

## > GasShield® Nickel and Stainless Steel Gasket Filters



### Fits Inside 1/4" and 1/2" Face Seal Fittings

- Porous Metal media are nickel or 316L SS for complete compatibility with most inert and specialty gases.
- Allows integration of gas filter without adding length to gas system.
- Parts-per-trillion moisture drydown achievable.
- Retains particles down to 0.003 µm.
- Minimized total surface area.
- All-metal, all-welded design.
- No particulate shedding.

### Nickel Filter Specifications

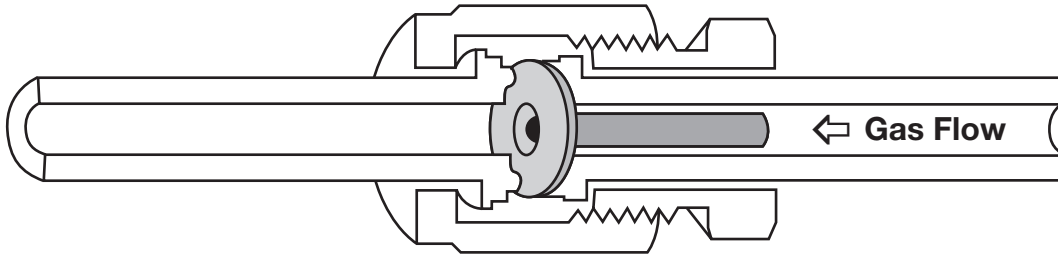
Product Description	GSG-V4-1-N	GSG-V4-3-N	GSG-V4-1-2	GSG-V5-1-2N
<b>Rated Flow</b>	1 SLPM	3 SLPM	20 SLPM	50 SLPM
<b>Retention</b> (at rated flow)	Greater than 99.9999999 (9 log) removal of all particles down to 0.003 µm; confirmed at the most penetrating particle size of 0.08 µm.		0.4 µm nominal	0.4 µm nominal
<b>Gasket Material</b>	Nickel	Nickel	Nickel	Nickel
<b>Face Seal Gasket Size</b>	1/4 inch	1/4 inch	1/4 inch	1/2 inch
<b>Element Length</b> (nominal)	1 inch	3 inch	1 inch	1 inch
<b>Maximum Differential Pressure</b> (20°C)	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward and Reverse
<b>Maximum Recommended Operating Temperature</b>	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)
<b>Changeout Interval</b>	System Dependent	System Dependent	System Dependent	System Dependent

### Stainless Steel Filter Specifications

Product Description	GSG-V4-1-S	GSG-V4-3-S	GSG-V4-1-2S	GSG-V5-1-2S
<b>Rated Flow</b>	1 SLPM	3 SLPM	20 SLPM	50 SLPM
<b>Retention</b> (at rated flow)	Greater than 99.9999999 (9 log) removal of all particles down to 0.003 µm; confirmed at the most penetrating particle size of 0.08 µm.		0.4 µm nominal	0.4 µm nominal
<b>Gasket Material</b>	316L SS	316L SS	316L SS	Nickel
<b>Face Seal Gasket Size</b>	1/4 inch	1/4 inch	1/4 inch	1/2 inch
<b>Element Length</b> (nominal)	1 inch	3 inch	1 inch	1 inch
<b>Maximum Differential Pressure</b> (20°C)	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward and Reverse
<b>Maximum Recommended Operating Temperature</b>	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)
<b>Changeout Interval</b>	System Dependent	System Dependent	System Dependent	System Dependent

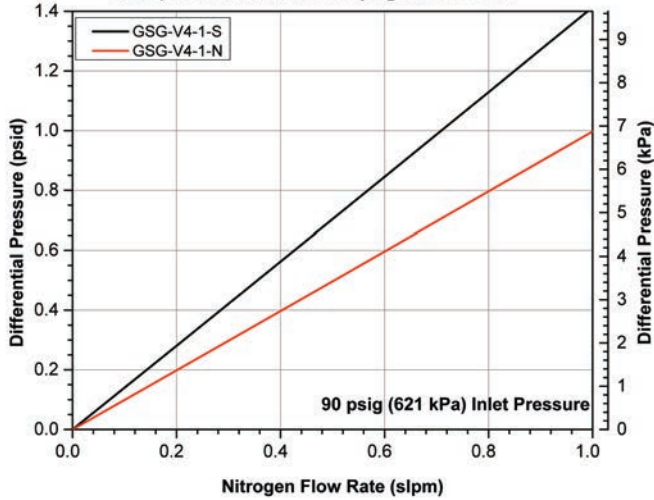
> high purity products

> mottcorp.com

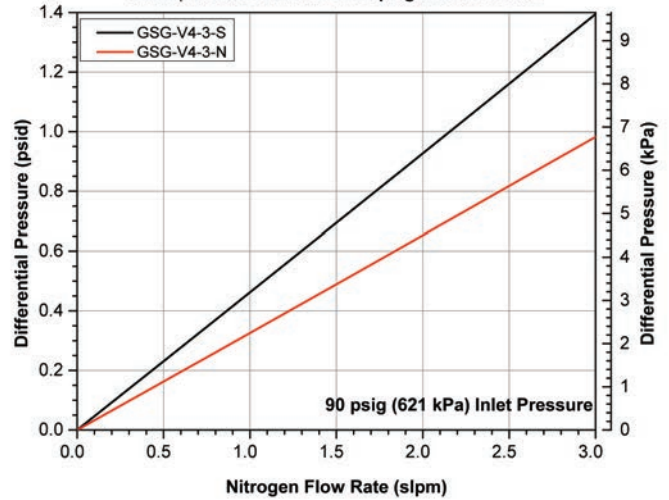


Flow Versus Differential Pressure

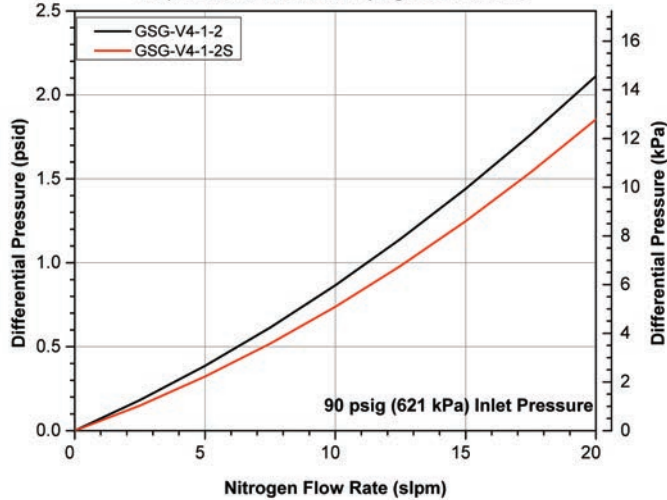
Mott GSG-V4-1-N and GSG-V4-1-S Flow Rate vs. Differential Pressure  
0.003 μm Gasket Filters at 90 psig Inlet Pressure



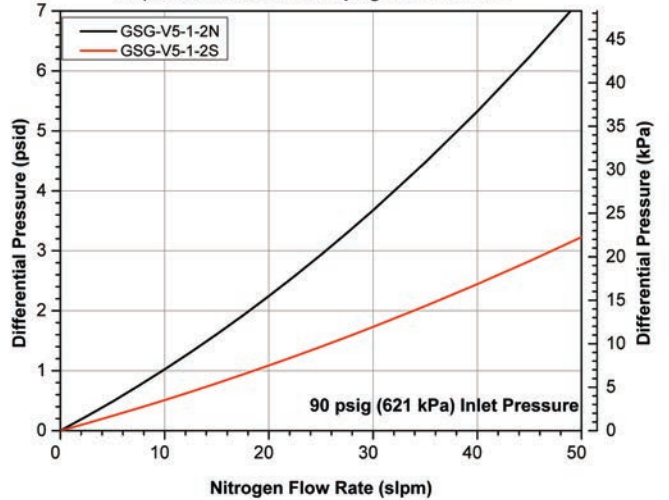
Mott GSG-V4-3-N and GSG-V4-3-S Flow Rate vs. Differential Pressure  
0.003 μm Gasket Filters at 90 psig Inlet Pressure



Mott GSG-V4-1-2 and GSG-V4-1-2S Flow Rate vs. Differential Pressure  
0.4 μm Gasket Filters at 90 psig Inlet Pressure



Mott GSG-V5-1-2N and GSG-V5-1-2S Flow Rate vs. Differential Pressure  
0.4 μm Gasket Filters at 90 psig Inlet Pressure



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