

GASSHIELD® POINT-OF-USE BULK FILTERS

1.5 nm FILTRATION

mott
MISSION CRITICAL PRECISION

BGF 610 - PENTA® NICKEL MEDIA

DESCRIPTION

Mott High Purity Bulk Filters provide 9-log filtration of particles down to 0.0015 μm resulting in particle-free gas. In addition, the flow versus differential pressure performance of the filter is equal or superior to the performance of competitive polymer products on the market today. Refer to flow rate data on the back page for more information.

APPLICATIONS

Mott provides the high-strength, all-metal solution to filtration requirements for gas flow streams at the gas pad. Mott bulk filters are ideally suited to the higher temperatures that can be encountered downstream of a purifier during heated dry down operations.



OPERATING CONDITIONS

- » Maximum Operating Pressure: 450 psig (31.0 barg)
- » Maximum Operating Temperature for Inert Gas: 450°C
- » Maximum Differential Pressure: 250 psid (17.2 barg)

MATERIALS

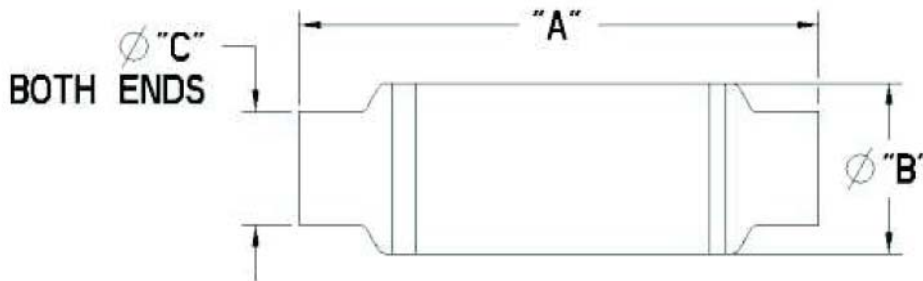
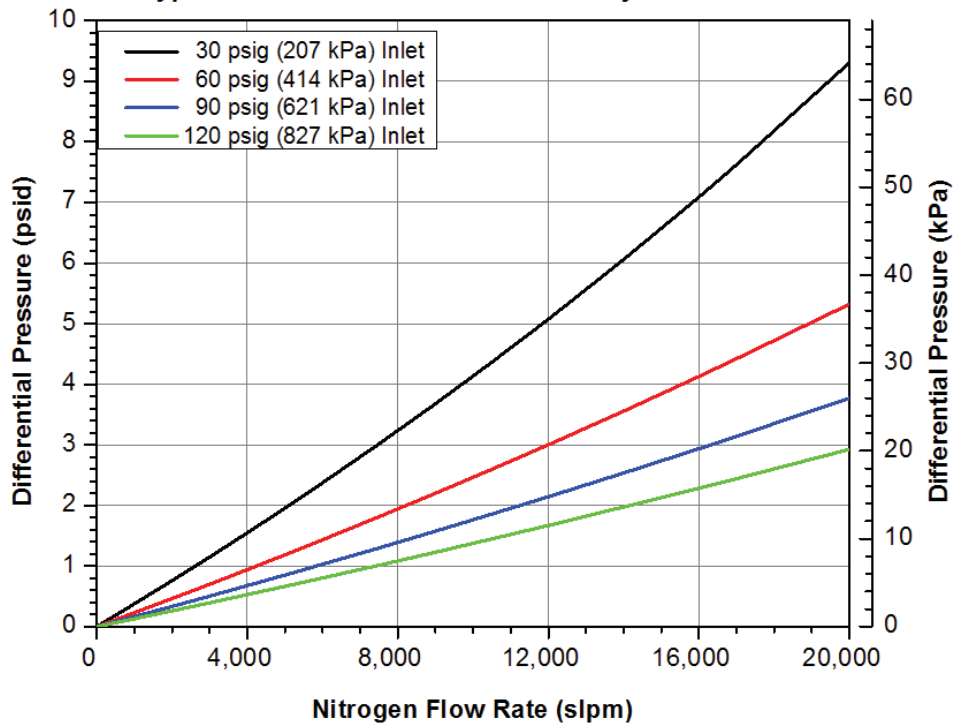
- » Hardware: 316L SS
- » Filter Medium: Penta® Nickel
- » Wetted Hardware Surface Finish: 10 Ra, Electro-polished

SPECIFICATIONS

Particle Removal Size:	$\geq 0.0015 \mu\text{m}$
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:	1×10^{-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

Warranty:
Mott Corporation ("Mott") warrants its GasShield filter will meet the specified retention and media integrity standards for a period of five years from the date of purchase, providing the filter is properly installed and used in accordance with the specified flow, pressure, temperature, and chemical compatibility as published by Mott. Mott will replace or grant a purchase price refund for any GasShield filter which proves defective under the terms of this limited warranty. No other remedies apply. Mott disclaims all other warranties, either expressed or implied, including any warranty of merchantability or fitness for a particular purpose. Mott shall have no liability for consequential incidental, special or punitive damages, lost profits or savings, or damages from lost production or damage to other materials.

Mott BGF-610 Flow Rate vs. Differential Pressure
 Typical Flow Curves as a Function of System Pressures



ORDERING INFORMATION

Part Description	Part Number	Fitting Type	A Inches/mm	B Inches/mm	C Inches/mm
BGF-610-4TS-N-19M	6825312	4" Tube Stub	18.40/467.4	6.00/152.4	4.00/101.6
BGF-610-2TS-N-19M	6825311	2" Tube Stub	24.86/631.4	6.00/152.4	2.00/50.8
BGF-610-1.5TS-N-19M	6825314	1.5" Tube Stub	24.86/631.4	6.00/152.4	1.50/38.1
BGF-610-1TS-N-19M	6825313	1" Tube Stub	24.86/631.4	6.00/152.4	1.00/25.4

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

Mykron

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