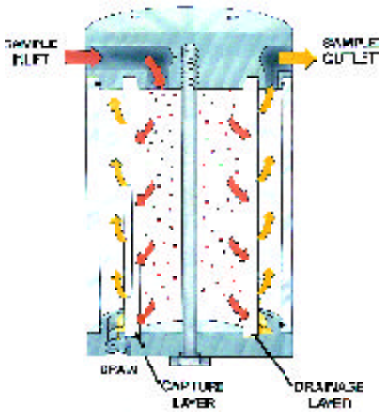


FF-250™ Series Filters act as a particulate filter and as a coalescer. It will remove liquid droplets and particles down to 0.1micron with an efficiency of 95% or greater. The thick, high capacity borosilicate glass and Teflon filter element will uniformly drain coalesced liquids to bottom of housing, where they can be evacuated through an 1/8" NPT drain port.

Coalescing filtration is achieved by forcing gas stream through filter element(see illustration). Flow path shown reflects a coalescing application. In this mode, small aerosol particles are forced together as they pass through fine inner layer of the filter element. Larger drops created in this process begin to fall out of gas stream due to their mass. This physical separation is assisted by the coarse element.

Used in a particulate only application, the filter can be installed to flow opposite of flow path shown. Captured particulate collects on visible, outside surface of the element which visual determination of element condition.

## DM GAS DRYER SPECIFICATIONS

| Description | Specification |
|---|---|
| Top and Bottom Materials | 316 SST or Kynar |
| Shell Material | Borosilicate Glass or 316 SST |
| Maximum Temerature | SST 230 C, Kynar® 120 C |
| Maximum Pressure | 30 PSIG |
| Dimensions | 2.5" dia. X 4.063" |
| Inlet, Outlet and Drain Ports | 1/8" NPT Female |
| Center Bolt | 1/4x20, Hastelloy C 276 |

## INSTALLATION

All ports are 1/8” NPT female. To use filter as a particulate filter, connect sample to port that is aligned with hole on underside of top cap.

To use as a coalescer, have sample flow inside filter element by connecting sample inlet to other port.

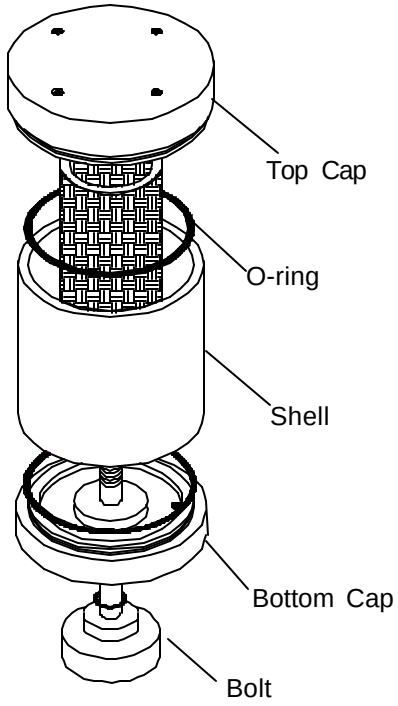


Figure 1

## REPLACING FILTER ELEMENT

FF-250 filter should be checked regularly to ensure element is in good condition. If filter element appears to be dirty or begins to cause flow restriction in system, it should be replaced.

1. Loosen bolt on bottom of filter housing (Refer to Figure 1).
2. Pull assembly apart and remove element.
3. Install glass shell onto bottom piece. May need slight twist to get shell over o-ring.
4. Place new element into grooves in top and bottom of housing.
5. Assemble top to shell assembly.
6. Visually enure element is seated correctly in top groove.
7. Replace bolt through bottom piece and screw clockwise into top piece. Tighten just enough so it does not vibrate loose.

## PART NUMBERS FOR REPLACEMENT

| Part Number | Description |
|---|---|
| FF-250-E-2.5G | Replacement Filter Element |
| FF-250-030 | Large Viton O-Ring |
| FF-250-009 | Small Viton O-Ring |

## PERFORMANCE

FF-250 filters will remove liquid droplets and particles down to 0.1 micron with and efficiency of 95% or greater.