

High Pressure Regulator

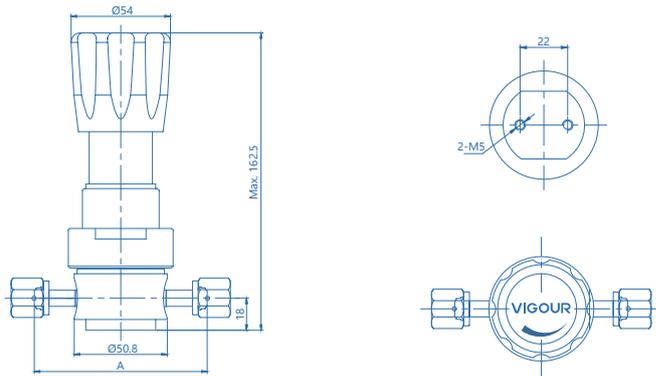
VSR-930UB Series

VIGOUR

Product Feature

- Single-stage pressure regulator
- 10µin. Ra surface finish
- Minimized internal volume for short purge times
- Piston sensing element
- All materials used meet ASTM A479 / A484 / A276 standards
- Internal connectors for pressure gauges
- Flow capacity: to 30 slpm (standard), to 120 slpm (optional)
- High control accuracy
- Metal-to-metal seal to atmosphere
- Simple outlet pressure limitation by hand-wheel
- Applies only to inert gases

Dimensions (mm)

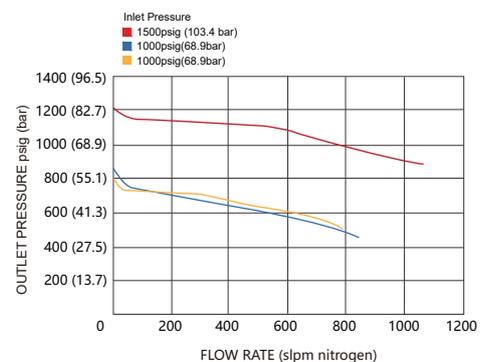


Connections	A	
	inch	mm
FV4	3.70	94
MV4		

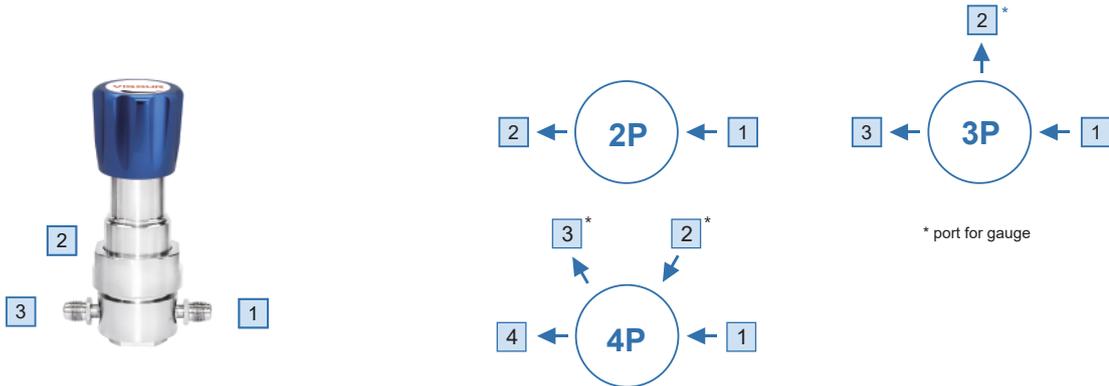
Technical Data

Type:	single-stage
Inlet pressure P1:	5800 psig (400bar)
Outlet pressure P2:	500/2500 psig (35/170bar)
Surface finish:	10µin. Ra
Materials	
Body:	see ordering info
Valve seat:	PCTFE (Vespel® optional)
Diaphragm:	Hastelloy® C276
Inlets and Outlets:	1/4" VFS fitting and tube weld
Bonnet port:	1/8" NPT (on panel mount option, bonnet port is not threaded)
Temperature range:	0°F to +140°F (-18°C to +60°C)
Leak rate:	Bubble tight
Flow capacity:	Cv=0.09 (Cv=0.15 optional)
Supply pressure effect:	0.35 psig rise in delivery pressure per 100 psig source pressure drop @Cv=0.09 0.5psig rise in delivery pressure per 100 psig source pressure drop @Cv=0.15
Weight:	approx. 2.0kg (depending on connections or options)

Flowchart



Ordering Information



* port for gauge

Inlet/outlet Connection

- FV4: 1/4" VFS female
- MV4: 1/4" VFS male
- IFV4: 1/4" (gauge female threaded connection machined on the body)
- TW4: 1/4" tube weld
- P: gauge (1/4" VFS fitting)
- IP: gauge (IFV4 fitting)

* Other connection standard, consult factory

Port Selection

VSR-930UBPS - 400 - 170 - 4P - 1 - 2 - 3 - 4 - HF - VS - X - P

Installation

- None: bottom mount
- P: panel mount *

* Panel hole $\Phi 36\text{mm}$

Materials

S: 316L

Inlet Pressure

400: 5800 psig

Port Config

- 2P: 2 ports
- 3P: 3 ports
- 4P: 4 ports

Outlet Pressure

- 35: 25~500 psig
- 170: 100 ~ 2500 psig

Process Specification

- None: VS001B
- P: VS001A

* For details, please refer to the appendix.

Option

- None: Self-relief
- X: Non-relief

Valve seat Option

- None: PCTFE
- VS: Vespel®

Cv Option

- None: Cv=0.09
- HF: Cv=0.15*

* The HF option uses only Vespel® valve seats.

Ordering Example

VSR - 930UBS - 400 - 170 - 3P - FV4 - P - FV4

1 - 2 - 3

