Banjo SW220

Banjo SW220 2-inch Full Port Male x 2-inch Full Port Female Swivel Instruction Manual

Model: **SW220**

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Banjo SW220 2-inch Full Port Male x 2-inch Full Port Female Swivel. This component is designed for seamless fluid handling in various applications, offering durability and reliability through its robust construction.

The Banjo SW220 swivel is crafted from glass-reinforced polypropylene, ensuring strength and chemical resistance. It features NPT threads for secure connections and is rated for a maximum pressure of 150 P.S.I. at 70°F.

2. Safety Information

- Always wear appropriate personal protective equipment (PPE) when handling fluid systems, including eye protection and gloves.
- Ensure the system is depressurized and drained before installation or maintenance.
- Verify chemical compatibility between the fluid and the swivel's polypropylene construction to prevent material degradation and leaks.
- Do not exceed the maximum pressure rating of 150 P.S.I. at 70°F. Operating outside these parameters can lead to system failure and injury.
- Avoid applying excessive force during installation, which could damage threads or the swivel body.

3. Package Contents

- 1 x Banjo SW220 2-inch Full Port Male x 2-inch Full Port Female Swivel

4. Setup and Installation

Proper installation is crucial for the performance and longevity of the Banjo SW220 swivel.

1. **Inspect Components:** Before installation, visually inspect the swivel for any signs of damage or manufacturing defects.
2. **Prepare Threads:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe thread compound compatible with polypropylene) to the male NPT threads of the connecting pipes.
3. **Connect Swivel:** Thread the male end of the Banjo SW220 swivel onto the female NPT connection of your system. Then, thread the female end of the swivel onto the male NPT connection of your system.
4. **Tighten Connections:** Hand-tighten the connections, then use a wrench to tighten further until snug. Do not overtighten, as this can strip threads or crack the polypropylene. Ensure a leak-free seal.
5. **System Test:** After installation, slowly pressurize the system and carefully check all connections for leaks. Address any leaks immediately.

Image showing the Banjo SW220 swivel, highlighting its male and female NPT connections and robust construction.

5. Operation

The Banjo SW220 swivel is designed to provide a flexible connection point in fluid transfer systems, allowing for rotation between two connected components. This flexibility can simplify hose routing, prevent

kinking, and ease connection/disconnection processes.
While the swivel is designed to rotate, its movement may require some initial force, especially when new or under pressure. It is intended to facilitate alignment and reduce stress on connections, rather than for continuous, free-spinning rotation. If rotation is stiff, ensure there is no debris obstructing the mechanism and that the system is not under excessive lateral stress.

6. Maintenance

Regular maintenance helps ensure the reliable performance and extended lifespan of your Banjo SW220 swivel.

- **Routine Inspection:** Periodically inspect the swivel and its connections for any signs of wear, cracks, leaks, or chemical degradation. Pay close attention to the swivel joint and threaded areas.
- **Cleaning:** If necessary, clean the exterior of the swivel with mild soap and water. Avoid harsh chemicals that may compromise the polypropylene material.
- **Storage:** If the swivel is removed from service, store it in a clean, dry environment away from direct sunlight and extreme temperatures.
- **Replacement:** Replace the swivel if any significant wear, damage, or persistent leaks are observed.

7. Troubleshooting

This section addresses common issues you might encounter with the Banjo SW220 swivel.

- **Issue: Difficulty Swiveling**
  - **Cause:** New component stiffness, debris in the swivel mechanism, or excessive pressure/stress on the connection.
  - **Solution:** Ensure the system is depressurized. Check for any visible obstructions. While designed to swivel, it may require appropriate tools (e.g., pipe wrenches) to initiate movement, especially when new or under load. Avoid excessive force that could damage the component.
- **Issue: Leaks at Connections**
  - **Cause:** Improper thread sealant application, insufficient tightening, damaged threads, or material incompatibility.
  - **Solution:** Depressurize and drain the system. Disassemble the connection, clean threads thoroughly, reapply fresh thread sealant, and re-tighten connections appropriately. Inspect threads for damage; replace if necessary.
- **Issue: Reduced Flow Rate**
  - **Cause:** Obstruction within the swivel or connected piping.
  - **Solution:** Depressurize and drain the system. Disassemble and inspect the swivel and adjacent piping for any blockages.

8. Specifications

Model Number	SW220
Brand	Banjo
Size	2 inches

Material	Glass-reinforced polypropylene
Connector Type	NPT (National Pipe Taper)
Thread Size	2 inch
Maximum Pressure	150 P.S.I. at 70°F
Chemical Resistance	Outstanding
Item Weight	8 ounces
Product Dimensions (L x W x H)	2 x 2 x 2 inches

9. Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts, please contact Banjo Corporation directly or refer to their official website. Keep your purchase receipt as proof of purchase.