

GIST[®] Mini

Ultrapure gas filter



GIST mini ultra-pure gas filter is specially designed for 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

Typical Application

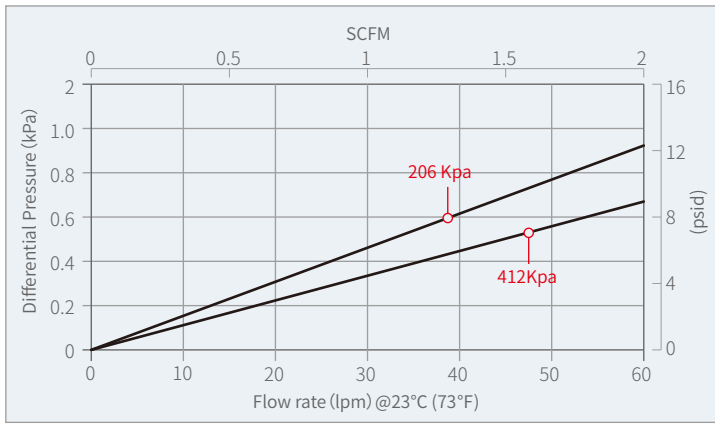
- PVD、CVD、
- Etching, Ion implantation and other process gas filtration

Technical Parameter

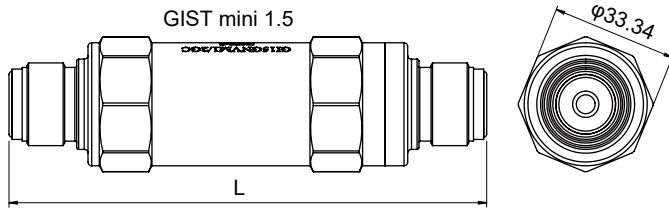
Membrane	PTFE	Max. inlet pressure	207 bar (3000 psig) @ 23°C(73°F)
Cage and End cap	PFA	Max. Forward D.P.	4 bar (60 psid) @ 23°C (73°F)
O-ring	FFKM	Max. Reverse D.P.	0.07 MPa (0.7 bar,10 psid) @ 23°C (73°F)
Shell	Solution I: Low sulfur SS316L Solution II: SS 316L(VAR/VIM+VAR)	Max. operating Temp.	120°C (248°F)
Surface Treatment	Outer surface: Ra<1.6μm Inner surface: Ra<0.2μm	Flow rate:	0~60slpm
Filtration Rating	≥0.003μm	Particle shedding	Particle release: <0.03 particles/liter (<1 particle/ft ³) @>0.01μm Volatiles: <10 ppb moisture
Filtration Efficiency	≥99.9999999%(9 LRV)@30 slpm		
Helium Leak Test	Qualified: 2 × 10 ⁻¹⁰ cc/min Tested: 1 × 10 ⁻⁹ cc/min		

■ GIST Mini

Flow rate pressure difference



Dimensions



Series	Specification	Connector type	Length
Gist Mini (1.0)	NVM1/4G	1/4" VCR	84.1mm(3.31")
	NVMF1/4G	1/4" VCR	88.9mm(3.50")
	NVFM1/4G	1/4" VCR	88.9mm(3.50")
	NSM1/4C	1/4" SWG	73.7mm(2.90")
	NSM3/8C	3/8" SWG	76.1mm(2.99")
	NW1/4W	1/4" Butt tube	89.9mm(3.54")
Gist Mini (1.5)	NVM1/4G	1/4"VCR	127mm(5.0")
	NVM3/8G	3/8"VCR	127mm(5.0")
	NVM1/2G	1/2"VCR	127mm(5.0")
	NSM1/4C	1/4"SWG	113mm (4.4")
	NSM3/8C	3/8"SWG	118mm(4.6")
	NSM1/2C	1/2"SWG	119mm(4.7")
	NW1/4W	1/4" Butt tube	133.4mm(5.25")
	NW3/8W	3/8" Butt tube	133.4mm(5.25")
	NW1/2W	1/2" Butt tube	133.4mm(5.25")

Order Information

Series	Diameter	Filtration Rating	Type	Connector Type	Thread (Inner/Outer)	Connector Type	Sealing	Cleaning Grade
GI: Low sulfur 316L	10: 1.0in	G: 0.003μm	N:Normal	V:Gasket Seal	M:Outer thread MF:Outer+Inner Thread FM:Inner+Outer Thread	1/4:1/4"	G:Gasket	B: Generic Level C: Semicon Level
				S:Ferrule Seal	M:Outer thread	3/8:3/8" 1/4:1/4"	C:Ferrule	
				W:Steel Pipe	W:Steel Pipe	1/4:1/4"	W:Steel pipe	
	15: 1.5in	G: 0.003μm	N:Normal	V:Gasket Seal	M:Outer thread	1/4:1/4"	G:Gasket	
				S:Ferrule Seal		3/8:3/8"	C:Ferrule	
				W:Steel Pipe		1/2:1/2"	W:Steel pipe	

