

Banjo LSQ200-50

Banjo LSQ200-50 2-inch LSQ Line Strainer 50 Mesh User Manual

Model: LSQ200-50

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Banjo LSQ200-50 2-inch LSQ Line Strainer with 50 Mesh. Please read this manual thoroughly before using the product to ensure proper function and longevity.

SAFETY INFORMATION

Always observe general safety precautions when working with industrial plumbing components. Failure to follow safety guidelines can result in property damage or personal injury.

- Ensure all system pressures are relieved before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Verify compatibility of the strainer material with the fluid being handled.
- Do not exceed the maximum rated pressure of 76 P.S.I.
- Handle components carefully to avoid damage.

PRODUCT OVERVIEW

The Banjo LSQ200-50 is a 2-inch LSQ line strainer designed for filtering particles from fluid lines. It features a 50 mesh screen for effective filtration and is constructed from precision-molded, glass-reinforced polypropylene for durability. The strainer includes a 3/4-inch plug in a cam lever cap, allowing for convenient draining or backflushing.



Figure 1: Assembled Banjo LSQ200-50 Line Strainer. This image shows the complete unit with inlet and outlet ports, the main body, and the removable cap secured by cam levers.

Key Features:

- **Size:** 2-inch connections.
- **Material:** Precision molded in glass-reinforced polypropylene.
- **Screen:** 50 Mesh for particle filtration.
- **Drain/Backflush Port:** 3/4-inch plug in cam lever cap for attaching a ball valve.
- **Gasket:** EPDM lathe cut gasket for a secure seal.
- **Maximum Pressure:** 76 P.S.I.

SETUP AND INSTALLATION

The LSQ200-50 line strainer is designed for inline installation in a fluid system. Ensure the flow direction matches the arrow indicated on the strainer body, if present, or install with the screen facing the incoming fluid.

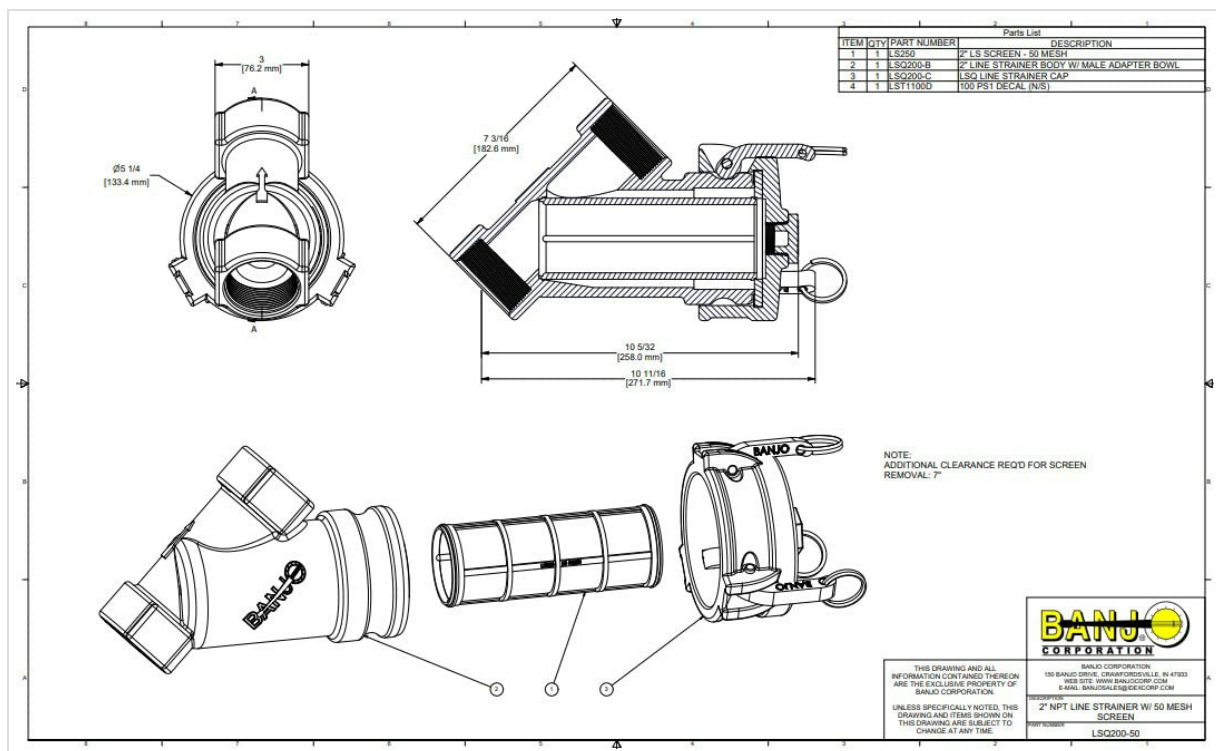


Figure 2: Exploded view and dimensions of the Banjo LSQ200-50 Line Strainer. This diagram illustrates the individual components including the body, screen, gasket, and cap, along with critical measurements for installation planning.

- System Preparation:** Shut off the fluid supply and relieve all pressure in the line where the strainer will be installed. Drain any remaining fluid.
- Location Selection:** Choose an accessible location in the pipeline for easy inspection and maintenance of the strainer. Consider the "ADDITIONAL CLEARANCE REQ'D FOR SCREEN REMOVAL: 7" as noted in Figure 2.
- Pipe Preparation:** Cut the pipe to the appropriate length to accommodate the strainer. Ensure clean, burr-free pipe ends.
- Connection:** Connect the 2-inch threaded ends of the strainer to the pipeline. Use appropriate thread sealant (e.g., PTFE tape or pipe dope) to ensure a leak-free connection. Do not overtighten.
- Screen Orientation:** Ensure the internal screen is properly seated within the strainer body before securing the cap. The screen should be positioned to capture debris from the incoming flow.
- Cap Installation:** Place the EPDM lathe cut gasket into the cap, then secure the cap onto the strainer body using the cam levers. Ensure the levers are fully closed and the cap is seated firmly to prevent leaks.
- Drain Port (Optional):** If desired, attach a 3/4-inch ball valve to the cam lever cap's plug for convenient draining or backflushing.
- Leak Check:** Slowly restore fluid pressure to the system and carefully inspect all connections for leaks. Tighten connections as necessary.

OPERATING INSTRUCTIONS

Once properly installed, the Banjo LSQ200-50 line strainer operates passively by filtering particles from the fluid stream. Regular monitoring and maintenance are the primary operational considerations.

- Flow Monitoring:** Observe system pressure and flow rates. A significant drop in pressure across the strainer or reduced flow may indicate a clogged screen requiring cleaning.
- Drain/Backflush:** If a ball valve is installed on the 3/4-inch port, it can be opened to drain accumulated debris or to backflush the screen (if system design allows) without fully disassembling the strainer.

MAINTENANCE

Regular maintenance ensures the optimal performance and extends the lifespan of your line strainer.

1. Screen Cleaning:

- Shut off fluid supply and relieve system pressure.
- Open the cam levers and carefully remove the cap.
- Extract the 50 mesh screen from the strainer body.
- Clean the screen thoroughly using water or an appropriate cleaning solution. Remove all trapped debris.
- Inspect the screen for any damage, tears, or excessive wear. Replace if necessary.
- Reinsert the clean screen, ensuring it is properly seated.
- Inspect the EPDM gasket for cracks or damage. Replace if necessary to maintain a proper seal.
- Reinstall the cap and secure the cam levers.
- Restore system pressure and check for leaks.

2. **Gasket Inspection:** Periodically inspect the EPDM lathe cut gasket for signs of wear, hardening, or damage. A compromised gasket can lead to leaks. Replace as needed.

3. **Body Inspection:** Check the polypropylene body for any cracks, stress marks, or other signs of damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Reduced flow or pressure drop	Clogged screen	Clean the 50 mesh screen (refer to Maintenance section).
Leaks from cap or connections	Damaged or improperly seated EPDM gasket; loose connections; damaged threads	Inspect and replace gasket if damaged. Ensure cam levers are fully secured. Tighten threaded connections with appropriate sealant. Inspect threads for damage.
Strainer body damage	Excessive pressure; impact damage; chemical incompatibility	Verify system pressure does not exceed 76 P.S.I. Replace damaged strainer. Ensure fluid is compatible with polypropylene.

SPECIFICATIONS

- **Model:** LSQ200-50
- **Connection Size:** 2 inches
- **Screen Mesh:** 50 Mesh
- **Material:** Glass-reinforced Polypropylene (PP)
- **Gasket Material:** EPDM Lathe Cut
- **Maximum Operating Pressure:** 76 P.S.I.
- **Drain/Backflush Port:** 3/4-inch plug in cam lever cap
- **Color:** Black

- **Product Dimensions:** Approximately 11.69 x 5 x 7 inches (L x W x H)
- **Item Weight:** Approximately 4.17 pounds

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Banjo Corporation directly or refer to their official website. Keep your purchase receipt for warranty claims.

Note: No specific warranty details were provided in the product information.