

Single Stage Pressure Regulator

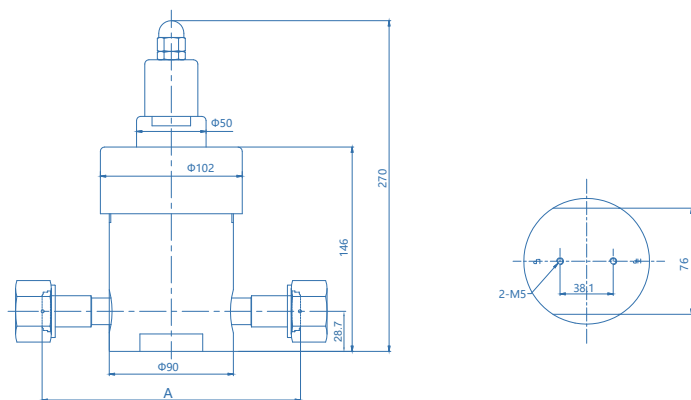
VSR-911UB Series

VIGOUR

Product Feature

- Single-stage pressure regulator
- All materials used meet ASTM A479 / A484 / A276 standards
- 15µin. Ra max. 10µin Ra max optional
- design for bulk special gas supply system
- Tied-diaphragm design with bellows sensing element
- Metal-to-metal seal to atmosphere
- 100% helium-leak-tested

Dimensions (mm)

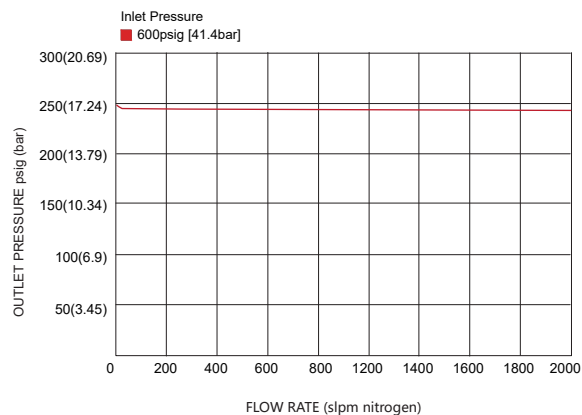


Connections	A	
	inch	(mm)
FV8	6.22	(158.0)
MV8		
TW8	9.50	(241.4)
FV12	7.28	(185.0)
MV12		
TW12	9.50	(241.4)
FV16	7.84	(199.2)
MV16		
TW16	9.50	(241.4)

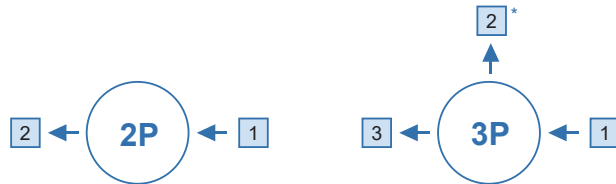
Technical Data

Type:	single-stage
Inlet pressure P1:	Max. 3000 psig (200bar)
Outlet pressure P2:	300 psig (21bar)
Surface finish:	15µin. Ra max 10µin. Ra max (optional)
Materials	
Body:	SS 316L
Valve seat:	PCTFE (Vespel® optional)
Diaphragm:	Hastelloy® C22
Inlets and Outlets:	1/2" / 3/4" or 1" face seal or tube weld
Bonnet port:	1/8" FNPT(option)
Temperature range:	-40°F to +160°F (-40°C to +71°C)
Leak rate: (to atmosphere)	1x10 ⁻⁹ mbar l/s He
(via seat)	1x10 ⁻⁸ mbar l/s He
Flow capacity:	Cv=3.0 / Cv=4.0
Weight:	approx. 6.0kg (depending on connections or options)

Flowchart



Ordering Information



Inlet/Outlet Connection

FV8: 1/2" VFS female

MV8: 1/2" VFS male

FV12: 3/4" VFS female

MV12: 3/4" VFS male

FV16: 1" VFS female

MV16: 1" VFS male

MV4: 1/4" VFS male

IFV4: 1/4" (gauge female threaded connection
machined on the body)

TW8: 1/2" tube weld

TW12: 3/4" tube weld

TW16: 1" tube weld

P: gauge (1/4" VFS fitting)

IP: gauge (IFV4 fitting)

* Other connection standard, consult factory

Port Selection

VSR-911UBS - 55 - P21 - 3P - 1 - 2 - 3 - R10 - VS - P

Materials

S: 316L

Inlet Pressure

55: 800 psig (Cv=4.0)

117: 1700 psig (Cv=3.0)

200: 3000 psig* (Cv=3.0)

* 3000 psig: The VS option must be selected.

Port Config

2P: 2 port

3P: 3 port

Outlet Pressure

P21: Preset to 300 psig*

* 300 psig outlet pressure preset at
800 psig inlet pressure.

Process Specification

None: VS001B

P: VS001A

* For details, please refer to the appendix.

Valve seat Option

None: PCTFE

VS: Vespel®

Surface Finish

None: 15 µin. Ra max

R10: 10 µin. Ra max

Ordering Example

VSR - 911UBS - 55 - P21 - 2P - MV12 - FV12

1 - 2

