

GIST[®] Mega

Ultrapure gas filter



GIST Mega in-line ultra-pure gas filter is specially designed for high-flow electronic grade gas, and filtration accuracy can reach 3nm. The device is compact, excellent strength and compatible for most of semiconductor process gases. It is suitable for bulk gases and inert gases.

Product Features

- 316L electronic grade hardware
- High throughput and low pressure drop
- Excellent chemical compatibility
- Suitable for high temperature and high pressure environment
- 100% integrity tested
- 100% helium leak tested
- Manufactured in a dust-free environment

Technical Parameter

Membrane

PTFE

Cage

PP

O-ring

EPDM

Shell

Solution I: LS 316L

Solution II: SS 316L(VAR/VIM+VAR)

Surface Treatment

Outer surface: Ra<1.6μm

Inner surface: Ra<0.6μm

Filtration Rating

≥0.003μm

Filtration Efficiency

≥99.99999999%(9 LRV)@300 slpm
(MPPS, all particles)

Helium Leak Test

Qualified: 2×10^{-10} cc/min

Tested: 1×10^{-9} cc/min

Max. inlet pressure

12 bar (174 psig) @ 23°C (73°F)

Max. forward flow D.P.

4.1 bar (59 psid) @ 23°C (73°F)

Max. reverse flow D.P.

0.07 MPa (0.7 bar, 10 psid)
@ 23°C (73°F)

Max. Operation Temperature

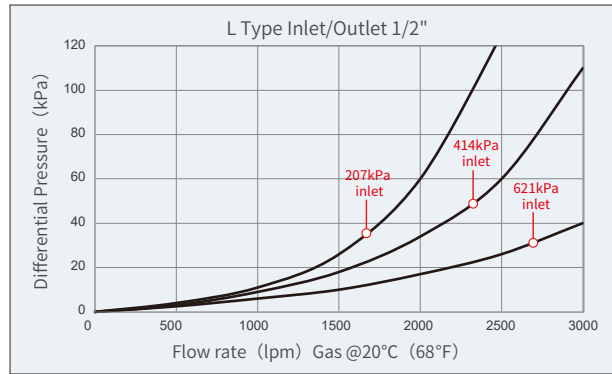
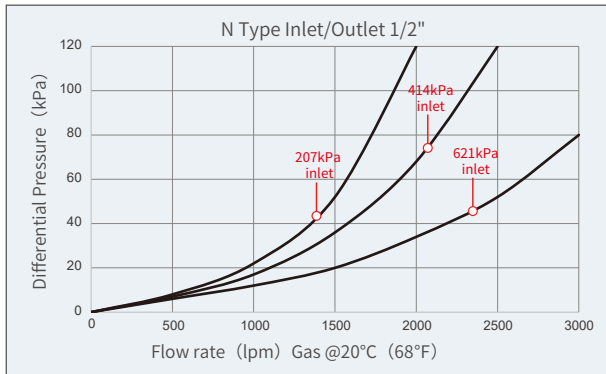
60°C (140°F)

Flow rate:

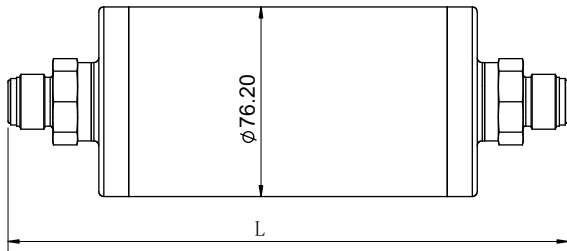
N model: 0~1500slpm

L model: 0~3000slpm

Flow rate pressure difference



Dimensions



Specification	Connector type	Length
NVM1/2G	1/2" VCR	225mm (8.86")
NVM3/4G	3/4" VCR	243mm (9.57")
NVM1G	1" VCR	250mm (9.84")
NSM1/2C	1/2" SWG	215mm (8.46")
NSM3/4C	3/4" SWG	233mm (9.17")
NSM1C	1" SWG	225mm (8.86")
LVM1/2G	1/2" VCR	351mm (13.82")
LVM3/4G	3/4" VCR	369mm (14.53")
LVM1G	1" VCR	376mm (14.80")
LSM1/2C	1/2" SWG	341mm (13.43")
LSM3/4C	3/4" SWG	359mm (14.13")
LSM1C	1" SWG	351mm (13.82")

Order Information

Series	Diameter	Filtration Rating	Type	Connector Type	Thread (Inner/Outer)	Connector Type	Sealing	Cleaning Grade
GIP: 316L	30: 3.0"	G: 0.003 μm H: 0.01 μm	N:Normal L:Long	V:Gasket Seal S:Ferrule Seal	M:Outer thread	1/2: 1/2" 3/4: 3/4" 1: 1"	G:Gasket C:Ferrule	B: Generic Level C: Semicon Level

Note: The product does not include accessories such as nuts and ferrules.
 If accessories are required, add "-N" at the end of the model number
 For more information, please contact Feature-Tec customer service.

