

# Filter Applications

## Gas Chromatography

Particulates in an instrument carrier gas stream can reduce the overall performance of laboratory analytical work. Removing particles can reduce background noise levels and enhance instrument accuracy and precision.

## Pharmaceutical Manufacturing

The capability of these filters to remove bacteria and other particulate matter enables pharmaceutical manufacturers to install a filter in gas lines to those systems requiring process, purge, or blanket gases, thus ensuring a virtually sterile gas atmosphere.

## Pneumatic Operated Devices

Because of the small orifices normally associated with these devices, they often malfunction and require frequent servicing. Installation of a particulate filter in the air or nitrogen feed lines helps to ensure longer trouble free operation, thus reducing downtime.

## Semiconductor Manufacturing

With increasing levels of device density the effect of particulate contamination becomes more damaging to potential yields. Semiconductor manufacturers install these filters in virtually all their gas lines to reduce the effects of particulates and improve their production yields.

## Series 5000 Teflon® Membrane Gas Line Filter 0.01 Microns



The Teflon® medium in this filter efficiently traps particles down to 0.01 microns. These units may be installed in gas lines supplied by cylinders or bulk sources. Both the materials and manner of construction render the Series 5000 units compatible with a wide variety of gases.

### 5000 Features

- 100% Efficient at 0.01 Micron Level
- Filter Medium - Porous PTFE Teflon® Membrane
- All Welded 316L Stainless Steel Construction
- Internal Finish - Less than 15 R<sub>a</sub>
- 0.5 sq. ft. Filter Area Provides High Particle Retention Capacity
- Excellent Compatibility with a Wide Variety of Gases

### 5000 Specifications

Filtration . . . . . 100% @ 0.01 Microns  
 Max. Operating Pressure . . . . . 1000 PSIG @ 70°F.  
 Max. Operating Temperature . . . . . 100°F.  
 Max. Flow . . . . . 250 slpm @ 15 psi ΔP

### How to Order:

Type of Connection	Model Number	Connection Size		Dimension			
		Inlet*	Outlet*	Length		Diameter	
				Inch	mm	Inch	mm
Standard Pipe	5000-P4FF	1/4" NPT female	1/4" NPT female	4.75	120.6	2.20	55.9
Tubing	5100-T4FF	1/4" tubing compression	1/4" tubing compression	5.56	141.2	2.20	55.9
Compression	5100-T8FF	1/2" tubing compression	1/2" tubing compression	5.81	147.6	2.20	55.9
VCR® Compatible Face Seal	5200-V4MM	1/4" face seal male	1/4" face seal male	5.62	142.7	2.20	55.9

\*Other end fitting configurations available on request.