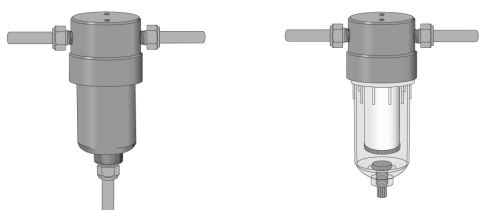


# Filtration Applications

Our filter housings and elements are suitable for a wide range of liquid and gas applications for particulate and coalescing.

Housings are available in a selection of materials to provide a solution for the most demanding applications. Materials including 316L Stainless Steel, Aluminium, PTFE, Nylon, Polypropylene, PVDF, as well as exotic materials such as Hasteloy, Monel, Titanium and Inconel.

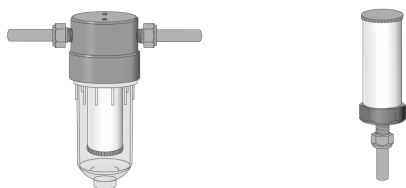
## Coalescing Filtration



Coalescing is the separation of liquid aerosols and droplets from a gas. Using a coalescing filter element installed in a housing with three ports the wet gas sample passes through element inside to outside.

The inner capture layer is a high efficiency coalescing layer and the outer a coarser drainage layer. Coalescing filter elements will also remove particulates at the same efficiency as particulate filter elements of the same grade.

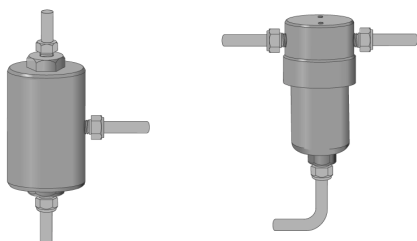
## Particulate Filtration



Particulates are removed from gases and liquids using a two port in-line filter housing and particulate type filter element. The liquid or gas flows through the element from the outside to the inside to maximise the service life.

Using the same particulate filter elements in a housing with a single port, solids are removed from liquids and gases in end of line applications.

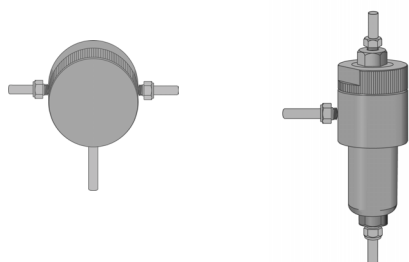
## Fast Loop & Bypass



Bypass or Fast Loop installations are used to minimise the time delay in sample systems. A relatively high flow is used to get the sample close to the analyser and then the low flow sample is split using the filter housing with the rest of the flow being returned to the process.

Traditionally bypass applications used a three port T-shaped housing, however the Fast Loop style housings allow a continuous flushing of the filter element and greatly increases the service life and reduces the internal volume of the system.

## PTFE Porous Membranes



PTFE membrane housings are designed to remove liquids from a gas. The porous PTFE membrane will only allow molecules of gas or vapour to pass through it and so all liquid is stopped.

They are suitable for sampling systems and applications to protect analysers and other instruments.