



# SERIES SL 5500

## SPRINGLESS REGULATOR

Low Flow — High Pressure

- Single stage
- Hot DI cleaned and baked
- 10 µin. surface finish (7 and 5 µin. opt)
- Absolute to 100 psig delivery
- Vacuum to 3,500 psig (241 bar) inlet
- Low internal volume and surface area
- Flow rates to 30 slpm
- Cylinder and point of use applications
- Knob LOTO (refer to AP KL data sheet)
- 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 3,500 psig (241 bar)
Delivery pressure	SL 5502: 1 to 30 psig (0.07 to 2 bar)
	SL 5502A: 100 mm Hg absolute to 30 psig (100 torr to 2 bar)
	SL 5506: 1 to 60 psig (0.07 to 4 bar)
	SL 5510: 2 to 100 psig (0.14 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 or tube weld
Bonnet port	1/8 inch NPT
Flow coefficient (Cv)	0.09
Internal volume	0.55 in <sup>3</sup> (9 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 1,500 psig inlet pressure
Leakage across seat	4 x 10 <sup>-8</sup> sccs He at 1,000 psig inlet pressure
Installation	surface or panel (optional)
Supply pressure effect	0.25 psig per 100 psig source pressure change

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

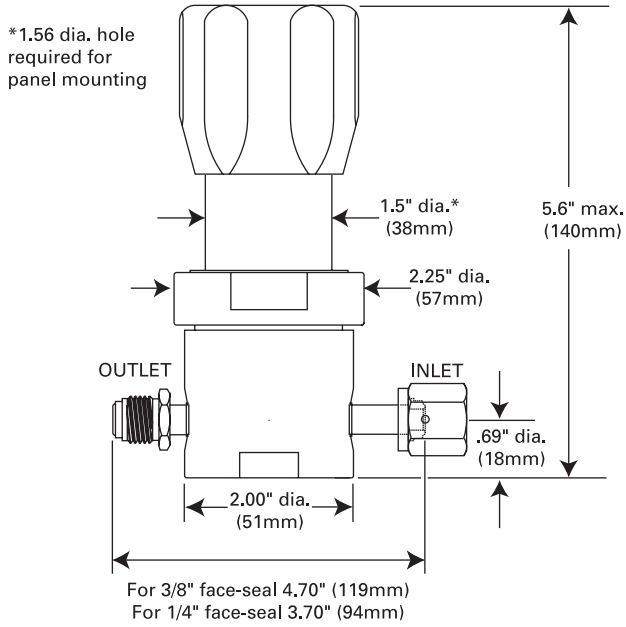
### Materials

Type of Service	Series SL 5500 S Noncorrosive	Series SL 5500 SH Corrosive
Wetted Parts		
Body	SS 316L secondary remelt	SS 316L secondary remelt
Poppet, diaphragm	SS 316L	Ni-Cr-Mo alloy / UNS N06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Polyimide optional)	PCTFE

All specifications subject to change without notice.

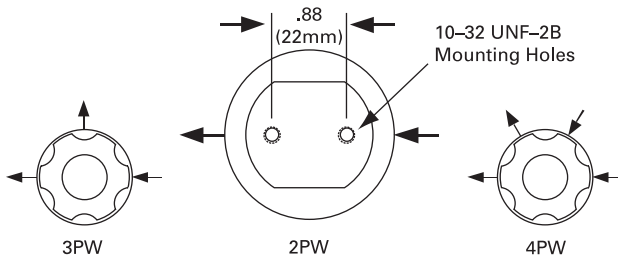
# UNCOMPROMISING QUALITY, PERFORMANCE AND RELIABILITY

## DIMENSIONAL INFORMATION

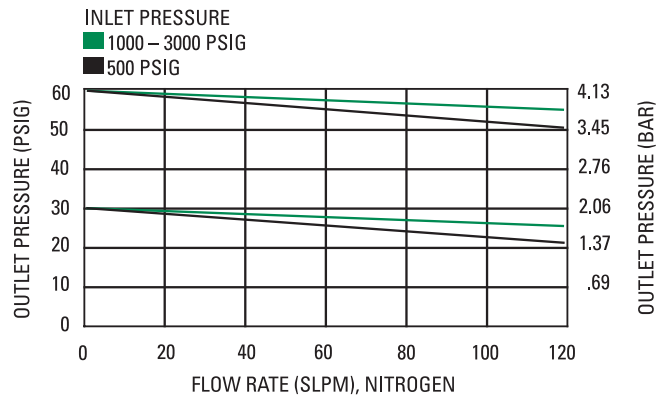
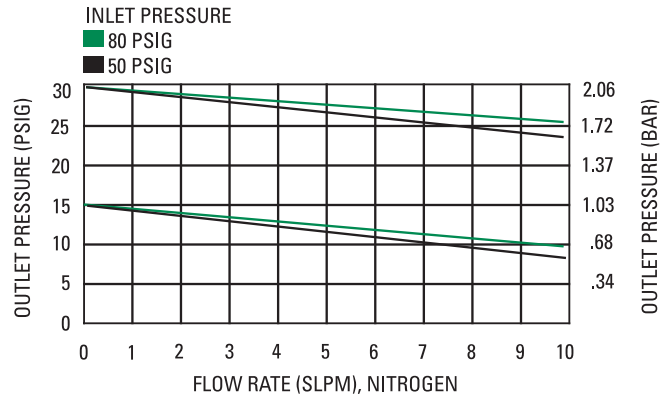


All dimensions in inches (mm). Metric dimensions are for reference only.

## PORTING CONFIGURATIONS



**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 5510SM 4PW FV4 FV4 40 1 P

<b>SL 5510</b>   Series	SL 5502 = 1-30 psig (.07-2 bar) SL 5506 = 1-60 psig (.07-4 bar) SL 5510 = 2-100 psig (.14-7 bar)
<b>S</b>   Material	S = Stainless steel (SS) SH = SS with Ni-Cr-Mo alloy internals
<b>M</b>   Surface Finish Options	M = 10 μin. Ra max (standard) V = 7 μin. Ra max X = 5 μin. Ra max
<b>Range Option</b>	A = 100mm Hg absolute to 30 psig (2 bar) (SL 5502 only)
<b>4PW</b>   Ports	2PW = 2 ports butt weld 3PW = 3 ports butt weld 4PW = 4 ports butt weld

**FV4 FV4** | Connections Inlet / Outlet

FV4 = 1/4 inch face seal female  
MV4 = 1/4 inch face seal male  
FV6 = 3/8 inch face seal female  
MV6 = 3/8 inch face seal male

Tube weld available

**40 1** | Gauges\* Source / Delivery

0 = No gauge  
V3 = 30-0-30 psig/bar  
L = 30-0-60 psig/bar  
1 = 30-0-100 psig/bar  
2 = 0-200 psig/bar  
4 = 0-400 psig/bar  
10 = 0-1000 psig/bar  
40 = 0-4000 psig/bar

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

**P** | Options

P = Panel installation\*\*  
VS = Polyimide seat  
KL = Knob LOTO  
(refer to AP KL data sheet)

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.

\*\* On panel mount option, bonnet port is not threaded. Panel hole 1.56" diameter.