

# 5848

## Технические характеристики

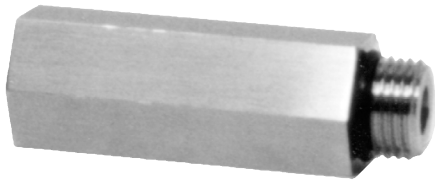
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Model 5848 In-Line Filter

# Model 5848

## In-Line Filter

Brooks® Model 5848 is a convenient in-line filter used to protect mass flow instruments from foreign matter. A sintered stainless steel filter element, mounted in a protective housing, can be easily removed for cleaning or replacement. Filtration ratings of 0.5, 2, 5, 10, and 40 micron are available.

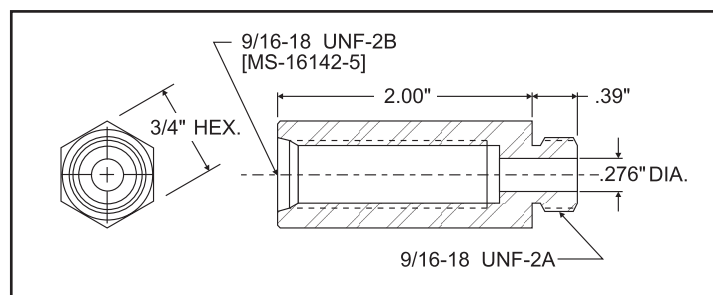
The Model 5848 filter is designed to be used with Brooks Models 5850, 5851 and 5860 mass flow meters and controllers. Both male and female ends are 9/16-18 threads (MS-16142). The inlet connection fitting supplied with the mass flow instrument is removed, the filter is screwed into its place, and then the original fitting is attached to the female end of the filter.

The Model 5848 filter adds only 2.0" to the installed length of the mass flow instrument, making for a compact assembly. The large area elements provide a maximum of filtration with a minimum pressure drop; replacement elements are available. This filter protects the mass flow device from contamination, preserving accuracy and providing peace of mind.

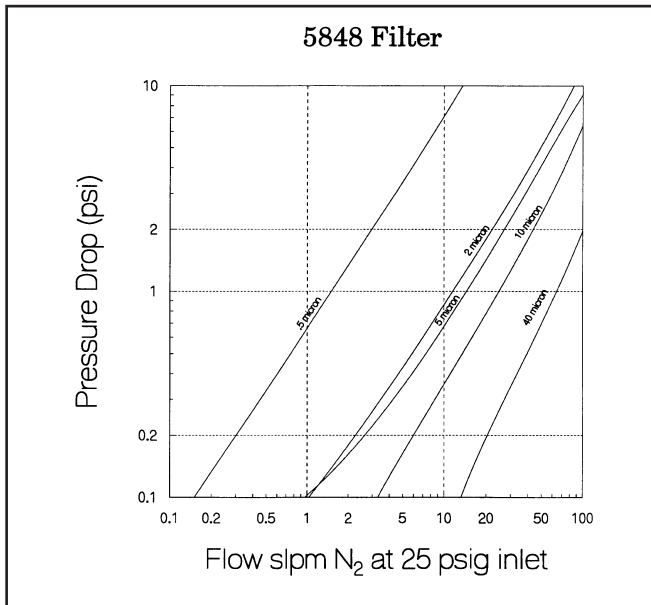
### Product Specifications

Maximum Pressure	4500 psig (300 bar)
Maximum Temperature	150°F (65°C)
Connections	9/16"-18 male and female threads (MS16142)
Dimensions	See Dimensions figure
Materials of Construction	
Housing	316 Stainless Steel
Filter Element	316 Sintered Stainless Steel
O-rings	Viton® fluoroelastomers, Buna or optional Kalrez®

### Product Dimensions



## Filtration Element Selection



The element with the greatest filtration (smallest micron size) should be selected that will produce less than 1 psi pressure drop at the maximum gas flow and minimum inlet pressure. Graph above shows the pressure drop vs. flow for Nitrogen at 25 psi inlet pressure.

The pressure drop of the Model 5848 is a function of flow and pressure. The data presented in the graph can be corrected for pressure using formula #1.

Formula #1, Pressure Correction

$$\Delta P = \Delta P_{25} \times \frac{[39.7 \text{ psia}]^{0.8}}{[P]}$$

WHERE:

$\Delta P$  = Pressure Drop at New Pressure

$\Delta P_{25}$  = Pressure Drop at 25 psig (from graph)

P = New Inlet Pressure (psia)

Example: Find the actual pressure drop across a 5 micron filter at 50 psig inlet pressure and 10 slpm\*\* Nitrogen flow.

The pressure drop for Nitrogen at 25 psig and 10 slpm is 0.54 psi from the graph.

$$\Delta P = 0.54 \times \frac{[39.7]^{0.8}}{[50+14.7]} = 0.37 \text{ psi}$$

\*\* Standard temperature and pressure in accordance with SEMI (Semiconductor Equipment and Materials International) standard E12-91: 0°C and 101.3kPa (760 Torr).

## Model Code

Code Description	Code Option	Option Description
I. Base Model Number	5848B	Model 5848 In-Line Filter
II. Filter Size	1	0.5 micron
	2	2 micron
	3	5 micron
	4	10 micron
	5	40 micron
III. O-ring Material	B	Buna
	K	Kalrez
	V	Viton
IV. Code	1	Brooks Code

Sample Standard Model Code

I	II	III	IV
5848B	3	V	1

Example: 5848B3V1 - 5 micron with Viton O-rings

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