

Mott High Purity Bulk Gas Filters

GasShield® Point-of-Use Series

BGF 6X15

Penta® Nickel Media



Description

Mott High Purity Bulk Filters provide 9-log filtration of particles down to 0.003 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. Flow rates up to 2,100 Nm³/hr and line sizes up to 6 inches are available.

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.

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

Materials of Construction

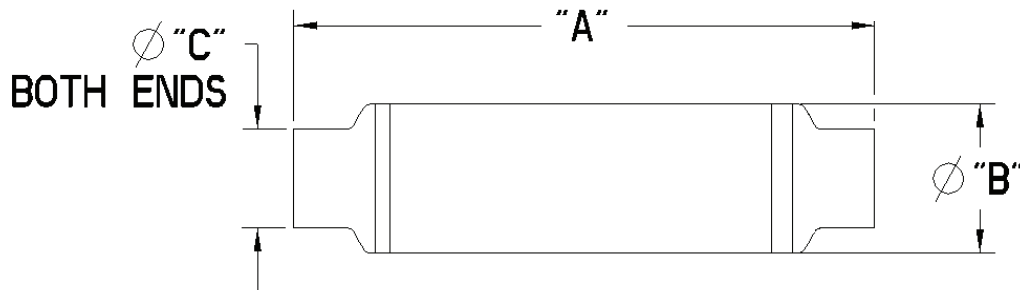
Hardware:	316L SS
Filter Medium:	Penta® Nickel
Wetted Hardware Surface Finish:	10 Ra, Electro-polished

Performance Specifications

Rated Flow:	28,000 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:	400 psig (27.5 barg)
Maximum Operating Temperature for Inert Gas:	450°C
Maximum Differential Pressure:	250 psid (17.2 bar)



Ordering Information:

Part Description	Part Number	Fitting Type	A Inches/ mm	B Inches/ mm	C Inches/ mm
BGF-615-6TS-N-28M	6825088	6" Tube Stub	28.81/731.8	6.00/152.4	6.00/152.4
BGF-615-4TS-N-28M	6825124	4" Tube Stub	23.41/594.6	6.00/152.4	4.00/101.6
BGF-615-2TS-N-28M	6825125	2" Tube Stub	29.89/759.2	6.00/152.4	2.00/50.8

Mott BGF-615 Flow Rate vs. Differential Pressure
Typical Flow Curves as a Function of System Pressures

