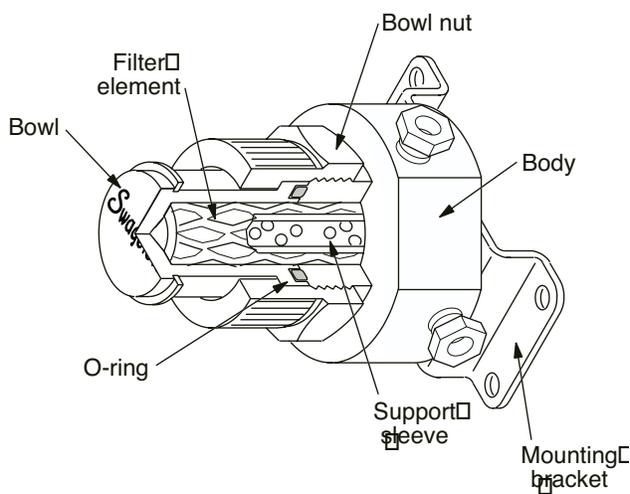


This document shows how to install and maintain the FC series coalescing filter. The filter is shown with Swagelok® Tube Fitting end connections. These instructions also apply to FC series filters with pipe end connections.

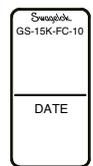
Component Identification



Element Kit Contents

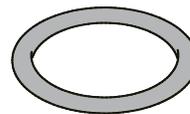


Filter Element



Date Labels

Seal Kit Contents



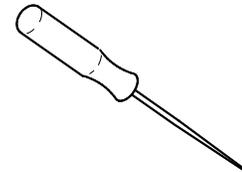
O-ring

Tool Requirements

- 10 and 14 mm wrenches



- Probe (with sharp tip)



- 7/16, 1/2, 9/16, and 1 3/4 in. wrenches



Installing the Filter Assembly

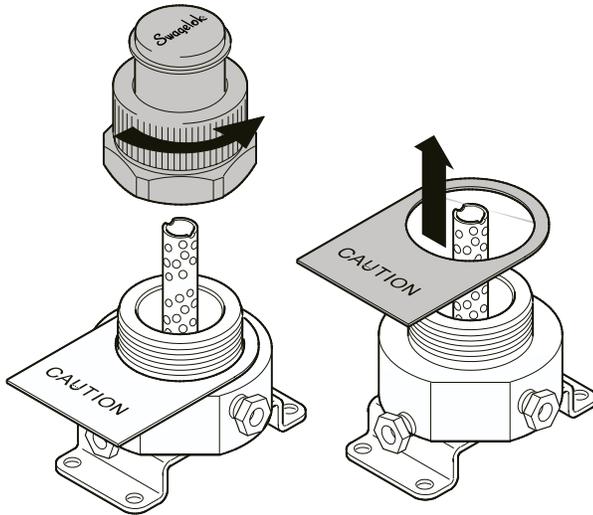


CAUTION:

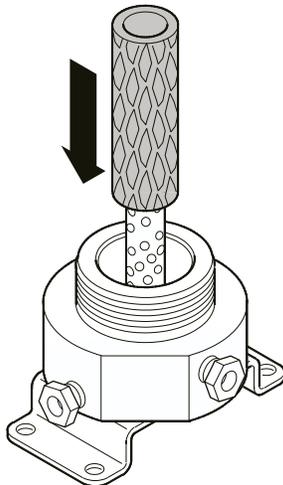
The assembly does not contain a filter element when received from the factory. The filter element must be installed before use.

Installing the Filter Element

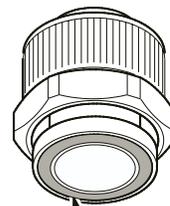
1. Remove the bowl assembly and the caution label from the filter body. Discard caution label.



2. Place a new filter element over the support sleeve.



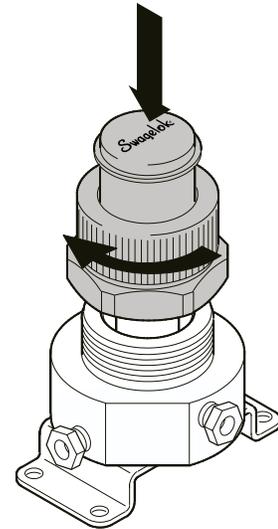
3. Verify that the O-ring is seated properly in the bowl assembly. Place the bowl assembly on the body and tighten to 45 in.·lb (5.1 N·m).



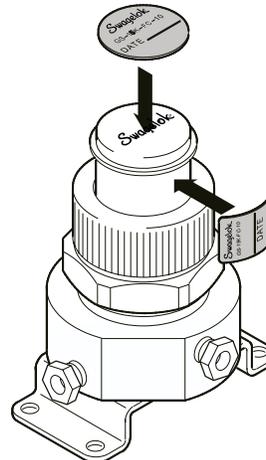
Check O-ring



1 3/4 in.



4. Date the labels and apply as shown.



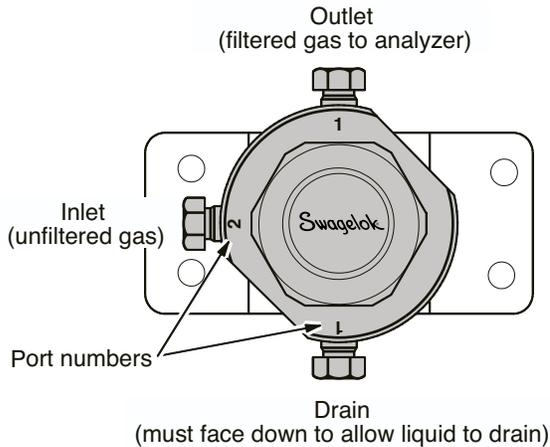
Installing the Filter Assembly (continued)

- Prepare to connect the system lines to the filter ports. The use of the filter for either coalescing or particle filtration determines how the ports are connected. See port numbers on the body.

For Coalescing Filtration

Port 1: Either Drain or Outlet

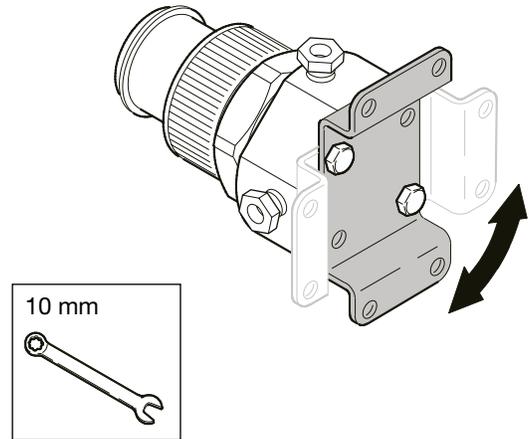
Port 2: Inlet



- Determine the mounting position of the bracket to the system panel.

If necessary, the mounting bracket can be rotated 90° as follows:

- Remove bolts.
- Turn bracket.
- Replace bolts.

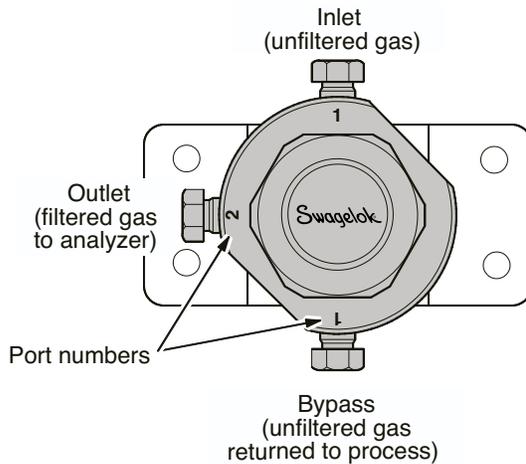


For Particle Filtration

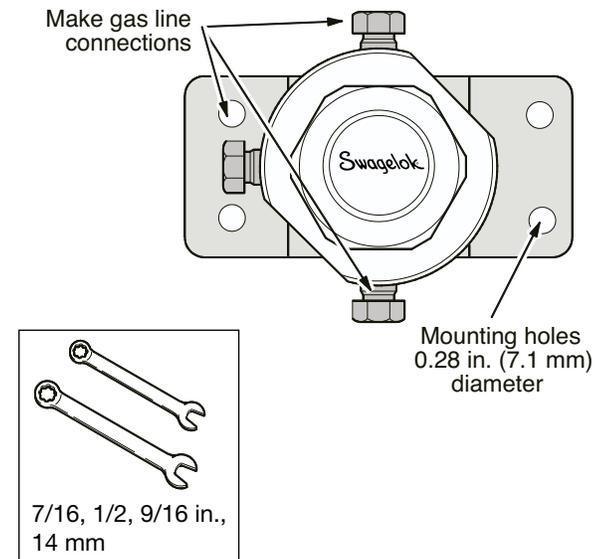
Port 1: Either Inlet or Bypass

Port 2: Outlet

Ports can be oriented any direction.



- Mount the bracket to the panel and connect the gas lines.



- Turn the system pressure ON. Check for:
 - No leaks around bowl.
 - No leaks around end connections.
 - Proper direction of gas flow.

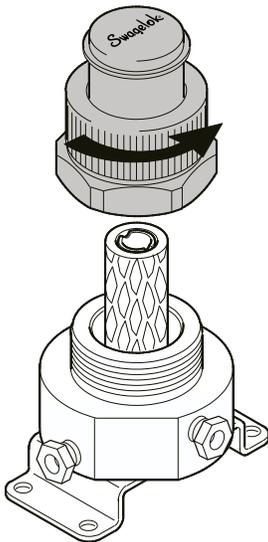
Filter Maintenance

Required maintenance consists of filter element replacement and O-ring replacement. The replacement time interval depends on your system requirements.

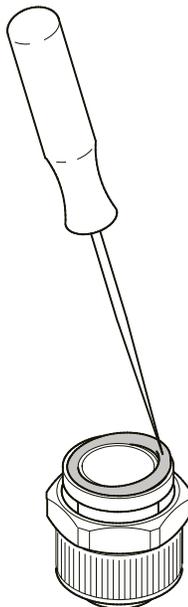
- ⚠ CAUTION:**
Before servicing any installed filter, you must:
- depressurize the system
 - purge the filter.

O-Ring Replacement

1. Remove the bowl assembly from the filter body.



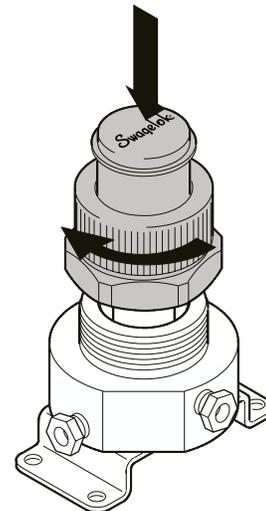
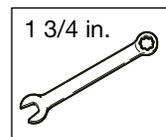
2. Remove the O-ring from the bowl assembly using a sharp probe.



3. Press the new O-ring firmly into the groove of the bowl assembly.



4. Replace the bowl assembly on the filter body and tighten to 45 in.·lb (5.1 N·m).

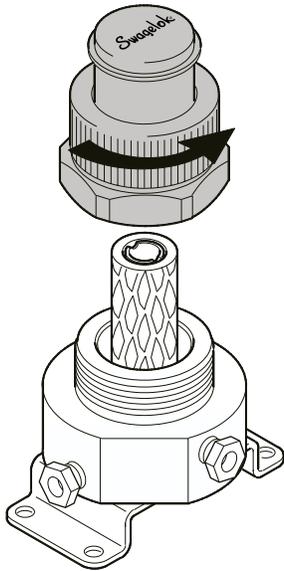


5. Turn the system pressure ON. Check for:
 - a. No leaks around bowl.
 - b. No leaks around end connections.
 - c. Proper direction of gas flow.

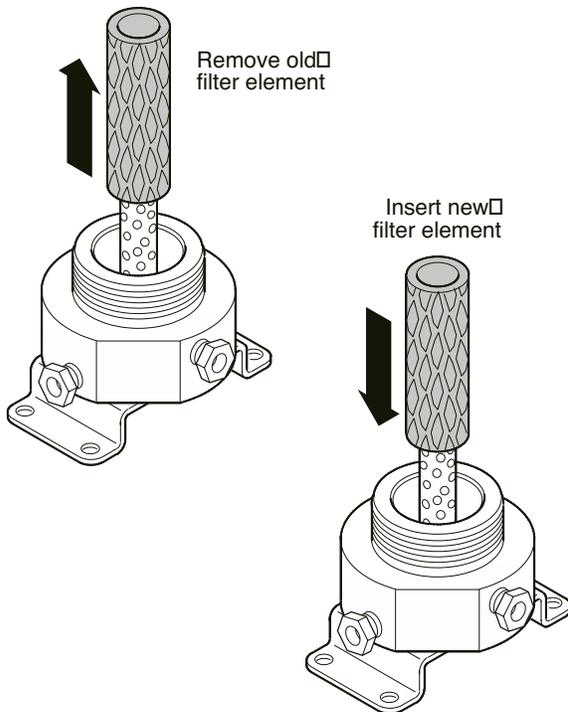
Filter Maintenance (continued)

Filter Element Replacement

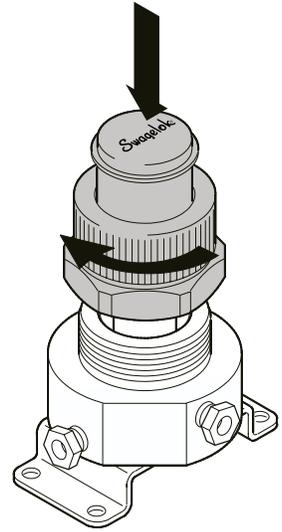
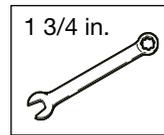
1. Remove the bowl assembly from the filter body.



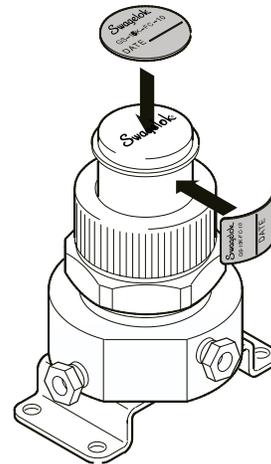
2. Remove the old filter element and replace it with a new element.



3. Replace the bowl assembly on the filter body and tighten to 45 in.-lb (5.1 N-m).



4. Remove the old date labels. Date new labels and apply as shown.



5. Turn the system pressure ON. Check for:
 - a. No leaks around bowl.
 - b. No leaks around end connections.
 - c. Proper direction of gas flow.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

 WARNING

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Translations available on www.swagelok.com

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