

# Vacuum Generators

## VG Series

### Features

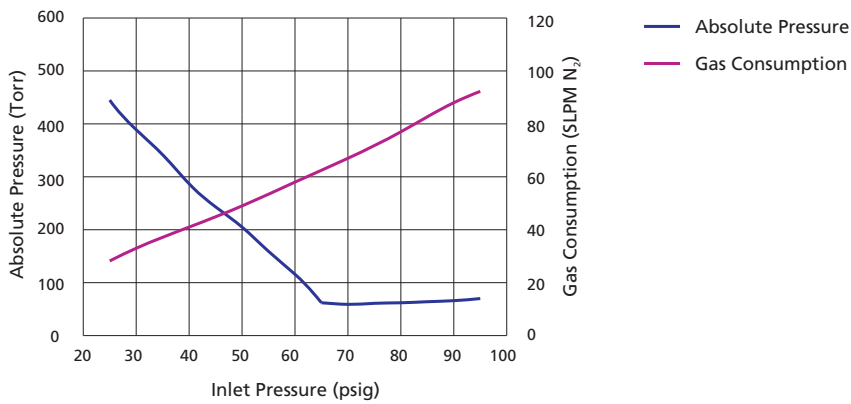
- ⦿ Designed for use in gas delivery system to improve purging efficiency
- ⦿ All-welded design
- ⦿ Vacuum pressure 60 Torr (-93.3 kPa) Max.
- ⦿ Inner surface roughness of Ra 20  $\mu\text{in.}$  (0.51  $\mu\text{m}$ )
- ⦿ 100% tested for Helium leakage
- ⦿ Variety of end connections



### Technical Data

Ultimate Vacuum Pressure	60 Torr (-93.3 kPa)
Gas Pressure at Ultimate	70 psig (4.8 bar)
Gas Flow at Ultimate	67 l/min
Max. Working Pressure	145 psig (10 bar)
Working Temperature	32~302°F (0~150°C)

### Vacuum and Flow Specification

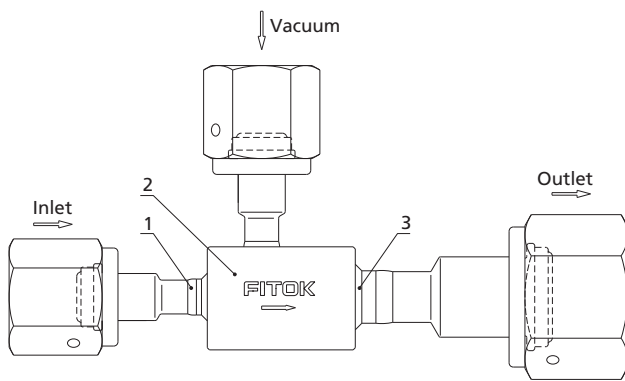


## Product Technology Grade

Process Specification Technology	Standard Cleaning and Packaging	Special Cleaning and Packaging (F2)	Ultra High Purity (F3)
Material/Specification	316L SS/ASTM A479		
Wetted Surface Roughness	Ra 20 µin. (0.51 µm)		
Polishing	Mechanical Polishing		

Note: For details about process specifications, see Cleaning and Packaging Process Specifications on page P-01.

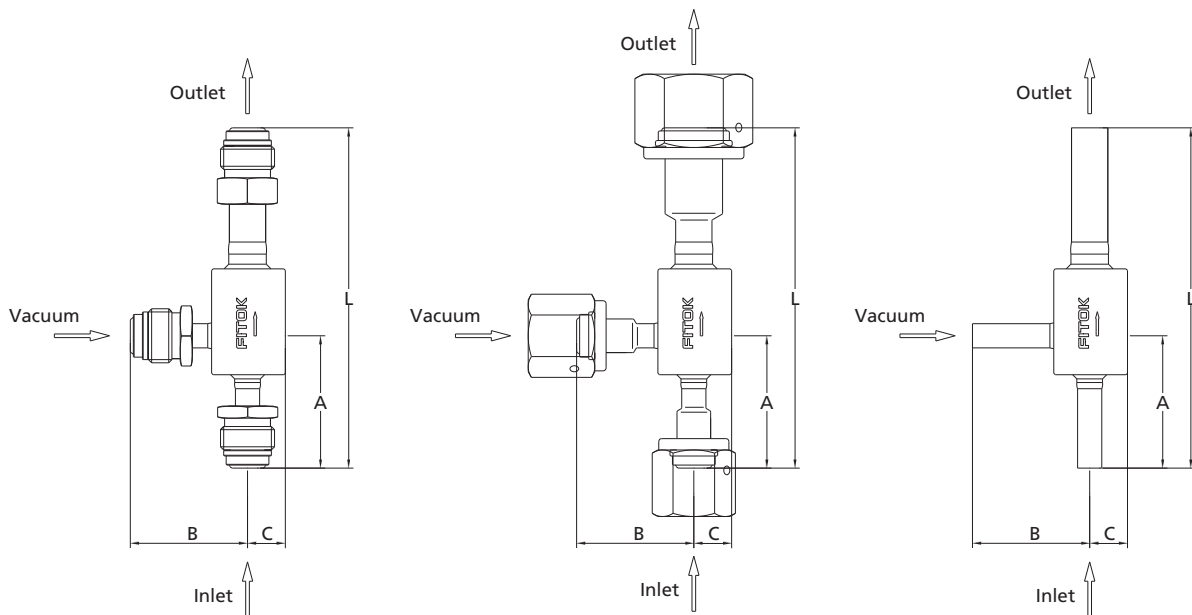
## Major Materials of Construction



Item	Component	Material/Specification
1	Nozzle	316L SS/ASTM A479
2	Body	
3	Diffuser	

## Ordering Information and Dimensions

Dimensions, in inches (millimeters), are for reference only.



Basic Ordering Number	Connection Type and Size	Dimensions, in. (mm)			
		L	A	B	C
VG□□-FFR4-	Inlet, outlet and vacuum: 1/4" Female FR	3.54 (90.0)	1.38 (35.0)	1.22 (31.0)	0.39 (10.0)
VG□□-RFR4-	Inlet, outlet and vacuum: 1/4" Rotatable Male FR				
VG□□-FFR4-FFR6-FFR4-	Inlet and vacuum: 1/4" Female FR Outlet: 3/8" Female FR				
VG□□-RFR4-RFR6-RFR4-	Inlet and vacuum: 1/4" Rotatable Male FR Outlet: 3/8" Rotatable Male FR				
VG□□-TB4-TB6-TB4-	Inlet and vacuum: 1/4" Fractional Tube Butt Weld Outlet: 3/8" Fractional Tube Butt Weld				

### Ordering Number Description

#### VG6L - FFR4 - FFR6 - FFR4 - F2

Series	Body Material	Inlet Type and Size	Outlet Type and Size	Vacuum Port Type and Size	Product Grade
VG	6L 316L SS	<b>FFR4</b> 1/4" Female FR Fitting <b>RFR4</b> 1/4" Rotatable Male FR Fitting <b>TB4</b> 1/4" Fractional Tube Butt Weld	<b>FFR4</b> 1/4" Female FR Fitting <b>RFR4</b> 1/4" Rotatable Male FR Fitting <b>TB4</b> 1/4" Fractional Tube Butt Weld <b>FFR6</b> 3/8" Female FR Fitting <b>RFR6</b> 3/8" Rotatable Male FR Fitting <b>TB6</b> 3/8" Fractional Tube Butt Weld	Same as Inlet	Standard Cleaning and Packaging <b>F2</b> Special Cleaning and Packaging <b>F3</b> Ultra High Purity