



Installation: UFS filters must be correctly installed to assure effective filtration. The filter housing must be connected to the air/gas line with **LEAKTIGHT** connections. A pipe sealant (Teflon tape is recommended) should be applied to the male pipe connections before the filter housings are installed on-line. The filter housing may be pipe-mounted if the weight and the size of the filter housing and pipe (air/gas line) allow it. If not, an optional mounting bracket kit is available and recommended.

The filter housing must be installed in a perpendicular configuration to allow proper draining of liquids at its base. The head-to-bowl connection must be free of dirt. Do not apply any sealant to this connection, as it must be able to be re-opened.

For high efficiency **coalescing** filtration, flow direction through the filter element is from inside to outside. The housing ports are numbered, PORT #2 (inlet) and PORT #1 (outlet). By using this inside to outside flow direction, the liquid contamination is coalesced on the element while solid contamination is caught within the element.

For high efficiency **particulate** filtration, flow direction through the filter element is from outside to inside. PORT #1 (inlet) and PORT #2 (outlet). This allows the operator to see particulate build-up on the outside of the cartridge.

Element Selection:
Disposable Elements:

Grade 70C is a pneumatic grade coalescing filter. For instrument filtration, use a Grade 70C (pre-filter), followed by a Grade 50C final filter with inside to outside flow on both housings. For particulate only, replace the C-type (coalescing) with a K-type (particulate), which will have an outside to inside flow direction.

Stainless Steel, PTFE, and PEL Elements:

These elements can be used in either flow direction. Typically, the decision is based upon the specific application and whether a transparent bowl is being utilized for monitoring of particulate buildup.

Filter Element Installation:

UFS disposable microfiber, PTFE, and PEL filter elements are completely self-supporting and are sealed into the filter housing simply by tightening a retaining nut $\frac{1}{4}$ to $\frac{1}{2}$ turns after contact with the element. No end caps, gasket material, or support cores are required. At element change, only the filter element itself is discarded and this complete disposability keeps replacement element costs down. The Stainless steel elements do require, and are supplied with either PTFE or viton seals.

DPI (Differential Pressure Indicator):

We offer two types of DPI kits:

The dome type with a yellow stem is set to rise from a 2 to 16 PSIG differential.



The Visual Differential Indicator is designated as “VDI” and is designed as a colored gauge with set points from 0 to 6.2 PSIG in the green range, 6.3 to 9.6 in the yellow range, and an end point of 15 PSIG in the red range.



When to Change the Filter Element:

UFS coalescing filters are designed to have an initial dry pressure drop of less than 2 PSI. Thereafter, the pressure drop will increase very slowly as solid particles are captured and retained in the capture layer of the element. Particles are captured throughout the depth of the element and therefore cannot be back flushed or cleaned in a solution. UFS recommends changing the filter element when the pressure drop reaches 10 PSI. An optional differential pressure indicator will give a visual warning of the need to change the filter element.



Make sure to shut off the line pressure before changing elements. **Note** that before resuming line pressure be sure that all port connections, the drain plug, and housing bowl are securely installed. All connections must be **LEAKTIGHT** to insure effective filtration as well as **SAFTEY**. The user, through thier own analysis and testing, is solely responsible for the product selection and ensuring all responsibility, safety and warning requirements of the application are met.

*** Please consult your factory authorized UFS representative for other filtration applications.
 *** Note that other grades of UFS filter elements may be used with our housings.



Troubleshooting:

If after installation you are still experiencing filter problems, please recheck your installation and applications specs, and telephone your local UFS distributor or contact the factory direct for further assistance.



Warranty:

United Filtration Systems Inc. warrants their products against defects in material and workmanship for a period of one year from the date of purchase, providing use was in accordance with our recommendations. If product fails to perform as warranted, UFS will replace the product free of charges. The company will not be liable for incidental or consequential damages, labor charges, delays, or any other charges. We make no other warranty, expressed or implied. We reserve the right to make changes without notice.
 - Due to the variety of operating conditions and applications for these products and systems, the user, through their own analysis and testing is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.