

# High Pressure Regulators

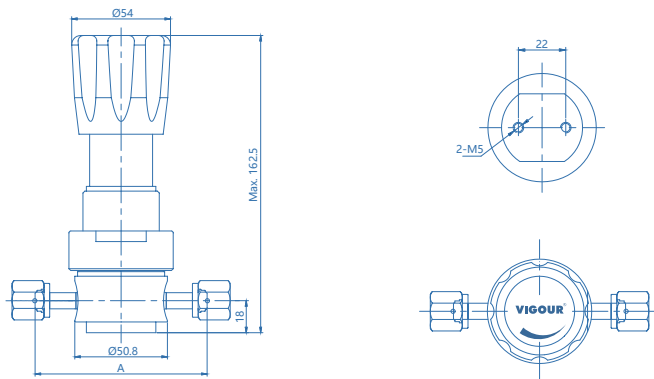
## VSR-930UB Series

### 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
- 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)

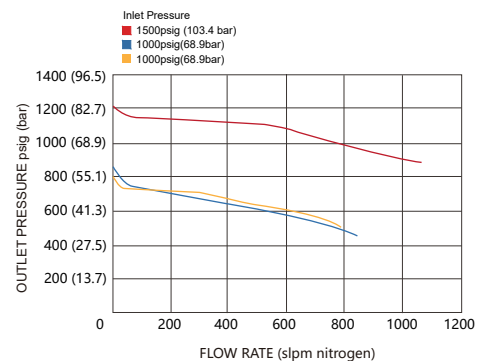


| Connections | A    |    |
|-------------|------|----|
|             | inch | mm |
| FV4         | 3.70 | 94 |
| MV4         |      |    |

### Technical Data

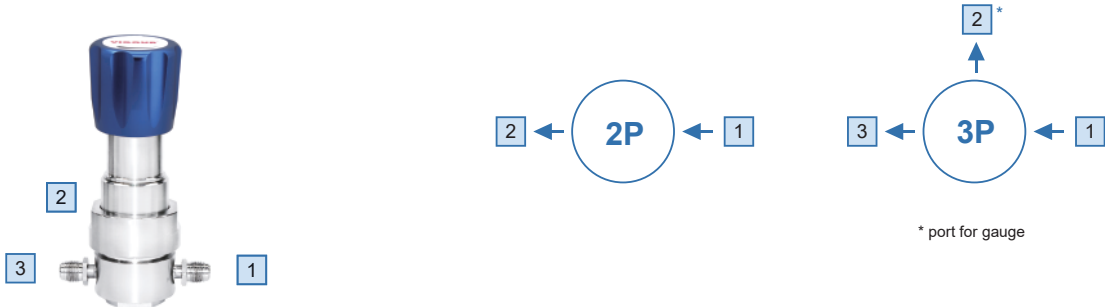
|                         |  |
|-------------------------|--|
| Type:                   | single-stage   |
| Inlet pressure P1:      | max. 6000 psig   |
| Outlet pressure P2:     | 100~2500 psig  |
| Surface finish:         | 10µin. Ra (25µin. Ra optional)   |
| <b>Materials</b>        |  |
| Body:                   | 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<br>100 psig source pressure drop @Cv=0.09<br>0.5psig rise in delivery pressure per<br>100 psig source pressure drop @Cv=0.15 |
| Weight:                 | approx. 1.8kg  |

### Flowchart



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## 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  $\Phi$ 36mm

#### Materials

S: 316L

#### Inlet Pressure

400: 5800 psig

#### Port Config

2P: 2 ports

3P: 3 ports

#### Outlet Pressure

170: 100 ~ 2500 psig

#### Option

None: No self-relieving pressure

X: Include self-relieving pressure

#### Valve seat Option

None: PCTFE

VS: Vespel®

#### Cv Option

None: Cv=0.09

HF: Cv=0.15

## Ordering Example

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

**1 - 2 - 3**

