

GASSHIELD® POINT-OF-USE SERIES POU-10-H HASTELLOY® C-22 FILTER MEDIA



DESCRIPTION

For maximum gas filtration efficiency, strength and reliability, GasShield POU all-metal gas filters are ideal for Ultra High Purity (UHP) gas delivery applications. They are compatible with most high purity electronics grade process gases. For more point-of-use filters, check out the Mott line of Penta® nickel media or Defender fiber metal filters.



APPLICATIONS

UHP corrosive gas filtration for: gas sticks for equipment hookup, valve manifold boxes, gas cabinets, tool isolation gas boxes, on-board OEM tool gas boxes.

OPERATING CONDITIONS

- » Maximum Operating Pressure: 3750 psig (258.5 barg)
- » Maximum Operating Temperature for Inert Gas: 450°C
- » Maximum Differential Pressure: 1000 psid (68.9 bar)

MATERIALS

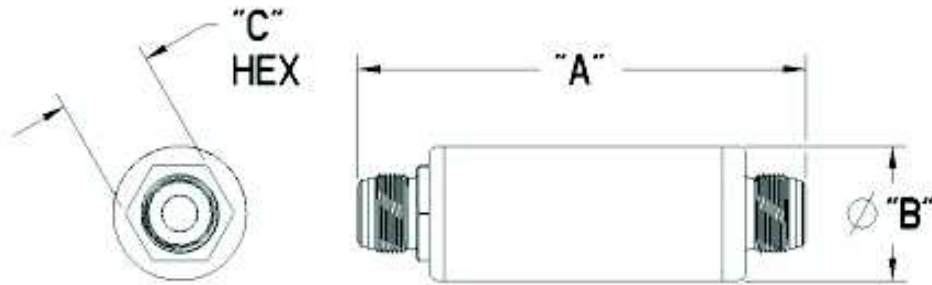
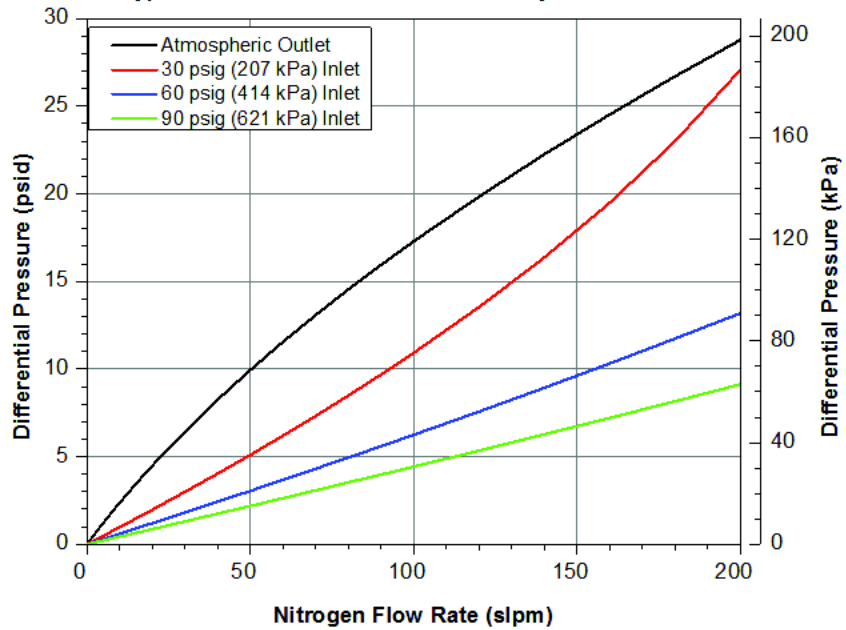
- » Hardware: Hastelloy C-22
- » Filter Medium: Hastelloy C-22
- » Wetted Hardware Surface Finish: 5 Ra, Electro-polished

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 POU-10-H 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
POU-10-HV1	6800004	1/4 inch Male/Male Face Seal	5.00/127.0	1.50/38.1	1.062/26.9
POU-10-HV3	6800178	1/2 inch Male/Male Face Seal	5.00/127.0	1.50/38.1	1.062/26.9

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