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Beduan 1yf-00894-bbf

Beduan 3/8-inch ID Stainless Steel 90-Degree Hose Barb Elbow Fitting Instruction Manual

Model: 1yf-00894-bbf

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Beduan 3/8-inch ID Stainless Steel 90-Degree Hose Barb Elbow Fitting. Please read this manual thoroughly before use to ensure safe and efficient application of the product.

2. Product Overview

The Beduan 3/8-inch ID Stainless Steel 90-Degree Hose Barb Elbow Fitting is designed to connect two 3/8-inch ID (Inner Diameter) hoses at a 90-degree angle, facilitating changes in fluid or air flow direction within a system. Constructed from high-quality 304 stainless steel, this fitting offers excellent corrosion resistance and durability for a wide range of industrial and home applications.



Image 1: Two Beduan 3/8-inch ID Stainless Steel 90-Degree Hose Barb Elbow Fittings, showcasing their L-shaped design and barbed ends for secure hose connection.

3. Key Features

- **Material:** Made of 304 stainless steel, providing superior corrosion resistance and ductility at high temperatures.
- **Connection Size:** Features 3/8-inch hose barbs on both ends, designed for secure connection to 3/8-inch ID tubing.*Note: Not suitable for poly pipe.*
- **Temperature Range:** Operates effectively across a broad temperature spectrum, from -868 to 1472 degrees F (-500 to 800 degrees C).
- **Pressure Rating:** Capable of withstanding a maximum working pressure of 2800 PSI.
- **Design:** The 90-degree elbow design allows for a precise L-angle change in tubing direction, optimizing space and flow paths.



Image 2: A detailed view of the Beduan hose barb elbow, highlighting the barbed ridges for secure hose attachment and the 90-degree angle.

4. Installation Instructions

4.1 Safety Precautions

- Ensure all systems are depressurized and drained before installation.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Verify that the fitting size matches your hose's inner diameter (ID). This fitting is for 3/8-inch ID hoses.

4.2 Tools Required

- Hose clamps (appropriate size for 3/8-inch ID hose)

- Screwdriver or nut driver (for hose clamps)
- Hose cutter (if trimming hose is necessary)
- Lubricant (optional, for easier hose insertion)

4.3 Installation Steps

1. **Prepare Hoses:** Cut the ends of your 3/8-inch ID hoses cleanly and squarely. Ensure there are no burrs or damage.
2. **Apply Clamps:** Slide a hose clamp over each end of the hoses that will connect to the fitting. Position them far enough back to allow for full barb insertion.
3. **Connect Hoses:** Firmly push one end of a hose onto one of the barbed ends of the elbow fitting. Ensure the hose fully covers all barbs for a secure seal. A small amount of lubricant (e.g., water or silicone spray) can assist with insertion.
4. **Repeat Connection:** Connect the second hose to the other barbed end of the elbow fitting, ensuring it is also fully seated over the barbs.
5. **Secure Clamps:** Position the hose clamps over the hoses, directly above the barbed sections of the fitting. Tighten the clamps securely with a screwdriver or nut driver. Do not overtighten, as this can damage the hose.
6. **Inspect:** Visually inspect both connections to ensure they are tight and properly seated.
7. **Test:** After installation, slowly introduce pressure to the system and check for any leaks. Address any leaks immediately by re-tightening clamps or re-seating hoses.



Image 3: A single Beduan hose barb elbow, illustrating the shape and barb design crucial for proper hose installation.

5. Operation

Once properly installed, the Beduan 90-degree hose barb elbow fitting functions passively to redirect the flow of liquids or gases within your hose system. It requires no active operation. Ensure that the system's operating pressure and temperature remain within the specified limits to prevent damage or failure.

6. Maintenance

The 304 stainless steel construction of this fitting requires minimal maintenance. Regular inspection is recommended to ensure continued performance:

- **Visual Inspection:** Periodically check the fitting and hose connections for any signs of wear, corrosion, cracks, or leaks.

- **Cleanliness:** If exposed to harsh environments, clean the exterior of the fitting with a mild detergent and water to remove dirt or residue. Avoid abrasive cleaners that could scratch the stainless steel.
- **Hose Condition:** Ensure the connected hoses remain flexible and free from damage. Replace any compromised hoses promptly.
- **Clamp Tightness:** Re-check hose clamp tightness periodically, especially after initial use, as hoses can sometimes settle.

7. Troubleshooting

Problem	Possible Cause	Solution
Leakage at connection	Hose not fully seated on barb; hose clamp loose or improperly positioned; damaged hose end; incorrect hose ID.	Ensure hose is fully pushed onto all barbs. Tighten hose clamp. Reposition clamp directly over barbs. Inspect hose for damage and replace if necessary. Verify hose ID is 3/8-inch.
Difficulty inserting hose	Hose is stiff or cold; no lubricant used.	Warm the hose slightly (e.g., with warm water). Apply a small amount of water or silicone-based lubricant to the barb.
Fitting appears corroded	Exposure to extremely harsh chemicals or environments beyond 304 stainless steel's resistance.	Clean with mild detergent. If corrosion persists or compromises integrity, replace the fitting. Consider material compatibility for your specific application.

8. Specifications

Attribute	Detail
Model Number	1yf-00894-bbf
Material	304 Stainless Steel
Hose ID Compatibility	3/8 Inch
Connector Type	90-Degree Elbow, Hose Barb
Maximum Working Pressure	2800 PSI
Temperature Range	-868 to 1472 degrees F (-500 to 800 degrees C)
Item Weight	0.01 Ounces
Package Dimensions	2.05 x 1.97 x 0.43 inches



Image 4: The Beduan hose barb elbow, illustrating its compact dimensions and robust construction.

9. Warranty and Support

For information regarding warranty coverage, technical support, or any product-related inquiries, please contact Beduan customer service directly. Refer to the original product packaging or the official Beduan website for contact details.

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