



SERIES SL 5400

SPRINGLESS REGULATOR

Intermediate pressure and flow range

- Single stage
- 10 $\mu\text{in.}$ surface finish (7 and 5 $\mu\text{in.}$ optional)
- 316L SS VAR secondary remelt construction
- Vacuum to 1000 psig (69 bar) inlet
- UHP Semiconductor cleaned, assembled, tested and packaged
- Cylinder and point of use applications
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

Operating Parameters

Source pressure	vacuum to 1,000 psig (69 bar)
Delivery pressure	SL 5402 1 to 30 psig (0.07 to 2 bar)
	SL 5406 1 to 60 psig (0.07 to 4 bar)
	SL 5410 2 to 100 psig (0.14 to 7 bar)
Proof pressure	3,000 psig (207 bar)
Burst pressure	6,000 psig (414 bar)

Other Parameters

Inlet /outlet connectors	1/4, 3/8 or 1/2 inch face seal or tube weld
Bonnet port	1/8 inch NPT
Flow coefficient (Cv)	0.23
Internal volume	1.2 in ³ (19.7 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 1,000 psig inlet pressure
Leakage across seat	4 x 10 ⁻⁸ sccs He at 1,000 psig inlet pressure
Installation	surface or panel (optional)
Delivery pressure rise	1.6 psig per 100 psig source pressure drop

Materials

	Series SL 5400 S Noncorrosive	Series SL 5400 SH Corrosive
Type of Service	Noncorrosive	Corrosive
Wetted Parts		
Body	SS 316L secondary remelt	SS 316L secondary remelt
Diaphragm	SS 316L	SS 316L
Poppet	stainless steel 316L	Hastelloy® alloy C-22®
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (VespeI® optional)	PCTFE

All specifications subject to change without notice.

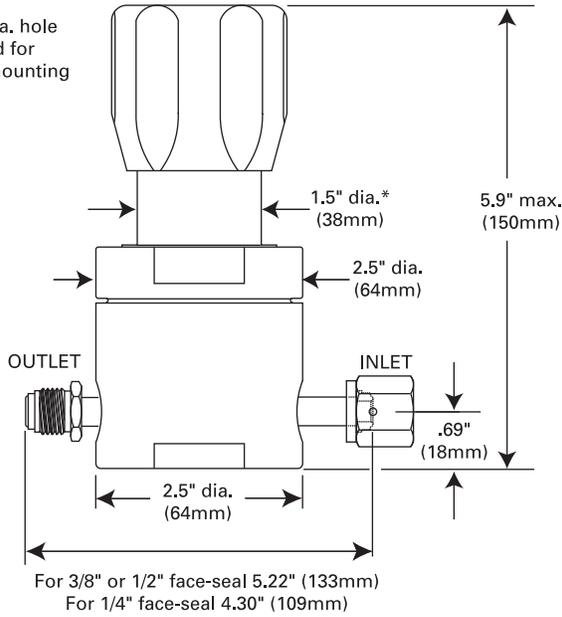
Hastelloy® C-22® Haynes Corporation VespeI® DuPont

ENGINEERING DATA — SERIES SL 5400 SPRINGLESS REGULATOR

SERVICE AND SUPPORT BEYOND COMPARE

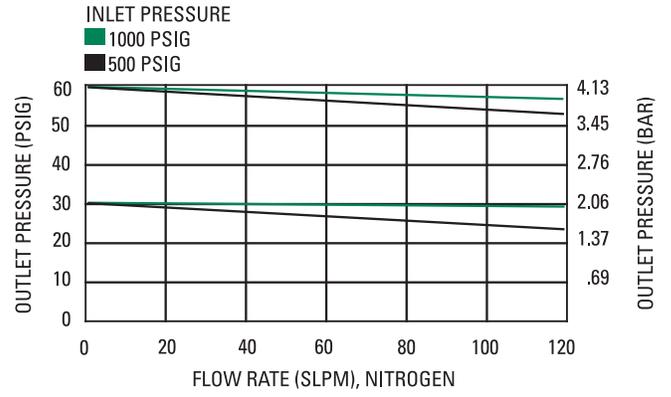
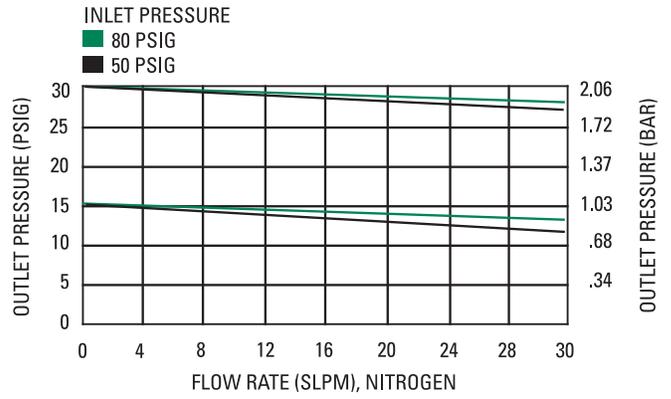
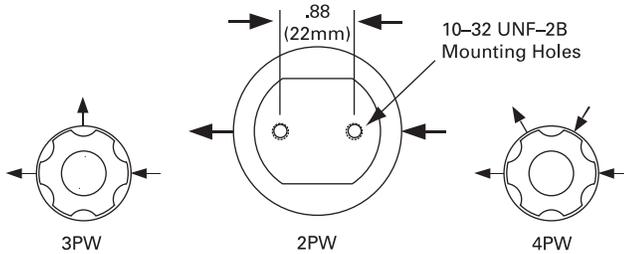
DIMENSIONAL INFORMATION

*1.56 dia. hole required for panel mounting



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 5406SM 4PW FV4 FV4 10 L P

SL 5406 | Series

SL 5402 = 1-30 psig (.07 to 2 bar)
 SL 5406 = 1-60 psig (.07 to 4 bar)
 SL 5410 = 2-100 psig (.14 to 7 bar)

S | Material

S = Stainless steel (SS)
 SH = SS/Hastelloy alloy C-22 poppet

M | Surface Finish Options

M = 10 μin. Ra max (standard)
 V = 7 μin. Ra max
 X = 5 μin. Ra max

4PW | 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
 FV8 = 1/2 inch face seal female
 MV8 = 1/2 inch face seal male

Tube weld stub available

10 L | 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

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

P | Options

P = Panel installation**
 VS = Vespel seat

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