

Sentry Series Point-of-Use Gas Filters

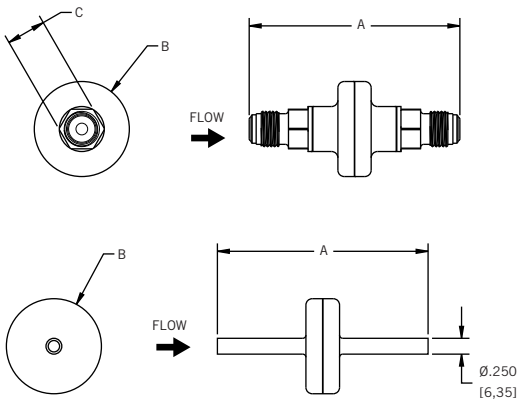


Description

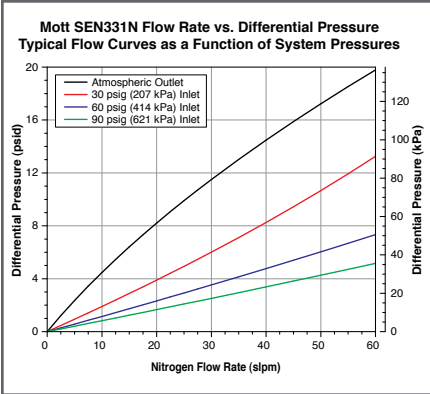
The Sentry Series point-of-use filters are cost-effective, all-metal, ultra high purity gas filters that utilize Mott patented Penta nickel media and provide 9-log filtration of particles down to 0.0015 µm, resulting in particle-free gas.

Applications

Ultra high purity gas sticks for semi-conductor, LED, photovoltaic and MEMS equipment hookup. Ultra high purity filtration in valve manifold boxes, gas cabinets, tool isolation gas boxes, on-board gas delivery boxes or any process requiring ultra high purity particle removal.



SAMPLE FLOW DATA



ORDERING INFORMATION

Part Description	Part Number	Fitting Type	Hardware Material	Filter Media	Surface Finish	Max Operating Pressure	Max Differential Pressure	A Inches/mm	B Inches/mm	C Inches/mm
SEN331NFF11	6815001	1/4 inch Male/Male Face Seal	316L SS	Penta Nickel	10 Ra, Electro-polished	3000 psig (206.8 barg)	500 psig (34.5 bar)	3.31/84.0	1.50/38.1	0.625/15.9
SEN280NFP11	6815005	1/4 inch Male/Female Face Seal	316L SS	Penta Nickel	10 Ra, Electro-polished	3000 psig (206.8 barg)	500 psig (34.5 bar)	2.81/71.3	1.50/38.1	0.625/15.9
SEN112NTT11	6815004	1/4 inch Butt Weld Tube Stubs	316L SS	Penta Nickel	10 Ra, Electro-polished	3000 psig (206.8 barg)	500 psig (34.5 bar)	1.12/28.4	1.50/38.1	N/A

*Custom designs and fittings available. Contact a Mott representative for more information.

SPECIFICATIONS

Particle Removal Size:	≥ 0.0015 µm
Filter Efficiency (Log Reduction Value):	≥ 9 LRV (99.9999999% reduction in particles). Confirmed at the most penetrating particle size of 0.08 µm per SEMI F38-0699 test method
Helium Leak Rating:	1 x 10 ⁻⁹ atm cc/sec
Moisture Contribution:	<10 ppb after 1 hour at low-flow ambient purge per SEMI F27 test method
Total Hydrocarbons:	Below detectable limits per ASTM F1398 test method
Particle Shedding:	Zero particle contribution above background (<1 particle/ft ³) per SEMI F43-0308 test method
Maximum Operating Temperature	450° C

SENTRY