



SERIES SL 5200

MINI SPRINGLESS REGULATOR

Small size packed with performance

- Single stage
- Stainless steel 316L VAR secondary remelt construction
- 1 sccm to 30 slpm flow capacity standard, 200 sccm to 130 slpm with HF option
- Vacuum to 150 psig (10 bar) inlet
- Point of use regulation at its finest
- Surface mount (IGS) 1.5 inch C and W seal
- Ultraclean technology backed by service and support
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

Operating Parameters

Source pressure	vacuum to 150 psig (10 bar)
Delivery pressure	SL 5201A 100 mm Hg absolute to 10 psig (0.7 bar)
	SL 5202 0.5 to 30 psig (0.034 to 2 bar)
	SL 5210 1 to 100 psig (0.07 to 7 bar)
Proof pressure	150% of operating pressures
Burst pressure	300% of operating pressures

Other Parameters

Inlet/outlet connectors	1/4 or 3/8 inch face seal, tube weld or IGS
Flow coefficient (Cv)**	0.07 (HF option 0.15)
Internal volume	0.19 in ³ (3.1 cm ³)
Operating temperature	-40° to +160°F (-40° to +71°C)*
Surface finish	15 µin Ra max / 10 µin. Ra avg. (0.4/0.25 µm) standard; 10 µin (0.25 µm); 7 µin (0.18 µm); and 5 µin (0.13 µm) Ra max optional
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs He at 100 psig inlet pressure
Leakage across seat	4 x 10 ⁻⁸ sccs He at 100 psig inlet pressure
Supply pressure effect	0.20 psig per 20 psig source pressure change
HF	0.50 psig per 20 psig source pressure change

*VS option 14° to 194°F (-10° to + 90°C).

**A pressure regulator Cv is a nominal value which indicates the point of choked flow. Please refer to a flow curve or a recommendation guide for usable flow range.

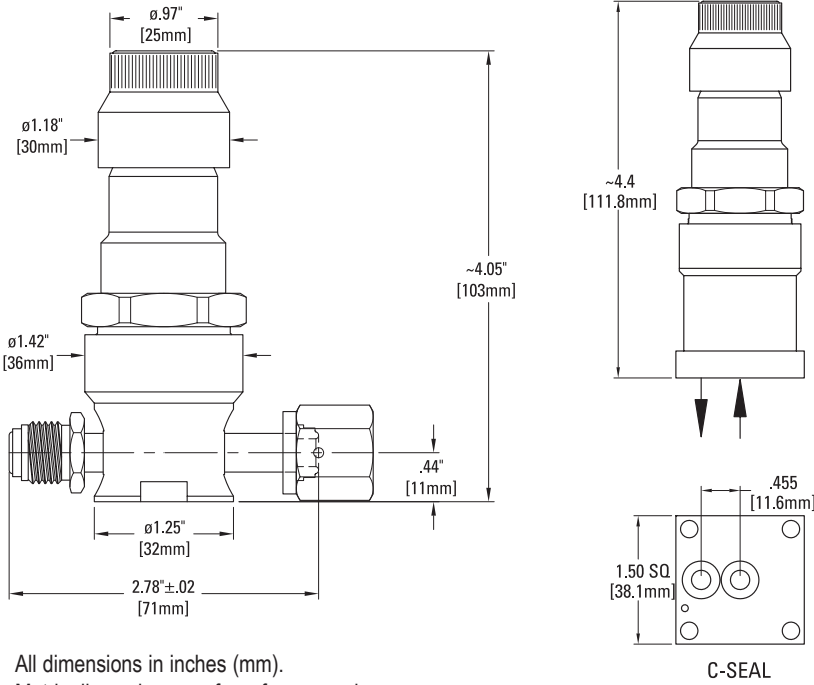
Materials

	Series SL 5200 S Noncorrosive	Series SL 5200 SH Corrosive
Type of Service		
Wetted Parts		
Body	SS 316L secondary remelt	SS 316L secondary remelt
Poppet	SS 316L	Ni-Cr-Mo alloy / UNC N06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Polyimide optional)	PCTFE

All specifications subject to change without notice.

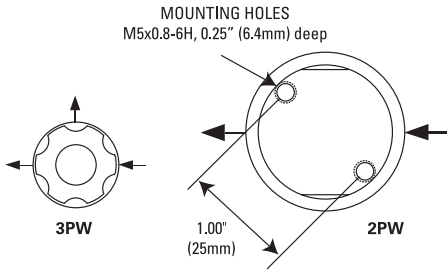
SERVICE AND SUPPORT BEYOND COMPARE

DIMENSIONAL INFORMATION



NOTE: C-seal shown, consult factory for W-seal.

PORTING CONFIGURATIONS



- Please consult the factory or your local distributor for surface mount or custom configurations.
- Specifications subject to change without notice.

CAUTION: Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.

ORDERING INFORMATION

Sample Order Number

SL 5201SMA 2PW FV4 FV4

SL 5201 Series	SL 5201 = .5-10 psig (0.034 to 0.7 bar) SL 5202 = .5-30 psig (0.034 to 2 bar) SL 5210 = 1-100 psig (0.07 to 7 bar)
S Material	S = Stainless Steel (SS) SH = SS / Ni-Cr-Mo alloy
M Surface Finish Options	M = 10 μ in. Ra max X = 5 μ in. Ra max V = 7 μ in. Ra max
A Range Option	A = 100 mm Hg absolute to 10 psig (0.7 bar) (SL 5201 only)
2PW Ports	2P = 2 ports IGS 2PW = 2 ports 3PW = 3 ports

FV4 FV4 | Connections Inlet / Outlet

FV4 = 1/4 inch face seal female
MV4 = 1/4 inch face seal male
TW4 = 1/4 inch tube stub weld

(3/8" connections optional)
Connections not noted for IGS.

Gauges*, Delivery

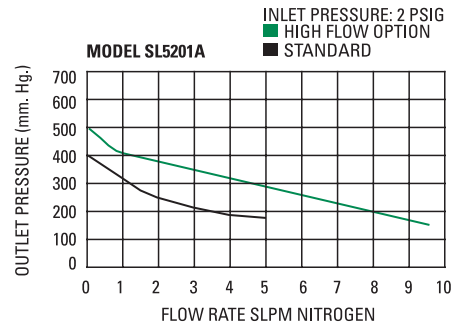
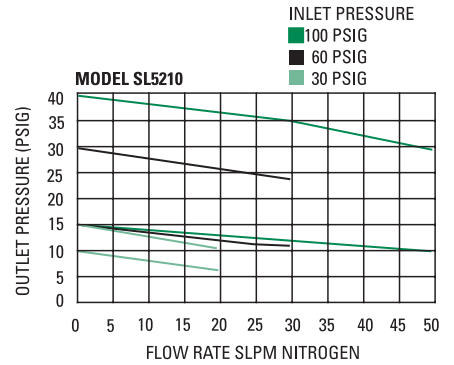
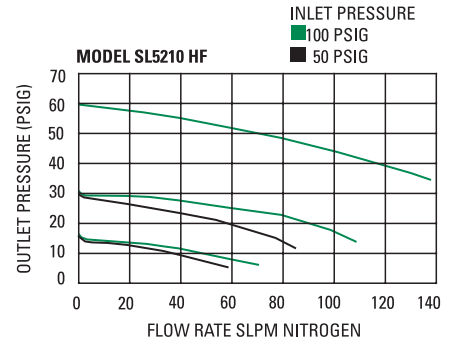
0 = No gauge
FV4 = 1/4 inch face seal female port (no gauge)
V3 = 30-0-30 psig/bar
1 = 30-0-100 psig/bar

*Standard gauge ports are 1/4 inch face seal male.

Options

P = Panel installation**
HF = High flow
VS = Polyimide seat
FD = IGS C-seal

**Panel hole 1.25" diameter.



AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.