Mott High Purity Gas Filter

Sentry Series

Penta® Nickel Filter Media

Description

The Sentry is a line of cost effective all-metal Ultra High Purity (UHP) gas filters that utilizes the Mott Patented Penta nickel media. The Sentry filter provides 9 LRV filtration down to 0.003 µm.

Applications

UHP gas sticks for Semiconductor, LED, Photovoltaic and MEMS Equipment Hookup. UHP 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.

Materials of Construction

Hardware:	316L SS
Filter Medium:	Penta Nickel
Wetted Hardware Surface Finish:	10 Ra, Electro-polished

Performance Specifications

Rated Flow:	30 slpm
Particle Removal Size:	0.003 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 SEMASPEC 90120396B test method
Particle Shedding:	Zero particle contribution above background (<1 particle/ft^3) per SEMI F43-0308 test method

Operating Conditions

Maximum Operating Pressure:	3000 psig (207 barg)
Maximum Operating Temperature for Inert Gas:	450°C
Maximum Differential Pressure:	500 psid (34.5 bar)

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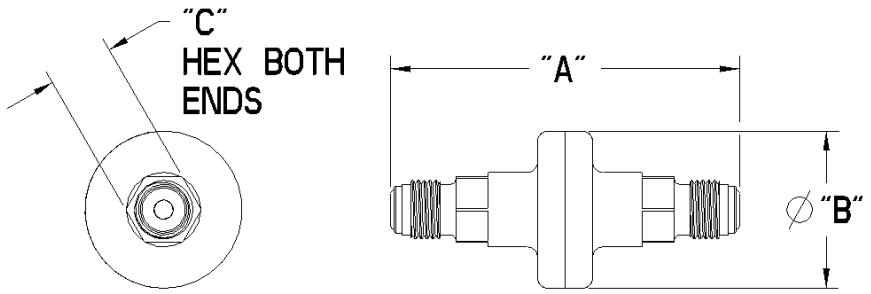
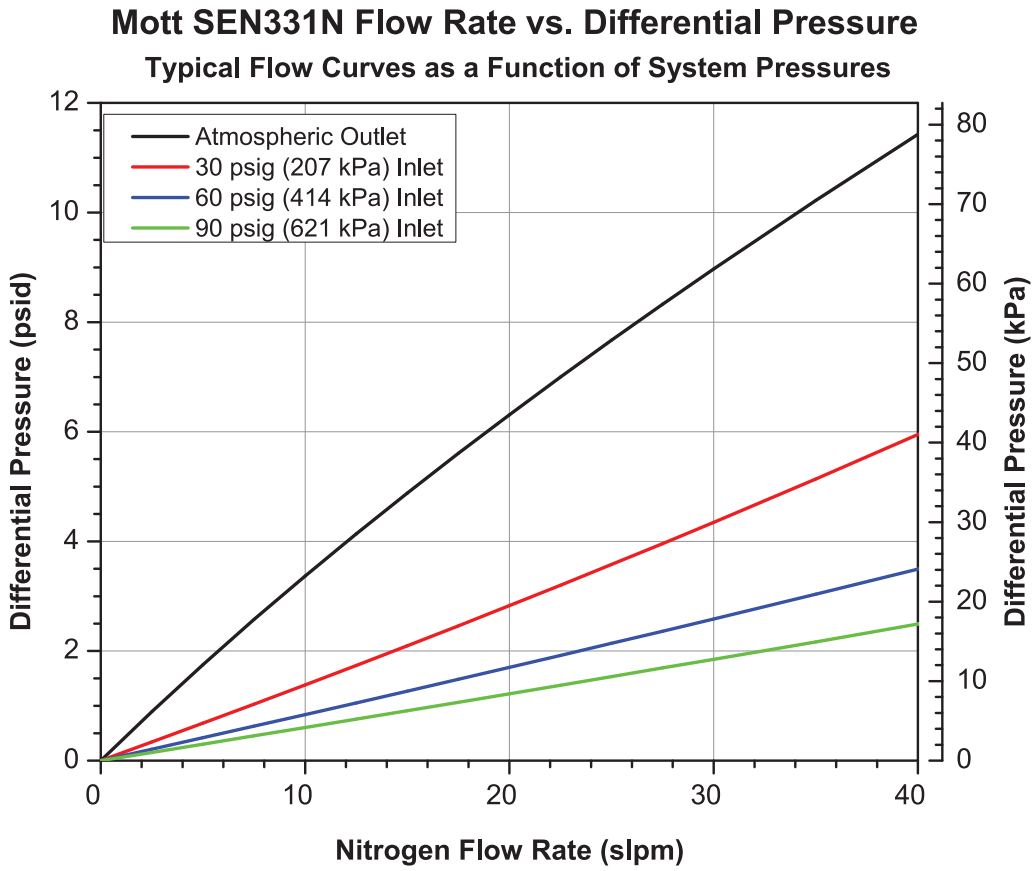


Ordering Information:

Part Description	Part Number	Fitting Type	A Inches/ mm	B Inches/ mm	C Inches/ mm
SEN331NFF11	6815001	1/4 inch Male/Male Face Seal	3.31/84.0	1.50/38.1	0.625/15.9
SEN280NFP11	6815005	1/4 inch Male/Female Face Seal	2.81/71.3	1.50/38.1	0.625/15.9
SEN112NTT11	6815004	1/4 inch Butt Weld Tube Stubs	1.12/28.4	1.50/38.1	N/A



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Note: Specifications are subject to change without notice. Contact Mott authorized sales representative for most recent specifications.