

High Pressure Regulators

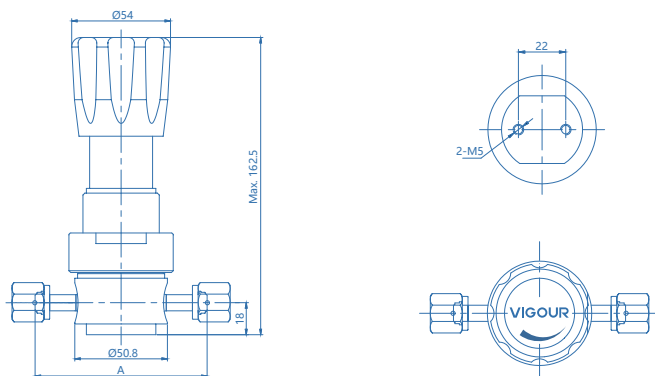
VSR-930UB Series

VIGOUR

Product Feature

- Single-stage pressure regulator
- 10µin. Ra surface finish (25µin. Ra optional)
- Minimized internal volume for short purge times
- Piston sensing element
- All materials used meet ASTM A479 / A484 / A276 standards
- The product is fabricated in compliance with the VS001B process specification
- 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)

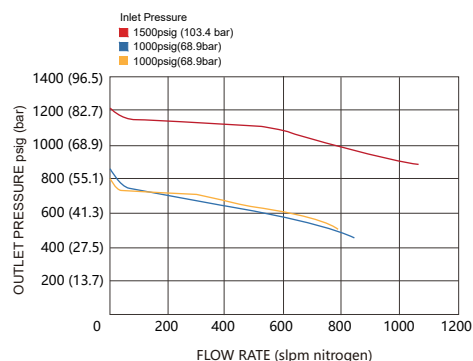


Connections	A	
	inch	mm
FV4	3.70	94
MV4		

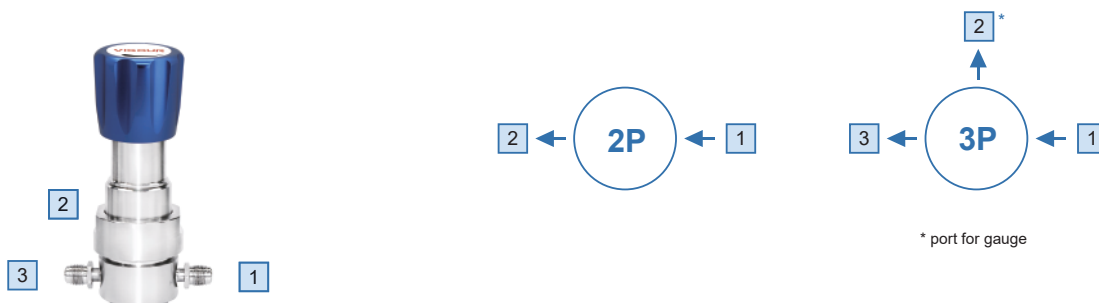
Technical Data

Type:	single-stage
Inlet pressure P1:	5800 psig (400bar)
Outlet pressure P2:	500/2500 psig (35/170bar)
Surface finish:	10µin. Ra (25µin. Ra optional)
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



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

Installation

None: bottom mount

P: panel mount *

* Panel hole Φ36mm

Materials

S: 316L

Inlet Pressure

400: 5800 psig

Port Config

2P: 2 ports

3P: 3 ports

Outlet Pressure

35: 25~500 psig

170: 100 ~ 2500 psig

Option

X: No self-relieving pressure

Valve seat Option

None: PCTFE

VS: Vespe[®]

Cv Option

None: Cv=0.09

HF: Cv=0.15*

*The HF option uses only Vespe[®] valve seats.

Ordering Example

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

1 - 2 - 3

