Pentair 170036

Pentair 170036 Outlet Pipe Assembly

Replacement Part for Quad Pool and Spa D.E. Filters

Introduction

This manual provides essential information for the installation, operation, and maintenance of the Pentair 170036 Outlet Pipe Assembly. This component is specifically designed as a replacement part for Pentair Quad Pool and Spa D.E. (Diatomaceous Earth) filters. Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

Safety Information

Always observe basic safety precautions when installing or servicing pool equipment. Failure to do so could result in serious injury or property damage.

- Ensure all power to the pool pump and filter system is turned OFF at the circuit breaker before beginning any work.
- Relieve all pressure from the filter system before opening or disassembling any components. Refer to your filter's main instruction manual for pressure relief procedures.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- If you are unsure about any procedure, consult a qualified pool service professional.
- Keep children and pets away from the work area.

Product Overview

The Pentair 170036 Outlet Pipe Assembly is a critical internal component of Pentair Quad D.E. filters, responsible for directing filtered water out of the filter tank. It is constructed from durable PVC material designed to withstand pool chemical environments.



Figure 1: Pentair 170036 Outlet Pipe Assembly. This image shows the black PVC pipe assembly with a threaded end for connection and a wider, slotted end for water flow within the filter.

Setup and Installation

This section outlines the general steps for replacing the outlet pipe assembly. Always refer to your specific Pentair Quad D.E. filter manual for detailed disassembly and reassembly instructions.

1. **Prepare the Filter:**
    - Turn off the pool pump and filter system at the main circuit breaker.
    - Open the air relief valve on top of the filter to release any trapped air.
    - Open the manual air bleed valve or drain plug to drain water from the filter tank.
    - Once drained, close the drain plug.
2. **Disassemble the Filter:**
    - Remove the clamp or band that secures the top and bottom halves of the filter tank.
    - Carefully lift the top half of the filter tank, exposing the internal grid assembly.
    - Remove the entire grid assembly from the bottom tank.
3. **Replace the Outlet Pipe:**
    - Locate the existing outlet pipe assembly within the grid manifold. It is typically secured with an O-ring and possibly a retaining nut or clip.
    - Carefully remove the old outlet pipe assembly. Inspect the O-ring and replace it if it shows signs of wear or damage.
    - Install the new Pentair 170036 Outlet Pipe Assembly, ensuring it is properly seated and secured. Make sure any O-rings are correctly positioned and lubricated with a silicone-based lubricant.
4. **Reassemble and Test:**
    - Carefully lower the grid assembly back into the bottom tank, ensuring it is properly aligned.
    - Replace the top half of the filter tank, aligning it correctly with the bottom half.
    - Reinstall the filter clamp or band, tightening it according to the filter manufacturer's specifications.
    - Open the air relief valve. Turn on the pool pump. Once a steady stream of water emerges from the air relief valve, close it.
    - Check for leaks around the filter tank and connections.

Operating (Function)

Once installed, the Pentair 170036 Outlet Pipe Assembly functions automatically as part of the D.E. filter system. It ensures that filtered water, free of D.E. powder and debris, is efficiently returned to the pool. Proper installation is key to its effective operation.

Maintenance

The outlet pipe assembly itself requires minimal direct maintenance beyond proper installation. However, regular maintenance of your Pentair Quad D.E. filter system will ensure the longevity and performance of all its components, including this pipe assembly.

- **Regular Backwashing/Cleaning:** Follow your filter's manual for routine backwashing or cleaning cycles to prevent excessive pressure buildup and ensure optimal filtration.
- **Annual Inspection:** During annual filter disassembly for grid cleaning, inspect the outlet pipe assembly for any signs of cracks, wear, or damage. Check the O-rings for deterioration and replace if necessary.
- **Proper Chemical Balance:** Maintaining proper pool water chemistry helps prevent premature degradation of plastic components.

Troubleshooting

Issues related to the outlet pipe assembly are typically linked to improper installation or physical damage. If you experience problems with your filter system, consider the following:

Problem	Possible Cause	Solution
Water leaking from filter tank seam	Improperly seated tank halves or clamp; damaged tank O-ring.	Ensure tank halves are aligned and clamp is tightened correctly. Inspect and replace tank O-ring if damaged.
D.E. powder returning to pool	Damaged filter grids; improperly seated outlet pipe O-ring; cracked outlet pipe.	Inspect filter grids for tears. Re-seat or replace outlet pipe O-ring. Inspect outlet pipe for cracks and replace if found.
Low water flow from returns	Clogged filter grids; air in system; partially closed valves.	Backwash/clean filter. Bleed air from system. Check all valves are fully open.

If troubleshooting steps do not resolve the issue, contact Pentair customer support or a certified pool technician.

Specifications

Model Number: 170036

Product Type: Outlet Pipe Assembly

Compatibility: Pentair Quad Pool and Spa D.E. Filters

Material: Durable PVC

Dimensions: Approximately 12.2 x 5.95 x 3.5 inches (as per product specifications)

Weight: Approximately 0.16 ounces (as per product specifications)

Warranty and Support

For information regarding the warranty of your Pentair 170036 Outlet Pipe Assembly, please refer to the warranty

documentation provided with your original Pentair Quad D.E. filter or visit the official Pentair website. Warranty terms and conditions may vary.
For technical support, replacement parts, or further assistance, please contact Pentair Customer Service:

Website: www.pentair.com

Phone: Refer to the Pentair website for regional contact numbers.

When contacting support, please have your product model number (170036) and any relevant filter model information ready.

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