Lenz CP-752-10

Lenz CP-752-10 Hydraulic Filter Canister User Manual

Model: CP-752-10 | Brand: Lenz

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Lenz CP-752-10 Hydraulic Filter Canister. Designed for superior system protection, this 10-micron filter is engineered for demanding industrial hydraulic applications. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your hydraulic system components.

2. Safety Information

- Always depressurize the hydraulic system before attempting any installation, maintenance, or replacement procedures.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling hydraulic fluids and components.
- Ensure the replacement filter matches the specifications of the original filter to maintain system integrity and performance.
- Dispose of used filters and hydraulic fluids according to local environmental regulations.
- Avoid contact with hot surfaces and fluids during operation and maintenance.

3. Product Overview

The Lenz CP-752-10 is a spin-on hydraulic filter canister designed for return line applications. It features a 10-micron filtration rating, ensuring the removal of fine particulates from hydraulic fluids. Its robust aluminum die-cast body and Buna-N seals provide durability and compatibility with various fluid types.

Figure 3.1: Front view of the Lenz CP-752-10 Hydraulic Filter Canister, showing the brand name and model number.

Figure 3.2: Side view of the filter canister, illustrating typical installation and maintenance symbols.

4. Installation (Setup)

Follow these steps for proper installation of the Lenz CP-752-10 Hydraulic Filter Canister:

1. **Prepare the System:** Ensure the hydraulic system is shut down and completely depressurized. Isolate the filter housing from the system.
2. **Remove Old Filter:** Carefully unscrew and remove the old filter canister. Be prepared for residual fluid drainage and contain it properly.
3. **Clean Mounting Surface:** Clean the filter mounting base thoroughly, removing any debris or old gasket material.
4. **Lubricate Gasket:** Apply a thin film of clean hydraulic fluid to the new filter's gasket (Buna-N seal).
5. **Install New Filter:** Screw the new Lenz CP-752-10 filter onto the mounting base until the gasket makes contact. Then, tighten an additional 1/2 to 3/4 turn by hand. **Do not overtighten.**
6. **Check for Leaks:** Re-pressurize the system slowly and check for any leaks around the filter seal. Address any leaks immediately.
7. **Bleed Air:** If necessary, bleed air from the system according to the hydraulic system manufacturer's instructions.

Figure 4.1: Top view of the filter, highlighting the threaded opening and gasket for proper installation.

5. Operation

Once installed, the Lenz CP-752-10 filter operates continuously to remove contaminants from the hydraulic fluid. It is designed to maintain an optimal flow rate of 20 GPM while effectively filtering particulates down to 10 microns. Regular monitoring of system pressure and fluid condition is recommended to ensure the filter is functioning correctly and to identify when replacement is necessary.

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Video 5.1: An overview of a hydraulic oil filter element, demonstrating its appearance and packaging. This video provides a visual reference for the type of product being discussed.

6. Maintenance

Regular maintenance is crucial for the performance and lifespan of your hydraulic system. The Lenz CP-752-10 is a spin-on, replaceable cartridge filter.

Filter Replacement:

The filter element should be replaced at intervals recommended by your hydraulic system manufacturer or when a significant pressure drop across the filter indicates clogging. Refer to Section 4 for detailed replacement steps.

- **Monitoring:** Regularly check the differential pressure gauge (if installed) across the filter. An increase in differential pressure indicates the filter is becoming clogged and requires replacement.
- **Fluid Analysis:** Periodic hydraulic fluid analysis can help determine the effectiveness of filtration and the optimal replacement schedule.

7. Troubleshooting

Problem	Possible Cause	Solution
Fluid Leakage around Filter	Improperly tightened filter, damaged gasket, incorrect filter size.	Ensure filter is hand-tightened correctly (1/2 to 3/4 turn past contact). Inspect and replace gasket if damaged. Verify correct filter model.
Reduced System Flow/Pressure	Clogged filter element.	Replace the filter element. Check for other system blockages if problem persists.
Excessive System Noise	Severely clogged filter causing cavitation.	Immediately replace the filter element. Inspect pump for damage.

8. Specifications

Feature	Specification
Model Number	CP-752-10
Filtration Rating	10 Micron
Flow Rate (Max)	20 GPM
Maximum Pressure	200 PSI
Temperature Range	-22°F to +212°F (-30°C to +100°C)
Thread Type	1"-12 UNF
Construction Material	Aluminum Die-Cast Body
Seal Material	Buna-N
Weight	Approximately 1 lb (16 ounces)
Dimensions	Approximately 6 x 6 x 6 inches

9. Warranty and Support

For specific warranty information, please refer to the documentation provided with your purchase or contact Lenz directly. For technical support or inquiries regarding the CP-752-10 Hydraulic Filter Canister, please visit the official Lenz website or contact their customer service department.

Lenz Contact Information:

Phone: 937-277-9364

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