GASSHIELD® POINT-OF-USE BULK FILTERS 1.5 nm FILTRATION



BGF 310 - PENTA® NICKEL MEDIA

DESCRIPTION

Mott High Purity Bulk Filters provide 9-log filtration of particles down to $0.0015~\mu m$ 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: 650 psig (44.8 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:	≥ 0.0015 µm			
Filter Efficiency	≥ 9 LRV (99.9999999% reduction in particles).			
(Log Reduction Value):	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 parti-			
	cle/ft³) per SEMI F43-0308 test method			

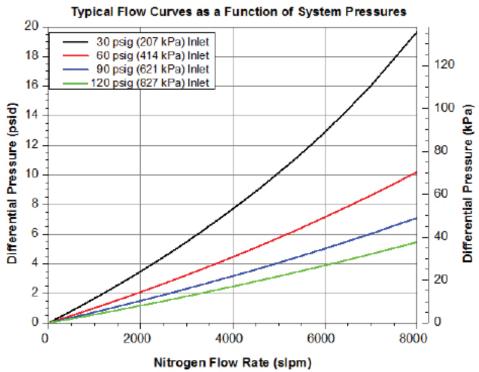
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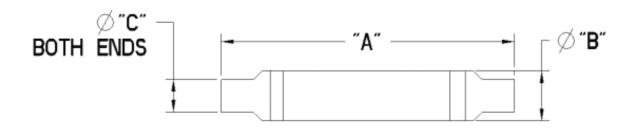
Mott Corporation ("Mott") warrants its GasShield filter will meet the specified retention and media integrity standards for a period of five years from the date of purchase, providing the filter is properly installed and used in accordance with the specified flow, pressure, temperature, and chemical 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.



FLOW DATA

Mott BGF-310 Flow Rate vs. Differential Pressure





ORDERING INFORMATION

Part Description	Part Number	Fitting Type	A Inches/mm	B Inches/mm	C Inches/mm
BGF-310-2TS-N-4M	6825121	2" Tube Stub	17.95/455.9	3.00/76.2	2.00/50.8
BGF-310-1.5TS-N-4M	6825120	1.5" Tube Stub	24.39/619.5	3.00/76.2	1.50/38.1
BGF-310-1TS-N-4M	6825116	1" Tube Stub	25.17/639.3	3.00/76.2	1.00/25.4

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