VGB and **VGM** Series

Introduction

VGB and VGM series vacuum generators are designed to create a vacuum and establish suction for purging piping systems, which are widely used in the semiconductor industry. The inlet and vent ports of the VGB series offer multiple options, while the VGM series specifies the sizes and types of inlet and vent ports.



Features

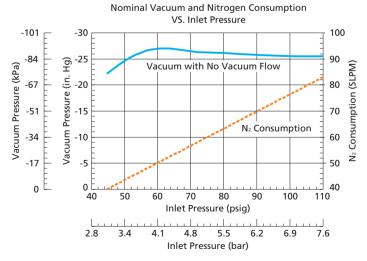
- O All welded construction improves sealing performance and service life
- © Wetted surface roughness machine finished to Ra 15 μin. (0.38 μm)
- O Ultrasonic and DI water cleaned for semiconductor ultra-high purity
- © Final packaging in ISO calss 4 (FS 209E class 10 equivalent)

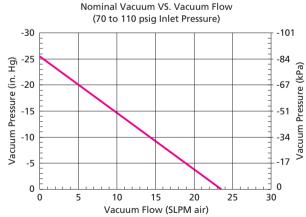
Technical Data

N ₂ Inlet Pressure		70 ~ 110 psig (4.8 ~ 7.6 bar)	
Vacuum Maximum		-26 in. Hg (-88 kPa)	
Working Temperature		-40 ~ 160 °F (-40 ~ 71 °C)	
Vacuum Port Maximum Pressure		3500 psig (241 bar)	
Proof Pressure (Vacuum)		5250 psig (345 bar)	
Burst Pressure (Vacuum)		10500 psig (690 bar)	
Leak Rate (Helium)	Inboard	≤2x10 ⁻¹⁰ std cm³/s	
	Outboard		

Exhaust and Flow Specification

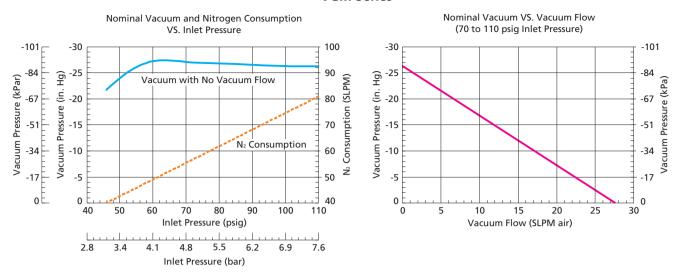
VGB Series





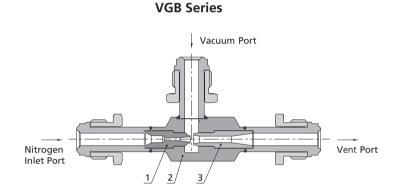


VGM Series



Note: Achieved vacuum level with the characteristics described above produces abnormal noise (soft clicking sound) at supply pressure (around 4 bar) just before reaching the peak value. When this abnormal noise occurs, the characteristics become unstable and operation becomes louder. Increase the supply pressure within the specification range, as it may affect the sensor, etc., and cause trouble.

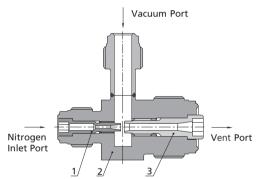
Construction



Item	Componet	Material/Specification
1	Nozzle	
2	Body	316L SS/SEMI F20
3	Diffuser	

Note: Components in contact with the media are listed in italics.

VGM Series



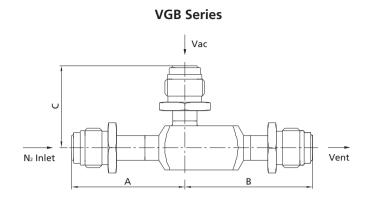
	Item	Componet	Material/Specification
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Dimensions and Ordering Information

Dimensions in in. (mm) are for reference only and subject to change.



Vac
N ₂ Inlet Vent 0.93"(23.6) 0.07"(1.8)
= (51)

VGM Series

Connection	A in. (mm)	B in. (mm)	C in. (mm)
RFR4/FFR4	1.62 (41)	1.83 (46)	1.18 (30)
TB4	1.25 (32)	1.46 (37)	0.81 (21)
TB6	1.25 (32)	1.46 (37)	0.81 (21)
RFR8/FFR8	2.13 (54)	2.34 (59)	1.69 (43)

Connection	D in. (mm)	
FR4/FFR4/RFR4	1.31 (33)	
TB4	0.97 (25)	
TB6	0.97 (25)	
FR8/FFR8/RFR8	1.85 (47)	

Notes:

- 1. Optional connections and face to face dimensions available.
- All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Note:

VGM series is only available with FR4 inlet port and FR8 vent port.

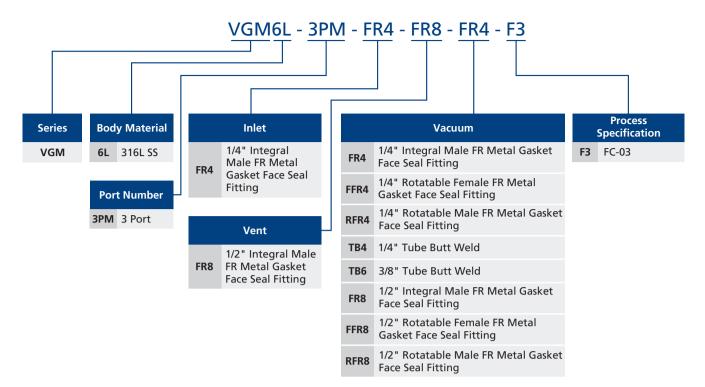
Ordering Number Description



Notes:

- 1. Inlet, vent, and vacuum ports are separate selections and should be listed independently, even if they are the same port type and size.
- 2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.





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