

Single Stage Pressure Regulators

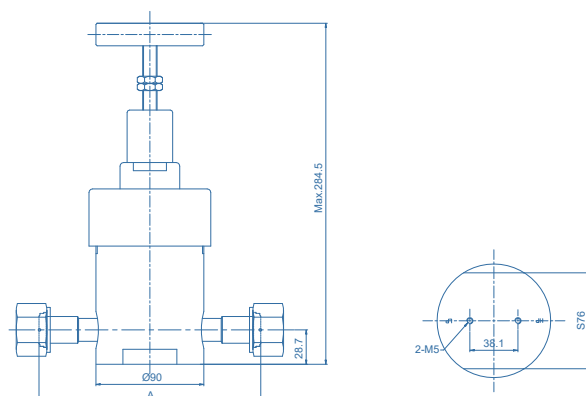
VSR-910UB Series

VIGOUR

Product Feature

- Single-stage pressure regulator
- 15µin. Ra max. 10µin Ra max optional
- design for bulk special gas supply system
- Tied-diaphragm design with bellows sensing element
- All materials used meet ASTM A479 / A484 / A276 standards
- The product is fabricated in compliance with the VS001B process specification
- Metal-to-metal seal to atmosphere
- 100% helium-leak-tested

Dimensions (mm)

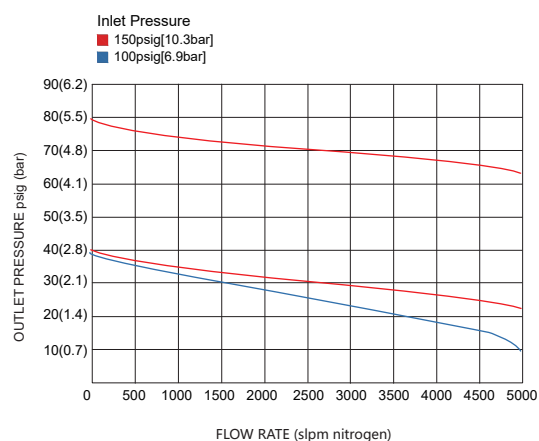


Connections	A	
	inch	(mm)
FV8	6.22	(158.0)
MV8	6.22	(158.0)
TW8	9.50	(241.4)
FV12	7.28	(185.0)
MV12	7.28	(185.0)
TW12	9.50	(241.4)
FV16	7.84	(199.2)
MV16	7.84	(199.2)
TW16	9.50	(241.4)

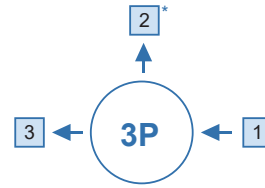
Technical Data

Type:	single-stage
Inlet pressure P1:	Max. 3000 psig (200bar)
Outlet pressure P2:	Vac to 30/60/100/150 psig (2/4/7/10bar)
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" VFS fitting or tube weld
Bonnet port:	1/8" FNPT(optional)
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. 6.7kg (depending on connections or options)

Flowchart



Ordering Information



* port for gauge

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 - 910UBS - 55 - 4 - 3P - 1 - 2 - 3 - R10 - VS

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

V2: Vac to 30 psig*

V4: Vac to 60 psig*

V7: Vac to 100 psig*

V10: Vac to 150 psig*

2: to 30 psig

4: to 60 psig

7: to 100 psig

10: to 150 psig

* With the V option, the negative pressure can not be adjusted, only the pressure gauge shows the negative pressure.

Valve seat Option

None: PCTFE

VS: Vespel®

Surface Finish

None: 15 μin. Ra max

R10: 10 μin. Ra max

Ordering Example

VSR - 910UBS - 55 - 10 - 2P - MV12 - FV12

1 - 2

