Pentek Felt Polyester Filter Bag 15 GPM 1 Micron

Pentek Filter Bag Instruction Manual

Model: Felt Polyester Filter Bag 15 GPM 1 Micron

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Pentek Felt Polyester Filter Bag. Adhering to these instructions will help ensure optimal performance and longevity of the product. Please read this manual thoroughly before use.

2. Product Overview

The Pentek Felt Polyester Filter Bag is designed for high-flow industrial process filtration, effectively reducing solids and sediment from liquids. It features a durable felt polyester construction with a glazed finish, a galvanized carbon steel ring, and a welded seam for reliable performance. The bag includes a handle and ring collar type for secure placement within compatible filter bag housings.



Image: A white, conical felt polyester filter bag with a reinforced top edge and a small fabric loop for handling or attachment. This filter bag is designed for industrial liquid filtration.

3. Setup and Installation

1. **Safety First:** Ensure the filtration system is depressurized and drained before opening the filter housing. Wear appropriate personal protective equipment (PPE).
2. **Inspect Housing:** Clean the interior of the filter bag housing, removing any debris or old gasket material.
3. **Inspect Filter Bag:** Carefully remove the new Pentek filter bag from its packaging. Inspect it for any signs of damage or manufacturing defects.
4. **Install Bag:** Place the filter bag into the housing, ensuring the galvanized carbon steel ring seats properly in the housing's sealing groove. The handle should be accessible for easy removal.
5. **Secure Housing:** Close and secure the filter housing according to the manufacturer's instructions for the housing unit.
6. **Pressurization:** Slowly repressurize the system, checking for leaks around the housing seal.

4. Operating Instructions

Once installed, the filter bag operates passively as liquid flows through the filtration system. Monitor system pressure and flow rates regularly.

- **Initial Operation:** After installation, gradually increase flow to prevent sudden pressure surges that could damage the filter bag.
- **Pressure Differential:** Observe the pressure differential across the filter housing. An increasing differential indicates that the filter bag is collecting solids and may require replacement.
- **Flow Rate:** A noticeable decrease in flow rate at constant pressure also suggests the filter bag is becoming clogged.

5. Maintenance

Regular maintenance ensures consistent filtration quality and prevents system issues.

- **Inspection:** Periodically inspect the filter bag housing for any signs of corrosion, damage, or leaks.
- **Replacement:** Replace the filter bag when the pressure differential reaches a predetermined maximum, or when flow rates drop significantly. The frequency of replacement depends on the application and the level of contaminants.
- **Disposal:** Dispose of used filter bags according to local environmental regulations and safety guidelines, especially if filtering hazardous materials.

6. Troubleshooting

Common issues and their potential solutions:

- **Reduced Flow/Increased Pressure Differential:**
  - **Cause:** Clogged filter bag.
  - **Solution:** Replace the filter bag.
- **Poor Filtration Quality (Solids in Effluent):**
  - **Cause:** Improperly seated filter bag, damaged filter bag, or incorrect micron rating for application.
  - **Solution:** Re-seat the filter bag, inspect for damage and replace if necessary, or verify the micron rating is suitable for the filtration requirements.
- **Leaks Around Housing:**

- **Cause:** Improperly sealed housing, damaged gasket, or incorrect installation of the filter bag ring.
- **Solution:** Depressurize, open, inspect and clean housing seals, replace gaskets if damaged, and ensure the filter bag ring is correctly seated before re-securing the housing.

7. Specifications

Feature	Specification
Basic Material	Felt
Material	Polyester
Max. Flow	15 gpm
Microns	1
Filter Size	3
Height	8 In.
Diameter	4-1/8 In.
Max. Temp.	250 Degrees F
Finish	Glazed
Ring Material	Galvanized Carbon Steel
Seam Type	Welded
Collar Type	Handle and Ring
Area	1/2 ft.
Application	High Flow
For Use With	Size 3 Bag Housings
Package Quantity	20

8. Warranty and Support

Specific warranty terms and detailed support contact information are not provided within the product data. For warranty inquiries or technical support, please contact Pentek directly or refer to the official Pentek website for the most current information.

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