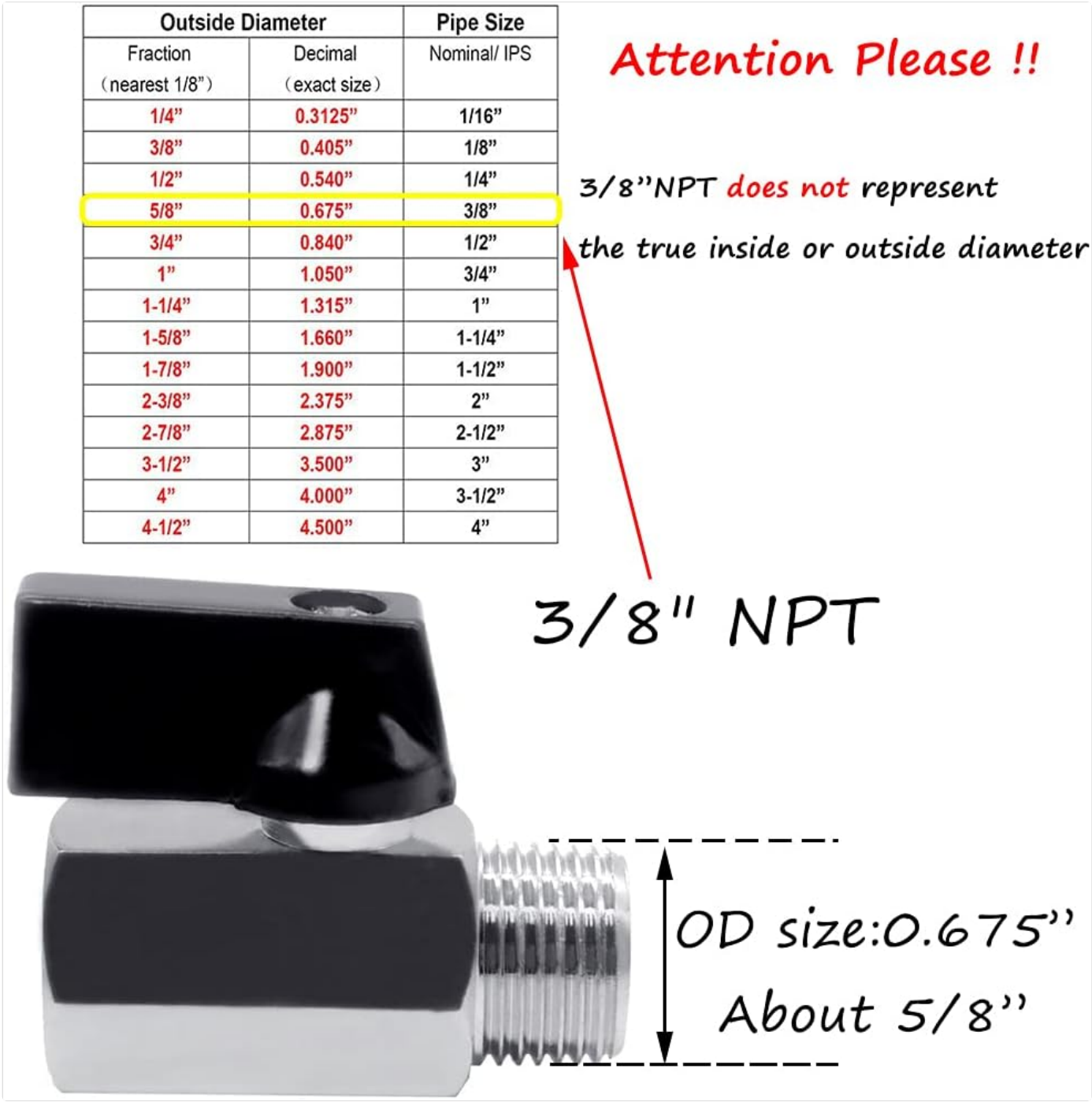


Image 5.1: Clarification on NPT thread compatibility. This valve is NPT and not for compression fittings.

Important: Make sure the ball valve is in the shut-off state (handle perpendicular to the flow) when you install it to prevent accidental flow during connection.

6. Operation

The Beduan Mini Ball Valve operates with a simple quarter-turn mechanism:

- **To Open (Allow Flow):** Turn the handle so it is aligned **parallel** with the direction of the pipe or hose.
- **To Close (Stop Flow):** Turn the handle so it is positioned **perpendicular** to the direction of the pipe or hose.

The quarter-turn design allows for quick and clear visual indication of the valve's open or closed status.

7. Maintenance

Regular maintenance ensures the longevity and reliable performance of your ball valve:

- **Regular Inspection:** Periodically check the valve and connections for any signs of leaks, corrosion, or damage.
- **Cleaning:** If the valve is exposed to harsh environments, clean the exterior with a damp cloth to prevent buildup. Avoid abrasive cleaners.
- **Operation Check:** Occasionally operate the valve (open and close) to ensure the mechanism moves freely. If the valve becomes stiff, it may indicate internal wear or mineral buildup.
- **Corrosion Prevention:** While brass is corrosion-resistant, certain water chemistries or environmental conditions can lead to internal corrosion or pitting over time. If used in such conditions, consider periodic replacement or alternative materials.

8. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Leakage at threads	Improper thread sealant, cross-threading, insufficient tightening, incorrect thread type.	Turn off supply, disassemble, clean threads, reapply sealant, re-thread carefully, tighten appropriately. Ensure NPT threads are used.
Valve does not fully shut off	Debris inside the valve, internal wear or corrosion.	Flush the system if possible. If debris is suspected, the valve may need to be removed and inspected. If internal wear or corrosion is significant, replace the valve.
Handle is stiff or hard to turn	Mineral buildup, lack of use, internal component wear.	Operate the valve several times to try and free it. If persistent, replacement may be necessary.

9. Warranty and Support

For warranty information or technical support, please refer to the Beduan official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
Beduan Customer Service: For assistance, please visit the Beduan Store on Amazon or contact the seller directly through your Amazon order history.

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