GASSHIELD® PENTA® POU GAS FILTERS 1.5 nm FILTRATION



GSP5754 - PENTA® NICKEL FILTER MEDIA

DESCRIPTION

Mott High Purity Gas Filters provide 9-log filtration of particles down to 0.0015 µm resulting in particle-free gas. For maximum gas filtration efficiency, strength and reliability, GasShield Penta® all-metal gas filters are ideal for Ultra High Purity (UHP) gas delivery applications. They are offered in all welded 316L stainless steel housings with Mott's patented Penta® nickel filter media alloys. They are compatible with most high purity semiconductor process gases. For more point-of-use filters, check out the Mott line of GasShield POU, Sentry, and Defender filter lines.



APPLICATIONS

UHP gas sticks for Semiconductor, LED, Photovoltaic and MEMS Equipment Hookup. UHP filtration in valve manifold boxes, gas cabinets, tool isolation gas boxes, on-board gas delivery boxes or any process requiring ultra high purity particle removal.

OPERATING CONDITIONS

- » Maximum Operating Pressure: 3750 psig (258.5 barg)
- » Maximum Operating Temperature for Inert Gas: 450°C
- » Maximum Differential Pressure: 750 psid (51.7 bar)

MATERIALS

- » Hardware: 316L SS
- » Filter Medium: Penta Nickel
- » Wetted Hardware Surface Finish: 5 Ra

SPECIFICATIONS

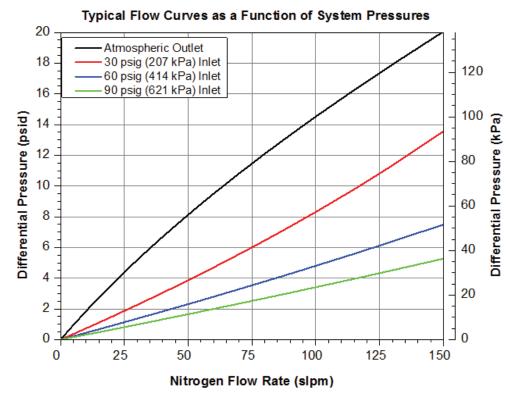
particles).		
particles).		
Confirmed at the most penetrating particle size of 0.08		
bient purge per		
EC 90120396B test		
kground		
test method		

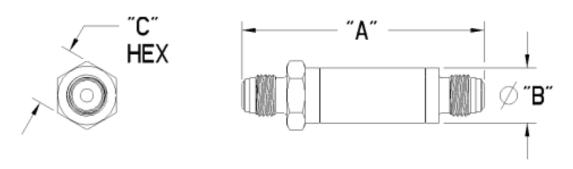
Warranty:

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.

FLOW DATA

Mott GSP5754 Flow Rate vs. Differential Pressure





ORDERING INFORMATION

Part Description	Part Number	Fitting Type	A Inches/mm	B Inches/mm	C Inches/mm
GSP5754FF11	6812005	1/4 inch Male/Male Face Seal	5.00/127.0	0.75/19.0	0.812/20.6
GSP5754TT11	6812014	1/4 inch Butt Weld Tube Stubs	5.00/127.0	0.75/19.0	N/A
GSP5754FF33	6812010	1/2 inch Male/Male Face Seal	5.00/127.0	0.75/19.0	0.875/22.2

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