

## U210 SERIES ULTRA HIGH PURITY ABSOLUTE REGULATOR

U210 series single stage ultra high purity absolute regulator is developed for the semiconductor industry, it is manufactured in accordance with SEMI requirement and assembled, tested and packaged in a class 100 clean room.

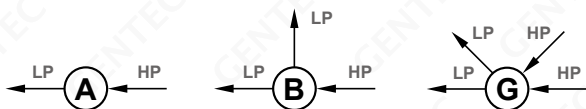


▶ U210SLBK-GQP-VSM4-S1



▶ U210SLAK-GQW-VSF4-S1

### Regulator Port Configurations



### Features

- 316L or 316L VAR stainless steel body
- Metal to metal diaphragm to body seal
- Easy front panel and rear bracket mounting
- Gauge ports are standard with 1/4" face seal male
- Fully internal electropolished
- Cleaned, assembled, and packaged for high-purity semi-conductor applications
- High-cycle life
- 100% Helium-leak tested

### Materials

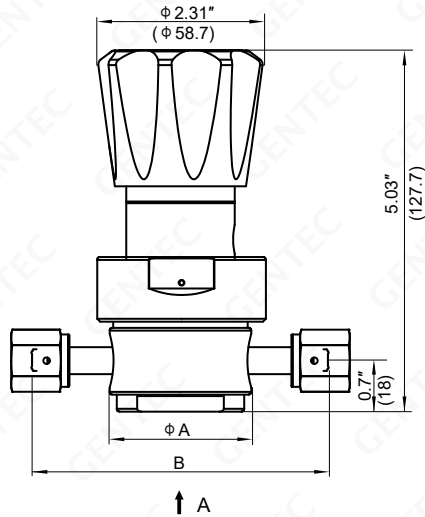
- Body: 316L, 316L VAR
- Seat: PCTFE
- Diaphragm: C-22

### Specifications

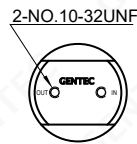
- Max. Inlet Pressure: 250 psi
- Max. Outlet Pressure: 30"Hg Vac~15 psi, 30"Hg Vac~30 psi  
30"Hg Vac~60 psi, 30"Hg Vac~100 psi
- Supply Pressure Effect: SPE = 0.2 psi / 100 psi
- Temperature: -40°F ~ 165°F(-40°C ~ 74°C)
- Flow Capacity: Cv=0.05
- Inboard leakage: 1x10<sup>-9</sup> atm/sec He
- Across seat leakage: 4x10<sup>-8</sup> atm/sec He
- Proof pressure: 150% of maximum rated pressure
- Burst pressure: 400% of maximum rated pressure
- Wetted Surface: Ra 10 µin
- Internal Volume: 8.4 cc

Material Configuration	Noncorrosive		Corrosive
	U210*SL	U210*SLV	U210*SLV***-H
Body	316L	316L VAR	316L VAR
Diaphragm	C-22	C-22	C-22
Stem	316L	316L	C-22
Nozzle	316L	316L	C-22
Seat	PCTFE	PCTFE	PCTFE
Wetted Surface	10µin	10µin	10µin

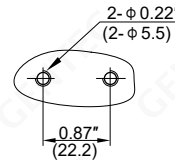
Dimensions



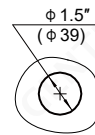
Connection Type		Dimension in.(mm)	
		A	B
VSF4	1/4" swivel female FSR	1.97" (50)	3.7" (94)
VSM4	1/4" swivel male FSR		3.7" (94)
VSF8	1/2" swivel female FSR		4.7" (119.4)
VSM8	1/2" swivel male FSR		4.7" (119.4)
TW4	1/4" weld stub		2.96" (75.2)
TW6	3/8" weld stub		2.96" (75.2)



A



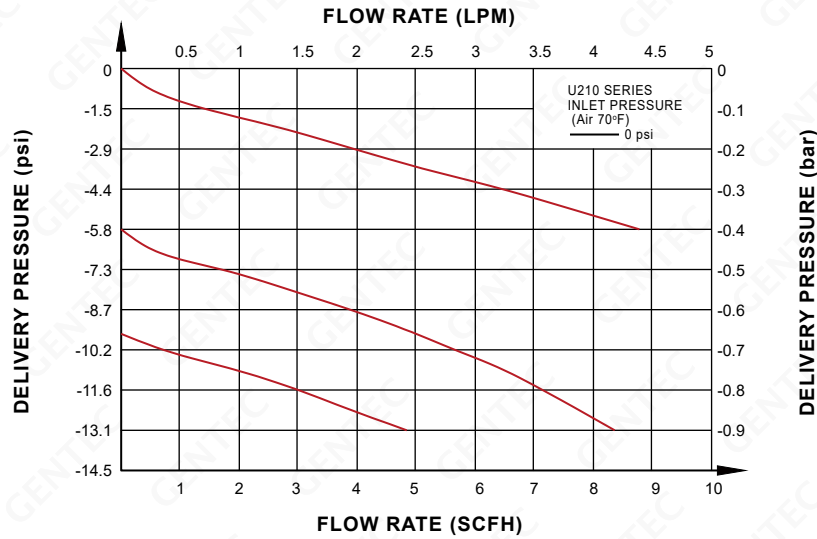
Rear Bracket Mounting



Front Panel Mounting  
Maximum thickness is 0.28"(7.1mm)

Dimension: in.(mm)

Flow Data



Ordering Information

EX:	U210	SL	B	K	- G	Q	P	- VSF4	- H	- P	- S1
	Series	Body	Ports	Seat	Inlet Pressure	Outlet Pressure	Pressure Gauge*	Inlet / Outlet Connection	Corrosion Resistance	Options	Process Standard
	U210	SL: 316L SLV: 316L VAR	A B G	K: PCTFE	G: 250 psi	P: 30"Hg Vac~15 psi Q: 30"Hg Vac~30 psi R: 30"Hg Vac~60 psi S: 30"Hg Vac~100 psi	W: Without Gauge P: psi / bar Gauge K: psi / kPa Gauge	VSF4, VSM4 VSF8, VSM8 TW4, TW6 ..... When Inlet and Outlet Connections are the same, please write a connection code.	None: Standard H: C-22 stem and nozzle See Material Configuration table.	None: Rear Bracket Mounting P: Panel Mounting	S1: UHP Process Standard S2: Photovoltaic Process Standard

\*: Gauges' connection: 1/4"swivel male FSR , other connection type please contact GENTEC.