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Lenz 221682

Lenz Screw-in Filler Breather Instruction Manual

Model: 221682 (BF-16)

PRODUCT OVERVIEW

The Lenz Screw-in Filler Breather (Model 221682, Part BF-16) is a robust component designed for hydraulic and fluid power systems. It features steel construction and a 40-micron polyurethane foam element, making it suitable for use with petroleum, mineral, and water-based fluids. This breather allows air to enter and exit a reservoir while filtering out airborne contaminants, protecting the fluid system from particulate ingress.



Figure 1: Lenz Screw-in Filler Breather. This image displays the chrome-plated, cylindrical body of the breather, featuring a knurled top for easy gripping and a threaded base for secure installation into a reservoir.

Key Features:

- Steel construction for durability.
- 3.3 inches overall length.
- 40 Micron filtration rating.

- 1 inch NPT (National Pipe Taper) threaded size for secure connection.
- Polyurethane foam element for effective air filtration.

INSTALLATION AND SETUP

Proper installation is crucial for the effective operation and longevity of the filler breather. Follow these steps carefully:

1. **Preparation:** Ensure the mounting surface on the reservoir is clean, dry, and free from debris. Verify that the threaded port matches the 1" NPT size of the breather.
2. **Thread Sealant:** Apply a suitable thread sealant (e.g., PTFE tape or liquid pipe sealant) to the NPT threads of the breather. This helps prevent leaks and ensures a secure seal.
3. **Installation:** Carefully screw the filler breather into the designated port on the hydraulic reservoir. Hand-tighten first to ensure proper thread engagement.
4. **Final Tightening:** Use an appropriate wrench to tighten the breather. Do not overtighten, as this can damage the threads or the breather itself. Tighten until snug and the thread sealant creates a firm seal. Refer to the reservoir manufacturer's specifications for torque recommendations if available.
5. **Post-Installation Check:** After installation, visually inspect the connection for any signs of leakage.

OPERATING PRINCIPLES

The Lenz Screw-in Filler Breather functions as a critical component in hydraulic systems by allowing air to freely enter and exit the fluid reservoir while preventing the ingress of airborne contaminants. As the fluid level in the reservoir fluctuates due to cylinder movement or temperature changes, air must be exchanged with the surrounding atmosphere. The 40-micron polyurethane foam element within the breather captures particulate matter, dust, and other airborne impurities, ensuring that only clean air enters the system. This protection is vital for maintaining fluid cleanliness, extending the life of hydraulic components, and preventing system malfunctions caused by contamination.

MAINTENANCE

Regular maintenance of the filler breather is essential to ensure optimal performance and prevent contamination of the hydraulic system.

- **Inspection:** Periodically inspect the breather for any visible damage, cracks, or signs of excessive dirt accumulation on the filter element. The frequency of inspection depends on the operating environment and system usage.
- **Cleaning:** If the filter element appears dirty or clogged, it should be cleaned or replaced. For cleaning, remove the breather from the reservoir. The polyurethane foam element can typically be cleaned with a mild detergent and water, or a suitable cleaning solvent recommended for hydraulic components. Ensure the element is completely dry before reinstallation.
- **Replacement:** Over time, the filter element may degrade or become permanently clogged. It is recommended to replace the breather or its filter element according to the system's maintenance schedule or if cleaning does not restore proper airflow.
- **Environmental Factors:** In dusty or harsh environments, more frequent inspection and maintenance may be required.

TROUBLESHOOTING

If you encounter issues with your filler breather, consider the following:

- **Reduced Airflow/Vacuum in Reservoir:**
 - **Cause:** Clogged filter element.
 - **Solution:** Inspect and clean or replace the filter element.
- **Fluid Leakage Around Breather Base:**
 - **Cause:** Improperly tightened connection or damaged thread sealant.
 - **Solution:** Remove the breather, reapply thread sealant, and reinstall, ensuring proper tightening.
- **Visible Damage to Breather Body:**
 - **Cause:** Physical impact or material fatigue.
 - **Solution:** Replace the entire breather unit.




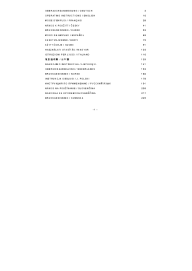


SPECIFICATIONS

Attribute	Value
Brand	Lenz
Model Number	221682
Part Number	BF-16
Material	Steel
Filter Micron Rating	40 micron
Overall Length	3.3 inches
Thread Size	1 inch NPT
Exterior Finish	Alloy Steel
Item Weight	1 Pound
Compatible Fluids	Petroleum, Mineral, Water-based

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Lenz directly or refer to their official website. Keep your purchase receipt and product model number (221682) readily available when seeking support.

Manufacturer: Bailey Hydraulics

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