

FILTERS

FV100 Filter



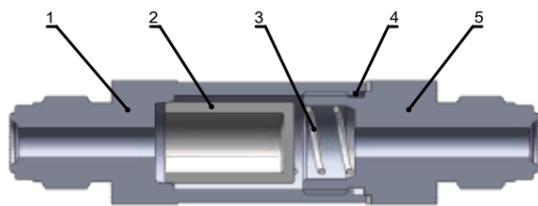
FEATURES

- Component nominal pore size: 0.1, 0.5, 5, 7, 15, 40, 60, 90 microns
- Working pressure up to 3000psi (20.6Mpa)
- Compact and lightweight for use in clean airways in confined spaces.
- Runner roughness: $\leq Ra0.1$
- Designed and manufactured in strict compliance with SEMI UHP standards

TECHNICAL PARAMETERS

ITEM	DESP.
Valve Material	SS 316L
Working Temperature	-10~80°C / 14~176 °F
Max.Working Pressure	3000 psi / 20.6 Mpa
Runner Surface Roughness	EP Ra $\leq 0.125 \mu m$ (5 $\mu in.$), BA Ra $\leq 0.4 \mu m$ (16 $\mu in.$)
Leakage Rate (Helium)	•External: $\leq 1 \times 10^{-9}$ atm.cc/Sec He
Cleaning	Continuous monitoring of deionized water and ultra-high purity cleaning using ultrasonic cleaning systems
Assembly Environment	In ISO Class 6 or Class 5/Federal Class 1000 or 100 cleanroom
Packaging Material	PE clean bag vacuum packaging

CONSTRUCTION



NO.	COMPONENTS	MATERIAL/SPECIFICATION
1	Valve	SS 316L
2	Sintered Filter Element	SS 316L
3	Spring	SS 316L
4	Silver-plated Gasket	SS 316L
5	Body Joint	SS 316L

DIMENSIONS (mm/inches for reference only)

Picture	Model	Port	Dimension mm/inch	
			A	B
	FV100-JCR04	1/4" Male VCR Fitting	81.8 3.22	19 0.74
	FV100-JCR08	1/2" Male VCR Fitting	84.6 3.33	25.4 1.00
	FV100-TF04	1/4" Tube Fitting	76 2.99	19 0.74
	FV100-TF08	1/2" Tube Fitting	86 3.38	25.4 1.00

ORDERING DESCRIPTION

FV100 -JCR 04-0.5-W-E-SV

SERIES	PORT TYPE	PORT SIZE		ELEMENT NOMINAL PORE SIZE(μm)	SEAL METHOD		POLISHING		BODY MATERIAL	
		04	1/4"				E	Electropolished	SS	SS 316L
FV100	JCR Male VCR Fitting	04	1/4"	0.5	Silver-plated	E	Electropolished	SS	SS 316L	
				2						
	TF Tube Fitting	08	1/2"	7	W Weld	mechanical polishing	SV	316L VIM-VAR or meets SEMI F20 UHP requir		
				15						
60										

FILTERS

SGF Series Gasket Filter

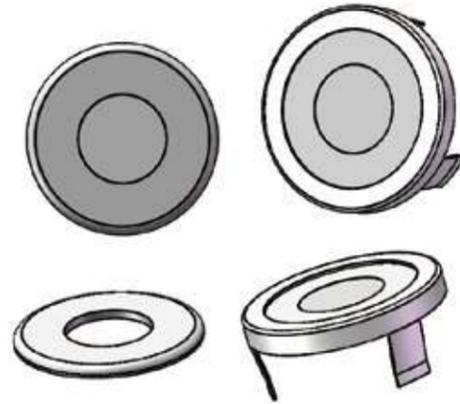


TECHNICAL PARAMETERS

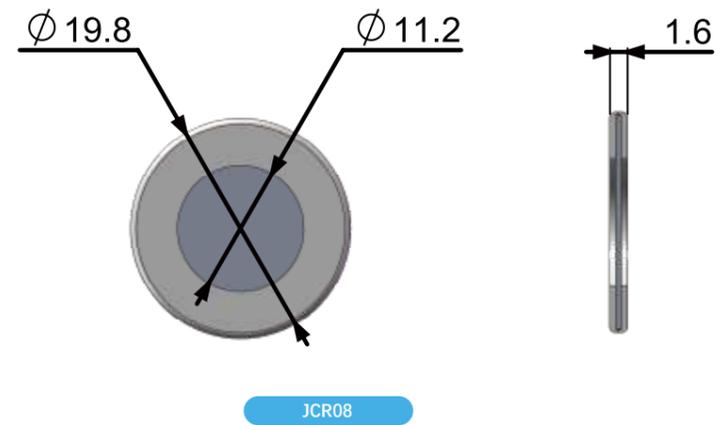
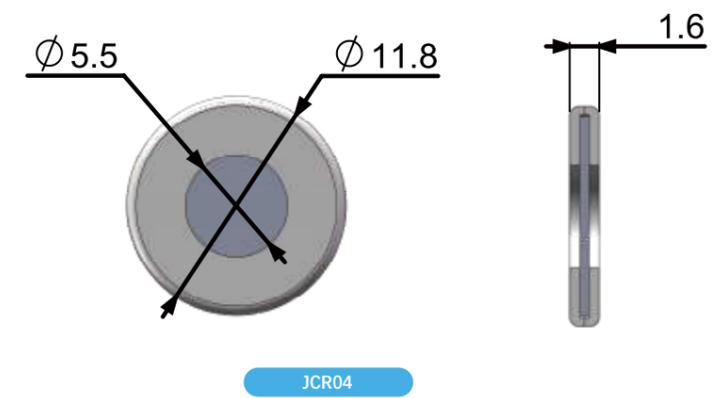
ITEM	DESP.
Material	Shim:SS 316L or Nickel Filter screen:SS 316L
Working Temperature	-28°C-400°C/ -82-752 °F
Maximum Working Pressure	142 psi / 0.98 Mpa
Filtration Accuracy	0.3μm, 1μm
Leakage Rate (helium)	≤5x10 ⁻¹⁰ mbar.L/S
Fow	≤100SLM
Assembly Environment	In ISO Class 6 or Class 5/Federal Class 1000 or 100 cleanroom
Packaging Material	Double bagged and vacuum sealed in cleanroom

FEATURES

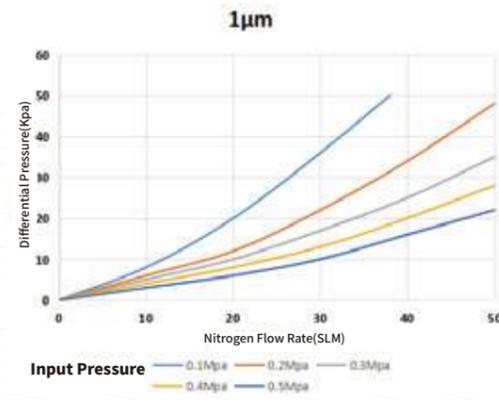
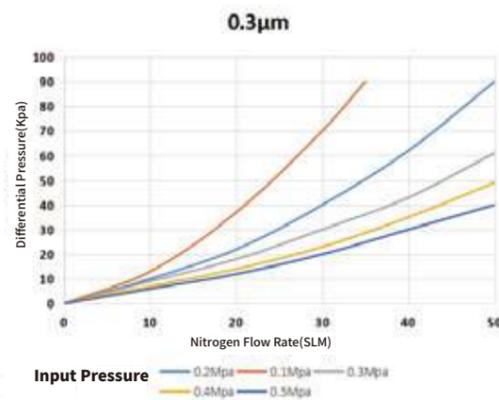
- The gasket filter is a compact all metal filter that can be installed at the 1/4, 3/8, and 1/2 VCR fittings in the gas circuit system, and can be used as a VCR sealing surface gasket.
- The gasket filter is a relatively economical, simple and effective product that protects key components from particulate damage.



INSTALLATION DIMENSION DIAGRAM



DIFFERENTIAL PRESSURE FLOW METER



ORDERING DESCRIPTION

SGF -JCR 04-SL-03-R

SERIES	CONNECTING INTERFACE	CALIBER	GASKET MATERIAL	FILTRATION ACCURACY(μm)	FIXED SUPPORT
SGF	JCR Male VCR Fitting	04 1/4"	SL SS 316L	03 0.3μm	Without Fixed Bracket
		08 1/2"	NI Nickel	1 1μm	R Fixe Bracket