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



BGF 315H - 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

≥ 0.0015 μm			
≥ 9 LRV (99.9999999% reduction in particles).			
Confirmed at the most penetrating particle size of 0.08			
μm per SEMI F38-0699 test method			
1 x 10 ⁻⁹ atm cc/sec			
<10 ppb after 1 hour at low-flow ambient purge per			
SEMI F27 test method			
Below detectable limits per SEMASPEC 90120396B test			
method			
Zero particle contribution above background (<1 parti-			
cle/ft³) per SEMI F43-0308 test method			

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.

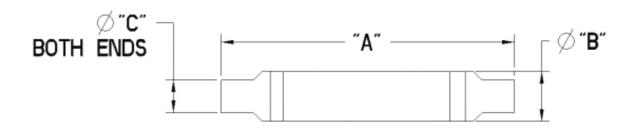


FLOW DATA

Mott BGF-315H Flow Rate vs. Differential Pressure

Typical Flow Curves as a Function of System Pressures 7 60 psig (414 kPa) Inlet 90 psig (621 kPa) Inlet 6 120 psig (827 kPa) Inlet 40 145 psig (1000 kPa) Inlet Differential Pressure (psid) Differential Pressure (kPa) 30 4 3 10 1

10,000



Nitrogen Flow Rate (slpm)

5,000

ORDERING INFORMATION

Part Description	Part Number	Fitting Type	A Inches/mm	B Inches/mm	C Inches/mm
BGF-315H-40A5S-N-15M	6825156	JIS40A5S	21.26/540.0	3.00/76.2	1.91/48.5

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



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