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beduan 1yf-02010-yhb

Beduan Stainless Steel 5/16" Hose Barb 3 Way Y Shaped Union Instruction Manual

Model: 1yf-02010-yhb

Product Overview

The Beduan Stainless Steel 5/16" Hose Barb 3 Way Y Shaped Union is a high-quality fitting designed for connecting three 5/16-inch hoses. Constructed from durable 304 stainless steel, it offers excellent corrosion resistance and ductility, making it suitable for a wide range of applications including home brewing, air compressors, and various industrial systems.



Image: Front view of the Beduan 5/16" Y-shaped hose barb fitting, showcasing its three barbed ends and central union.

Key Features:

- **Material:** Made of 304 stainless steel, ensuring corrosion resistance, ductility at high temperatures, and low magnetic permeability.
- **Size:** Features 5/16”Barb x 5/16”Barb x 5/16”Barb dimensions for consistent hose connections.
- **Connection:** Designed to connect to hoses on all three ends, allowing for splitting or combining fluid/air flow.
- **Secure Seal:** The barbed fitting creates a tight seal on flexible and semi-rigid hoses when used with a hose clamp, crimp sleeve, or ferrule (sold separately).
- **Versatile Applications:** Ideal for use in diverse systems such as beer brewing, air compressors, automatic manufacturing operations, aircraft controls, and tire installation across various industries including agriculture, mining, road construction, firefighting, and aviation.

Specifications



Image: Angled view of the Beduan 5/16" Y-shaped hose barb fitting, showing the internal bore of the barbed ends.

Attribute	Detail
Size	5/16” x 5/16” x 5/16”
Material	Stainless Steel (304)
Brand	Beduan
Color	Stainless Steel
Connector Type	Barb, Union

Attribute	Detail
Thread Size	N/A (Barb connection)
Exterior Finish	Alloy Steel, Stainless Steel
Item Weight	0.035 ounces (approx. 1 gram)
Number of Pieces	1
Manufacturer	Beduan
Model Number	1yf-02010-yhb
Date First Available	January 26, 2019

Setup and Installation

This Y-shaped union fitting is designed for straightforward installation with compatible hoses. Ensure all components are clean before assembly to prevent contamination.



Image: Top-down view of the Beduan 5/16" Y-shaped hose barb fitting, showing the symmetrical design of the three barbed connections.

1. **Prepare Hoses:** Cut the ends of your 5/16-inch flexible or semi-rigid hoses cleanly and squarely. Ensure there are no burrs or sharp edges that could damage the fitting or impede a seal.
2. **Select Clamping Method:** For a secure, leak-free connection, it is essential to use a hose clamp, crimp sleeve, or ferrule (sold separately) on each hose connection. Choose a clamping method appropriate for your hose material and application pressure.
3. **Attach Hoses:** Slide the hose clamp (if using) onto the hose first. Then, firmly push the end of the hose over the barbed portion of the fitting until it is fully seated against the central union.
4. **Secure Connection:** Position the hose clamp over the barbed section of the fitting and tighten it securely. Ensure the clamp is tight enough to prevent leaks but not so tight as to damage the hose or fitting. Repeat for all three hose connections.
5. **Test System:** After installation, slowly introduce the fluid or air into the system and carefully check all connections for any signs of leaks. Address any leaks immediately by re-tightening clamps or re-seating hoses.

Note: For applications involving high pressure or critical systems, professional installation or consultation is

recommended.

Operation

The Beduan Y-shaped union functions as a passive flow splitter or combiner. It does not contain any moving parts or valves, meaning flow can occur in any direction through its three ports simultaneously.

- **Flow Splitting:** Connect an incoming hose to one barb and two outgoing hoses to the other two barbs to split a single flow into two separate paths.
- **Flow Combining:** Connect two incoming hoses to two barbs and one outgoing hose to the third barb to combine two separate flows into a single path.
- **Equal Pressure Distribution:** Due to its Y-shape and lack of internal valves, this fitting is suitable for applications where equal pressure distribution downstream is desired.

Ensure the pressure and temperature of the media flowing through the fitting are within the safe operating limits for 304 stainless steel and the connected hoses.

Maintenance

The Beduan Stainless Steel Y-shaped union requires minimal maintenance due to its robust construction. Regular inspection is recommended to ensure optimal performance and longevity.

- **Inspection:** Periodically inspect the fitting and hose connections for any signs of wear, corrosion, cracks, or leaks. Pay close attention to the areas where the hoses meet the barbs.
- **Cleaning:** If the fitting becomes dirty, clean it with a mild detergent and water. Rinse thoroughly and dry completely. Avoid abrasive cleaners or tools that could scratch the stainless steel surface.
- **Hose Condition:** Regularly check the condition of the hoses connected to the fitting. Replace any hoses that show signs of hardening, cracking, or degradation, as this can lead to leaks.
- **Storage:** If the fitting is removed from service, clean it thoroughly and store it in a dry, clean environment to prevent contamination and maintain its condition.

Troubleshooting

Most issues with hose barb fittings relate to improper installation or hose degradation. Here are some common problems and their solutions:

Problem	Possible Cause	Solution
Leakage at connection points	◦ Hose clamp not tight enough ◦ Incorrect hose size ◦ Damaged hose end ◦ Damaged barb on fitting	◦ Tighten hose clamp securely. ◦ Ensure hose inner diameter matches 5/16" barb. ◦ Trim or replace damaged hose. ◦ Inspect fitting; replace if barb is visibly damaged.
Restricted flow	◦ Hose kinked or collapsed ◦ Debris inside fitting or hose	◦ Straighten hose or replace if permanently kinked. ◦ Disassemble and clean fitting and hoses.

Problem	Possible Cause	Solution
Fitting corrosion	◦ Exposure to harsh chemicals ◦ Prolonged exposure to corrosive environments	◦ Ensure compatibility with media. ◦ Clean regularly and store properly. Replace if corrosion is severe.

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For technical assistance, product inquiries, or warranty claims, please contact Beduan customer support through the retailer where the product was purchased or visit the official Beduan store online:

Visit the Beduan Store on Amazon

Please have your purchase details and model number (1yf-02010-yhb) ready when contacting support.

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