



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
- Designed and manufactured exclusively for UHP Semiconductor applications
- Surface mount (IGS) and custom configurations available
- Ultraclean technology backed by service and support

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 ³ (3.1 cm ³)
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 ⁻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
Delivery pressure rise	0.20 psig per 20 psig source pressure drop HF 0.50 psig per 20 psig source pressure drop

Materials

Type of Service Wetted Parts	Series SL 5200 Noncorrosive	Series SL 5200 SH Corrosive
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

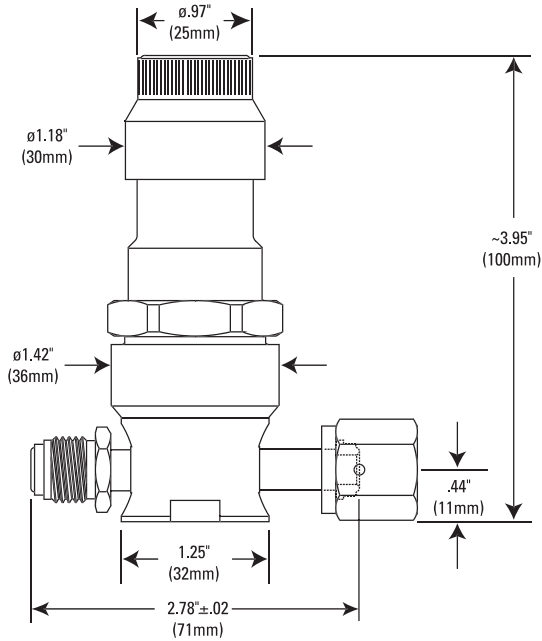
All specifications subject to change without notice.

Hastelloy® C-22® Haynes Corporation Vespel® DuPont

ENGINEERING DATA — SERIES SL 5200 MINI SPRINGLESS REGULATOR

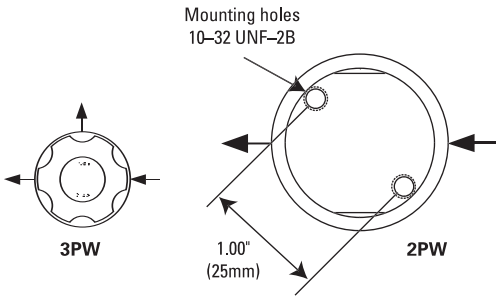
SERVICE AND SUPPORT BEYOND COMPARE

DIMENSIONAL INFORMATION

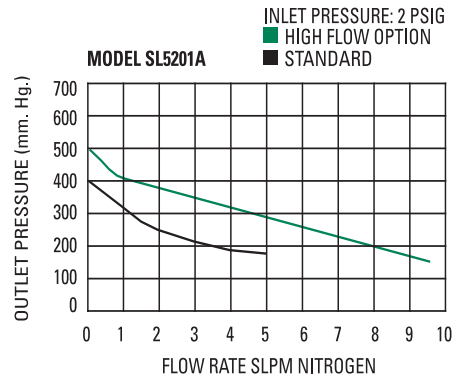
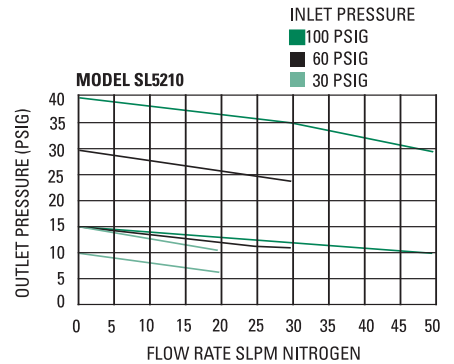
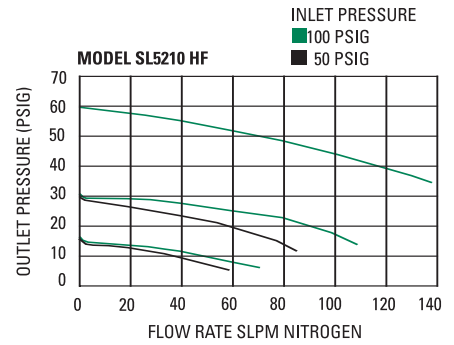


All dimensions in inches (mm). Metric dimensions are for reference only.

PORTING CONFIGURATIONS



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



ORDERING INFORMATION

Sample Order Number **SL 5201SMA 2PW FV4 FV4 HF**

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 / Hastelloy C-22
M Surface Finish Options	M = 10 μ m. Ra (standard) max X = 5 μ m. Ra max
A Range Option	A = 100 mm Hg absolute to 10 psig (0.7 bar) (SL 5201 only)
2PW Ports	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)

HF | Options

HF = High Flow
VS = Vespel seat