# GASSHIELD® POINT-OF-USE SERIES 1.5 nm FILTRATION



## FLT515 - STAINLESS STEEL FIBER DESCRIPTION

Mott High Purity Filters provide 9-log filtration of particles down to 0.0015  $\mu$ m resulting in particle-free gas. The FLT low pressure drop filter is designed for filtration of low vapor pressure, high temperature gases generated in a direct liquid injection system, where the process utilizes a vaporization chamber. It is ideal for filtering vapor phase low pressure dopants or organometallic precursor vapors such as TEMAZ, TEOS, TiCI4, TDMAT, TEPO, TEB, POCI, Z4MS, Ztomcats, Trans-LC, TMB, and others.

#### **APPLICATIONS**

The GasShield<sup>®</sup> FLT is designed for filtration of low vapor pressure gases generated from a liquid source (i.e. bubble) and high temperature gases generated by a direct liquid injection system (i.e. vaporization chamber).

### **OPERATING CONDITIONS**

- » Maximum Operating Pressure: 2500 psig (172.5 barg)
- » Maximum Operating Temperature for Inert Gas: 460°C
- » Maximum Differential Pressure: 500 psid (34.5 bar)

#### **SPECIFICATIONS**

MATERIALS
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- » Hardware: 316L SS
- » Filter Medium: 316L SS
- » Wetted Hardware Surface Finish: 5 Ra, Electro-polished

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2500 PSIO @ 08 F

Particle Removal Size:	≥ 0.0015 μm			
Filter Efficiency	$\geq$ 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 <sup>-9</sup> 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 <sup>3</sup> ) per SEMI F43-0308 test method			

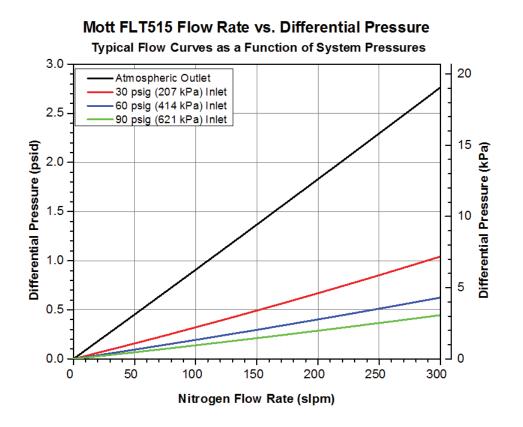
#### Warranty:

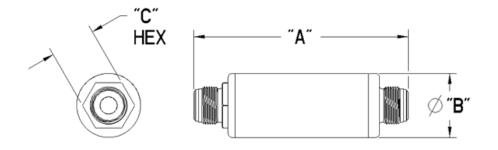
Mott Corporation ("Mott") warrants its GasShield filter will meet the specified retention and media integrity standards for a period of five years from the date of purchase, providing the filter is properly installed and used in accordance with the specified flow, pressure, temperature, and chemical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





#### **ORDERING INFORMATION**

Part Description	Part Number	Fitting Type	A Inches/mm	B Inches/mm	C Inches/mm
FLT515FF33	6750008	1/2 inch Male/Male Face Seal	5.00/127	1.5/38	1.062/27

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

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