

Banjo HB150-125

Banjo HB150-125 Polypropylene Hose Fitting Instruction Manual

Model: HB150-125

1. PRODUCT OVERVIEW

The Banjo HB150-125 is a polypropylene hose fitting designed to adapt a hose or tube to a female NPT threaded connection. This adapter features a 1-1/2 inch Male National Pipe Taper (NPT) threaded connection on one end and a 1-1/4 inch barbed connection on the other.

Constructed from glass-reinforced polypropylene, this fitting offers rigidity, lightweight properties, dimensional stability, and resistance to high impact, heat, corrosion, and most chemicals. An integral hex nut provides a secure gripping surface for tightening during installation.

Key Features:

- Adapter for connecting pipes or hoses of different types.
- Connects a hose on one end and a female NPT threaded connection on the other.
- Glass-reinforced polypropylene for durability and chemical resistance.
- Integral hex nut for secure tightening.
- Maximum working pressure of 150 psi at 70 degrees F.



Image of the Banjo HB150-125 hose fitting, a black polypropylene adapter with a threaded male NPT connection on the right and a barbed hose connection on the left. The brand 'BANJO POLYPROPYLENE' is visible on the hexagonal body.

2. SAFETY INFORMATION

Read and understand all instructions before installing or operating this fitting. Failure to follow safety guidelines may result in property damage, injury, or system failure.

- **Pressure Limits:** Do not exceed the maximum working pressure of 150 psi at 70 degrees F. Operating above this limit can cause fitting failure.
- **Temperature Limits:** Ensure the operating temperature does not exceed the recommended limits for polypropylene. High temperatures can reduce pressure ratings and material integrity.
- **Chemical Compatibility:** Verify that the polypropylene material is compatible with the fluid being conveyed. Incompatible chemicals can degrade the fitting, leading to leaks or failure.
- **Proper Installation:** Incorrect installation can lead to leaks or system failure. Ensure all connections are secure and properly sealed.
- **Personal Protective Equipment (PPE):** Always wear appropriate safety glasses and gloves during installation and maintenance to protect against potential fluid splashes or sharp edges.
- **System Depressurization:** Always depressurize the system before attempting to install, remove, or maintain the fitting.

3. SETUP AND INSTALLATION

3.1 Required Tools and Materials

- Pipe thread sealant (for NPT connection)
- Adjustable wrench or pipe wrench (for hex nut)
- Hose clamps (for barbed connection)
- Appropriate hose or tubing

3.2 Installation Steps

1. **Prepare Connections:** Ensure both the female NPT threaded connection and the hose/tube are clean and free of debris. Inspect the fitting for any damage before installation.
2. **Apply Thread Sealant (NPT End):** Apply a suitable pipe thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the Banjo HB150-125 fitting. Apply sealant only to the male threads, avoiding the first thread to prevent contamination of the fluid system.
3. **Connect NPT End:** Carefully thread the male NPT end of the fitting into the female NPT threaded connection. Hand-tighten until snug. Then, use an adjustable wrench or pipe wrench on the integral hex nut to tighten the fitting further. Do not overtighten, as this can damage the threads or the fitting itself. Refer to standard NPT tightening practices for polypropylene fittings.
4. **Connect Barbed End:** Slide a hose clamp over the end of the hose or tube. Push the hose/tube firmly onto the barbed end of the Banjo HB150-125 fitting until it is fully seated against the shoulder of the barb. Ensure the hose clamp is positioned over the barbed section of the fitting.
5. **Secure Hose Clamp:** Tighten the hose clamp securely to create a tight seal between the hose and the barbed fitting. Do not overtighten, which can cut or damage the hose.
6. **Leak Check:** After installation, slowly introduce fluid into the system and carefully inspect all connections for leaks. If leaks are detected, depressurize the system and re-tighten or re-seal the affected connection as necessary.

4. OPERATING INSTRUCTIONS

Once properly installed and leak-checked, the Banjo HB150-125 fitting is designed for continuous operation within its specified limits.

- Ensure the fluid system's operating pressure does not exceed **150 psi at 70 degrees F**.
- Regularly monitor the fitting and connections for any signs of leaks, wear, or damage during operation.
- Avoid exposing the fitting to temperatures outside its recommended operating range, as this can compromise its structural integrity and sealing capabilities.
- Do not subject the fitting to excessive vibration or mechanical stress that could lead to premature failure.

5. MAINTENANCE

The Banjo HB150-125 fitting requires minimal maintenance, but regular inspection is crucial for ensuring long-term reliability and preventing system failures.

- **Visual Inspection:** Periodically inspect the fitting for any signs of wear, cracks, discoloration, or chemical degradation. Pay close attention to the threaded and barbed connection points.
- **Leak Checks:** Regularly check all connections for leaks, especially after any system pressure changes or maintenance activities.
- **Cleaning:** If necessary, clean the exterior of the fitting with a mild soap and water solution. Avoid using harsh chemicals or abrasive cleaners that could damage the polypropylene material.
- **Replacement:** If any damage, significant wear, or persistent leaks are observed, the fitting should be replaced immediately to prevent system failure or safety hazards.

6. TROUBLESHOOTING

6.1 Leaks at NPT Connection

- **Cause:** Insufficient thread sealant, improper tightening, damaged threads.
- **Solution:** Depressurize the system. Disassemble the connection, clean threads, reapply thread sealant, and re-tighten the fitting according to installation instructions. If threads are damaged, replace the fitting or the mating component.

6.2 Leaks at Barbed Connection

- **Cause:** Loose or incorrect hose clamp, damaged hose, hose not fully seated on barb.
- **Solution:** Depressurize the system. Inspect the hose for cuts or damage. Ensure the hose is fully pushed onto the barb. Re-position and tighten the hose clamp. Replace the hose or clamp if damaged.

6.3 Reduced Flow

- **Cause:** Obstruction within the hose or system, not typically caused by the fitting itself unless severely damaged.
- **Solution:** Inspect the entire fluid path for blockages. If the fitting is suspected, remove and inspect for internal debris or damage.

7. SPECIFICATIONS

Model Number	HB150-125
Size	1-1/2" NPT Male x 1-1/4" Barbed
Material	Glass-Reinforced Polypropylene
Brand	Banjo
Color	Black
Connector Type	NPT Male X Barbed
Thread Type	NPT
Maximum Working Pressure	150 psi at 70 degrees F
Product Dimensions (L x W x H)	2 x 2 x 4 inches
Item Weight	0.634 ounces
UPC	791206004380
Manufacturer	Banjo Corporation

8. WARRANTY AND SUPPORT

For specific warranty information regarding the Banjo HB150-125 Polypropylene Hose Fitting, please refer to the documentation provided at the time of purchase or contact Banjo Corporation directly. Warranty terms may vary based on region and seller.

Manufacturer Contact:

- Banjo Corporation

- Headquartered in Crawfordsville, IN, USA
- Please visit the official Banjo Corporation website for the most current contact information and support resources.

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