

> GasShield® Nickel and Stainless Steel GasketFilters



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.

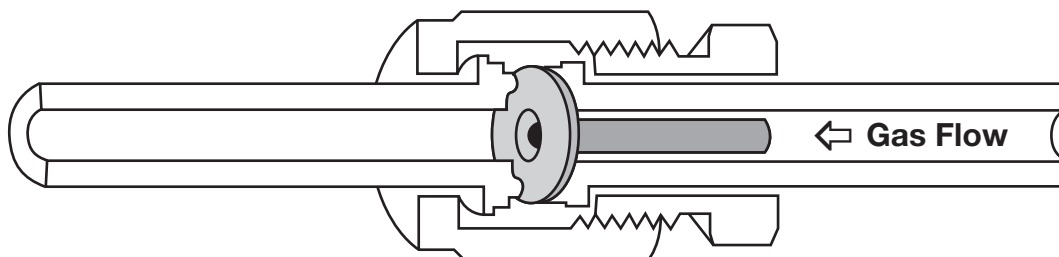
Nickel Filter Specifications

Product Description	GSG-V4-1-N	GSG-V4-3-N	GSG-V4-1-2	GSG-V5-1-2N
Rated Flow	1 SLPM	3 SLPM	20 SLPM	50 SLPM
Retention (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
Gasket Material	Nickel	Nickel	Nickel	Nickel
Face Seal Gasket Size	1/4 inch	1/4 inch	1/4 inch	1/2 inch
Element Length (nominal)	1 inch	3 inch	1 inch	1 inch
Maximum Differential Pressure (20°C)	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward or Reverse	1000 psid Forward and Reverse
Maximum Recommended Operating Temperature	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)	450°C (Inert Gas)
Changeout Interval	System Dependent	System Dependent	System Dependent	System Dependent

Stainless Steel Filter Specifications

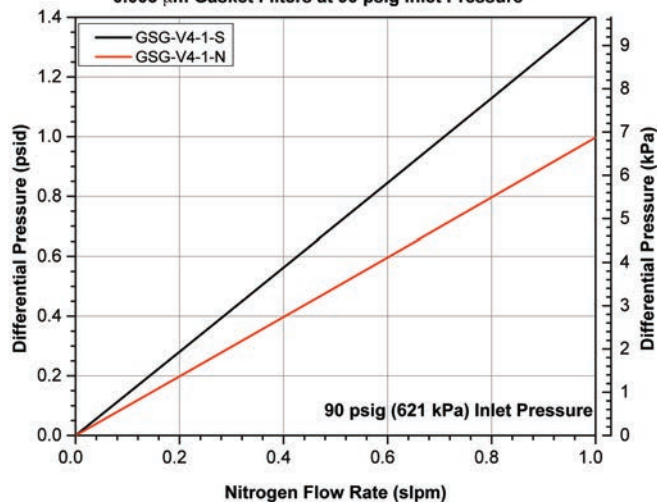
Product Description	GSG-V4-1-S	GSG-V4-3-S	GSG-V4-1-2S	GSG-V5-1-2S
Rated Flow	1 SLPM	3 SLPM	20 SLPM	50 SLPM
Retention (at rated flow)	Greater than 99.9999999 (9 log) removal of all particles down to 0.003 µm; confirmed at the most penetrating particle size of 0.08 µm.		0.4 µm nominal	0.4 µm nominal
Gasket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

> high purity products

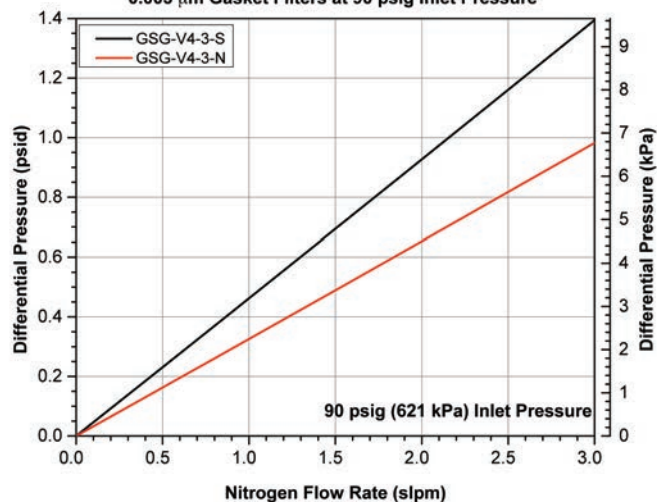


Flow Versus Differential Pressure

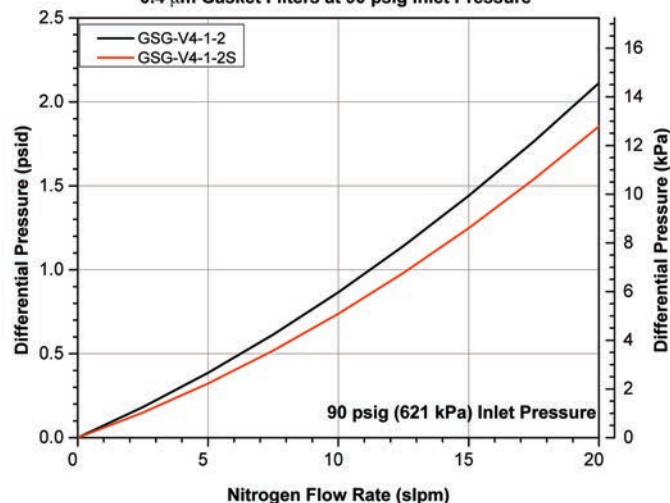
Mott GSG-V4-1-N and GSG-V4-1-S Flow Rate vs. Differential Pressure
0.003 μ m Gasket Filters at 90 psig Inlet Pressure



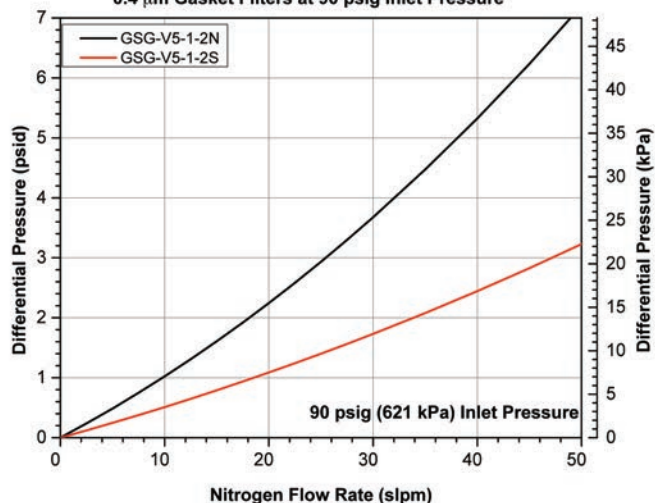
Mott GSG-V4-3-N and GSG-V4-3-S Flow Rate vs. Differential Pressure
0.003 μ m Gasket Filters at 90 psig Inlet Pressure



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



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



mott corporation