

GASSHIELD® BGF 615H HIGH FLOW BULK FILTER PENTA® NICKEL MEDIA



The BGF 615H is the **HIGHEST FLOW BULK GAS FILTER** in a **COMPACT DESIGN** for **MEGA-WAFER FABs**

DESCRIPTION

Mott High Purity Bulk Filters provide 9-log filtration of particles down to 0.0025 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.



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: 400 psig (27.6 barg)
- » Maximum Operating Temperature for Inert Gas: 840°F (450°C)
- » Maximum Differential Pressure: 125 psid (8.6 barg)

MATERIALS

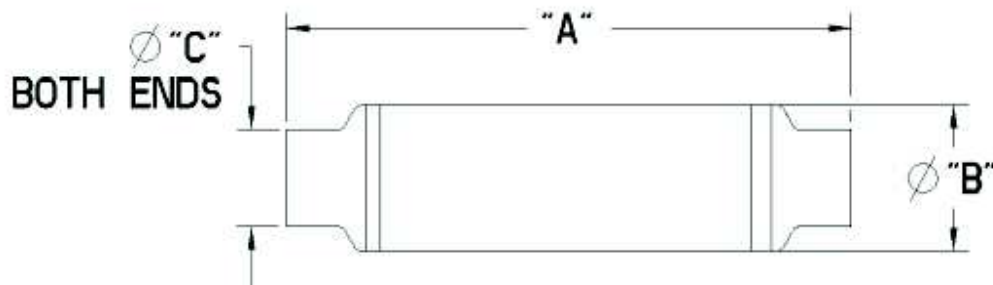
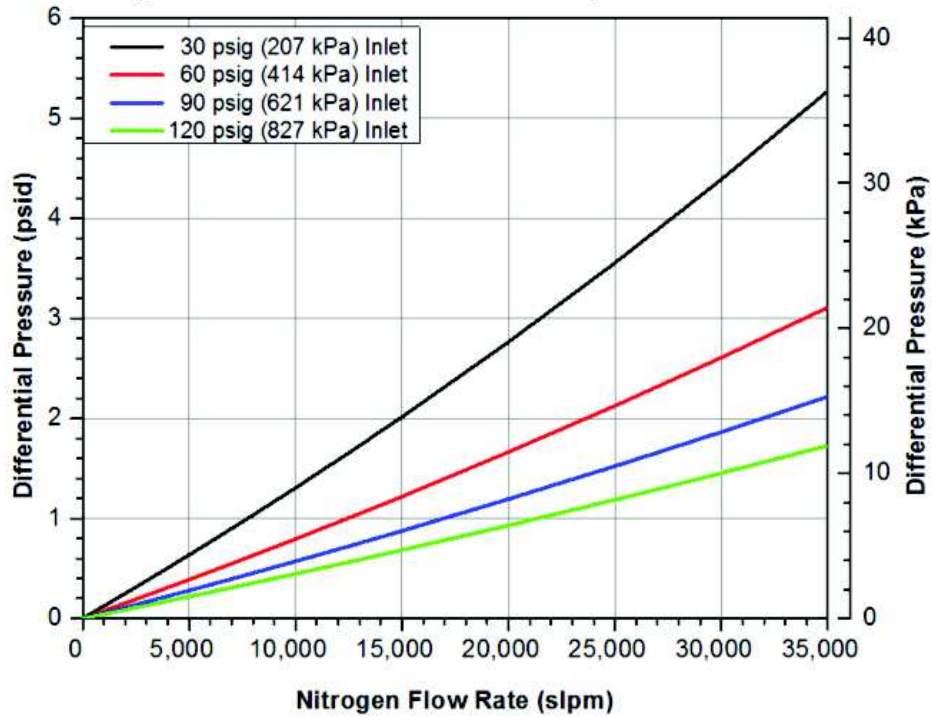
- » Hardware: 316L SS
- » Filter Medium: Penta® Nickel
- » Wetted Hardware Surface Finish: 10 Ra, Electro-polished

SPECIFICATIONS

Particle Removal Size:	≥ 0.0025 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 SEMIF43-0308 test method

FLOW DATA

Mott BGF-615H 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-615H-6TS-N-35M	6825146	6" Tube Stub	28.81/731.8	6.00/152.4	6.00/152.4
BGF-615H-4TS-N-35M	6825147	4" Tube Stub	23.41/594.6	6.00/152.4	4.00/101.6
BGF-615H-2TS-N-35M	6825148	2" Tube Stub	29.89/759.2	6.00/152.4	2.00/50.8

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