

# 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) and custom configurations available
- Ultraclean technology backed by service and support
- Installation and operating instructions available at [www.aptech-online.com](http://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	500 psig (34 bar)
Burst pressure	1,000 psig (69 bar)

### Other Parameters

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

### 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	Hastelloy® alloy C-22®
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Vespel® optional)	PCTFE

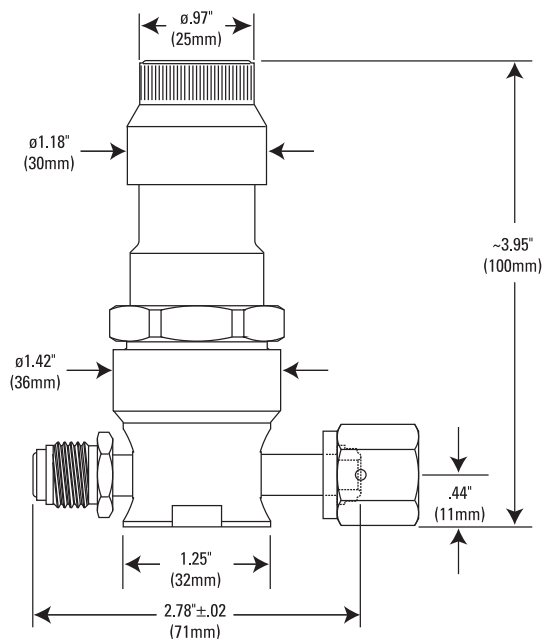
All specifications subject to change without notice.

Hastelloy® C-22® Haynes Corporation Vespel® DuPont

ENGINEERING DATA — SERIES SL 5200 MINI SPRINGLESS REGULATOR

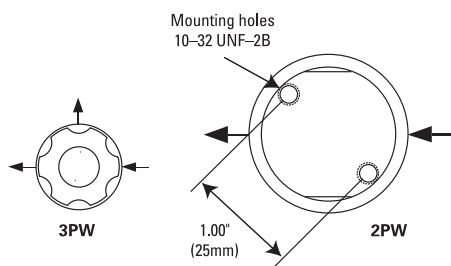
# SERVICE AND SUPPORT BEYOND COMPARE

## DIMENSIONAL INFORMATION

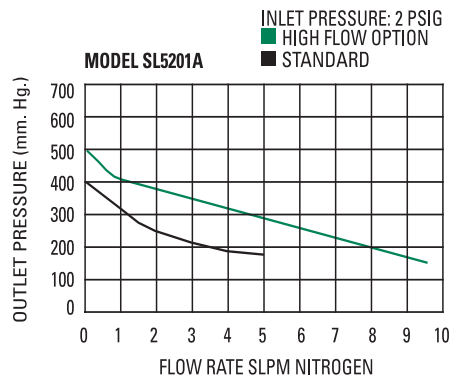
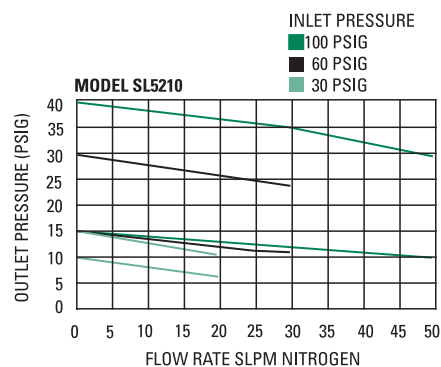
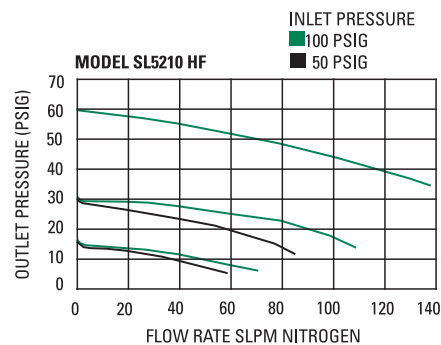


All dimensions in inches (mm). Metric dimensions are for reference only.

## 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		
<b>SL 5201   Series</b>	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)	<b>FV4 FV4   Connections Inlet / Outlet</b>	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)
<b>S   Material</b>	S = Stainless Steel (SS) SH = SS / Hastelloy C-22	<b>Gauges*, Delivery</b>	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.
<b>M   Surface Finish Options</b>	M = 10 $\mu$ in. Ra (standard) max X = 5 $\mu$ in. Ra max V = 7 $\mu$ in. Ra max	<b>Options</b>	HF = High flow VS = Vespel seat
<b>A   Range Option</b>	A = 100 mm Hg absolute to 10 psig (0.7 bar) (SL 5201 only)		
<b>2PW   Ports</b>	2PW = 2 ports 3PW = 3 ports		