

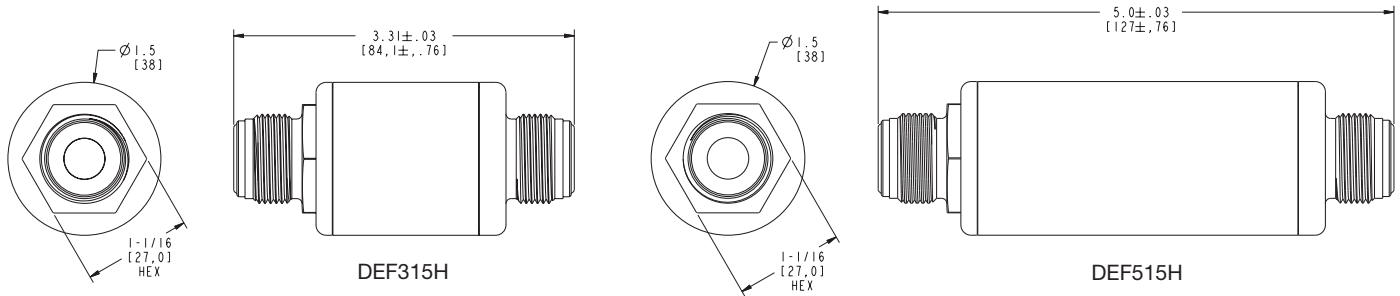
GasShield® Defender High Flow Ultra High Efficiency Series Filters



High Flow Gas Streams Meet 9 Log Filtration.

- 316L Stainless Steel Media
- True 9-Log Filtration Efficiency of Particles as Small as 0.003 μm ; Confirmed at the Most Penetrating Particle Size of 0.08 μm
- Operating Temperature up to 450°C (Inert Gases)
- Operating Pressure to 2500 PSIG (172.4 Bar) at 52°C
- 316L VAR Stainless Steel Housing Construction
- 5Ra Surface Finish on Gas Wetted Surfaces
- 1 x 10⁻⁹ atm cc/sec Helium Leak Rating
- Flow Rates up to 650 slpm
- < 1 Particle/Ft³ Particle Shedding
- Maximum Forward and Reverse Differential Pressure of 1000 PSID (68.9 Bar) @ 52°C
- Manufactured, Cleaned and Packaged in a Class 100 Clean Room
- Total Hydrocarbon Emissions Below Detectable Limits
- Moisture Contribution <10 ppb After One Hour at Low-flow Ambient Purge

Available Configurations

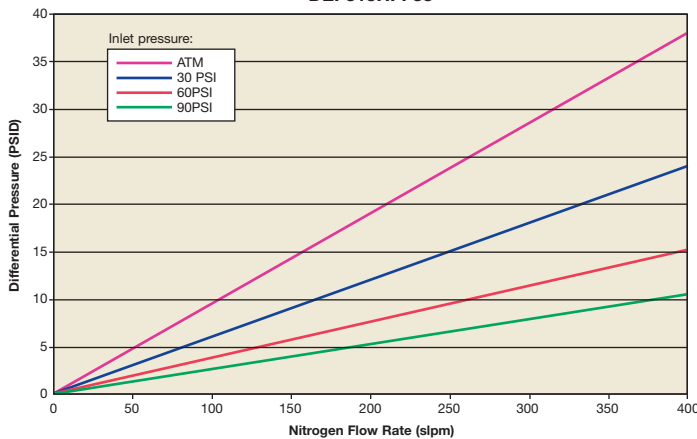


Dimensions

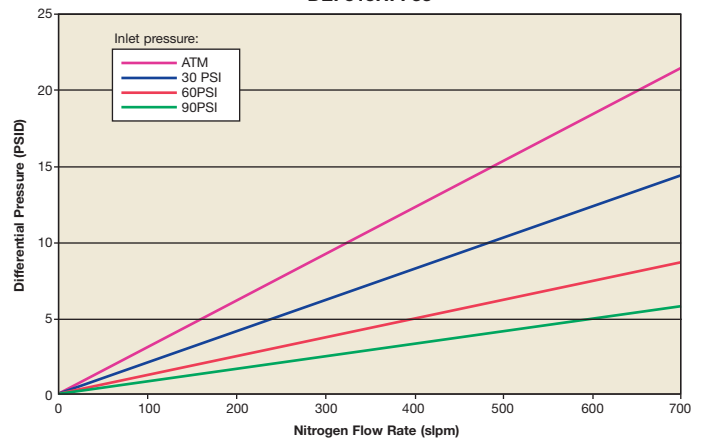
Part Description	Diameter	Overall Length (OAL)	Flow SLPM	Alloy	Connector
DEF315HFF33	1.5" (38mm)	3.31" (84mm)	300	316LSS	1/2" Face Seal
DEF315HTT22	1.5" (38mm)	3.31" (84mm)	300	316LSS	3/8" Tube Stub
DEF315HTT33	1.5" (38mm)	3.31" (84mm)	300	316LSS	1/2" Tube Stub
DEF315HCC22	1.5" (38mm)	3.31" (84mm)	300	316LSS	3/8" Compression
DEF315HCC33	1.5" (38mm)	3.31" (84mm)	300	316LSS	1/2" Compression
DEF515HFF33	1.5" (38mm)	5.00" (127mm)	650	316LSS	1/2" Face Seal
DEF515HTT22	1.5" (38mm)	5.00" (127mm)	650	316LSS	3/8" Tube Stub
DEF515HTT33	1.5" (38mm)	5.00" (127mm)	650	316LSS	1/2" Tube Stub
DEF515HCC22	1.5" (38mm)	5.00" (127mm)	650	316LSS	3/8" Compression
DEF515HCC33	1.5" (38mm)	5.00" (127mm)	650	316LSS	1/2" Compression

Defender High Flow Ultra High Efficiency Filters

Typical Flow Curve
DEF315HFF33



Typical Flow Curve
DEF515HFF33



Limited 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.

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