

# AVENGER™ 91

## Particulate & Coalescing Filter

### High performance filters providing the utmost flexibility for coalescing/particulate filtration needs!

The Avenger™ 91 Filters provide the utmost in flexibility for your coalescing and particulate filtration needs. The conventional 3-port model is a direct replacement for competitive vertically mounted sample filters. However, the 5-port model, with its two different porting configurations allows for greater mounting and application flexibility. These filters were specifically designed for analyzer sample conditioning applications by analyzer sample conditioning specialists.



#### Technical Specifications

<b>Maximum pressure rating</b>	3,750 psig (258.6 barg)
<b>Maximum temperature</b>	300°F (149°C) * Actual limit depends on sealing material chosen. Refer to Temperature Range Comparison Chart.
<b>Element size</b>	<b>Outside Diameter:</b> ~ 0.85" <b>Inside Diameter:</b> ~ 0.5" <b>Length:</b> ~ 2.3"
<b>Element types</b>	07CFS = coalescer fluorocarbon (99.97%*) 07PI = particulate inorganic (99.97%*) 07PF = particulate fluorocarbon (99.97%*) SS10A = sintered stainless steel (10 micron) SS100A = sintered stainless steel (100 micron) *% of 0.1 micron particles retained
<b>Port sizes</b>	1/4" female NPT
<b>Number of ports</b>	3 or 5
<b>Internal volume</b>	27 cc
<b>Wetted materials</b>	<b>Machined parts:</b> 316/316L stainless steel / ISO 15156-3 compliant <b>All other metal parts:</b> stainless steel / ISO 15156-3 compliant <b>Sealing material:</b> User Defined

#### Product Brief

##### Applications

- Continuous sampling in any process industry including natural gas, petrochemical, and oil refining.
- Analyzer protection against micron and sub-micron particles

##### Benefits

- Helps preserve sample integrity
- Analyzer protection
- Quick and easy to install and maintain
- Quick and easy element inspection
- Economical
- Flexible installation configuration

##### Features

- 3 or 5 port configuration
- Can be mounted horizontally or vertically
- All primary connection ports on the head

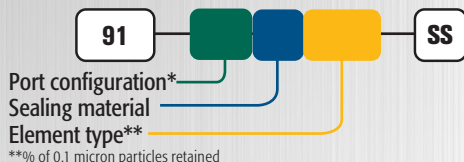


## Model Numbering & Additional Part Numbers

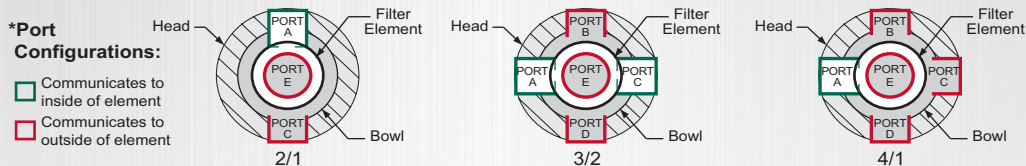
Your model number is determined by your specific needs. Choose options below.

<b>Port configuration*</b>	2/1 = 3 port (2 outer, 1 center)	4/1 = 5 port (4 outer, 1 center)	3/2 = 5 port (3 outer, 2 center)
<b>Sealing material</b>	0 = Fluoroelastomer	1 = Perfluoroelastomer	(other materials available upon request)
<b>Element type**</b>	07CFS = coalescer fluorocarbon (99.97%**)	SS10A = sintered stainless steel (10 micron)	SS100A = sintered stainless steel (100 micron)
	07PI = particulate inorganic (99.97%**)	XX = no element	
<b>Mounting bracket accessory</b>	Vertical part # = 90-509-SS-V	Horizontal part # = 90-509-SS-H	

### How to build the model number:

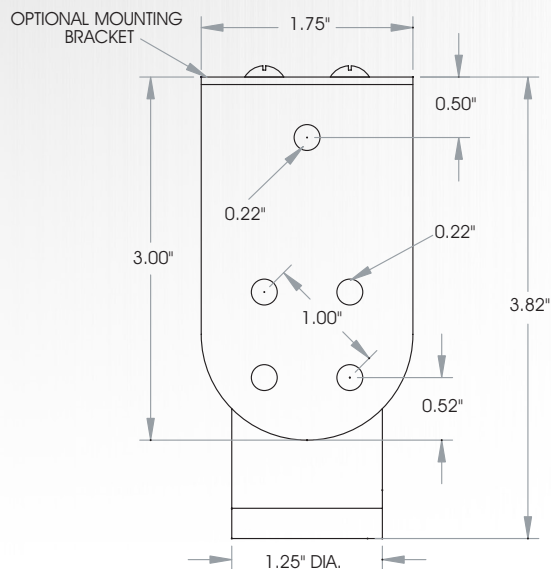


### How to build the replacement filter element number:

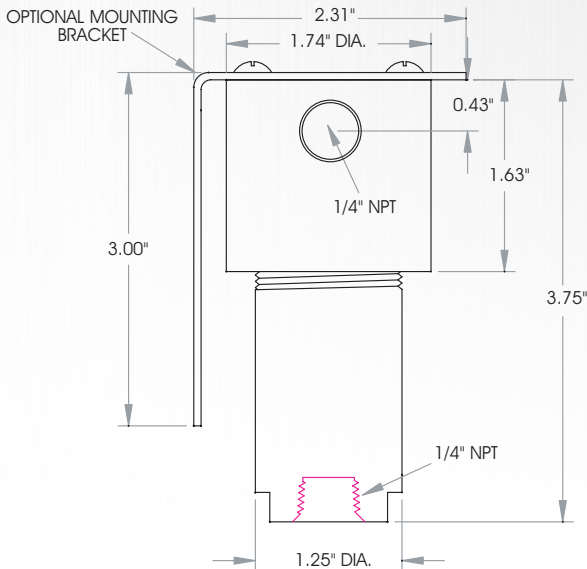


## Dimensions

### Back View



### Side View



Analytically Correct™ sample systems, sample conditioning components, and revolutionary gas and liquid sampling technology.

Contact us for expert product application assistance.

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