

# Models SG6112, SG6113, SG6114

## High Pressure, High Purity, Stainless Steel In-Line Filters

These in-line filters have a pleated wire mesh element which is easily cleaned by flushing the filter in the opposite direction to normal flow. Flow may be in either direction. All metal welded construction makes these filters ideal for use in high purity and ultra high purity gas systems.



SG6112/13 Filter

### Specifications

Maximum Operating Pressure: 6000 psig

Operating Temperature Range:

- 20°F to 100°F @ 6000 psig
- 20°F to 900°F @ 3000 psig

Maximum Differential Pressure: 100 psi

Filtration Rating: See Table I

Flow Coefficient (clean condition):

- SG6112: Cv = 0.40
- SG6113 and SG6114: Cv = 0.36

Pressure Drop (to atmosphere):

- SG6112:
  - 10 psi at 156 slpm Air
  - 50 psi at 433 slpm Air
  - 100 psi at 768 slpm Air
- SG6113 and SG6114:
  - 10 psi at 140 slpm Air
  - 50 psi at 389 slpm Air
  - 100 psi at 691 slpm Air

Dimensions:

- SG6112 and SG6113: 1 3/4" x 1" hex
- SG6114: 2 1/32" x 1" hex

Inlet and Outlet Connections: See Table I

Approximate Weight: 4 oz

### Materials of Construction

Body: Type 316 Stainless Steel

Retainer Screens: Type 316 Stainless Steel

Pleated Mesh Element:

- SG6112: Type 316 Stn. Stl.
- SG6113 and SG6114: Type 304 Stn. Stl.



SG6114 Filter

Table I

Part No.	Inlet and Outlet Connections*	Nominal Filtration Rating
SG6112	1/4" NPT male by 1/4" NPT female	15 micron
SG6113	1/4" NPT male by 1/4" NPT female	2 micron
SG6114	1/4" male VCR® (both ends)	2 micron

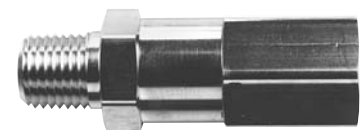
\* Flow may be in either direction.

# SG6120 Series

## High Pressure, Brass In-Line Filters

These in-line filters feature a sintered 316 Stainless Steel element which is easily removed for cleaning or replacement.

The 1/4" NPT female by male configuration makes these filters convenient for use upstream of pressure regulators. These filters will protect a regulator from particulate contamination which can build up and eventually cause seat leakage and regulator failure.



SG6120 Filter

### Specifications

Maximum Operating Pressure: 3000 psig

Operating Temperature Range:

- 15°F to 100°F @ 3000 psig
- 15°F to 400°F @ 1500 psig

Filtration Rating: See Table I

Flow Coefficient (clean condition):

- SG6120: Cv = 0.17
- SG6121: Cv = 0.11
- SG6122: Cv = 0.05
- SG6128: Cv = 2.2
- SG6129: Cv = 2.2

Dimensions:

- SG6120, SG6121, SG6122: 2 1/4" x 3/4" hex
- SG6128, SG6129: 3 9/16" x 1 1/4" hex

Inlet Connections: See Table I

Outlet Connections: See Table I

### Materials of Construction

Body: Brass

Spring, Element and Gasket: Type 316 Stainless Steel

Seal: Viton®

Table I

Part No.	Inlet and Outlet Connections	Nominal Filtration Rating
SG6120	1/4" NPT female by 1/4" NPT male	10 micron
SG6121	1/4" NPT female by 1/4" NPT male	5 micron
SG6122	1/4" NPT female by 1/4" NPT male	1 micron
SG6128	1/2" NPT male by 1/2" NPT female	100 micron
SG6129	1/2" NPT female by 1/2" NPT female	100 micron