

## Models AG6090, AG6092

### Replaceable Element, High Pressure Submicron Filters

These in-line filters feature a unique mechanism which combines Brownian motion and mechanical filtration to remove 99.99% of all particles 0.1 micron and larger. Particularly suited for use upstream of regulators, these filters protect the regulator from particulate contamination which can build up and eventually cause seat leakage and regulator failure. The filter housing includes a third port (supplied with 1/4" hex plug) to provide access to purge or bypass filtration.

The inexpensive element is easily replaced. The filter element has excellent resistance to water, high pH solutions, oxygenated solvents and strong acids. The "filter" configuration allows the element to be replaced without removing the filter from the process line.

#### Specifications

Maximum Operating Pressure: 3000 psig  
 Operating Temp. Range: -58°F to 300°F  
 Maximum Differential Pressure: 100 psi  
 Filtration Rating: 0.1 micron at 99.99% efficiency (removes 99.99% of all particles 0.1 micron or larger)  
 Flow Coefficient (clean condition):  
 $C_v = 0.80$   
 Inlet and Outlet Connections:  
 1/4" NPT female  
 Third Port: 1/4" NPT female supplied with H.P. male hex pipe plug  
 Approximate Weight: 1 lb

#### Materials of Construction

Body, Cap and Retainer: See Table I  
 Seal: Teflon®  
 Filter Element: Borosilicate Glass Fibers with a Fluorocarbon Resin Binder

Table I

Part No.	Body, Cap and Retainer Material
AG6090	Type 316L Stainless Steel
AG6092	Brass



AG6090 Filter

AG6091N Replacement Element



#### Optional Equipment

Equipment	Part No.
Replacement Element	AG6091N
Replacement Seal	0202-3270

## Models AG6097, AG6098

### Replaceable Element, High Pressure Submicron In-Line Filters

These low cost in-line filters are designed for gas or liquid systems requiring a high level of filtration (0.1 micron). The filtration principles and elements are identical to those used in our Model AG6090 filter described above.

#### Specifications

Maximum Operating Pressure: 3000 psig  
 Operating Temp. Range: -58°F to 300°F  
 Maximum Differential Pressure: 20 psi  
 Filtration Rating: 0.1 micron at 99.99% efficiency (removes 99.99% of all particles 0.1 micron or larger)  
 Flow Coefficient (clean condition):  
 $C_v = 0.95$   
 Dimensions: 3.11" x 1.26"  
 Inlet and Outlet Connections:  
 1/4" NPT female  
 Approximate Weight: 8 oz

#### Materials of Construction

Body and Retainer: See Table I  
 Seals: Viton®  
 Filter Element: Borosilicate Glass Fibers with a Fluorocarbon Resin Binder

Table I

Part No.	Body and Retainer Material
AG6097	Brass
AG6098	Type 316L Stainless Steel



AG6098 Filter

#### Optional Equipment

Equipment	Part No.
Replacement Element	AG6091N
Replacement Seal	0202-3271