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› Kuriyama PPF050 Polypropylene Part F Male Adapter User Manual

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Model: PPF050

1. PRODUCT OVERVIEW

The Kuriyama PPF050 is a durable polypropylene Part F male adapter designed for industrial and scientific applications. It features a cam and groove connection on one end and a Male NPT (National Pipe Taper) threaded connection on the other, facilitating secure and interchangeable hose connections. This fitting is constructed from glass-filled polypropylene for enhanced strength and durability, and it complies with MIL Spec A-A-59326 for interchangeability.



Figure 1: A black polypropylene Part F male adapter with a cam and groove connection on one end and a male NPT threaded connection on the other. The NPT threads are visible at the bottom, and the cam and groove portion is at the top. The fitting is marked 'F 200'.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the PPF050 adapter. Follow these steps to ensure a secure connection:

1. **Inspect Components:** Before installation, visually inspect the adapter and the mating components (hose, pipe, or other fittings) for any damage, debris, or manufacturing defects. Ensure all threads are clean and free of obstructions.
2. **Apply Thread Sealant:** For the Male NPT threaded end, apply an appropriate thread sealant (e.g., PTFE tape or pipe thread compound) to the external threads. Apply 2-3 wraps of PTFE tape in the direction of the threads, ensuring it does not extend past the first thread.
3. **Connect NPT End:** Carefully thread the NPT end of the PPF050 adapter into the corresponding female NPT port. Hand-tighten first, then use a wrench to tighten until snug. Avoid over-tightening, which can damage threads or the fitting. Refer to industry standards for NPT connection torque specifications if available.
4. **Connect Cam and Groove End:** For the cam and groove end, ensure the gasket is properly seated in the mating female cam and groove coupler. Insert the adapter into the coupler and close the cam arms firmly. Verify that the cam arms are fully engaged and locked.
5. **Verify Connection:** After installation, visually confirm that all connections are secure and properly aligned.

3. OPERATING GUIDELINES

The PPF050 adapter is designed for use in fluid transfer systems. Adhere to the following guidelines during operation:

- **Pressure Limits:** Do not exceed the maximum rated working pressure of 100 PSI (6.89 bar) for this fitting. Operating above this pressure can lead to failure and potential hazards.
- **Temperature Range:** Ensure the operating temperature of the fluid and environment is within the specified limits for polypropylene fittings. Extreme temperatures can affect material integrity.
- **Fluid Compatibility:** Verify that the polypropylene material is compatible with the fluid being transferred. Incompatible fluids can degrade the fitting over time.
- **Leak Checks:** Before initiating full system operation, perform a low-pressure leak test. Visually inspect all connections for any signs of leakage. Address any leaks immediately.
- **Avoid Shock Loads:** Minimize sudden pressure changes or mechanical shock to the system, as these can stress fittings and connections.

4. MAINTENANCE

Regular maintenance helps prolong the life of the PPF050 adapter and ensures continued reliable performance:

- **Routine Inspection:** Periodically inspect the adapter for signs of wear, cracks, discoloration, or damage, especially in areas exposed to stress or UV light.
- **Gasket Replacement:** For cam and groove connections, regularly inspect and replace gaskets as needed. Gaskets can harden, crack, or lose elasticity over time, leading to leaks.
- **Cleaning:** Clean the fitting as necessary to remove accumulated dirt, debris, or residue. Use mild soap and water; avoid harsh chemicals that may degrade polypropylene.
- **Storage:** When not in use, store the adapter in a clean, dry environment away from direct sunlight and extreme temperatures to prevent material degradation.

5. TROUBLESHOOTING

This section addresses common issues that may arise during the use of the PPF050 adapter:

- **Leakage at NPT Connection:**

- *Cause:* Insufficient thread sealant, damaged threads, or improper tightening.
 - *Solution:* Disassemble, clean threads, reapply thread sealant (PTFE tape or pipe dope), and re-tighten appropriately. Inspect threads for damage; replace if necessary.
- **Leakage at Cam and Groove Connection:**
 - *Cause:* Worn, damaged, or improperly seated gasket; cam arms not fully engaged; damaged adapter or coupler.
 - *Solution:* Inspect and replace the gasket if worn or damaged. Ensure the gasket is correctly seated. Verify cam arms are fully closed and locked. Inspect the adapter and coupler for damage; replace if necessary.
- **Difficulty Connecting/Disconnecting:**
 - *Cause:* Debris in connection, misaligned components, or damaged cam arms/threads.
 - *Solution:* Clean connections thoroughly. Ensure proper alignment before attempting to connect. Inspect for physical damage to threads or cam arms.

6. SPECIFICATIONS

Attribute	Detail
Model Number	PPF050
Brand	Kuriyama
Material	Polypropylene (Glass-Filled)
Size	1/2 inch x 1/2 inch
Connector Type	Part F Male Adapter x Male NPT
Thread Type	NPT
Maximum Working Pressure	100 PSI
Compliance	MIL Spec A-A-59326 (for interchangeability)
Item Weight	0.04 Pounds (approx. 0.64 ounces)

7. WARRANTY AND SUPPORT

For specific warranty information regarding the Kuriyama PPF050 Polypropylene Part F Male Adapter, please refer to the official Kuriyama website or contact Kuriyama customer service directly. Warranty terms typically cover manufacturing defects under normal use conditions.

For technical support, product inquiries, or assistance with troubleshooting beyond the scope of this manual, please contact Kuriyama of America, Inc. through their official channels. Contact information can usually be found on the manufacturer's website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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